

4415 HO ST

(with screen)

Installation Manual



TRAVIS INDUSTRIES
HOUSE OF FIRE

⚠ 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 store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **WHAT TO DO IF YOU SMELL GAS**
 - Do not try to light any appliance.
 - Do not touch any electrical switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.



**HOT GLASS WILL CAUSE
BURNS**

**DO NOT TOUCH GLASS
UNTIL COOLED**

**NEVER ALLOW CHILDREN
TO TOUCH GLASS**

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

Tested and Listed by



Intertek

Report # 101861882PRT-001
ANSI Z21.88a-2014
CSA 2.33a-2014

- **Built-In Direct Vent
Fireplace**
- **Natural Gas or Propane**
- **Residential or Mobile
Home**

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. A conversion kit is supplied with the appliance.

INSTALLER: Leave this manual with the appliance.

CONSUMER: Retain this manual for future reference.

Overview

This manual details the installation requirements for the 4415 HO See-Through fireplace. For operating and maintenance instructions, refer to the Owner's Manual (part # 100-01426).

Listing Details

This appliance was listed by Intertek Test Labs to ANSI Z21.88. The listing label is attached to the appliance near the gas control valve. A copy is shown to the right.

Massachusetts Approval

This manual has been submitted to the Massachusetts Board of State Examiners of Plumbers and Gas Fitters.

National Fireplace Institute

**NATIONAL
FIREPLACE
INSTITUTE®**



CERTIFIED
www.nficertified.org

We suggest 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.



4415 ST GSR2

Vented Gas Fireplace Heater

Report No. 101861882PRT-001
Control No. 4000515

Tested to: ANSI Z21.88-2014/CSA 2.33-2014 "Vented Gas Fireplace Heater", CSA 2.17-M91 (R2009) "Gas Burning Heating Appliances for Manufactured Homes", and CSAP-4.1-09 Testing method for measuring annual fireplace efficiency.

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

This appliance must be installed in accordance with the current Standard CAN/CSA Z240 MH, Mobile Housing, in Canada or with the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280, in the United States; or when such a standard is not applicable, ANSI/NCSS A225.1/NFPA 501A, Manufactured Home Installation Standard.

This vented gas fireplace heater is equipped at the factory for use with natural gas. If conversion to propane (LP) is desired, the optional factory conversion kit must be used. Part No. 250-02897 register kit may be used.

This appliance is only for use with the type of gas indicated on the rating plate and may be installed in an aftermarket, permanently located, manufactured home (USA only) or mobile home, where not prohibited by local codes. See owner's manual for details. This appliance is not convertible for use with other gases, unless a certified kit is used.

This vented gas fireplace heater is not for use with air filters.

Keep burner and control compartment clean. See installation and operating instructions accompanying appliance.

This appliance must be properly connected to a venting system in accordance with the manufacturer's installation instructions. Use only approved coaxial direct vent system to vent this appliance to the exterior. See owner's manual for approved brands of venting.

If the vent-air intake system is disconnected for servicing or any other reason, it must be resealed and / or reinstalled.

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.

VENTED GAS FIREPLACE HEATER - NOT FOR USE WITH SOLID FUEL

CAUTION: Do not operate this appliance with glass removed, cracked or broken. Replacement of the panel(s) should be done by a licensed or qualified service person.

Minimum Clearances to Combustibles

Fireplace to Adjacent Wall	3" (77mm)	Base of Fireplace to Enclosure Top	64" (1626mm)
Wood Floor Beneath Fireplace	0" (0mm)	Sides to Enclosure	0.625" (17mm)
Back to Enclosure	N / A	Base of Fireplace to a Mantel	See Owner's Manual

FAN TYPE VENTED CIRCULATOR

Blower Electrical Rating: 120V., 4.5 Amps, 60 Hz, 540 Watts

Part No. 250-02898 / 250-02899 fan or blower assembly may be used.

DANGER! Risk of Electric Shock. Disconnect power before servicing unit.

Input Rate on "HI" (BTU/Hr)	L.P. 42,000	N.G. 21,413	Minimum Inlet Pressure (inches W.C.)	L.P. 11"	N.G. 5.5"
Input Rate on "LO" (BTU/Hr)	21,413	21,672	Maximum Inlet Pressure (inches W.C.)	13"	7"
Orifice Size - (DMS)	#49	#31	Manifold Pressure on "HI" (inches W.C.)	11"	3.8"

This appliance is equipped for use only at altitudes 0-2,000 feet (0-610m) in the USA. In Canada, 0-4,500 feet (0-1370m). For altitudes above 2,000 feet, the vent configuration, orifice, or combination of both may need to be changed. See owner's manual for information on making these changes.



Manufactured by:

TRAVIS INDUSTRIES
HOUSE OF FIRE
12521 Harbour Reach Drive
Mukilteo, WA 98275
www.travisproducts.com

MANUFACTURE DATE:

<input type="checkbox"/> 2015	<input type="checkbox"/> Jan.	<input type="checkbox"/> Apr.	<input type="checkbox"/> Jul.	<input type="checkbox"/> Oct.
<input type="checkbox"/> 2016	<input type="checkbox"/> Feb.	<input type="checkbox"/> May	<input type="checkbox"/> Aug.	<input type="checkbox"/> Nov.
<input type="checkbox"/> 2017	<input type="checkbox"/> Mar.	<input type="checkbox"/> Jun.	<input type="checkbox"/> Sep.	<input type="checkbox"/> Dec.

WARNING: Failure to install this appliance per the manufacturer's instructions or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

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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/NCSBCS 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 under water.

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.
- 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 of any consequential damage(s).**

Proposition 65 Warning: Fuels used in gas, woodburning or oil fired appliances, and the products of combustion of such fuels, contain chemicals known to the State of California to cause cancer, birth defects and other reproductive harm.
California Health & Safety Code Sec. 25249.6

6

Features and Specifications

Installation Options

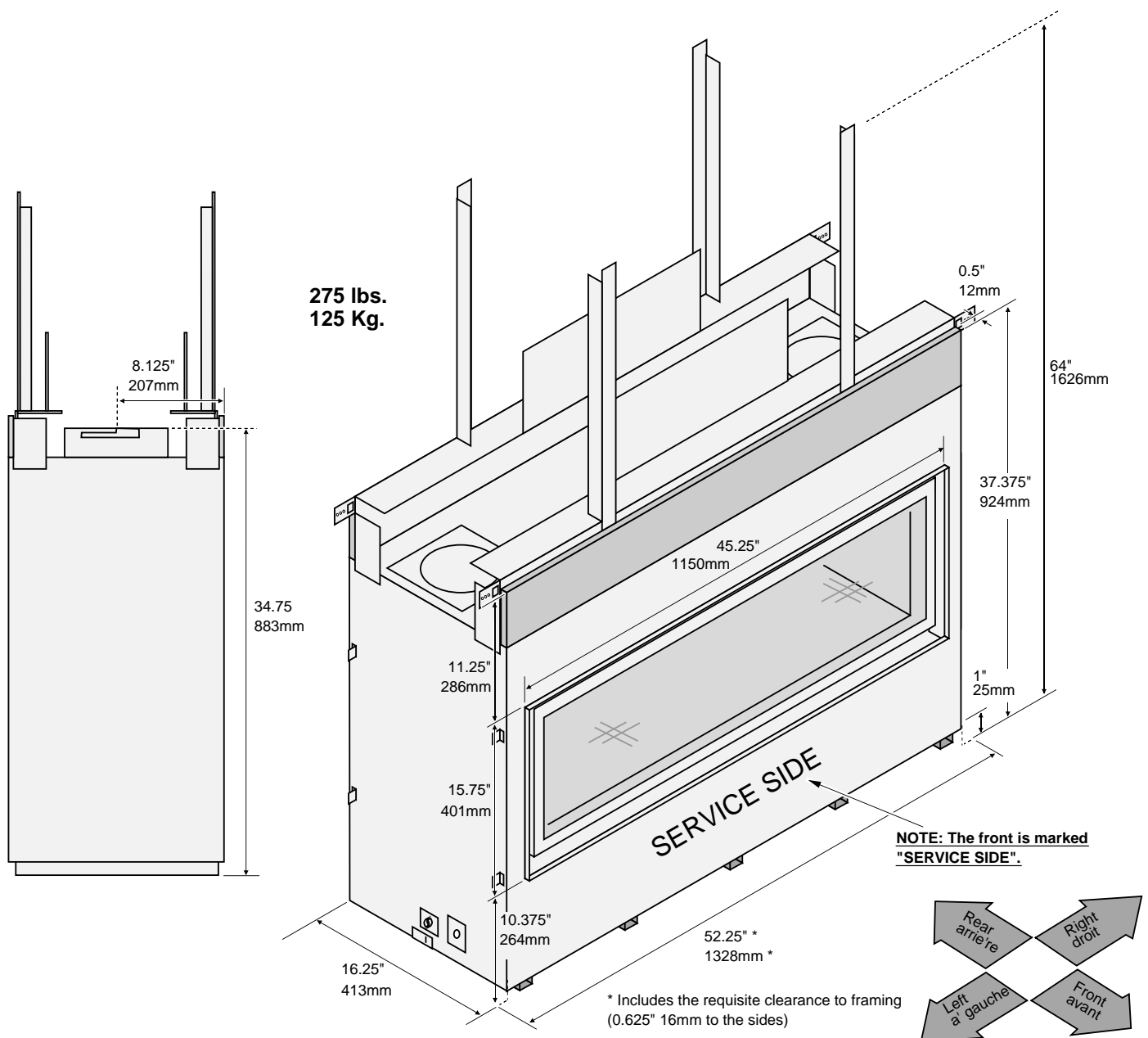
- Residential or Mobile Home
- Internal or External Chase
- Raised or Floor Placement
- Bedroom Approved

Heating Specifications

	Natural Gas	Propane
Approximate Heating Capacity (in square feet)*	Up to 2,100	Up to 2,100
Maximum BTU Input Per Hour	42,000	42,000

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

Dimensions



Packing List

- Propane Conversion Kit
- Remote Control
- 4 AA Batteries, 3 AAA Batteries
- Glass Latch Tool
- (2) Firestops (8" Diameter)
- Minimum Vent Pipe Shield (Top, bottom, 2 wings & 18 screws)

Additional Items Required

- **If using LP (propane) a conversion kit is required (sku 94400999 – GSR Stepper Motor Kit).**
- Gas Line Equipment (shutoff valve, pipe, etc.)
- Electrical Equipment (min. 14 gauge, grounded line)
- **This Fireplace Requires Firebacks and 8 lbs. of 1/4" Crushed Glass**

<u>Firebacks</u>	96100976 LedgeStone 96100977 Black Enamel 96100978 Black Painted 96100979 Silver Painted
<u>Crushed Glass</u>	94500580 Platinum (10 lbs.) 94500581 Bronze (10 lbs.) 94500582 Cobalt (10 lbs.)

Recommended Installation Procedure

- **CAREFULLY PLAN THE INSTALLATION.** Make sure to accommodate facing type (flush or tile-over and how it affects framing, etc.
- Construct the fireplace platform (for raised fireplaces)
- Place the fireplace in position. Secure it to the platform (or floor).
- Install the vent, gas line and electrical hook-up.
- Install the framing.
- Secure the fireplace to the framing.
- Install the drywall.
- Install the hearth (if applicable).
- Install the facing (if applicable).
- Install the mantel (if applicable).
- Finalize the installation (see page 36).

Massachusetts Requirements

NOTE: The following requirements reference various Massachusetts and national codes not contained in this document.

Requirements for the Commonwealth of Massachusetts

For all side wall 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 seven (7) feet above finished grade in the area of the venting, including but not limited to decks and porches, the following requirements shall be satisfied:

Installation of Carbon Monoxide Detectors

At the time of installation of the side wall horizontal vented gas fueled equipment, the installing plumber or gasfitter 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 gasfitter shall observe that a battery operated or hard wired carbon monoxide detector with an alarm 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 an attic, the hard wired carbon monoxide detector with alarm and battery back-up may be installed on the next adjacent floor level.

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

Approved Carbon Monoxide Detectors

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

Signage

A metal or plastic identification plate shall be permanently mounted to the exterior of the building at a minimum height 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 size no less than one-half (1/2) inch in size, "GAS VENT DIRECTLY BELOW. KEEP CLEAR OF ALL OBSTRUCTIONS".

Inspection

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

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.

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 a Product Approved side wall horizontally vented gas fueled 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 system" 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.

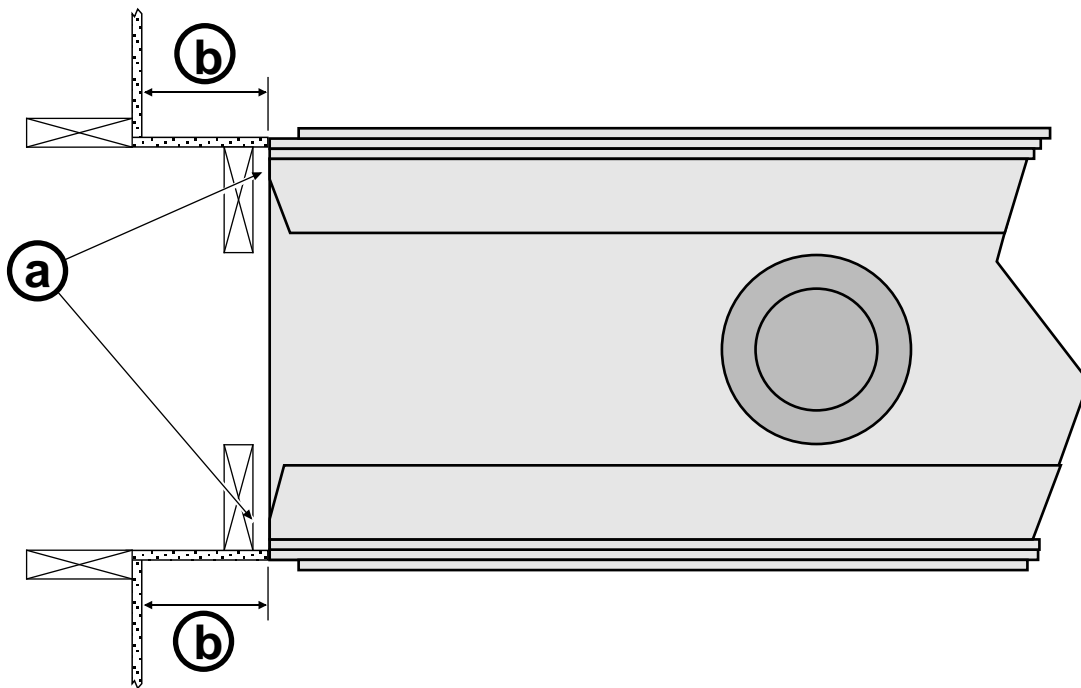
See Gas Connection section for additional Commonwealth of Massachusetts requirements.

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 draperies.
- 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 5/8" (16mm). Do not place insulation in this space.
 NOTE: Drywall or other combustible may contact the side of the fireplace in front of the framing. The material must not protrude in front of the fireplace and may be a maximum 1/2" (13mm) thick.
- (b) When installed, walls in front of the fireplace must be a minimum 3" (77mm) to the side of the fireplace.



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 64" (1626mm) below the room ceiling.



The firebox opening is approximately 10.375" (264mm) above the base of the fireplace. For a typical raised fireplace of 36" (915mm), place the fireplace on a platform 25.625" (651mm) tall.

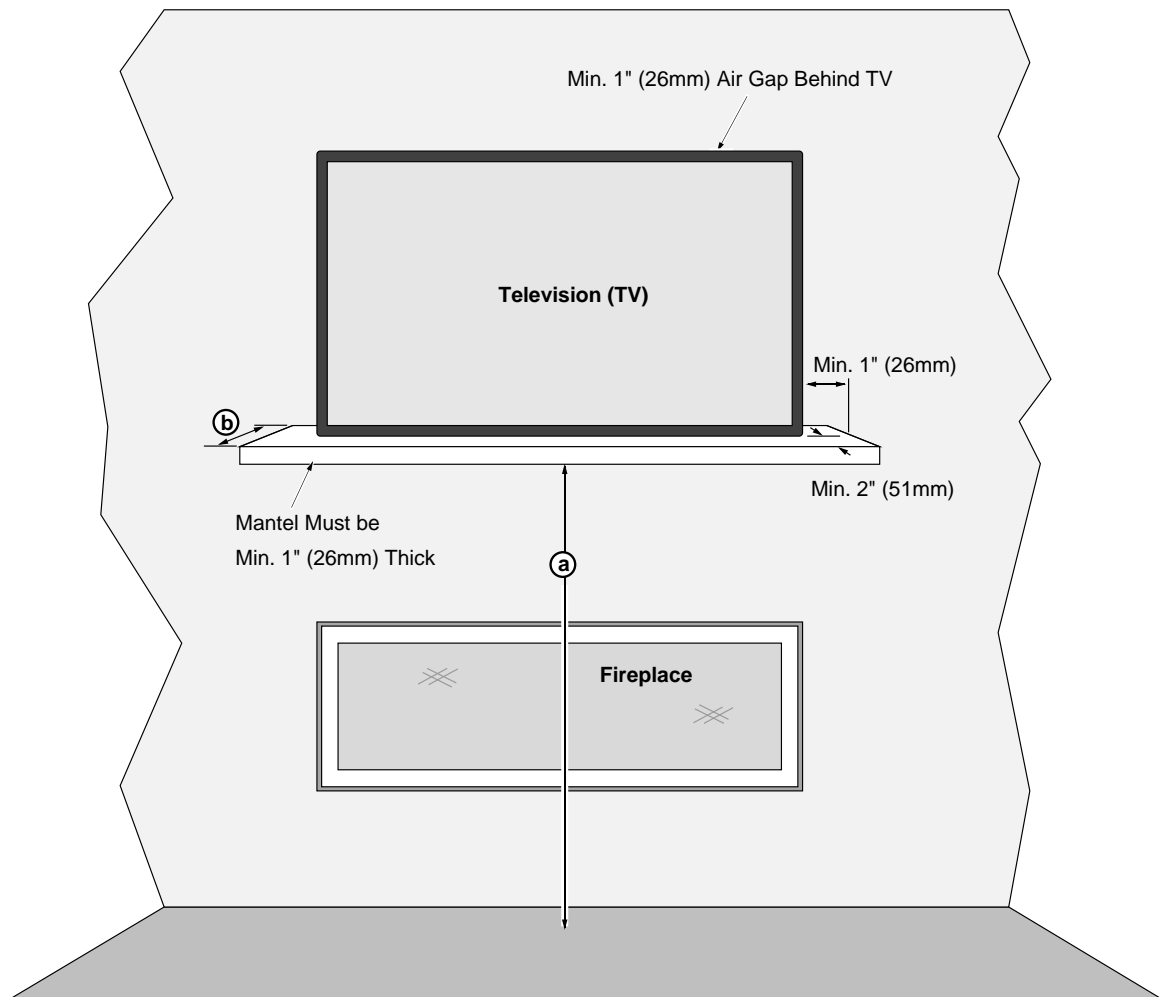
Televisions Placed Above the Fireplace

The following section details three methods to allow for television installation above the fireplace.

