KOZY HEAT FIREPLACES

HUSSONG MANUFACTURING CO., INC.
P.O. Box 557, 204 Industrial Park Road
Lakefield, Minnesota USA 56150-0577
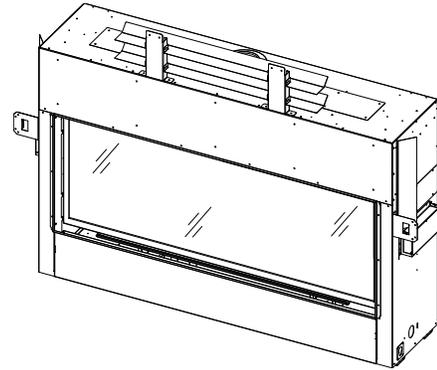
INSTALLATION AND OPERATION MANUAL

Nordik 60 TL

Model #NDK-60-TL
Direct Vent Gas Fireplace
Evolution of Fire™
with the EVO Elevated Burner™ Design

English and French installation manuals are available through your local dealer or website. Visit our website *www.kozyheat.com*.

Les manuels d'installation en français et en anglais sont disponibles chez votre détaillant local. Visitez *www.kozyheat.com*.

NATIONAL FIREPLACE INSTITUTE NFI 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.

PFS® C US

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.

⚠ WARNING:
FIRE OR EXPLOSION HAZARD

Failure to follow safety warnings exactly could result in serious injury, death, or property damage.

- **Do not** store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

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.
- Leave the building immediately.
- 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.

⚠ DANGER

HOT GLASS WILL CAUSE BURNS

DO NOT TOUCH GLASS UNTIL COOLED

NEVER ALLOW CHILDREN TO TOUCH GLASS

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

INSTALLER: Leave this manual with the appliance.

CONSUMER: Retain this manual for future reference.

CONGRATULATIONS!

Hussong Manufacturing welcomes you as a new owner of a Kozy Heat gas fireplace. Kozy Heat products are designed with superior components and materials, assembled with care by trained craftsmen who take pride in their work. To ensure you receive a quality product, the burner and valve assembly are 100 percent test-fired, and the complete fireplace is thoroughly inspected before packaging. Our commitment to quality and customer satisfaction has remained the same for over 40 years. We offer a complete line of gas, and electric fireplaces, along with stylish accessories to complement any decor. Adding a fireplace is one of the best ways to increase the value of your home, and we are proud to offer a network of dealers throughout the country to help make your experience everything you imagine. We pride ourselves in being dedicated not only to functionality and reliability, but also customer safety. We offer our continual support and guidance to help you achieve the maximum benefit and enjoyment from your Kozy Heat gas fireplace.

Jim Hussong
President
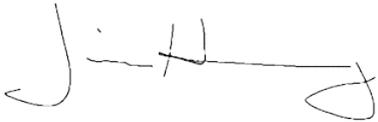
Dudley Hussong
Board Chairman

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

Homeowner Reference Information

Model name: _____

Serial Number: _____

Date Purchase / Installed: _____

Location of fireplace: _____

Dealership purchased from: _____

_____

_____

Dealership Phone Number: _____

_____

Notes:

_____

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Table of Contents

1.0   Introduction

1.1   Appliance Certification

Laboratory: PFS in Cottage Grove, Wisconsin

Standards:

- ANSI Z21.88-2019/CSA 2.33-2019, Vented Gas Fireplace Heaters
- CSA 2.17 2017, Gas-Fired Appliances for Use at High Altitudes

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

1.2   California Proposition 65 Warning

⚠ WARNING: This product can expose you to chemicals including Carbon Monoxide, that is an externally vented by-product of fuel combustion, which is [are] known to the State of California to cause birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov.

1.3   Requirements for the Commonwealth of Massachusetts

The following requirements reference various Massachusetts and national codes not contained in this manual.

For all sidewall horizontally vented gas fueled equipment installed in every dwelling, building or structure used in whole or in part for residential purposes, including those owned or operated by the Commonwealth and where the side wall exhaust vent termination is less than (7) feet above finished grade in the area of the venting, including but not limited to decks and porches, the following requirements shall be satisfied:

1.3.1   Installation of Carbon Monoxide Detectors

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

In the event that the side wall horizontally vented gas fueled equipment is installed in a crawl space or attic, the hard wired carbon monoxide detector with alarm and battery backup may be installed on the next adjacent floor level. In the event that the requirements of this subdivision can not be met at the time of completion of installation, the owner shall have a period of thirty (30) days to comply with the above requirements; provided, however, that during said thirty (30) day period, a battery operated carbon monoxide detector with an alarm shall be installed.