Using a Mantel Between the Fireplace and Television

IMPORTANT NOTE REGARDING TELEVISIONS AND THIS FIREPLACE

Most television manufacturers instruct the homeowner to not place the television above a heat source. Doing so may negatively affect the longevity of the television and may negate the warranty. If you do place a television above the fireplace, please be aware of the large amount of heat generated by the fireplace and consider placing the television above a mantel to reduce the amount of heat that reaches the television. The homeowner must understand that Travis Industries does not take responsibility for any negative impact to televisions placed near this fireplace.



Minimum Dimensions:

(a) Minimum Mantel Height above Base of Fireplace*	42" (1067mm) with 8" (203mm) mantel depth
(b) Mantel Depth*	Minimum 8" (203mm)*

*** Mantel depth is 8" minimum to allow heat to travel forward and dissipate. If using more than an 8" mantel, make sure to make the mantel height (a) higher (see mantel requirements on page 36 for details).**

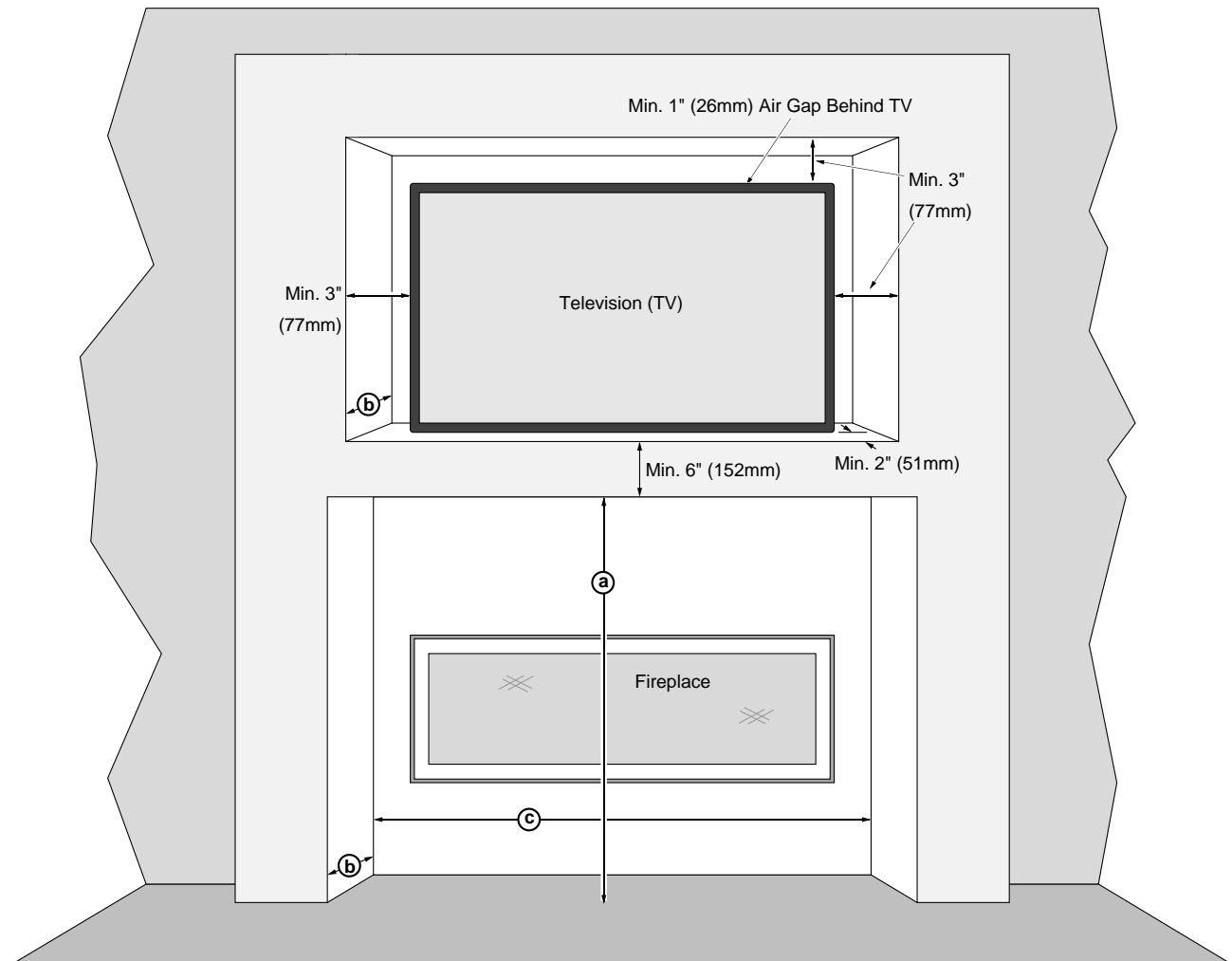
NOTE: The mantel must extend 2" in front of the TV and 1" to both sides. If you have a TV that is greater than 6" deep (including the 1" gap behind), you will need to alter the mantel depth and height.

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

Using a Buildout Above Fireplace and Television

IMPORTANT NOTE REGARDING TELEVISIONS AND THIS FIREPLACE

Most television manufacturers instruct the homeowner to not place the television above a heat source. Doing so may negatively affect the longevity of the television and may negate the warranty. If you do place a television above the fireplace, please be aware of the large amount of heat generated by the fireplace and consider placing the television above a mantel to reduce the amount of heat that reaches the television. The homeowner must understand that Travis Industries does not take responsibility for any negative impact to televisions placed near this fireplace.



Minimum Dimensions:

(a) Minimum Buildout Height above Base of Fireplace*	42" (1067mm) with 8" (203mm) buildout depth
(b) Minimum Fireplace/TV Buildout Depth*	Minimum 8" (203mm)*
(c) Fireplace Buildout Width	53.5" (1359mm)

*** Buildout depth is 8" minimum to allow heat to travel forward and dissipate. If using more than an 8" buildout, make sure to make the buildout height (a) higher (buildout must meet mantel requirements - see page 36 for details).**

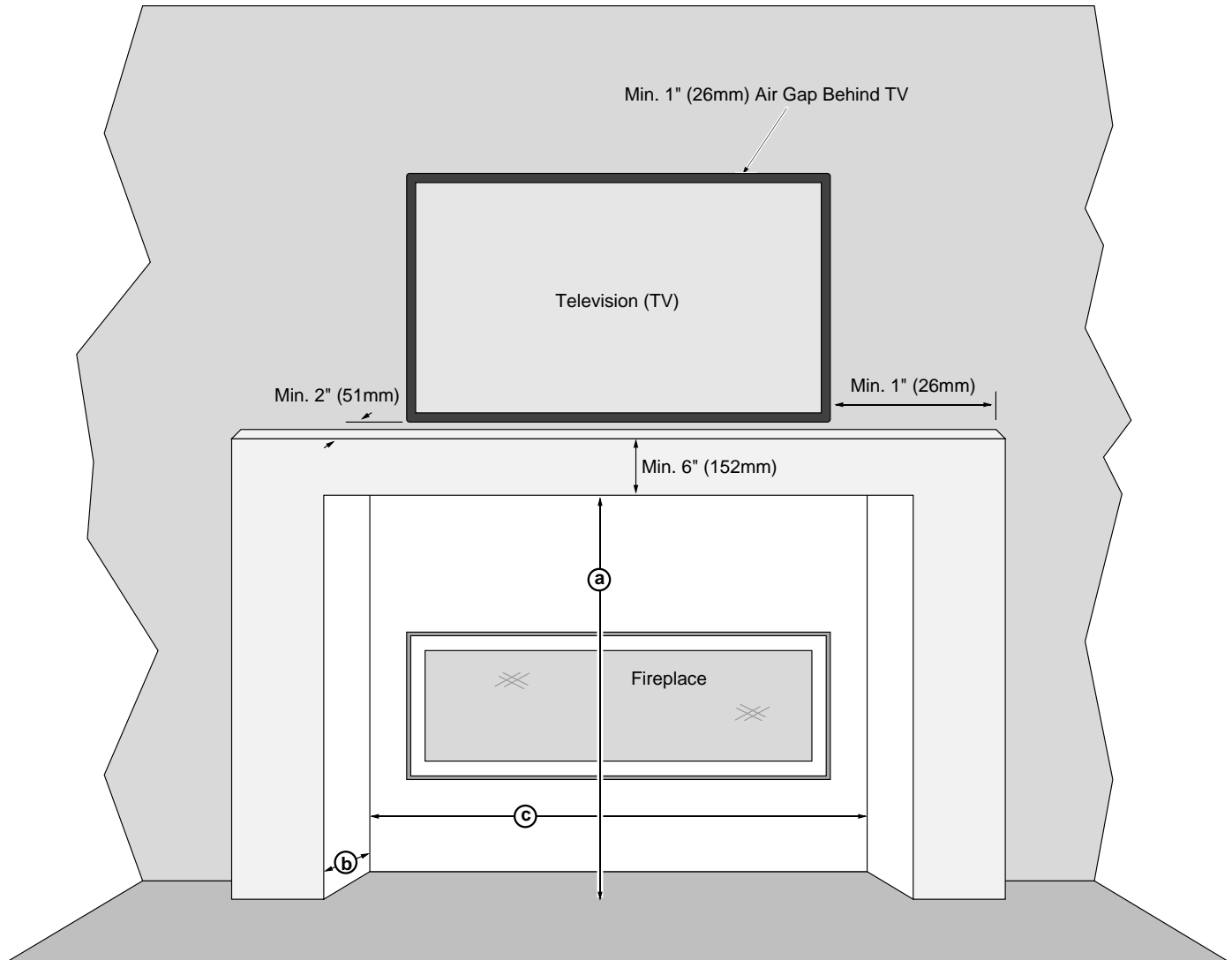
NOTE: The buildout must extend 2" in front of the TV and 3" to both sides and top. If you have a TV that is greater than 6" deep (including the 1" gap behind), you will need to alter the buildout depth and height.

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

Using a Buildout Below a Television

IMPORTANT NOTE REGARDING TELEVISIONS AND THIS FIREPLACE

Most television manufacturers instruct the homeowner to not place the television above a heat source. Doing so may negatively affect the longevity of the television and may negate the warranty. If you do place a television above the fireplace, please be aware of the large amount of heat generated by the fireplace and consider placing the television above a mantel to reduce the amount of heat that reaches the television. The homeowner must understand that Travis Industries does not take responsibility for any negative impact to televisions placed near this fireplace.

**Minimum Dimensions:**

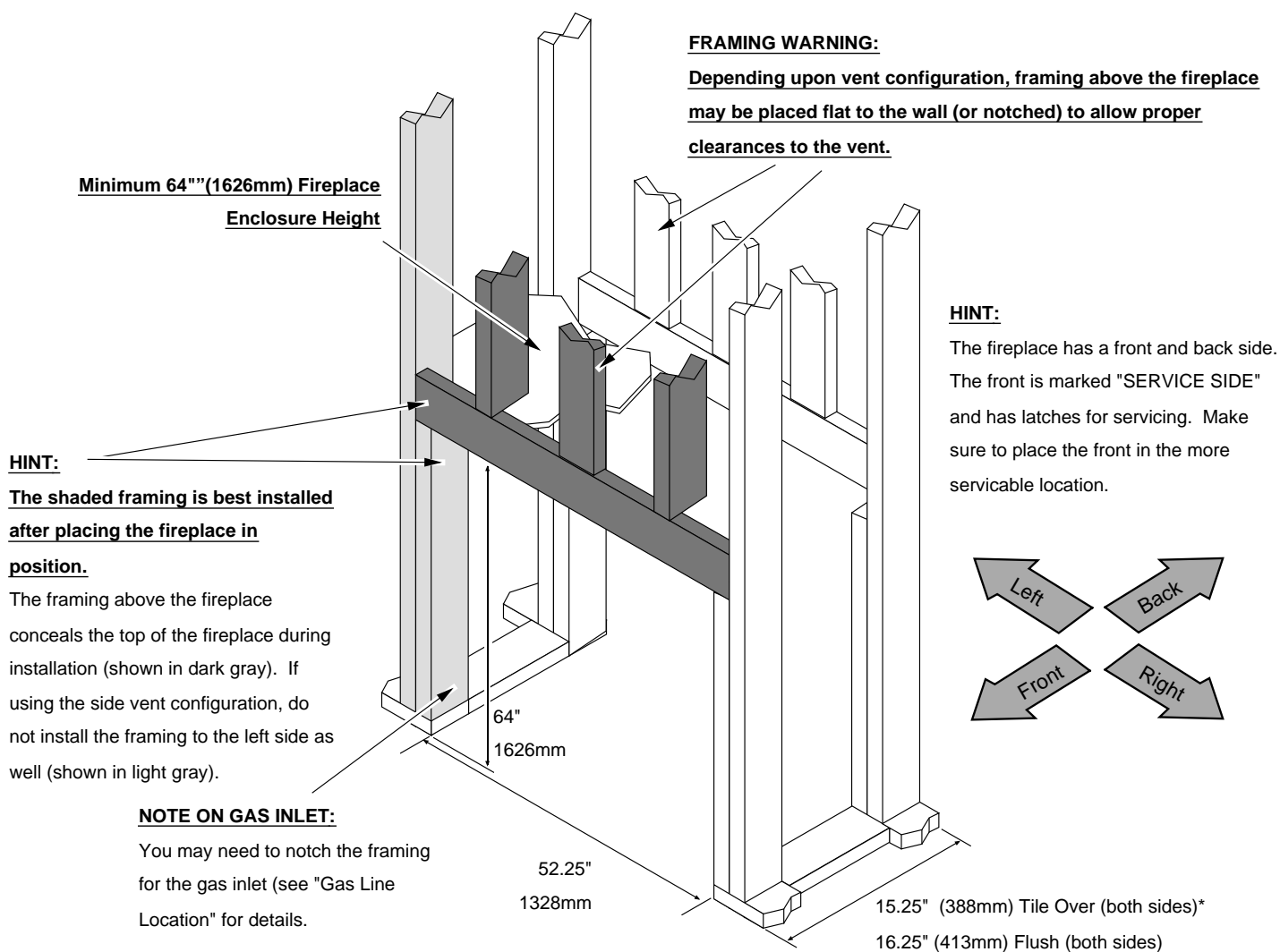
(a) Minimum Buildout Height above Base of Fireplace*	42" (1067mm) with 8" (203mm) buildout depth
(b) Minimum Buildout Depth*	Minimum 8" (203mm)*
(c) Fireplace Buildout Width	53.5" (1359mm)

*** Buildout depth is 8" minimum to allow heat to travel forward and dissipate. If using more than an 8" buildout, make sure to make the buildout height (a) higher (buildout must meet mantel requirements - see page 36 for details).**

NOTE: The buildout must extend 2" in front of the TV and 3" to both sides and top. If you have a TV that is greater than 6" deep (including the 1" gap behind), you will need to alter the buildout depth and height.

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

Minimum Framing Dimensions

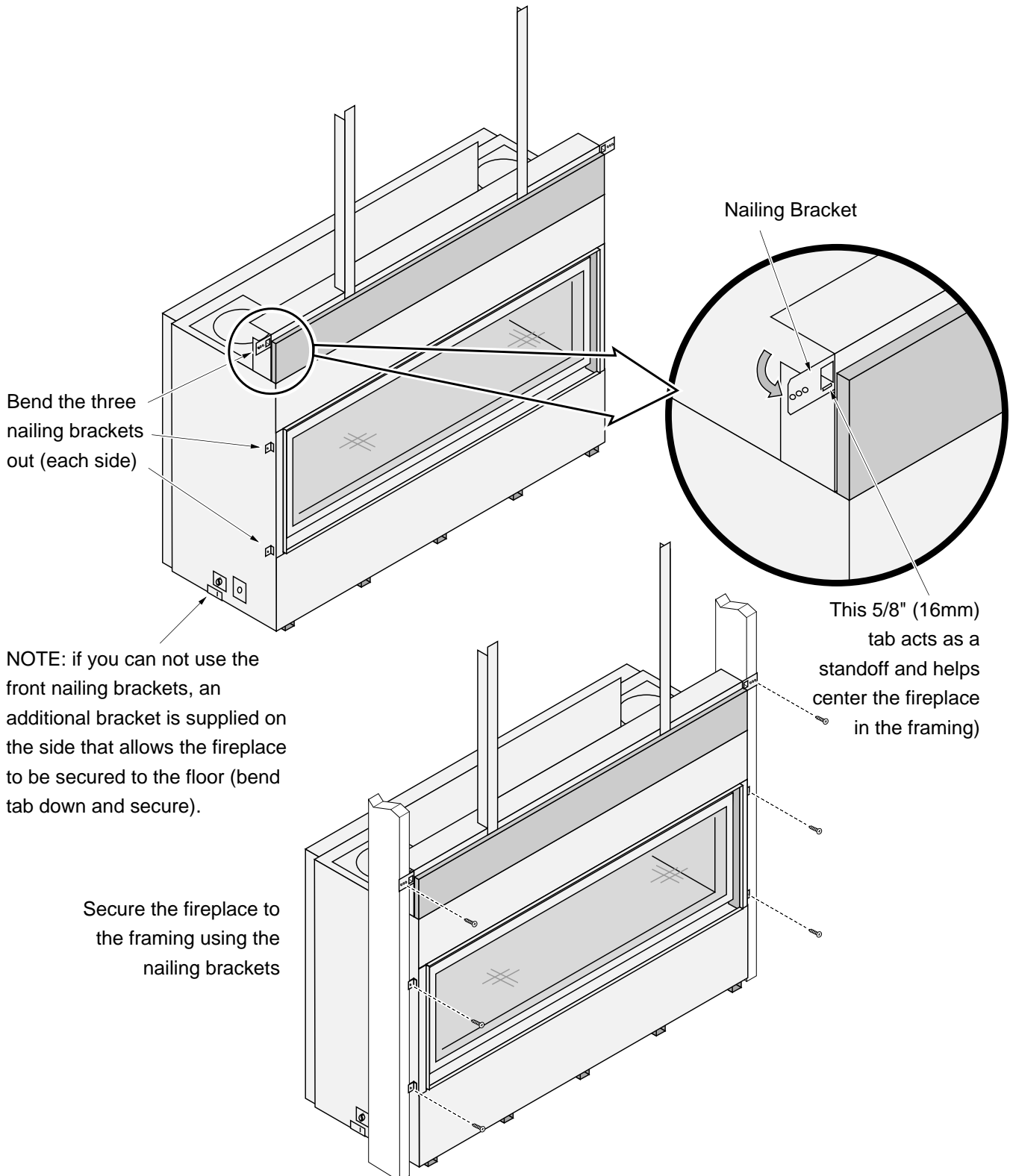


* The 15.25" (388mm) dimension is based upon 1/2" (13mm) drywall around the perimeter of the fireplace on both sides. If using thicker drywall (or other facing), you will need to adjust this dimension.