1.3.2   Approved Carbon Monoxide Detectors

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

1.3.3   Signage

A metal or plastic identification plate shall be permanently mounted to the exterior of the building at a minimum of eight (8) feet above grade directly in line with the exhaust vent terminal for the horizontally vented gas fueled heating appliance or equipment. The sign shall read, in print no less the one-half inch (½) in size, "GAS VENT DIRECTLY BELOW. KEEP CLEAR OF ALL OBSTRUCTIONS".

1.3.4   Inspection

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

1.3.5   Exemptions

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

1.3.6   Manufacturer Requirements

Gas Equipment Venting System Provided

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

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

Gas Equipment Venting System NOT Provided

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

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

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

2.0 Specifications

2.1 Heating Specifications

	Natural Gas	Propane
Maximum Input Rating	51,000 Btu/h (14.95 kW)	51,000 Btu/h (14.95 kW)
Orifice Size (DMS)	Left: #48 Center: #48 Right: #48 Bottom: #54	Left: #1.10mm Center: #1.10mm Right: #1.10mm Bottom: #65
Minimum Input Rating	34,000 Btu/h (9.96 kW)	40,000 Btu/h (11.72 kW)
Minimum Inlet Pressure	5" WC (1.25 kPa) 7" WC (1.74 kPa)** **Recommended	12" WC (2.99 kPa)
Maximum Inlet Pressure	10" WC (2.49 kPa)	13" WC (3.24 kPa)
Manifold Pressure (High)	3.5" WC (0.87 kPa)	10" WC (2.49 kPa)
Manifold Pressure (Low)	1.6" WC (0.40 kPa)	6.4" WC (1.59 kPa)
Venturi Opening Settings	Left: 1/8" (3mm) Center: 1/8" (3mm) Right: 1/8" (3mm) Bottom: 1/8" (3mm)	Left: 1/2" (13mm) Center: 1/2" (13mm) Right: 1/2" (13mm) Bottom: 3/8" (10mm)

2.1.1 Burner Identification

· Figure 2.1 identifies how the burners are referenced throughout this manual for burner orifice size, venturi settings, or other burner information.

Figure 2.1 - Burner Identification
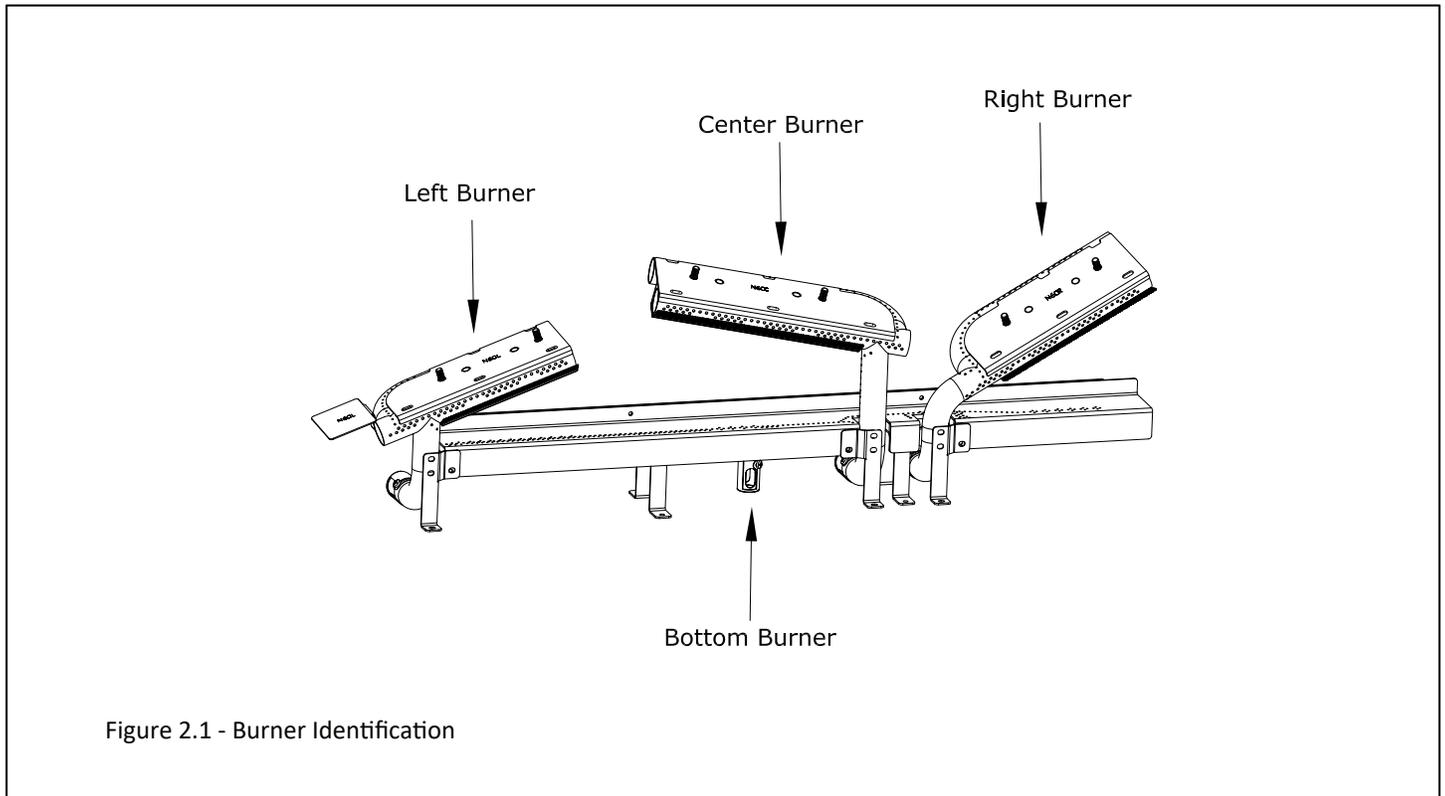
2.1.2 Altitude Adjustment