Nailing Brackets – Extended (Tile Over) Install

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

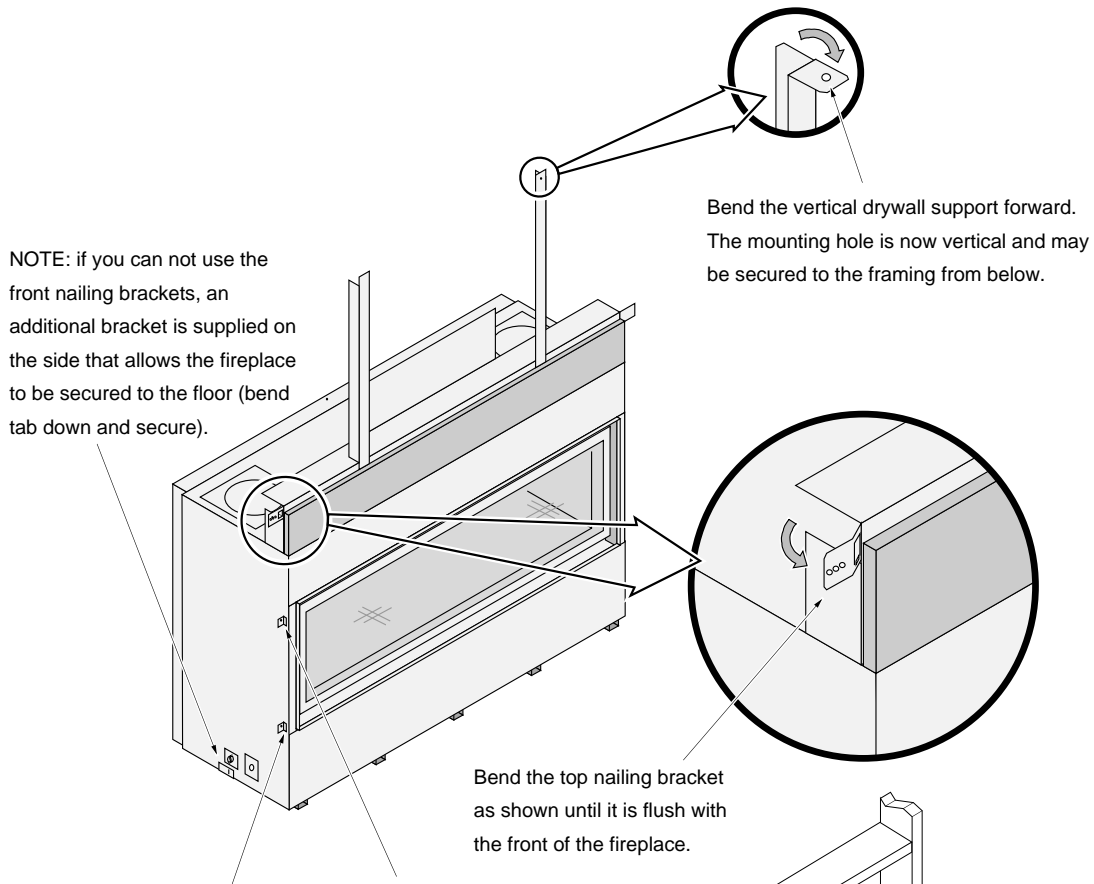
NOTE: Make sure the fireplace is square and plumb when placed in the framing. Measured corner-to-corner the fireplace should be square. Use shims to insure the fireplace is square.



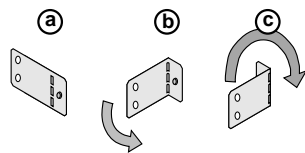
Nailing Brackets – Flush Install

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

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 insure the fireplace is square.

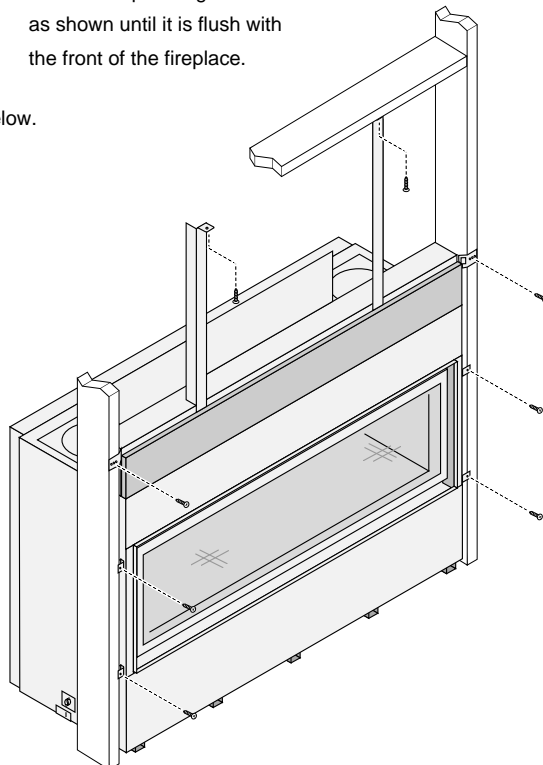


Bend the side nailing brackets as shown below.



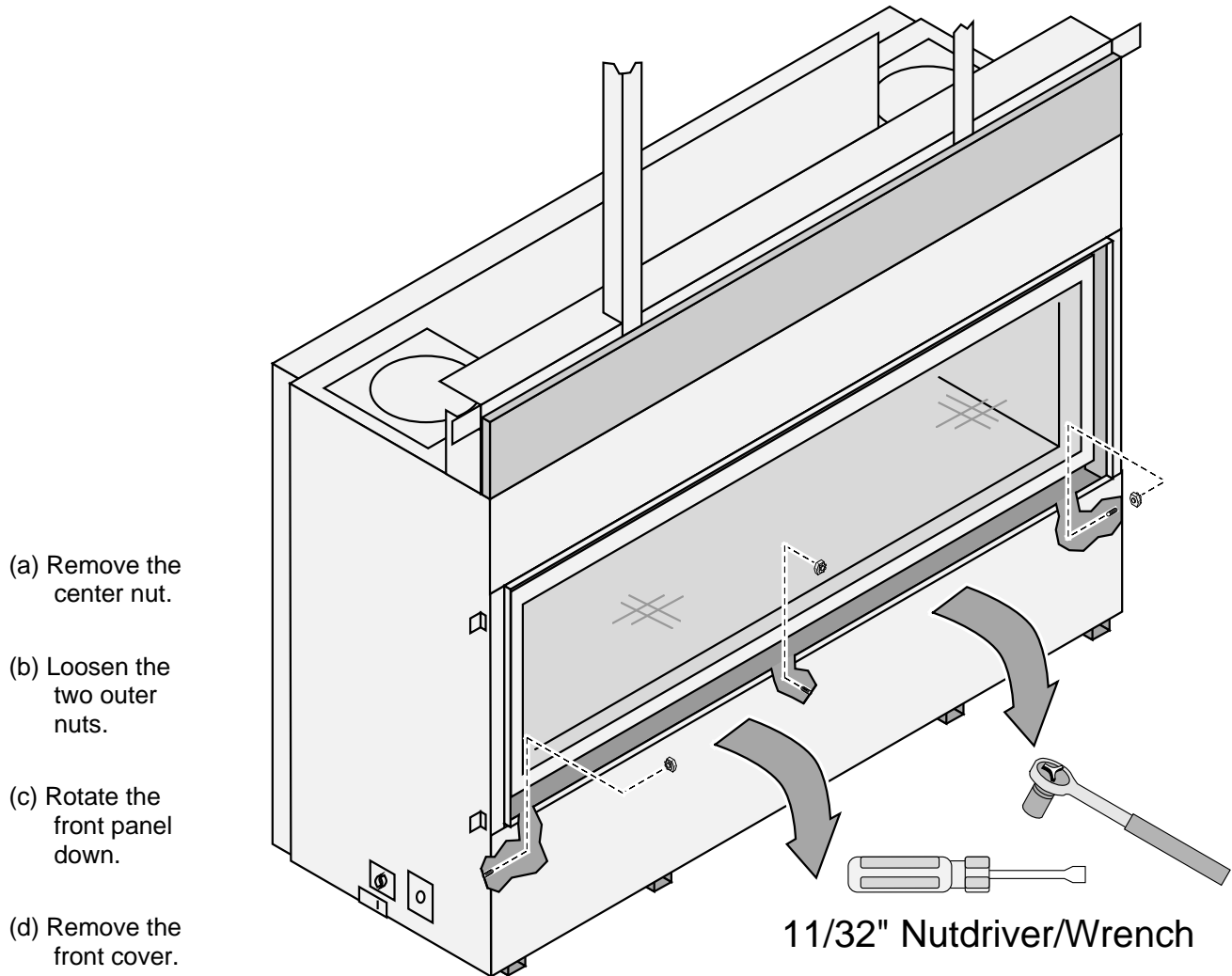
Rotate the bracket on the rivet 180 degrees.

Secure the fireplace to the framing using the nailing brackets and vertical drywall support.



Removing the Front Panel

The front cover may be removed to access the components. This is required when relocating the electrical or gas inlet location. To remove the front cover



Gas Line Requirements

MASSACHUSETTS INSTALLATIONS - **WARNING:**

THIS PRODUCT MUST BE INSTALLED BY A LICENSED PLUMBER OR GAS FITTER WHEN INSTALLED WITHIN THE COMMONWEALTH OF MASSACHUSETTS.

OTHER MASSACHUSETTS CODE REQUIREMENTS:

- Flexible connector must not be longer than 36 inches.
- Shutoff valve must be a "T" handle gas cock.
- Only direct vent sealed combustion products are approved for bedrooms or bathrooms.
- Fireplace dampers must be removed or welded in the open position prior to the installation of a fireplace insert or gas log.
- A carbon monoxide (CO) detector is required in the same room as the appliance.
- The gas line must be installed in accordance with all local codes, if any; if not, follow ANSI 223.1 and NFPA 54(88), in Canada follow CSA B149.1 and the requirements listed below.
- 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 for 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).

Gas Inlet Pressure

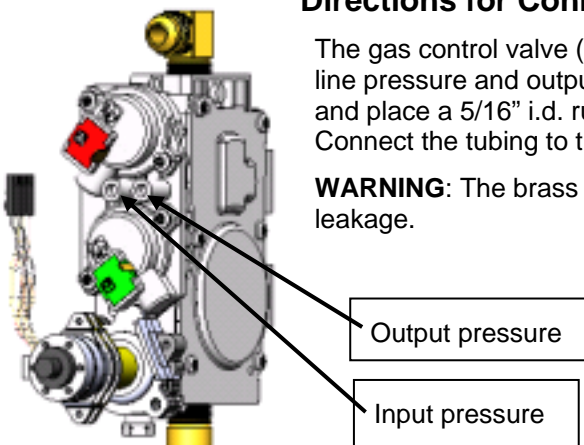
	Maximum Input Pressure	Minimum Input Pressure
Natural Gas	7" W.C. (1.74 kPA)	5.5" W.C. (1.37 kPA)
Propane	13" W.C. (3.23 kPA)	11" W.C. (2.74 kPA)

- 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 to the propane tank) should supply gas at the 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 left) has two accessible ports for testing line pressure and output pressure. Loosen the brass screw on either test port and place a 5/16" i.d. rubber or plastic tubing over the tapered test port. Connect the tubing to the test gauge.

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

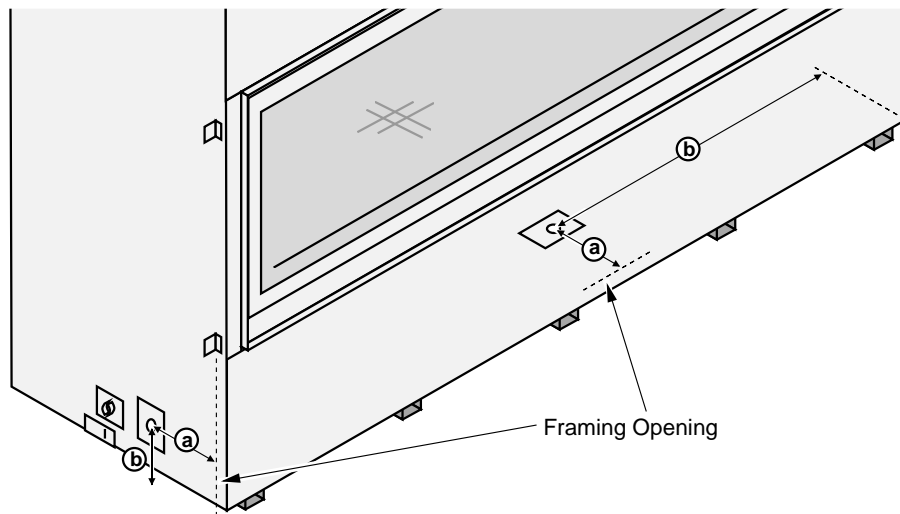


Gas Line Location

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 (see step 1 below). Then remove 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.

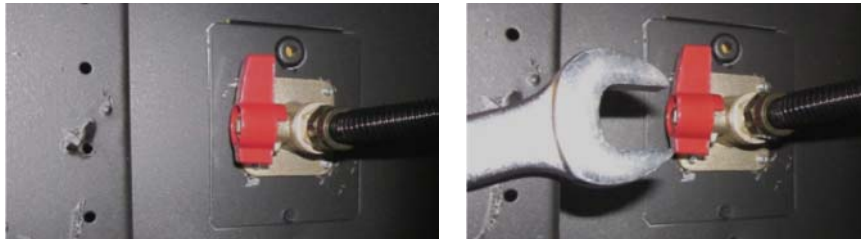
Gas line may be plumbed from the left side (stock) or below. See illustration and table below to determine gas line location.

	a	b
Left Side Gas Line Location (Stock)	3.75" (96mm)	7.625" (194mm)
Baseplate Gas Line Location	3.25" (83mm)	20.75" (528mm)



Relocating the Gas Line to the Baseplate

1. Disconnect the gas line from the shutoff valve (3/4" wrench). Gas line is located inside the fireplace on the left side.



2. Remove the screw that holds the shutoff valve plate in place (1/4" nutdriver). Remove the shutoff valve plate.



3. Remove the cover plate from the bottom of the fireplace (it is held in place in the same fashion as the shutoff valve plate). Attach it to the left side of the fireplace.
4. Attach the shutoff valve plate to the bottom of the fireplace. Route the gas line to the bottom and re-attach the gas line to the shutoff valve. Make sure to leak test the entire gas line.

Electrical Connection

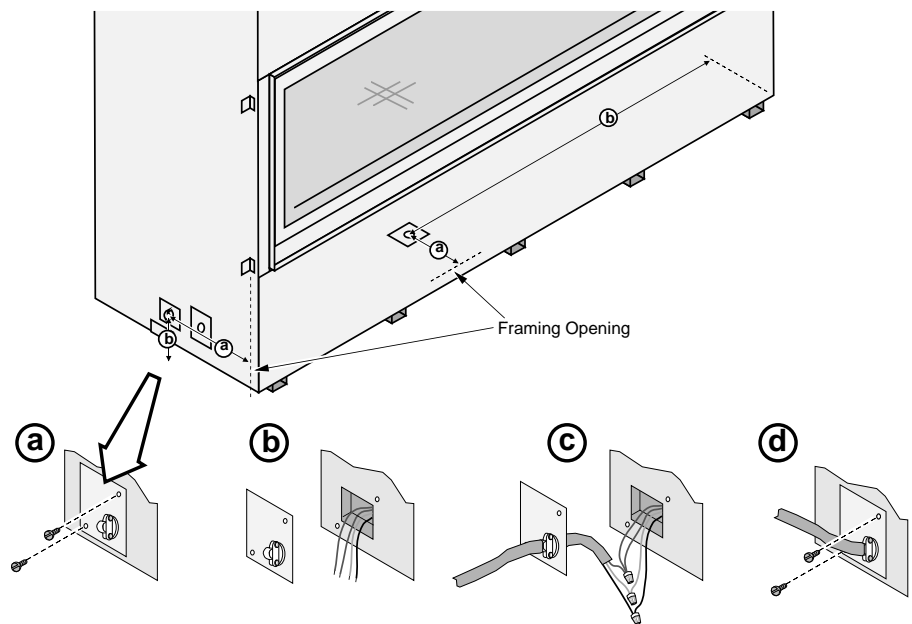
- The electrical line to the grounded receptacle inside the fireplace must be installed by a qualified installer and must meet all local codes.
- Make sure the household breaker is shut off prior to working on any electrical lines.
- The appliance, when installed, must be electrically grounded in accordance 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 120 Volts, 60 Hz, and 5.7 Amps.
- 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 110-120 VAC to the gas control valve or wiring system of this fireplace.