This appliance may be installed at higher altitudes. Please refer to National Fuel Gas Code ANSI Z223.1/NFPA 54, CSA-B149.1 Natural Gas and Propane Installation Code, local authorities, or codes having jurisdiction in your area regarding derate guidelines.

US Installations

Refer to the American Gas Association guidelines for the gas designed appliances derating method. For elevations above 2,000' (610m), input ratings are to be reduced by 4% for each 1,000' (305m) above sea level.

Canadian Installations

When the appliance is installed at elevations above 4,500' (1,372m), the certified high-altitude rating shall be reduced at the rate of 4% for each additional 1,000' (305m).

2.2 Electrical Specifications

· The junction box in this appliance requires 120VAC, 60Hz, and 6 Amps.

· Verify the household breaker is shut off prior to working on any electrical lines.

· The AC power supply to this appliance must be hot at all times and shall not have a switch installed in it.

2.3 Appliance Dimensions

TOP VIEW

$8\frac{3}{4}"$
(222mm)

$19\frac{1}{2}$
(495mm)

LEFT SIDE

$7\frac{7}{8}"$
(200mm)

FRONT VIEW

$20\frac{1}{2}"$
(521mm)

RIGHT SIDE

$63\frac{3}{8}"$
(1610mm)

54"
(1372mm)

$46\frac{1}{8}"$
(1172mm)

$23\frac{3}{4}"$
(603mm)

Gas line
access hole

Power vent wire harness hole
(see KPV manual for more information)

Electrical
access

$9\frac{7}{8}"$
(251mm)

$2\frac{3}{4}"$
(70mm)

$5\frac{1}{8}"$
(130mm)

$69\frac{1}{2}"$
(1765mm)

7"
(178mm)

$4\frac{1}{4}"$
(108mm)

Figure 2.2 - Appliance Dimensions
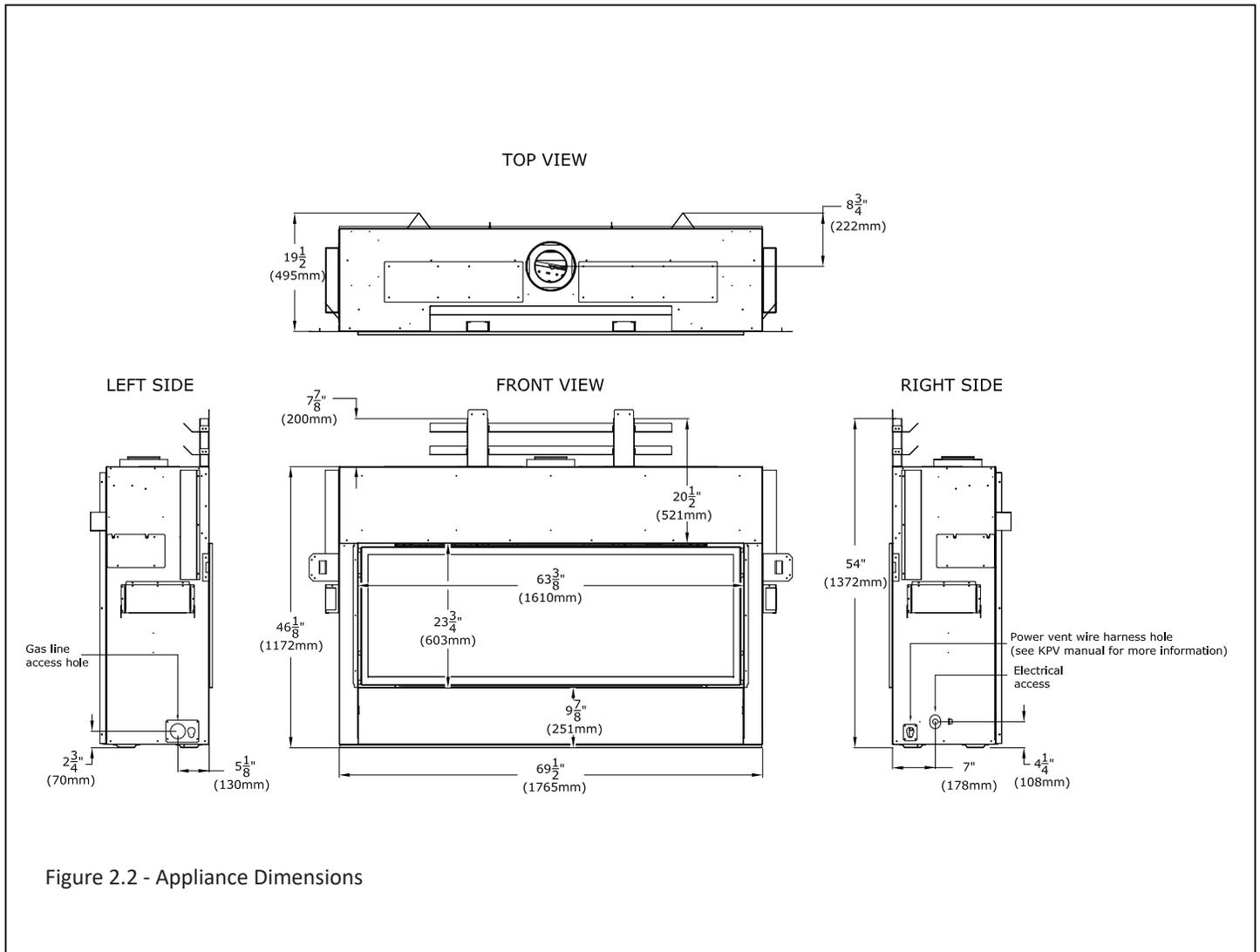
2.4 Safety Screen Barrier

WARNING: 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 Hussong Mfg.'s barriers for this appliance.

Please refer to Section 8.4 Safety Screen Barrier Installation.

Any glass, guard, or screen barrier removed for servicing an appliance must be replaced prior to operating the appliance

$62\frac{3}{8}$"
(1584mm)

$22\frac{1}{2}$"
(572mm)
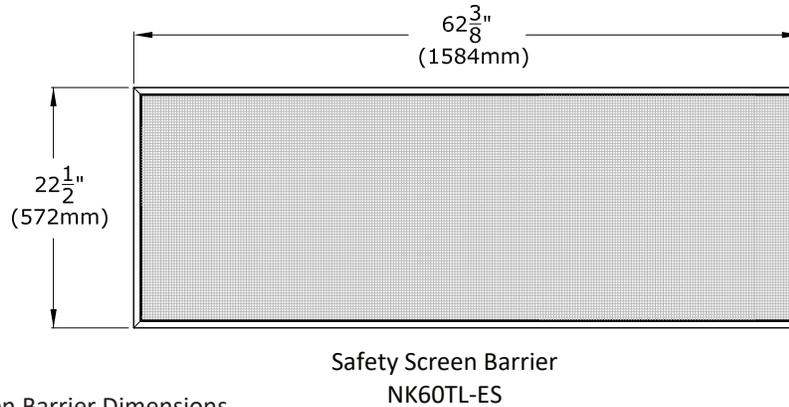
Safety Screen Barrier
NK60TL-ES