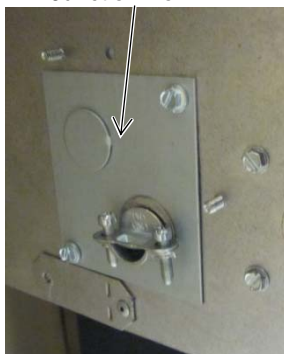
	a	b
Left Side Electrical Location (Stock)	4" (102mm)	2.75" (70mm)
Baseplate Electrical Location	7" (178mm)	29.75" (756mm)



Relocating the Electrical Line to the Baseplate

Remove the front panel (see page 16). Remove the junction box from the left side (keep the screws). Remove the cover plate from the baseplate (keep the screws). Attach the junction box to the baseplate (make sure all wiring is kept from contacting hot or moving components). Attach the cover plate to the left side.

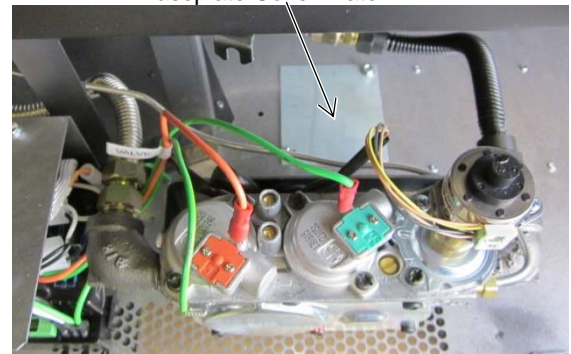
Junction Box



Junction Box (from inside fireplace)



Baseplate Cover Plate



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.

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 27)

Minimum Clearance Above Vent	4" (104mm)
Minimum Clearance to Sides & Below Vent	1" (25mm)

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

All Other Vent Configurations

Minimum Clearance to Vent	1" (25mm)
---------------------------	-----------

Vent Firestop

- A firestop is required whenever the vent penetrates a wall, floor, or ceiling (passes through framing members).

Altitude Considerations

- This heater has been tested at altitudes ranging from sea level to 6,000 feet (1800 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 Vent

- Always use the high-wind cap. The **high-wind scone cap is not allowed**.
- Installation instructions for Simpson Dura-Vent may be found at www.duravent.com.

Minimum Vent Configurations (see page 27)

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).

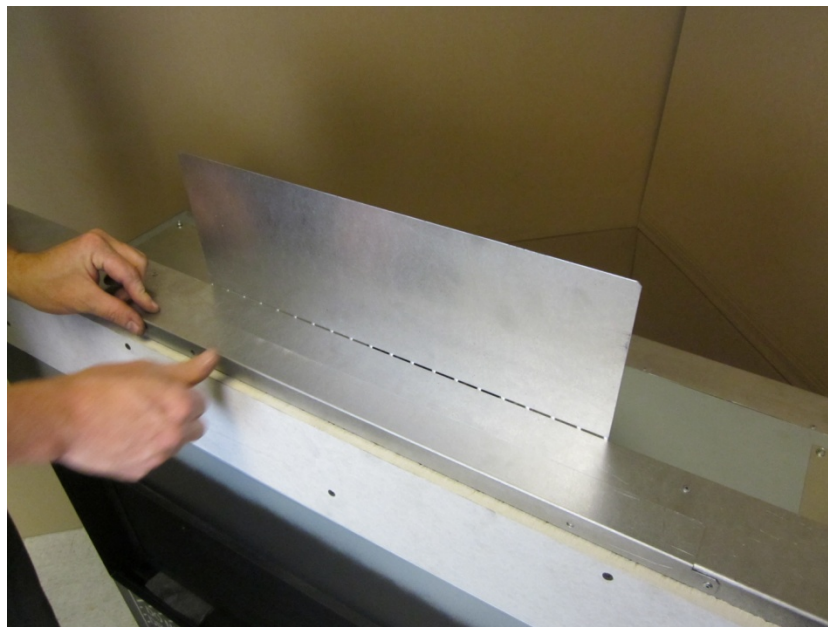
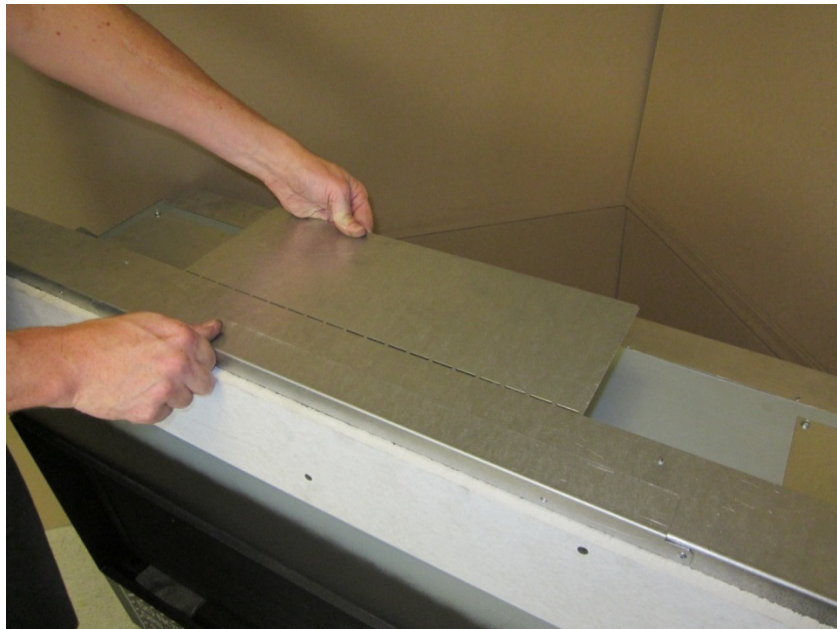
* Other vent may be approved with this fireplace. Check with the vent manufacturer for details).

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" (6mm) rise every 12" (305mm) of travel.
- Horizontal sections require non-combustible support every three feet (e.g.: plumbing strap).

Vertical Pipe Shield (both sides)

The vertical pipe shields must be bent to a vertical position after the fireplace is in position.

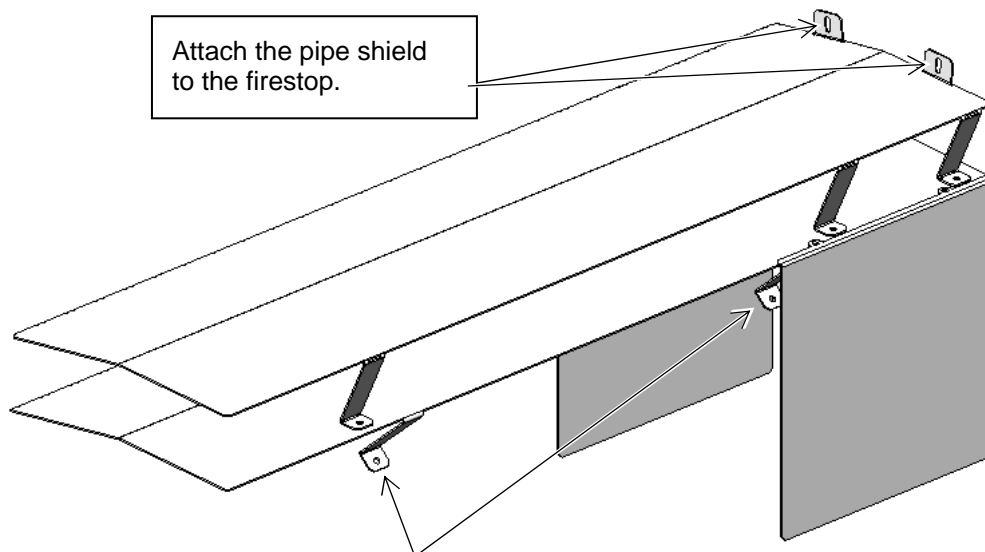


Minimum Vent Pipe Shield – Used for Minimum Vent Applications Only

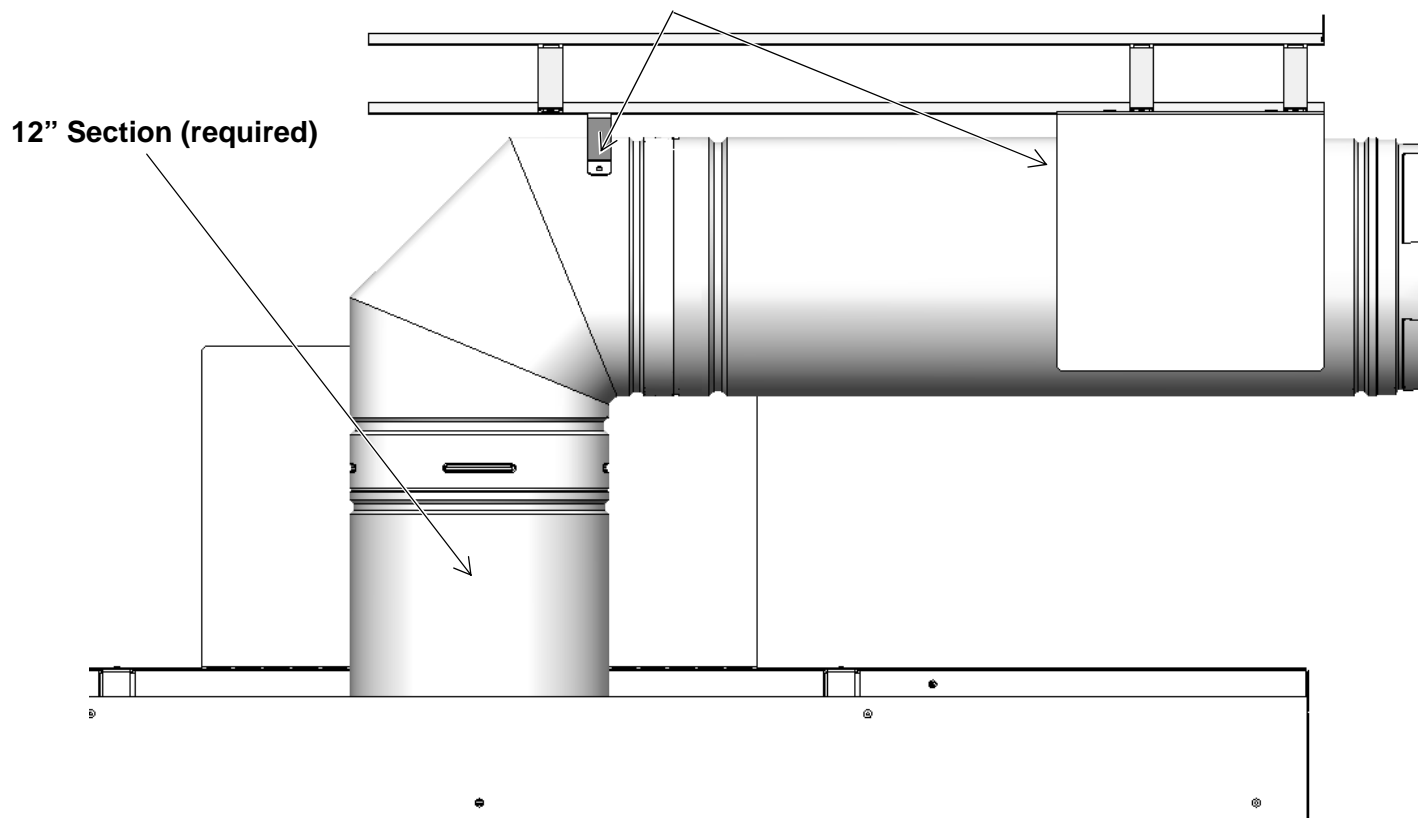
The minimum vent pipe shield is required when running minimum vent configurations (see page 27). The shield is shipped with the fireplace and must be installed as shown below.

ASSEMBLY: Assemble the top, bottom, and wings as shown in the illustration below (use the included screws).

FRAMING NOTE: When using the minimum vent configuration, you must put a firestop (and framing) to the side of the fireplace opening where the vent is routed. This framing (and firestop) is used to support the pipe shield.



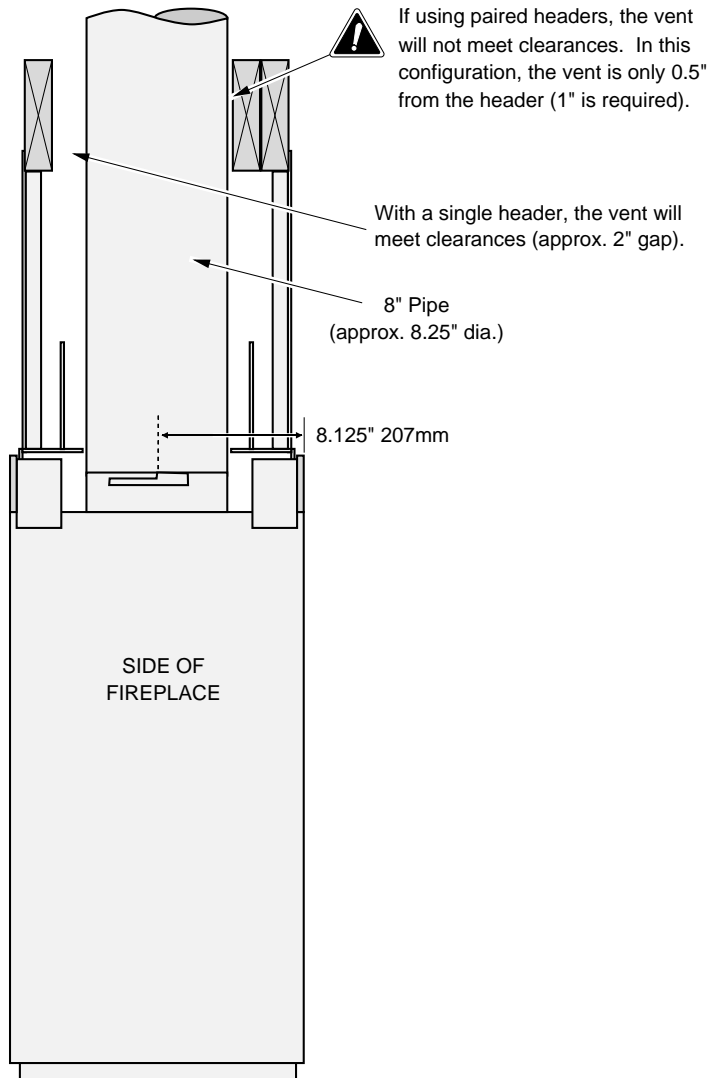
Secure the pipe shield to the vent with the included screws (use the 6 brackets). Make sure the pipe is placed so it protrudes over the elbow as shown below.



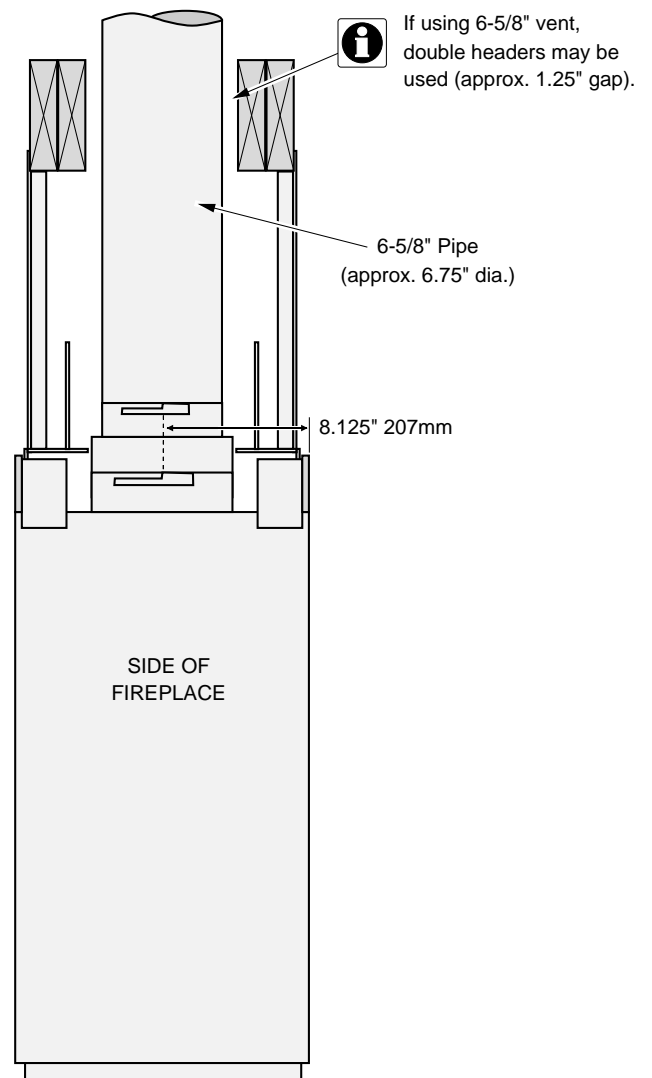
Vent Clearances when Venting Vertically

The framing for this fireplace may interfere with the vent clearances when the vent is routed vertically. The installer must carefully plan the installation to allow for proper vent clearances in the area directly above the fireplace enclosure. The illustration below details this area.