Figure 2.3 - Safety Screen Barrier Dimensions

2.5 Surround (optional)

The NK60TL-RS Rectangle Surround can be installed to cover the edge of finishing material around the finishing edge of the fireplace opening.
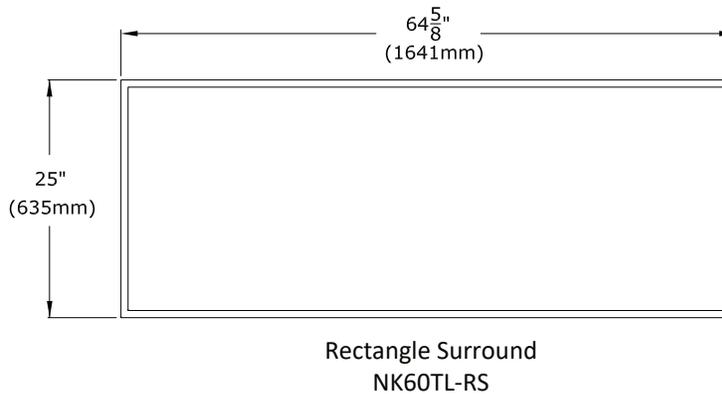

$64\frac{5}{8}$"
(1641mm)

25"
(635mm)

Rectangle Surround
NK60TL-RS

Figure 2.4 - Optional Surround Dimensions

3.0 Framing & Installation Information

3.1 Appliance Placement Considerations

Read all documentation for your specific installation and design options prior to appliance installation.

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

FIRE HAZARD: Do NOT install this appliance directly on carpeting, vinyl, or any other combustible material other than wood.

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

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

Note: Unless otherwise noted all clearances / images in this manual are based off of nominal 2" x 4" framing being used.

- This appliance must be installed on a level surface capable of supporting the fireplace and venting. If possible, place the fireplace in a position where the vent terminates between two studs, eliminating the need for any additional framing. All framing, facing material, and finishing material must be self-supported. The fireplace is not load-bearing.

- This fireplace may be installed in a bedroom.

- Please be aware of the large amount of heat this fireplace will produce when determining a location.

- If planning to convert to Propane, it is easier to complete the gas conversion before installing the fireplace in the framed opening. If installing #KPV Kozy Power Vent, please reference the manual included with the kit.

3.2 Floor Support and Protection

- Floor protection in front of the fireplace is not required. Combustible material may be used if installing a hearth extension. Consider the thickness of the hearth extension finishing material if building a fireplace platform.

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

- If the appliance is to be installed above floor level, a solid, continuous platform must be constructed below the appliance.

3.3 Appliance Installation Options

This appliance offers several design options for managing the heat produced by this fireplace.

Note: When deciding on which design option suites your application please review all sections throughout this manual as different design options have different framing, facing, and finishing options and requirements.

- **Standard Installation** will be outlined in this manual in sections marked 'standard installation' and must be followed if no design options (Komfort Zone Kit) are to be used. The fireplace chamber and ceiling minimum height must be 80" (2032mm) for standard installations.

- **Komfort Zone Kit (KZK)** offers the option to redistribute radiant heat through a plenum. This option allows for combustible facing materials above the fireplace, heat reduction for a TV above the fireplace, and lower mantel clearances. See section 4.0, Heat Management. If installing a Komfort Zone Kit (#KZK-062), the framing requirements may be different than the standard dimensions listed in this section. Please reference the manual included with your kit before completing all fireplace framing and other installation considerations. The fireplace chamber and ceiling minimum height must be 80" (2032mm) for KZK options.

- **Heat Transfer Kit(s)** allows you to transfer heat to a specific area inside your home (interior) or directly outside (exterior). This appliance can have (2) heat transfer kits installed at the same time. It can be up to two of the same heat transfer kits, or a combination of interior and exterior kits. See the HTK-EXT and/ or HTK-INT manuals for further information. If you are planning a standard installation with the use of an exterior and/or interior kit, the minimum dimensions listed in this section will apply for your framing installation. You will need to remove the cover plates as instructed in section 4.2.. If you are installing a heat transfer kit with the use of a Komfort Zone Kit, the minimum requirements applicable to those options must be adhered to.

- **Kozy Power Vent** is a fan-powered mechanical draft vent system (horizontal terminations only) for use with any of the design options listed previously in this section (Standard or Komfort Zone Kit). Reference the #KPV manual for all system requirements. Utilizing the Kozy Power Vent system will not change facing and finishing requirements or safety barrier requirements from the Standard or Komfort Zone Kit design options.

3.4 Setting the Appliance

This section outlines general information on setting the appliance in the framed opening and starting the installation process.

Decide on your appliance installation option mentioned in Section 3.3 before setting the appliance. Your framing requirements, clearance to combustibles, and vent configuration will depend upon this decision.

IMPORTANT: If you are using a Komfort Zone Kit and/or Heat Transfer Kit option refer to Section 4.0 for additional preparation steps that must be completed before setting the appliance in the framed opening.

General Procedure

1. Frame your opening based on your selected appliance installation option. Refer to Section 3.8 for information for the framed opening of the standard installation option. If you are using a KZK installation option refer to the KZK manual for framing.

2. Lay out the path for your vent run before installing appliance.

3. Install the nailing flanges on the appliance. Refer to Section 3.6 for assembly and installation. The nailing flanges are where you secure your appliance to the framed opening. The framing will be flush with the appliance when it is installed.

4. Assemble and install the top stand-off assembly. Refer to Section 3.5 for more information on the top stand-off assembly. This stand-off assembly provides the necessary thermal protection of the header.

5. Place the fireplace inside the framed opening and secure the appliance into the framing. The fireplace will be flush with the framing.

6. The next steps would involve installing the KZK (if applicable), vent pipe, connect gas line, connect electrical wiring, and finally finishing material.

3.4.1 Moving the Appliance

This appliance is heavy. We recommend a team lift when moving, placing, and positioning the appliance.

On both sides of the appliance, there are lift handles that allow a hand lift (no sharp edges), or allow a 2" x 4" piece of lumber to be inserted inside the lift handles, as shown in Figure 3.1.
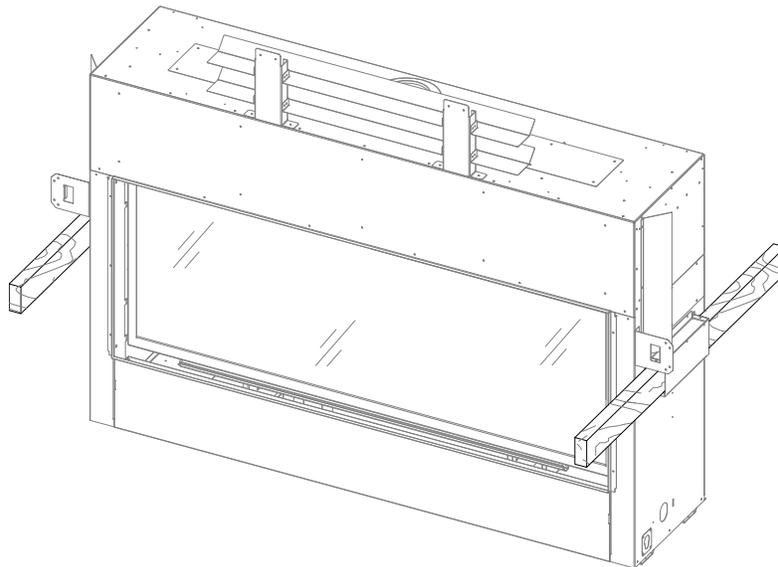

Figure 3.1 - 2"x4" Lifting Handles

3.5 Stand-Off Assembly and Installation

WARNING: The top stand-offs provide the 7-7/8" (200mm) minimum clearance to the header. Use only non-combustible material in this area for the entire width of the fireplace. DO NOT use wood, sheetrock, et cetera, in this zone.

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

Note: If installing Komfort Zone Kit or Heat Transfer Kit complete the necessary preparation work before assembling the stand-off assembly.

Note: Screws for the installation steps below are provided in the fireplace components packet.