8" Diameter Vent



6-5/8" Diameter Vent



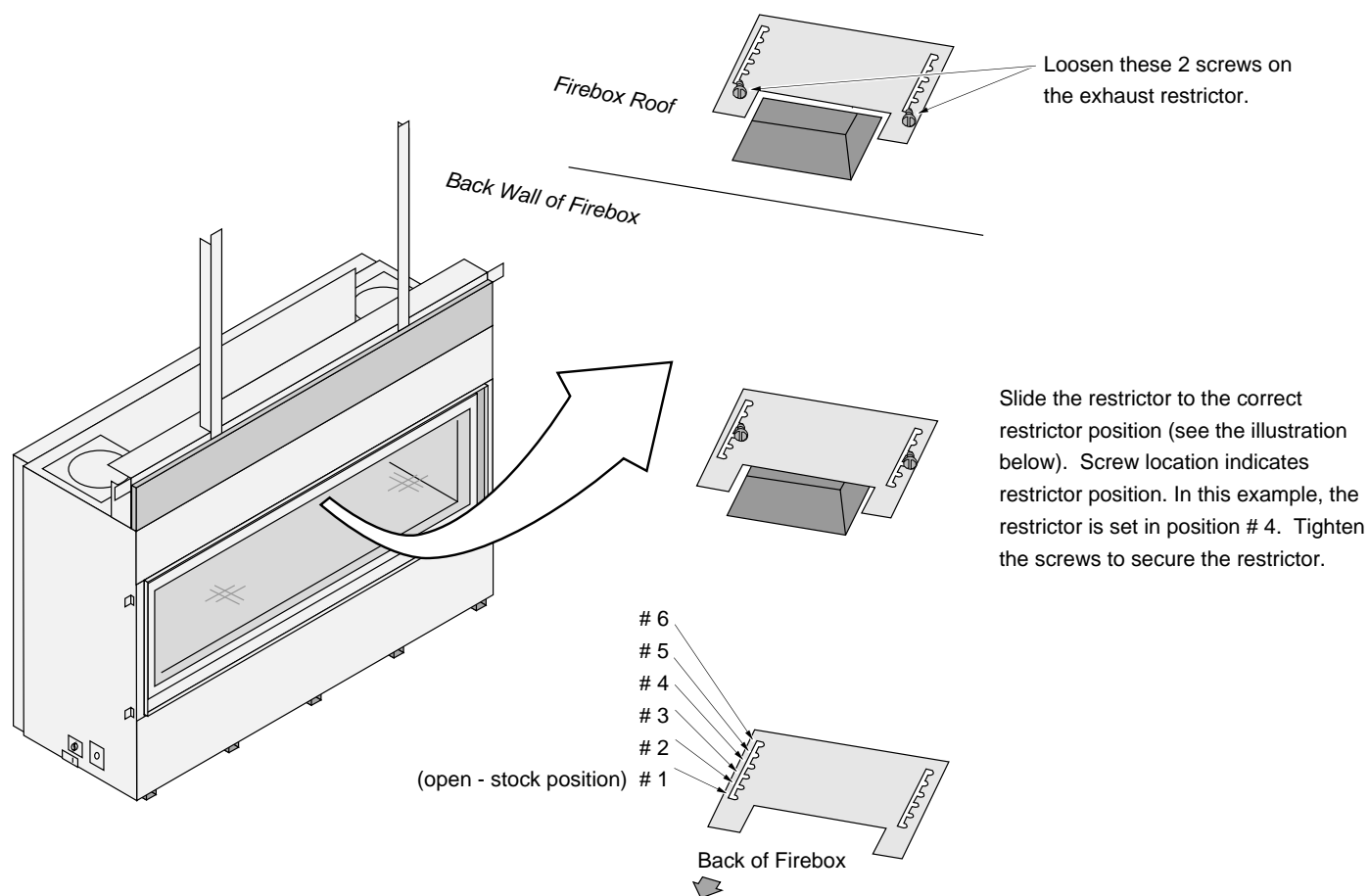
Approved Vent Configurations

Restrictor Position

- Intake and exhaust restrictors are built into the appliance to adjust the flow rate of intake air and exhaust gases. Depending upon the vent configuration, you may be required to adjust the restrictor positions. The charts for vent configurations detail the correct vent restrictor positions.

Exhaust Restrictor

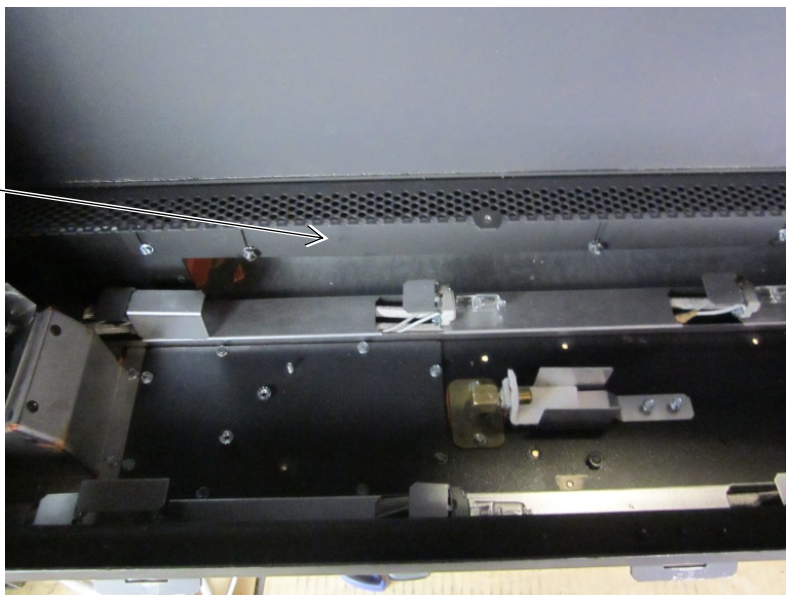
NOTE: Certain vent configurations call for exhaust restrictor removal (position # 0). If this is the case, remove the exhaust restrictor and replace the attachment screws in the firebox ceiling.



Intake Restrictor

The intake restrictor is accessed by removing the burner (see LP Conversion Instructions on page 45 for details). The intake restrictor is shipped in the open position (position # 1). Follow the directions below to change the intake restrictor to position # 2 or # 3.

The intake restrictor is located behind the burner, on the rear wall of the firebox.



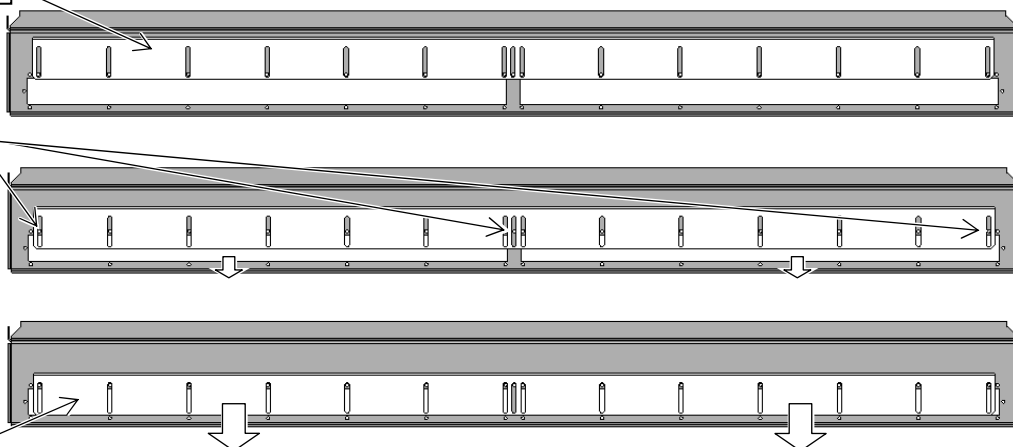
Position # 1 (stock - open)

Position # 2

Loosen the three screws shown to the right (1/4" nutdriver). Slide the restrictor down so it obstructs one half of the air opening and re-tighten the screws.

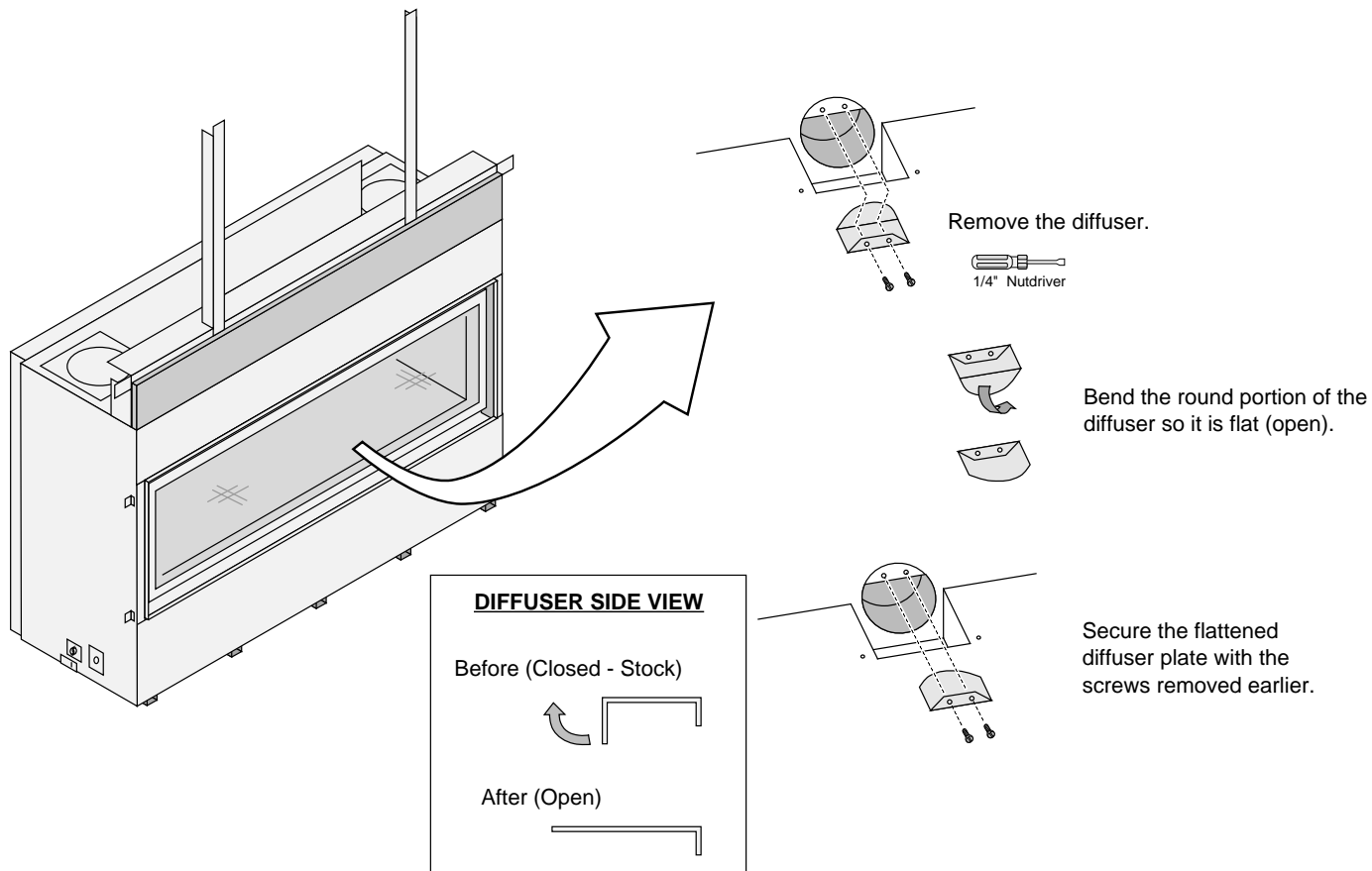
Position # 3

Loosen the three screws shown above (1/4" nutdriver). Slide the restrictor down all the way down and re-tighten the screws.



Diffuser

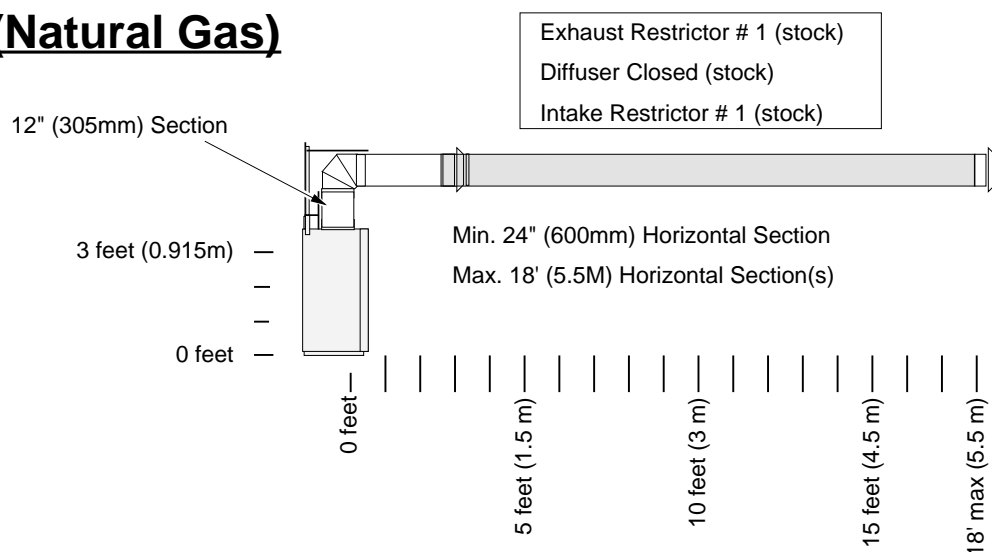
The diffuser is located inside the inner flue assembly (accessed by removing the exhaust restrictor).



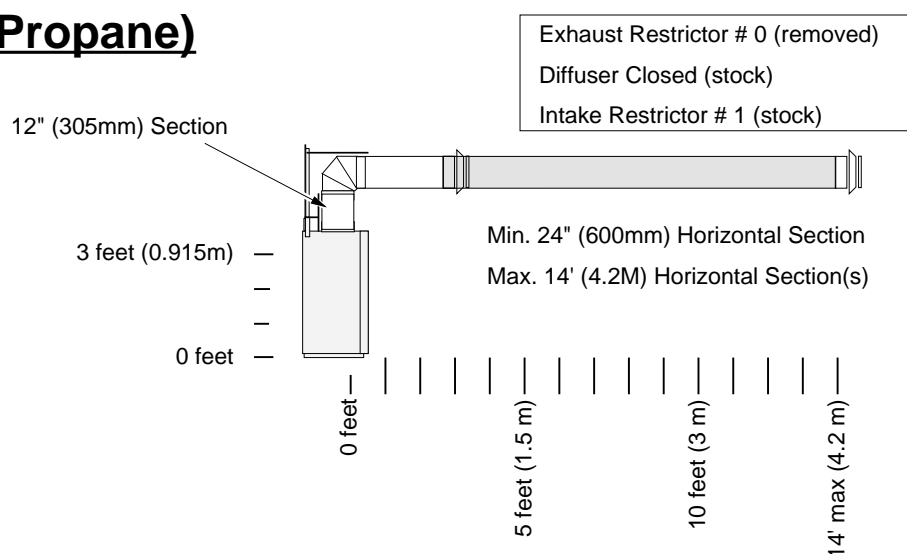
Minimum Vent Configuration

- **Use 5x8" Diameter Coaxial Vent**
- **NOTE:** Use the included pipe shield and both 8" firestops (use on front and back of wall penetration).
- 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" from Travis Industries (additional vent will be required).

NG (Natural Gas)

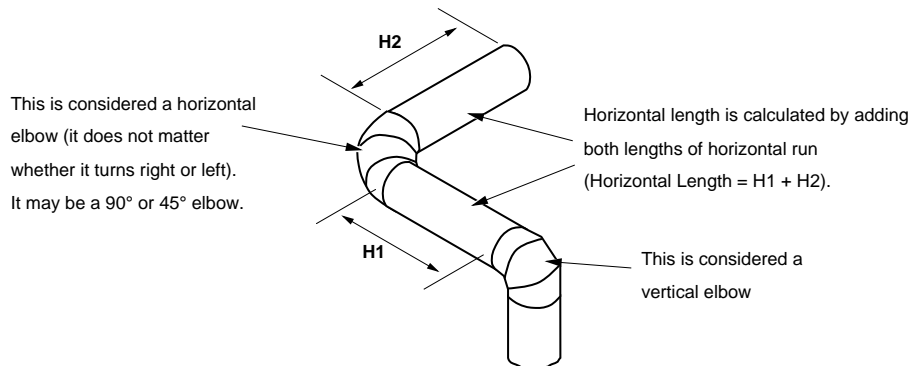
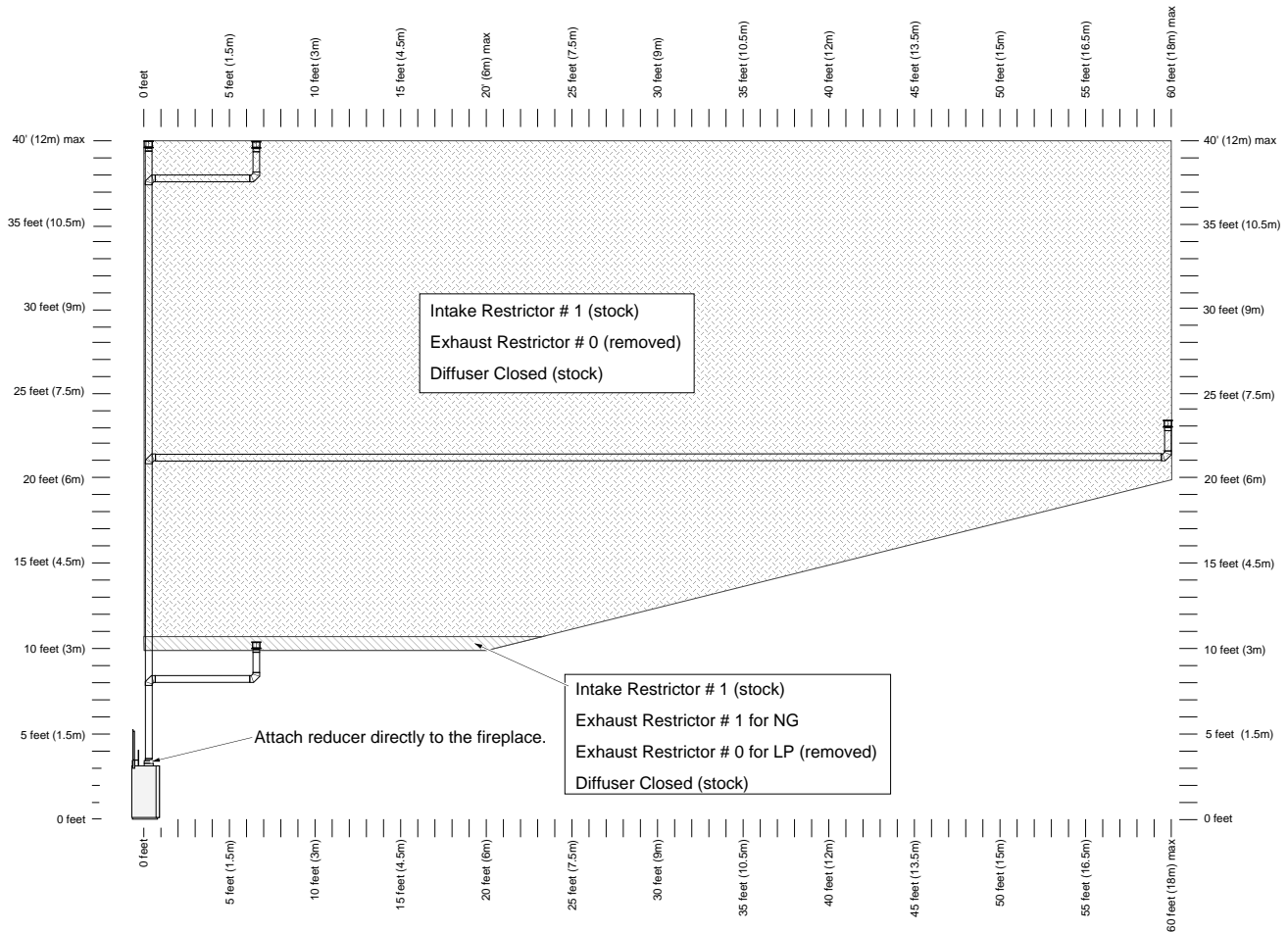


LP (Propane)



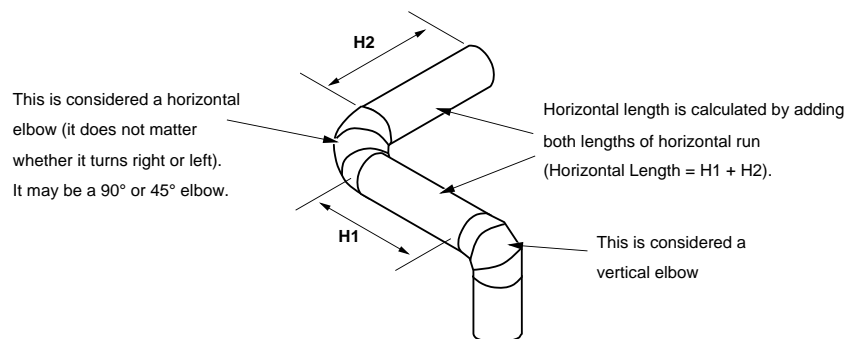
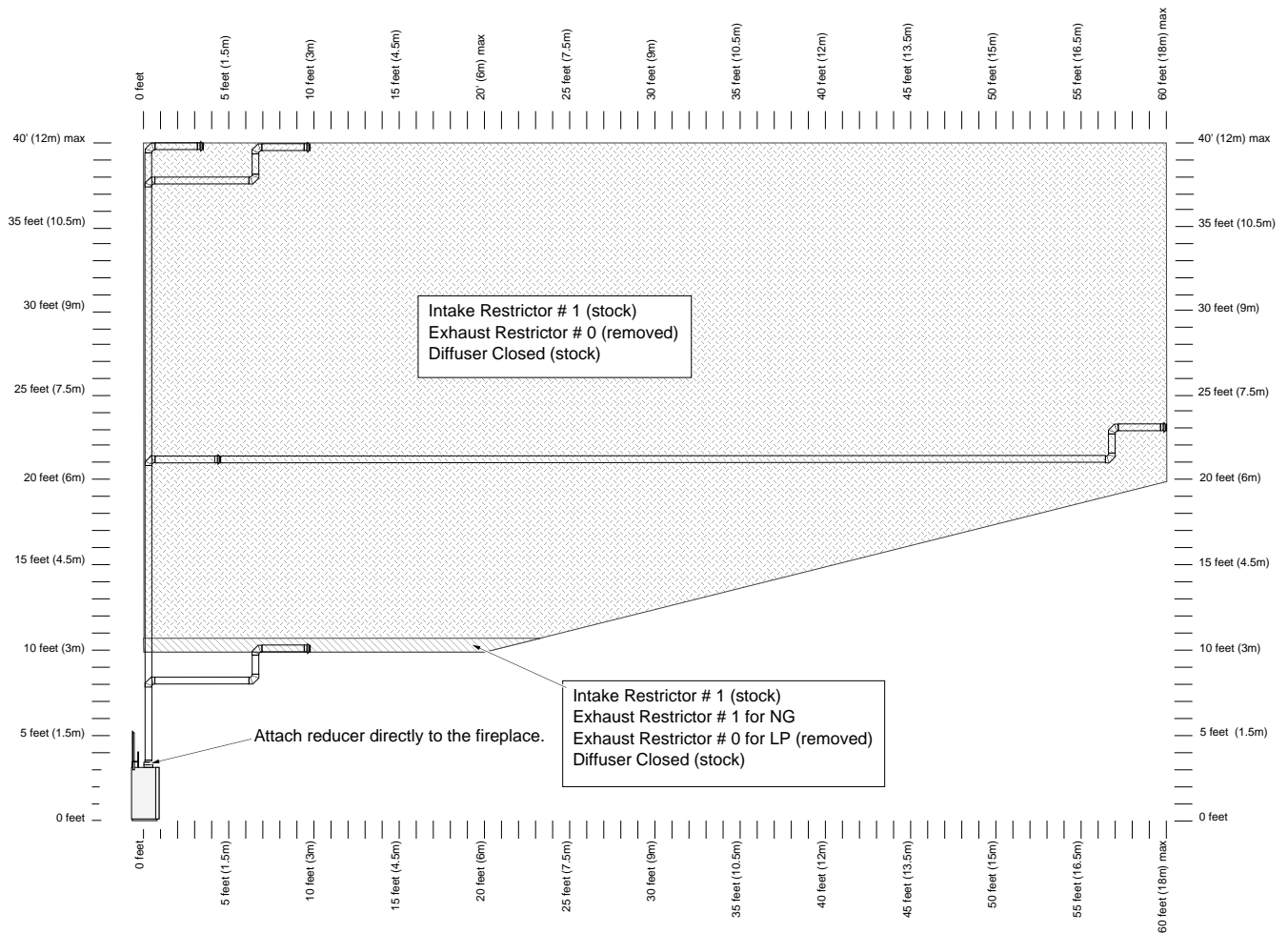
Vent Configuration: Vertical Termination

- **Use 4x6-5/8" Diameter Coaxial Vent. Connect a 8" to 6-5/8" reducer directly to the fireplace (sku 98900165).**
- **NOTE:** The included pipe shield is not required and may be discarded. The included firestops may be discarded.
- The termination must fall within the shaded area shown in the chart. Use the indicated restrictor positions.
- Up to five elbows (45° or 90°) may be used. Only one horizontal elbow may be used.



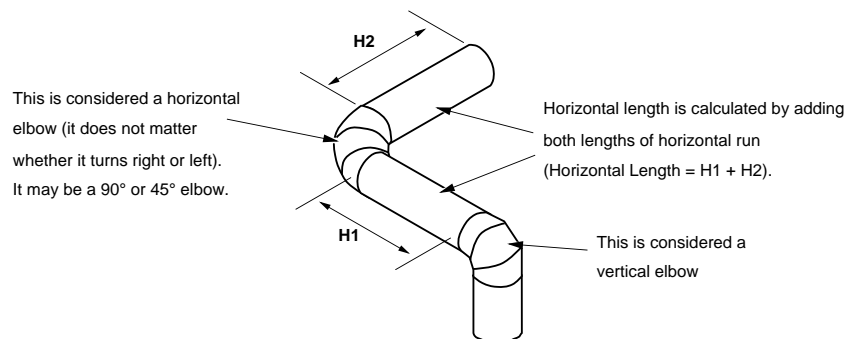
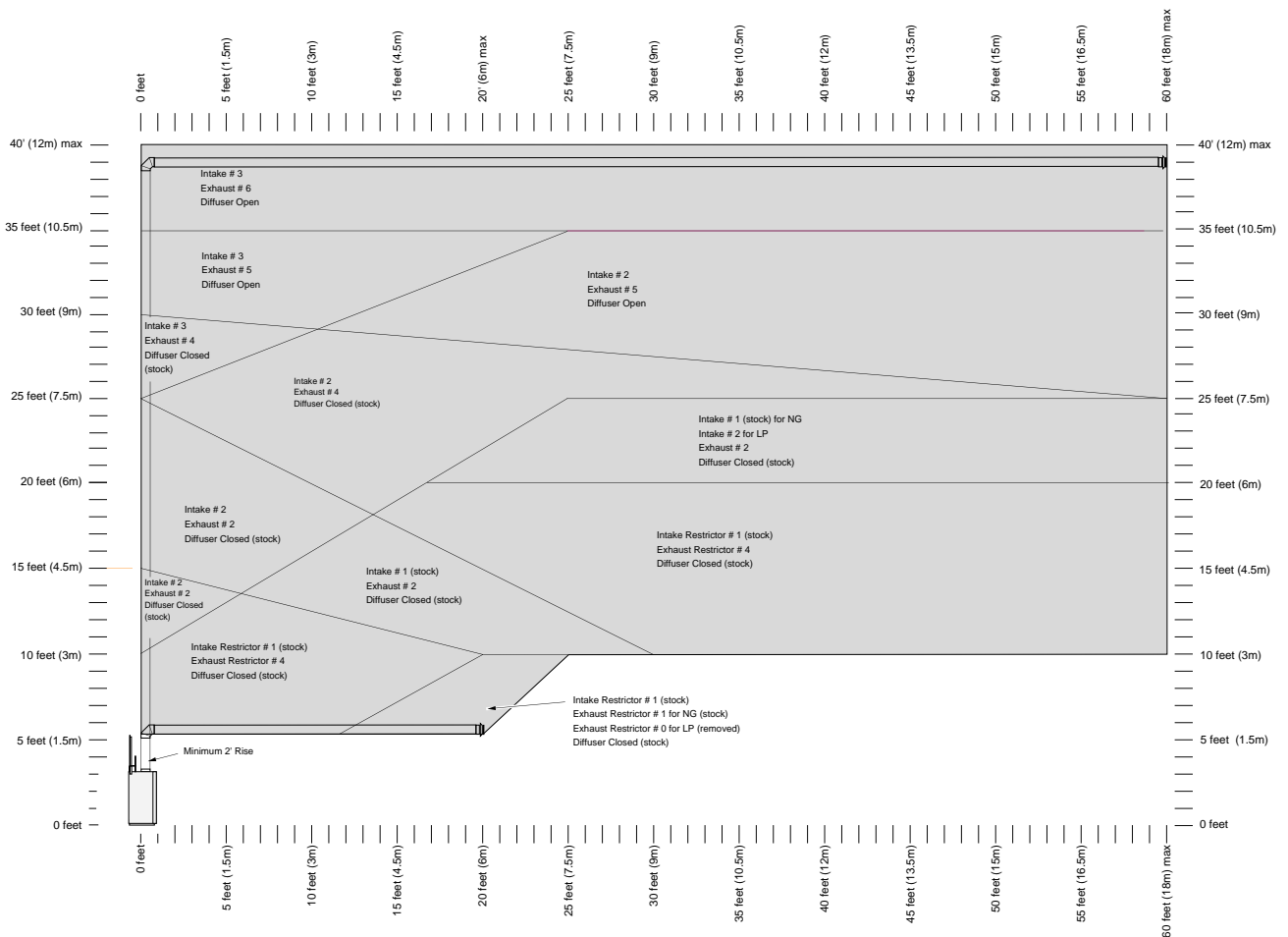
Vent Configuration: Horizontal Termination with Vertical Rise

- **Use 4x6-5/8" Diameter Coaxial Vent. Connect a 8" to 6-5/8" reducer directly to the fireplace (sku 98900165).**
- **NOTE:** The included pipe shield is not required and may be discarded. The included firestops may be discarded.
- The termination must fall within the shaded area shown in the chart. Use the indicated restrictor positions.
- Up to 3 elbows (45° or 90°) may be used. Only one horizontal elbow may be used.



Vent Configuration: Horizontal Termination with Vertical Rise – 8" Vent

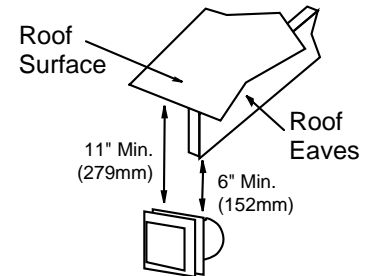
- **Use 5x8" Diameter Coaxial Vent**
- **NOTE:** Use the included firestop (s). The included heat shield may be discarded.
- The termination must fall within the shaded area shown in the chart. Use the indicated restrictor positions.
- Up to 3 elbows (45° or 90°) may be used. Only one horizontal elbow may be used.



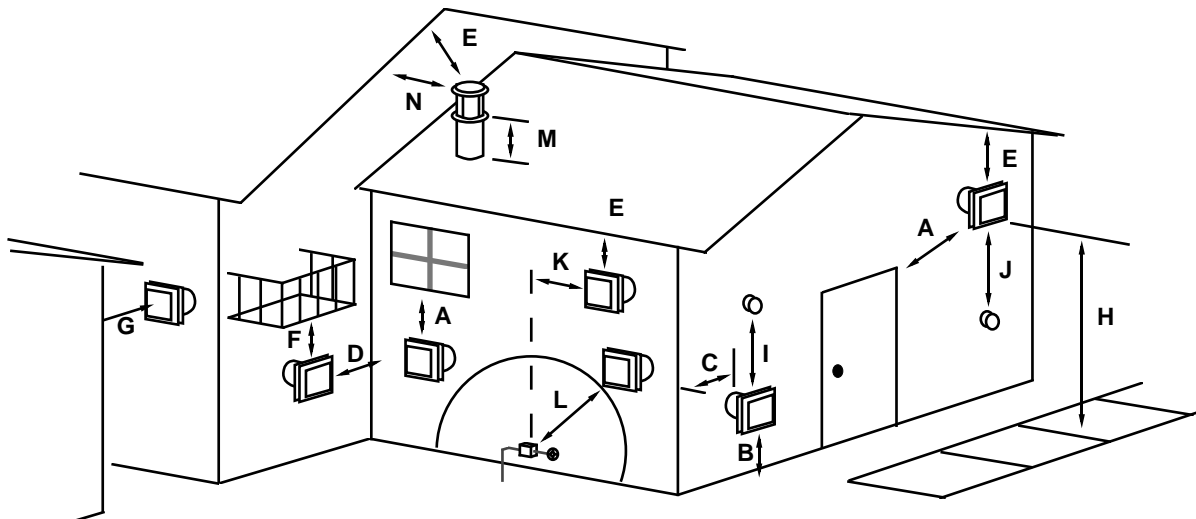
Termination Requirements

! 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 nonmechanical 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 roof line (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.

Hearth Requirements

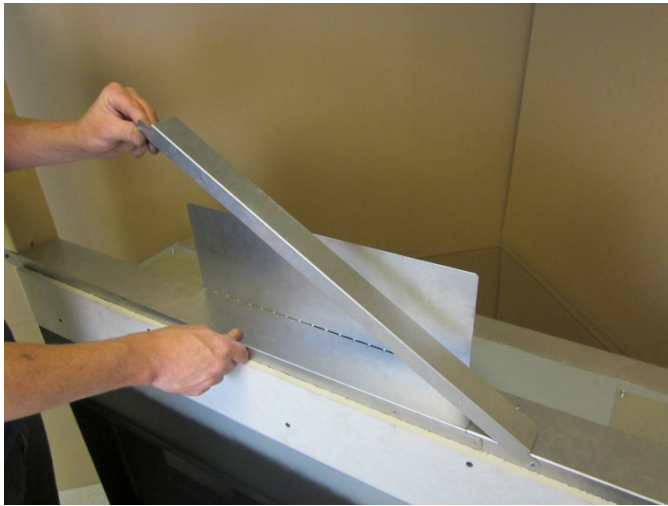
- If installed near carpet or other combustible flooring, the fireplace must be raised so the base of the unit is above the carpet surface or flooring material.

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

Drywall Supports

Attach the drywall supports (see page 15 for details on modifying the supports for flush installations).

(A)



(B)



Facing Requirements – Flush Install

- The included fiber board is required and must remain attached to the fireplace (see below).
- Drywall (or other combustible) may be placed above the fiber board (see below) and to the sides and below the face of the fireplace. Secure the drywall to the vertical drywall supports. **Do not place drywall over the front of the fireplace.**
- Non-combustible board (Hardiebacker 500™) or other non-combustible facing may be placed along the front of the fireplace around the perimeter of the glass opening. Do not install facing over the ledge to the glass opening.

NOTE: Most non-combustible board will require a skim coat to achieve a smooth finish prior to painting.



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).

When securing the non-combustible board, screw it to the fiber board above the fireplace, the framing, and the area below the fireplace (except in the do not drill zone).



Install a sheet of drywall to the vertical drywall support. This acts as a spacer for the non-combustible board.

Fiber Board
(pre-attached to the fireplace)

Drywall

Non-Combustible Board

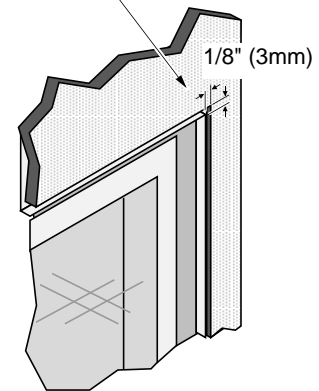


Do not screw into the area directly above the glass (shown in stripes). This prevents the hot fireplace from expanding and cracking the facing.

3615 = 37.5" 953mm
4415 = 45.5" 1156mm
6015 = 61.5" 1563mm



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



Make sure the seams on the non-combustible board is to the sides or below the glass opening (do not place seams on corners of glass, especially the upper corners).