Installation:

1. Locate the stand-off heat shields and stand-off brackets that are shipped with the fireplace.

2. Attach the top stand-off brackets with (4) screws to the top of the fireplace as shown in Figure 3.2.

3. Take the horizontal heat shields and bend the tabs upward that have the screw holes.

4. Attach the horizontal heat shields to the top stand-off brackets with the (8) screws as shown in Figure 3.2.
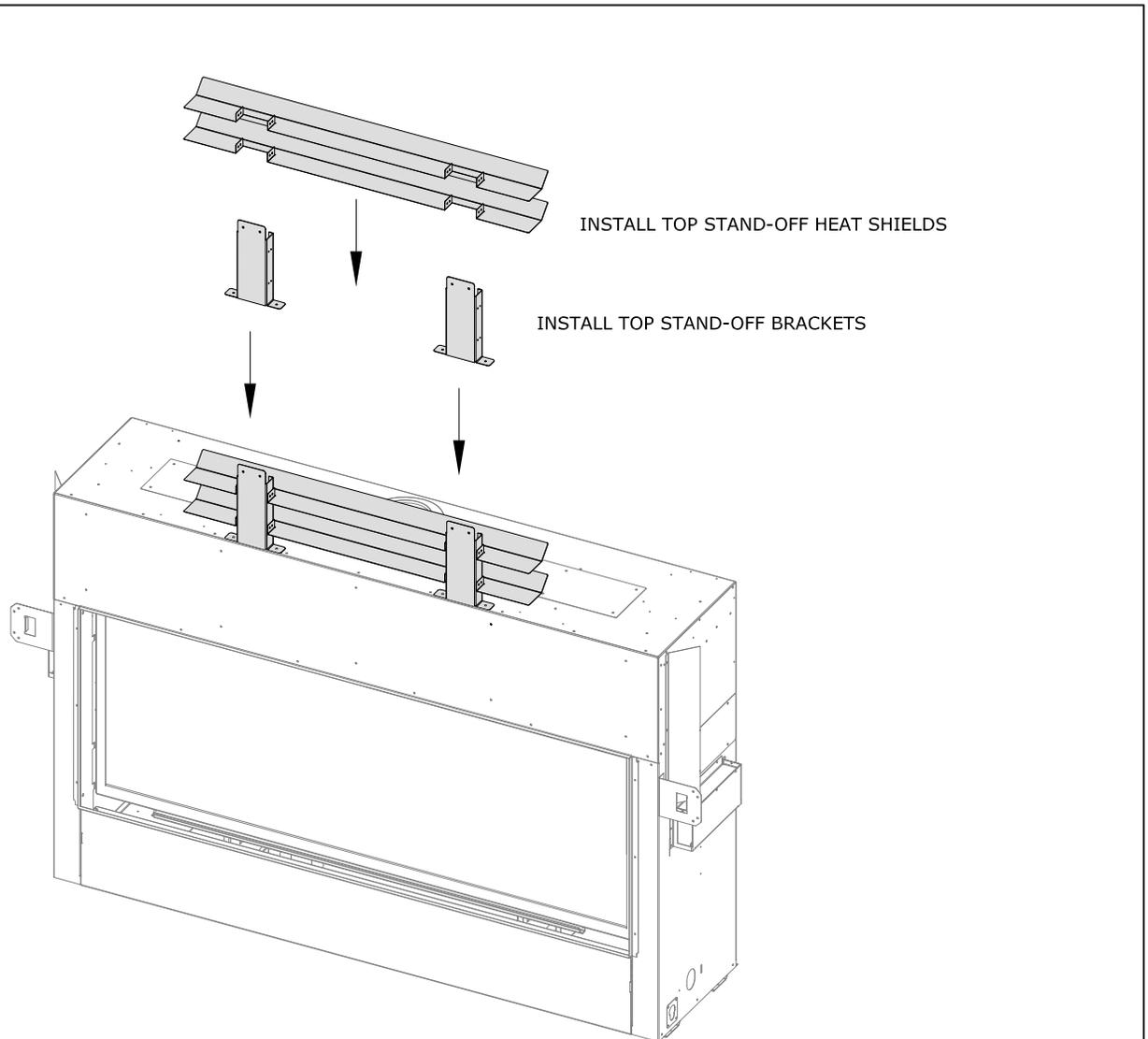