Base of Fireplace

Do not drill zone

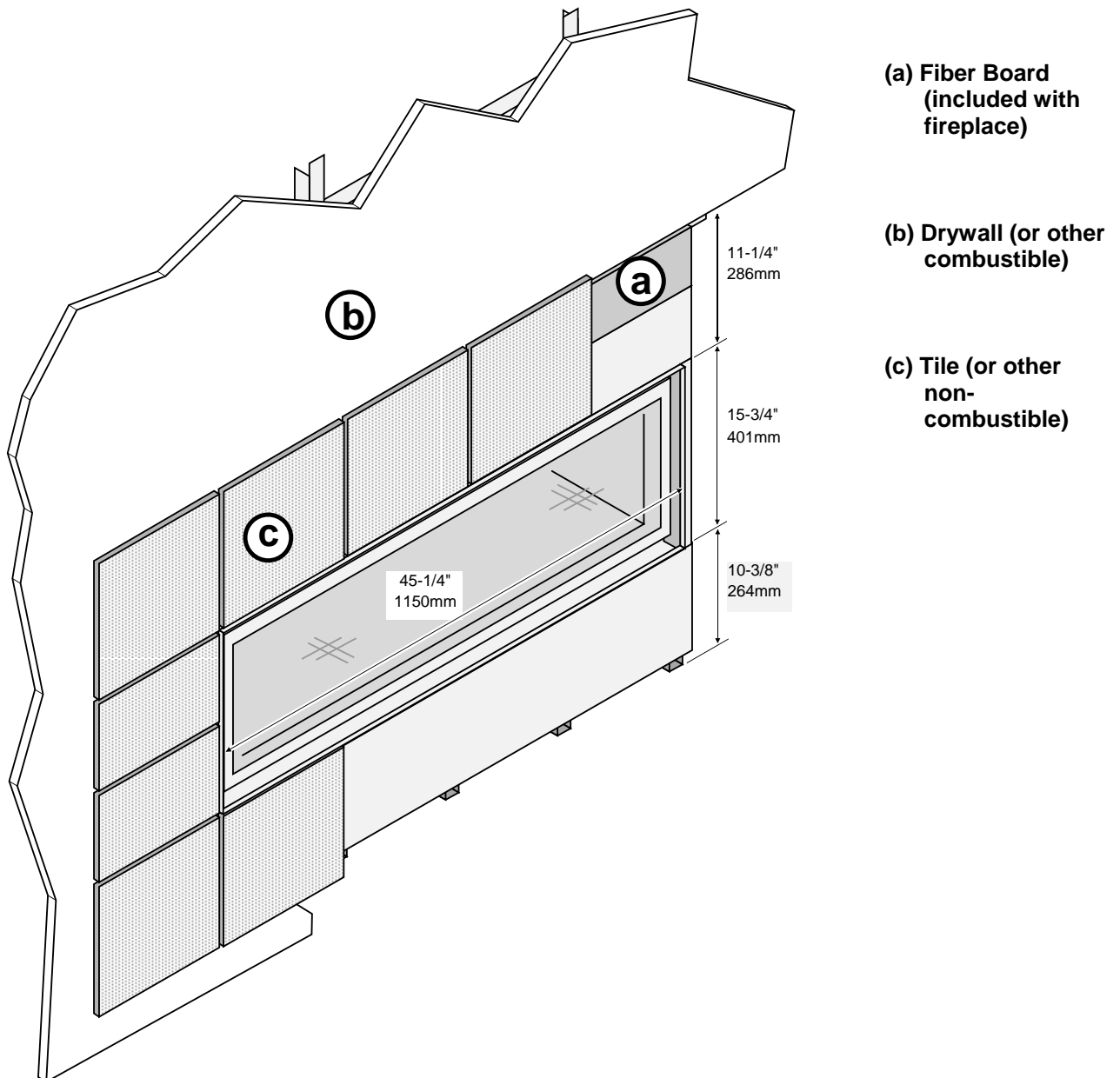
Facing Requirements – Extended (Tile Over) Install

- The included fiber board is required and must remain attached to the fireplace (see “a” below).
- Drywall (or other combustible) may be placed above the fiber board (see “b” below) and to the sides and below the face of the fireplace. Secure the drywall to the vertical drywall supports. **Do not place drywall over the front of the fireplace.**
- Tile or other non-combustible facing may be placed along the front of the fireplace around the perimeter of the glass opening (see “c” below). Typical installations use 12” (305mm) or greater of non-combustible facing around the perimeter of the glass opening. Do not install facing over the ledge to the glass opening.



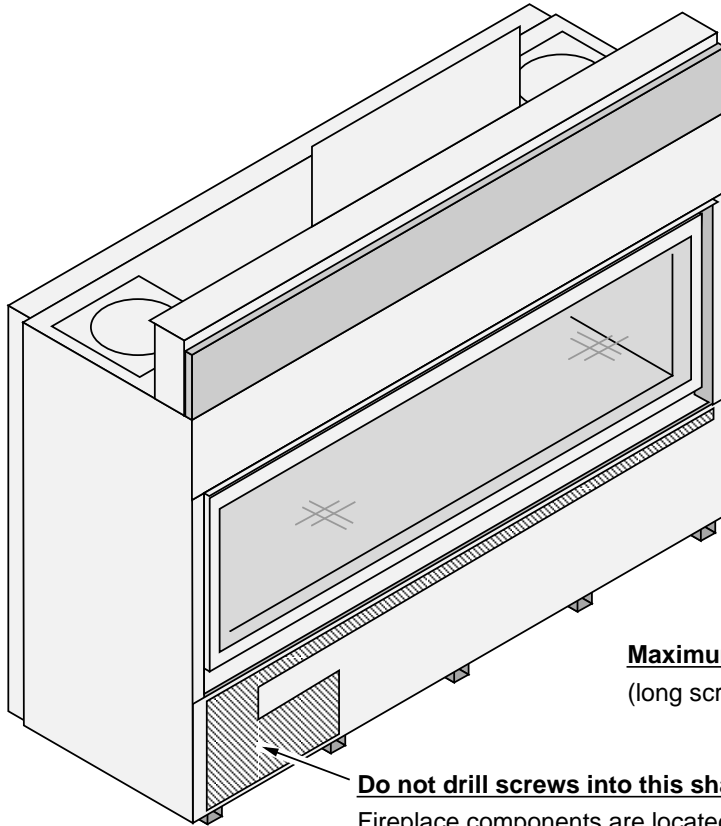
WARNING: Do not use adhesive to secure the facing. The high temperatures of the fireplace may cause adhesives to emit odors. Use mastic or thin set (or other non-combustible, non-odorous adherent) to attach the facing.

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).



Do Not Drill or Screw Zone

When using screws to secure tile-board or other non-combustible to the front of the fireplace, make sure to avoid the area shown below. Make sure screws penetrate no more than $\frac{1}{2}$ " (13mm) into the fireplace.



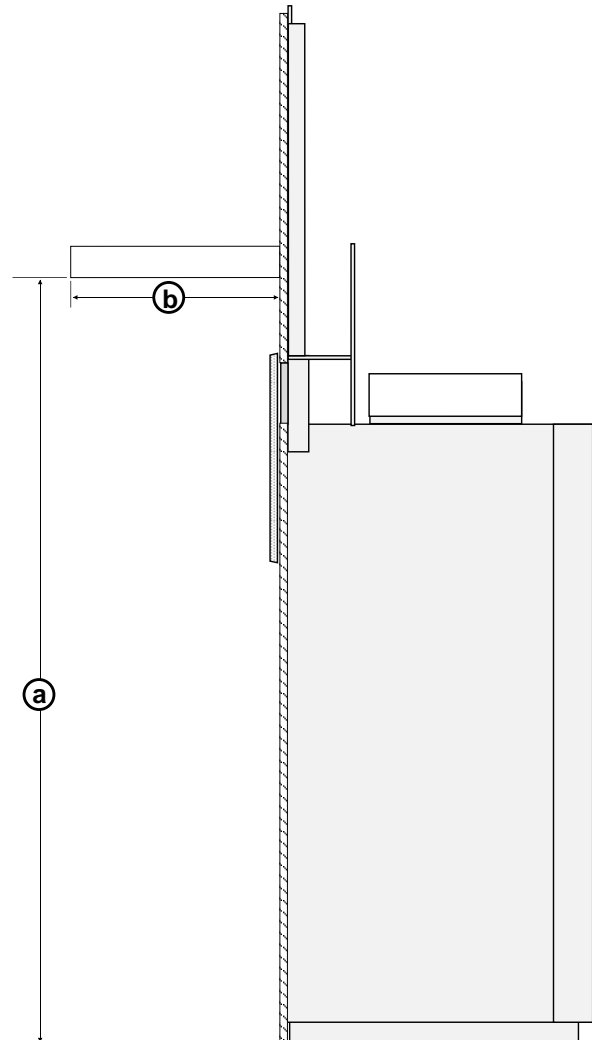
Maximum Screw Penetration = 1/2"
(long screws will hinder component access)

Do not drill screws into this shaded area.
Fireplace components are located in this area.

Mantel Requirements

- If installing a TV above a mantel, see the section “Televisions Placed Above the Fireplace” on page 10.
- 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 $\frac{3}{4}$ " (19mm) from the non-combustible facing is considered a mantel and must meet the mantel requirements.

		Maximum Mantel Depth (b)												
		0" (0mm)	1" (25mm)	2" (51mm)	3" (76mm)	4" (102mm)	5" (127mm)	6" (152mm)	7" (178mm)	8" (203mm)	9" (229mm)	10" (254mm)	11" (279mm)	12" (305mm)
Mantel Height Above Base (a)	47" (1194mm)													
	46" (1169mm)													
	45" (1143mm)													
	44" (1118mm)													
	43" (1093mm)													
	42" (1067mm)													
	41" (1042mm)													
	40" (1016mm)													
	39" (991mm)													
	38" (966mm)													
	37" (940mm)													

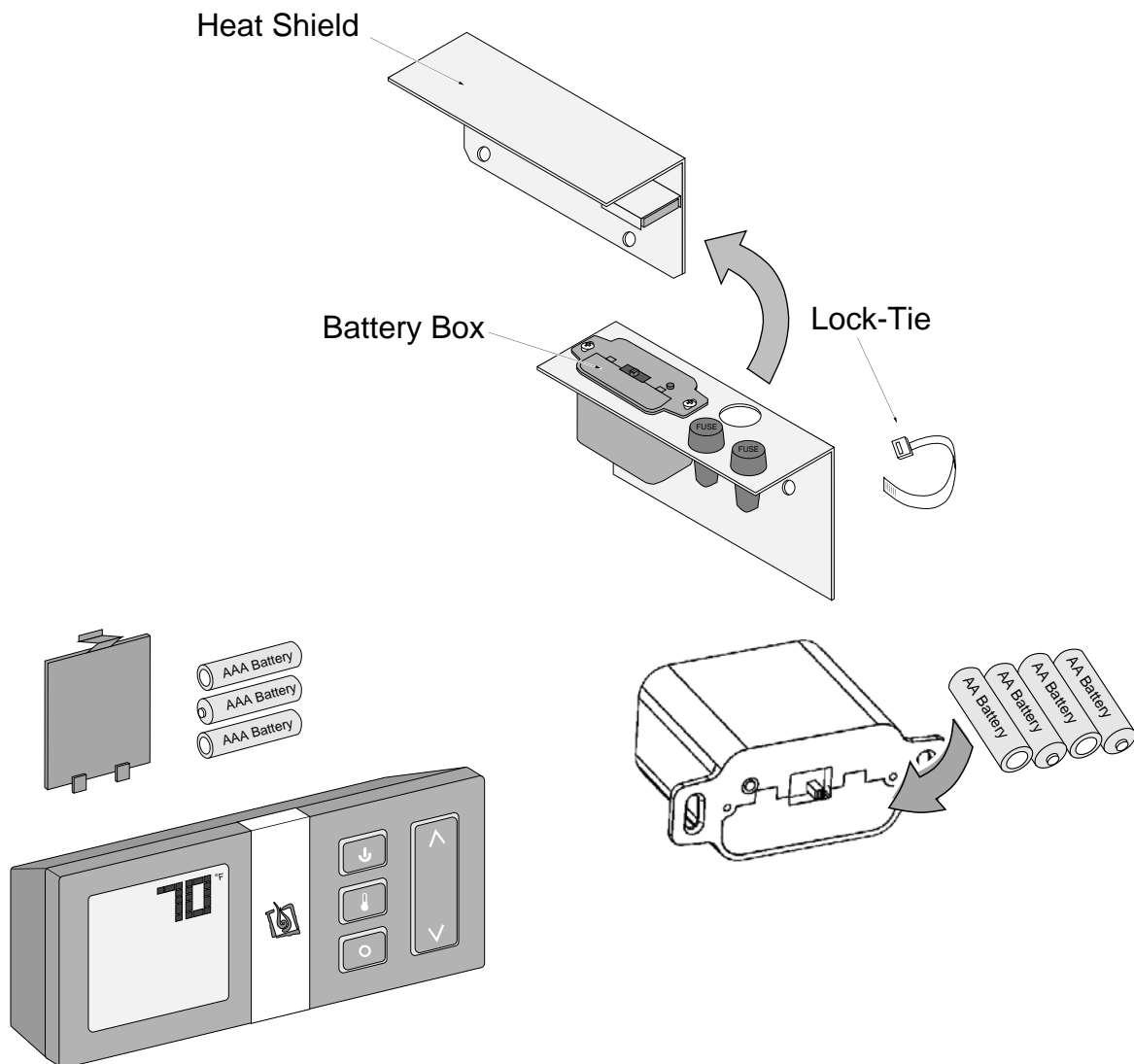


Mantel Column Clearances

- Combustible mantel columns (legs) that protrude more than $\frac{3}{4}$ " (19mm) from the front of the fireplace require a 3" (77mm) clearance to the side of the fireplace.
- Combustible mantel columns (legs) that protrude $\frac{3}{4}$ " (19mm) or less from the glass frame must meet the facing clearances (minimum 0" (0mm) from the side of the fireplace).
- Non-combustible mantel columns do not have a minimum clearance.

Steps for Finalizing the Installation

1. Remove the glass frame (make sure it is the ACCESS SIDE see page 40).
NOTE: If using propane (LP) convert the appliance prior to installing the logs.
2. We recommend you purge the gas line at this time (with the glass frame removed). This allows gas to be detected once it enters the firebox, ensuring gas does not build up.
3. Install the required firebacks (see page 43).
4. Remove the heat shield from the battery box (remove and discard the lock-tie – see illustration below). Install the four AA batteries into the battery box (**NOTE:** the heat shield must be in place whenever the fireplace is in operation). The AA batteries act as a power backup in case the household (AC) power goes out and are required for operation. Install three AAA batteries into the remote (see illustration below). Synchronize the transmitter to the IFC (see the owner's manual).



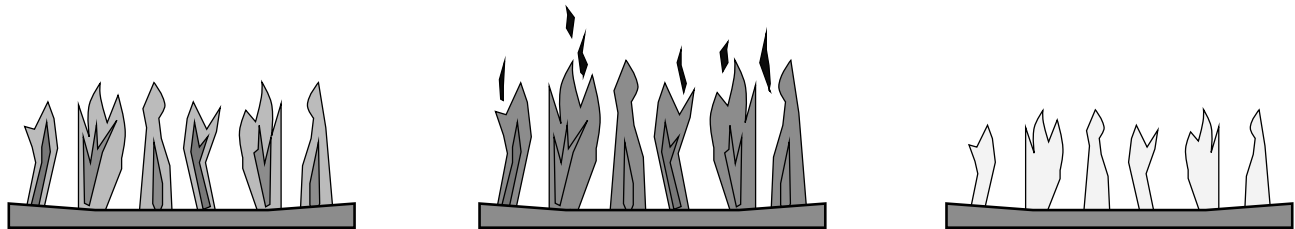
5. Make sure the accent light bulbs are in place and work correctly.
NOTE: Take care to not touch the bulb with your fingers (use a cloth or paper towel).
6. Install the crushed glass (see page 44).
7. Replace the glass frame.

8. Start the heater.
9. Leak test all gas joints.
10. Check the air shutter following the directions below.

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 Adjustmen



Correct

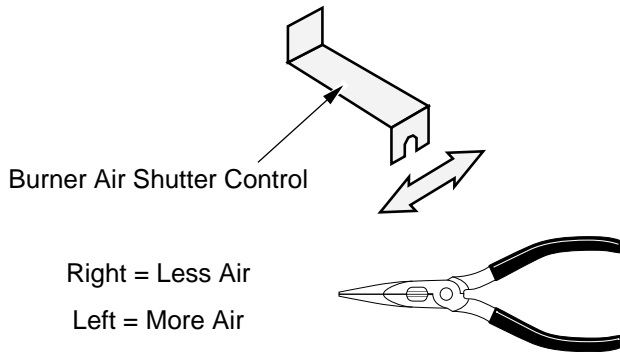
Flames should be blue at the base, yellow-orange on the top.

Not Enough Air

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

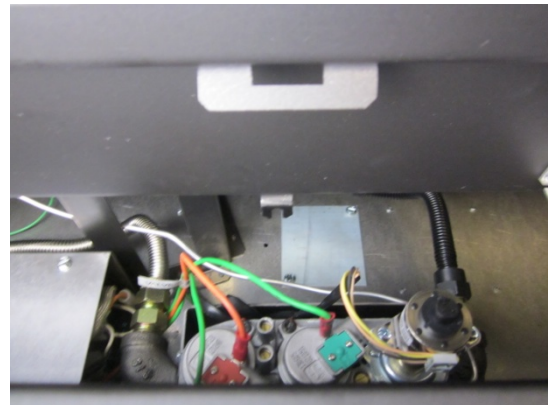
Too Much Air

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



NOTE: Use pliers to adjust the air shutter (it will be hot).

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



11. Adjust the flame to its highest position - the flames should not contact the top of the firebox. Check the flame on 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.
12. Give this manual to the home owner for future reference and fully explain operation of this heater. For comprehensive operating and maintenance instructions, refer to the Owner's Manual (part # 100-01253).

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.

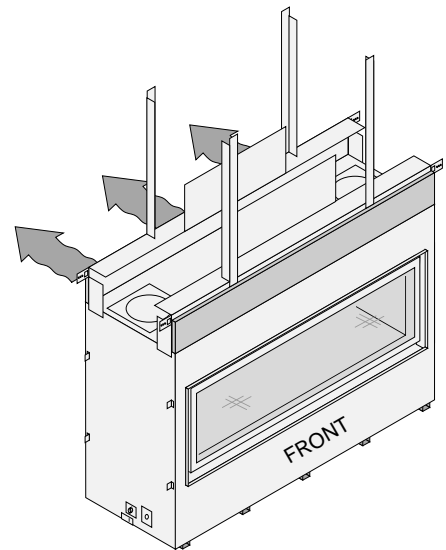
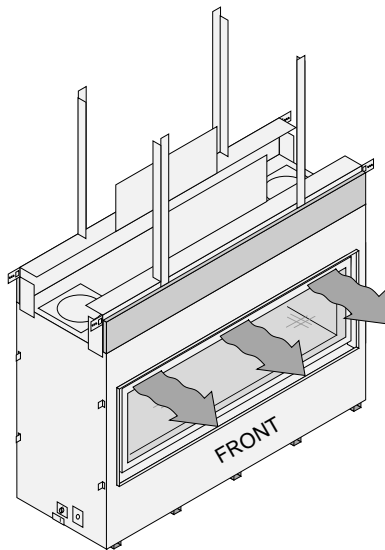
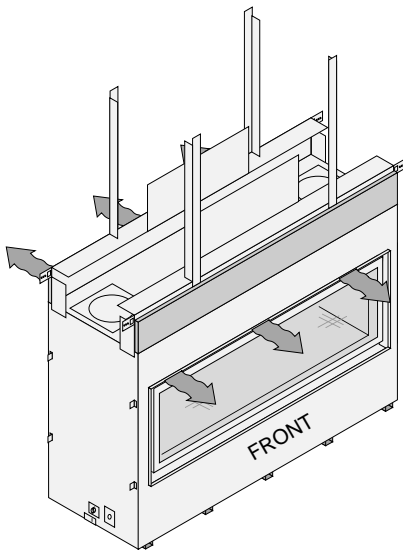
Convection Air Diverter (Front vs. Back)

This fireplace is equipped with an air deflector to allow the heated convection air to be directed to the front, back, or both.

Divided Air Flow (stock)

Air Flow to Front

Air Flow to Back

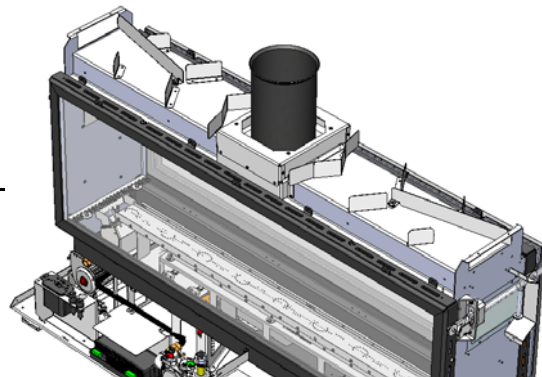


To adjust the air deflector, remove the glass frame and locate the two 3/4" holes in the firebox ceiling. Use a 7/16" nutdriver (or socket wrench) to adjust the deflector.

- To adjust the air to the front, adjust the right side diverter clockwise (approximately 1/4 turn) and the left side diverter counter-clockwise.
- To adjust the air to the rear, adjust the right side diverter counter-clockwise (approximately 1/4 turn) and the left side diverter clockwise.
- NOTE: You can adjust the diverter to any combination to obtain the desired heat distribution.



Cutaway of Air Diverter



Glass Frame Removal and Installation



ONE SIDE HAS GLASS LATCHES – ONE SIDE USES SCREWS – MAKE SURE TO ACCESS THE SIDE WITH GLASS LATCHES.



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.



Do not remove the glass frame with the screen attached – it will not disengage correctly and may damage the screen.



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.

GLASS FRAME TOOL

The glass frame tool is shipped inside the fireplace, under the concealment cover. The first time it is used you may need to loosen the screw (1/4" wrench). The tool is accessed after removing the screen.



NOTE: Replace the tool in this location after use.

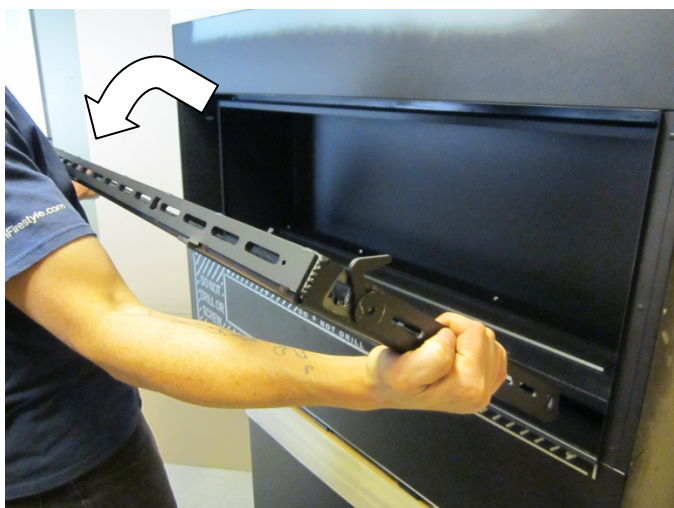
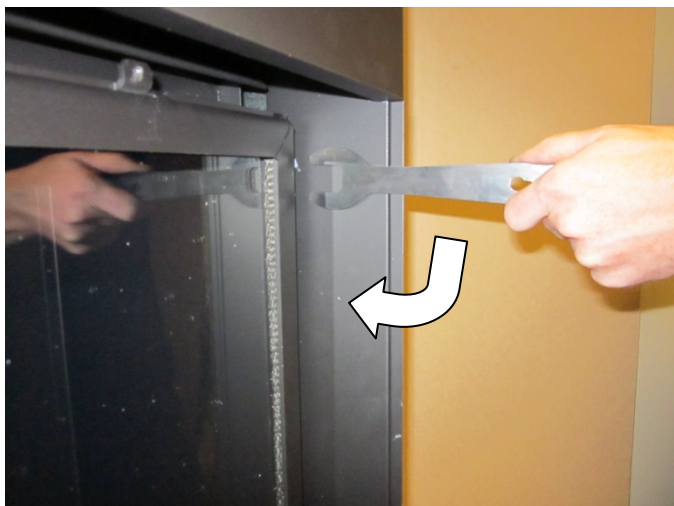
1. Remove the concealment cover and place aside. It has two holes that aid in removal.



2. Remove the three screws holding the screen in place (1/4" nutdriver- magnetic driver recommended). Then pivot the screen down slightly until the clips on the bottom disengage from the glass frame.



3. Use the glass tool to unlatch the glass frame. Remove the glass frame. The glass frame is held in place with four tabs inserted into four slots at the bottom of the firebox opening.



Fireback Installation



Fireplace must not be operated without the firebacks in place.



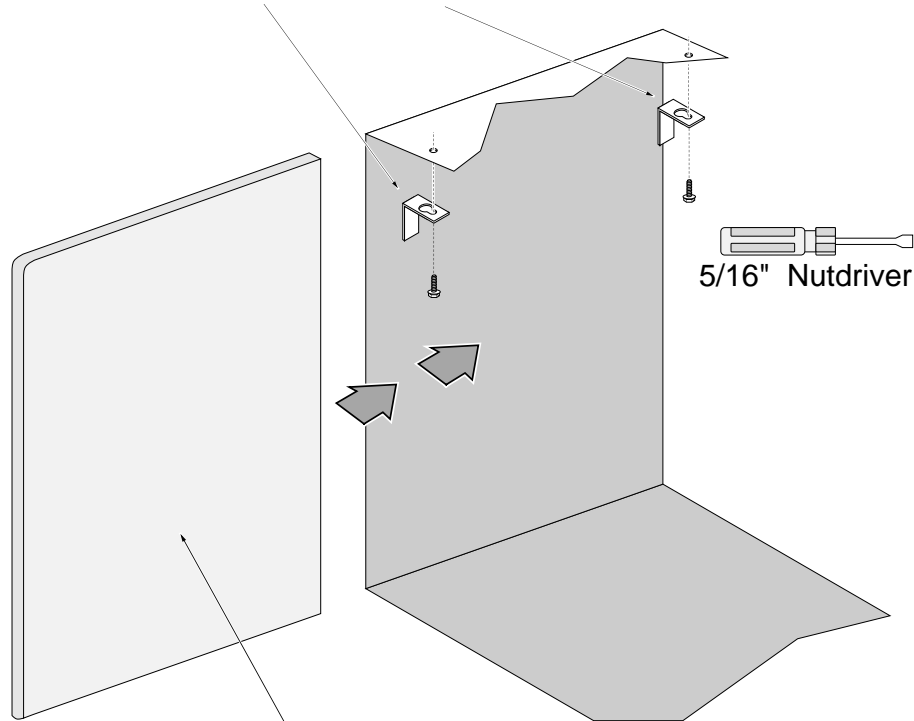
The directions below show installation of metal firebacks. If using ceramic firebacks, follow the directions included with the firebacks (the rear fireback clips are removed and discarded).

CLEANING ENAMEL FIREBACKS

We recommend cleaning the enamel surface with glass cleaner and a soft cloth.

- 1 Access the firebox.
- 2 Install the firebacks as shown below.

Remove the fireback clips on both sides. These clips have key-holes, allowing removal without removing the screw.



Place the side firebacks in place then secure using the clips removed earlier.

Crushed Glass Installation



Do not allow the crushed glass to block the air slots or to become too thick (maximum 1 layer deep on the burner). Failure to properly install glass may lead to sooting and improper burning.

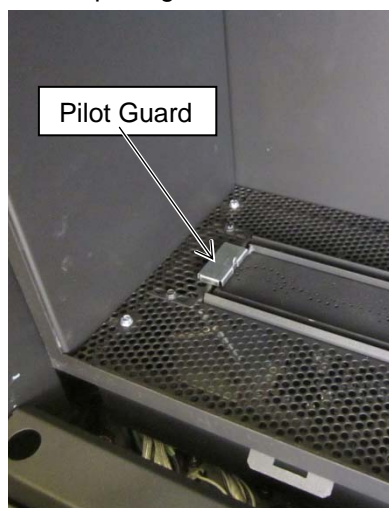


If converting to LP (propane), convert the appliance prior to placing the crushed glass.

Install the crushed glass on the glass tray following the directions below.

<u>Quantity of Crushed Glass</u>	No Logs (stock)	Driftwood Log Set (NOTE: <u>Install logs first</u>)
	8 lbs. (3.5 Kg)	4 lbs. (1.8 Kg)

Before installing the crushed glass, make sure the pilot guard is in place (it is zip-tied to the glass tray – remove and discard the zip-tie). After installing the glass, remove the pilot guard. Make sure no glass covers the pilot opening.



Disperse the crushed glass evenly along the glass tray.

Make sure the two air channels are free of crushed glass. Use the glass frame tool (or screwdriver) to clear this area. **Make sure the glass is only 1 layer deep on the burner.**



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.

The GSR Stepper Motor Kit (SKU 94400999) is required for converting this appliance to LP. The kit contains the stepper motor (regulator), torx wrench, and pilot orifice. The burner orifices and burner gaskets are shipped with the appliance.

1. Access the firebox.
2. Remove the glass tray. Remove the 4 screws holding it in place (1/4" nutdriver).



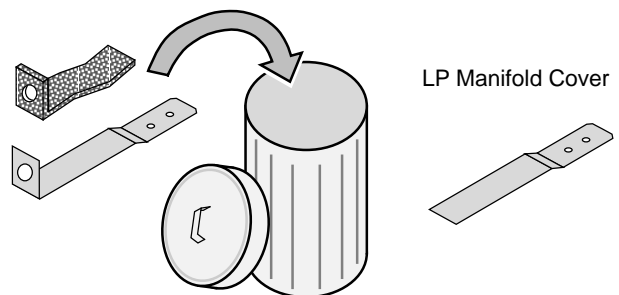
3. Remove the burner. It is held in place with 6 screws (1/4" nutdriver).



4. Remove the burner support as shown below. It is held in place with 10 screws (1/4" nutdriver).

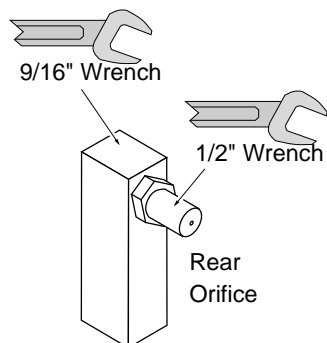


5. Remove and discard the NG (stock) manifold cover and orifice gasket (1/4" nutdriver). Install the LP manifold cover included in the owner's pack.



6. Follow the directions below to replace the orifice.

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



- (b) Use a 9/16" wrench to secure the manifold while removing the orifice with a 1/2" wrench.

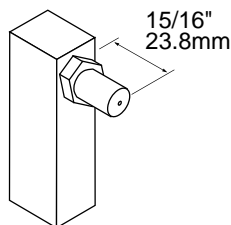
(c)

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



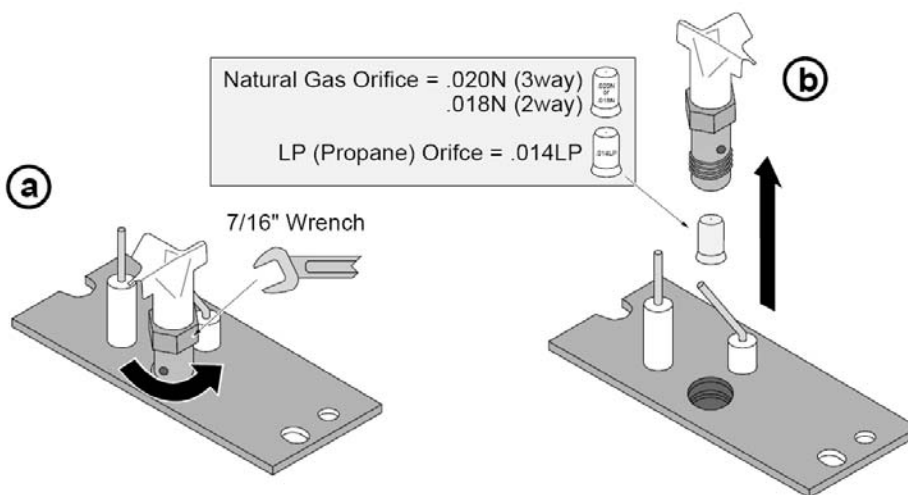
NG	LP
#31	#49

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

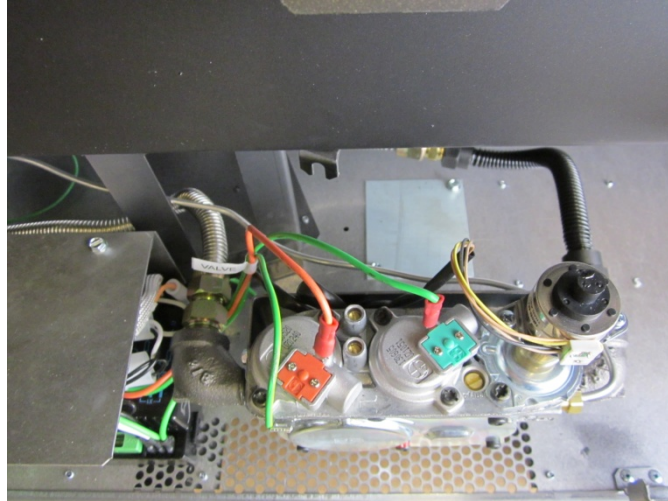


7. Install the LP pilot orifice following the instructions below.

- (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).



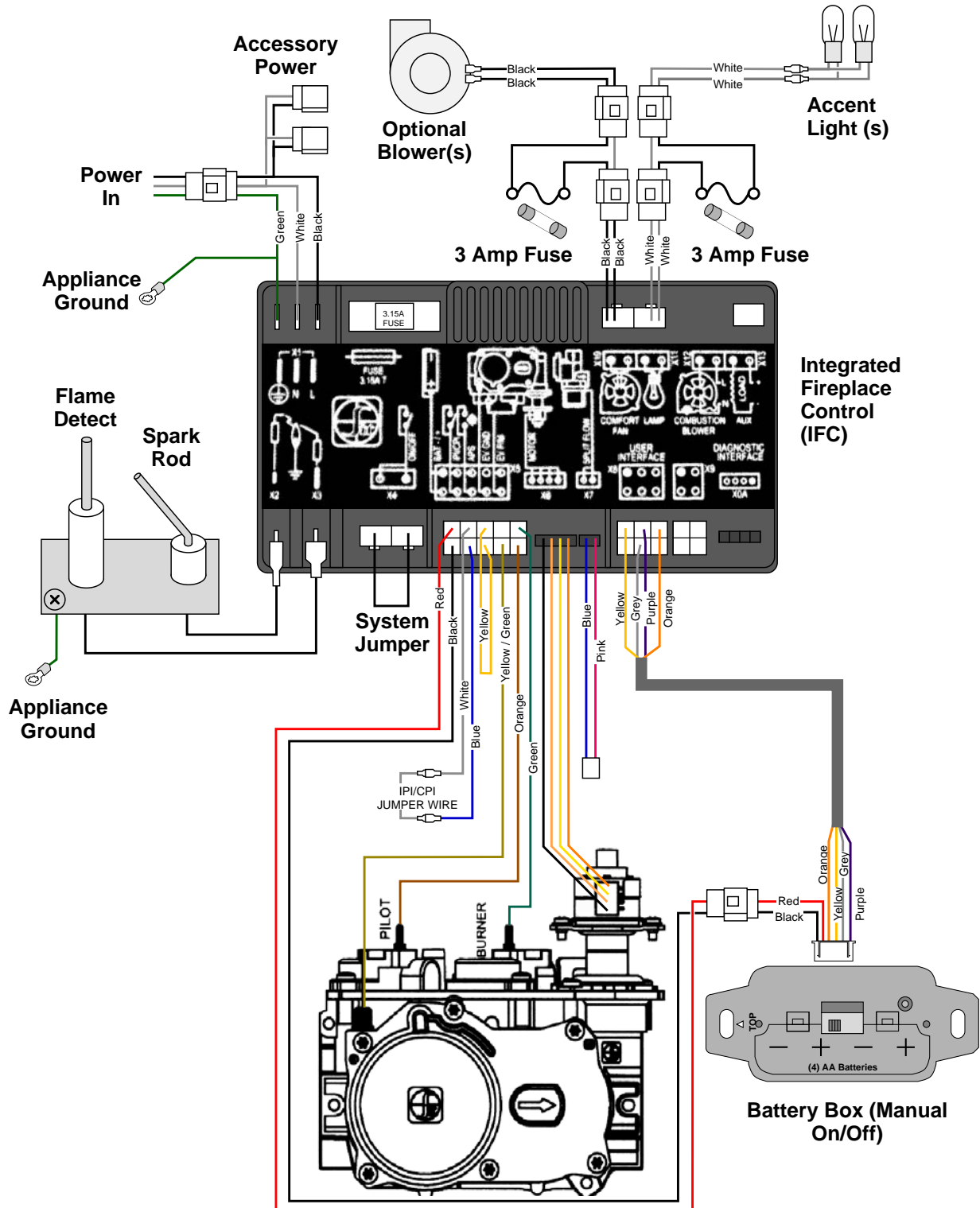
8. The stepper motor (adjustable regulator) has an installation sheet included with it – make sure to follow all of the directions. Place the stepper motor on the gas control valve (see below) – **MAKE SURE IT IS CORRECTLY ORIENTED**. Secure using the screws included with the motor – tighten to 25 Lb-inches.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



9. Replace the burner. **Push the burner to the left side to insure the manifold inserts over the orifice.**
10. Replace the remaining firebox components.
11. Replace the glass.
12. 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

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



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