INSTALL TOP STAND-OFF HEAT SHIELDS

INSTALL TOP STAND-OFF BRACKETS
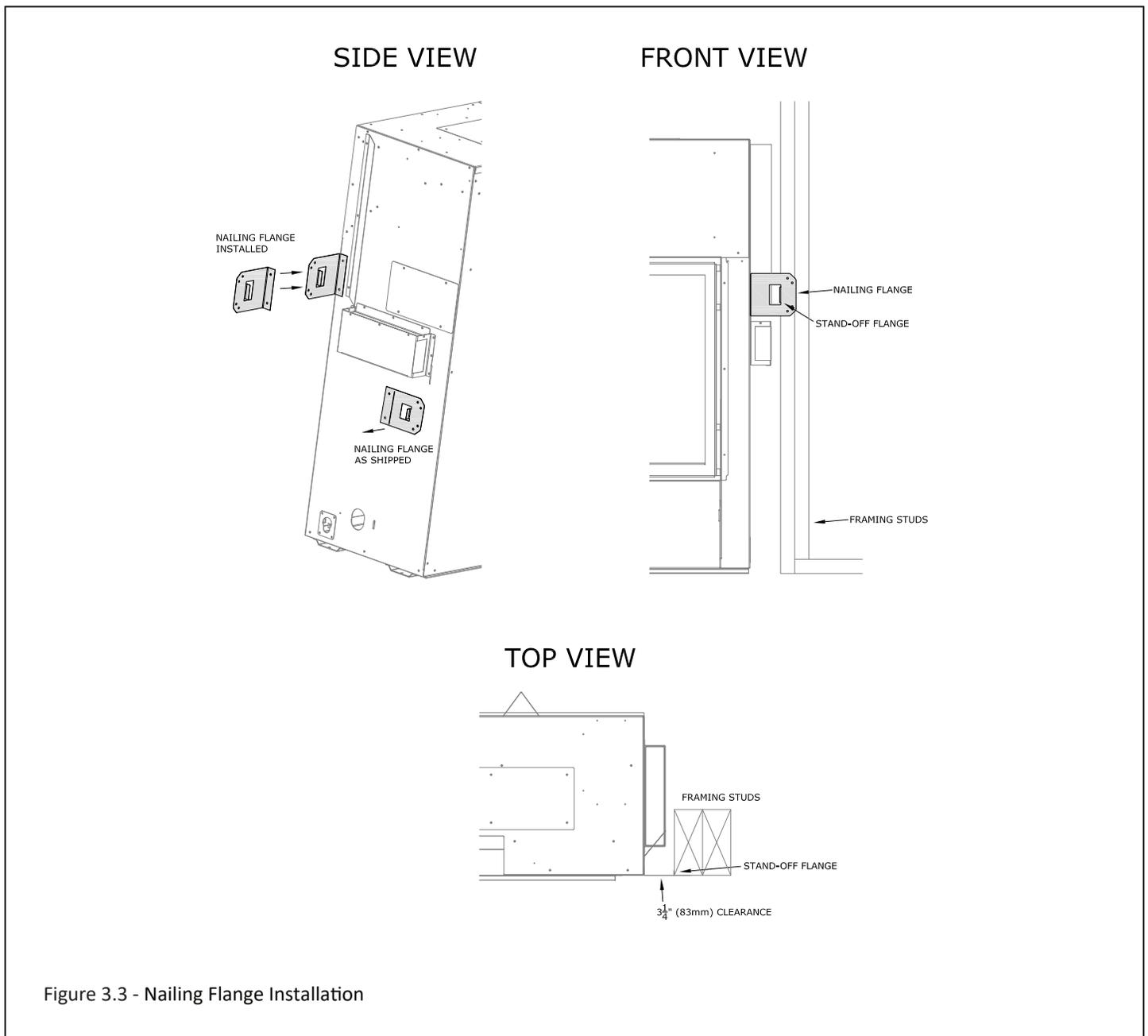
Figure 3.2 - Stand-Off Installation

3.6 Nailing Flange Assembly and Installation

CAUTION: Never permanently remove these assemblies from the fireplace. They must be secured regardless of finish material used.

1. Remove (2) nailing flanges from the right and left side of the fireplace.

2. Align nailing flange with holes on outside corners of fireplace, with the stand-off flanges on the nailing flanges facing away from the fireplace

3. Secure the nailing flanges to the fireplace with screws (provided) through the slots in nailing flanges.

4. Bend perforation on nailing flange until parallel with fireplace face. Do not bend toward fireplace face.

5. Position framing stud against the small stand-off (located on backside of nailing flange). Secure with nails or screws.

When installed, the nailing flanges provide the minimum 3-1/4" (83mm) clearance from the sides of the fireplace to framing.

SIDE VIEW   FRONT VIEW

NAILING FLANGE INSTALLED

NAILING FLANGE
STAND-OFF FLANGE

NAILING FLANGE AS SHIPPED

FRAMING STUDS

TOP VIEW

FRAMING STUDS

STAND-OFF FLANGE

$3\frac{1}{4}$" (83mm) CLEARANCE

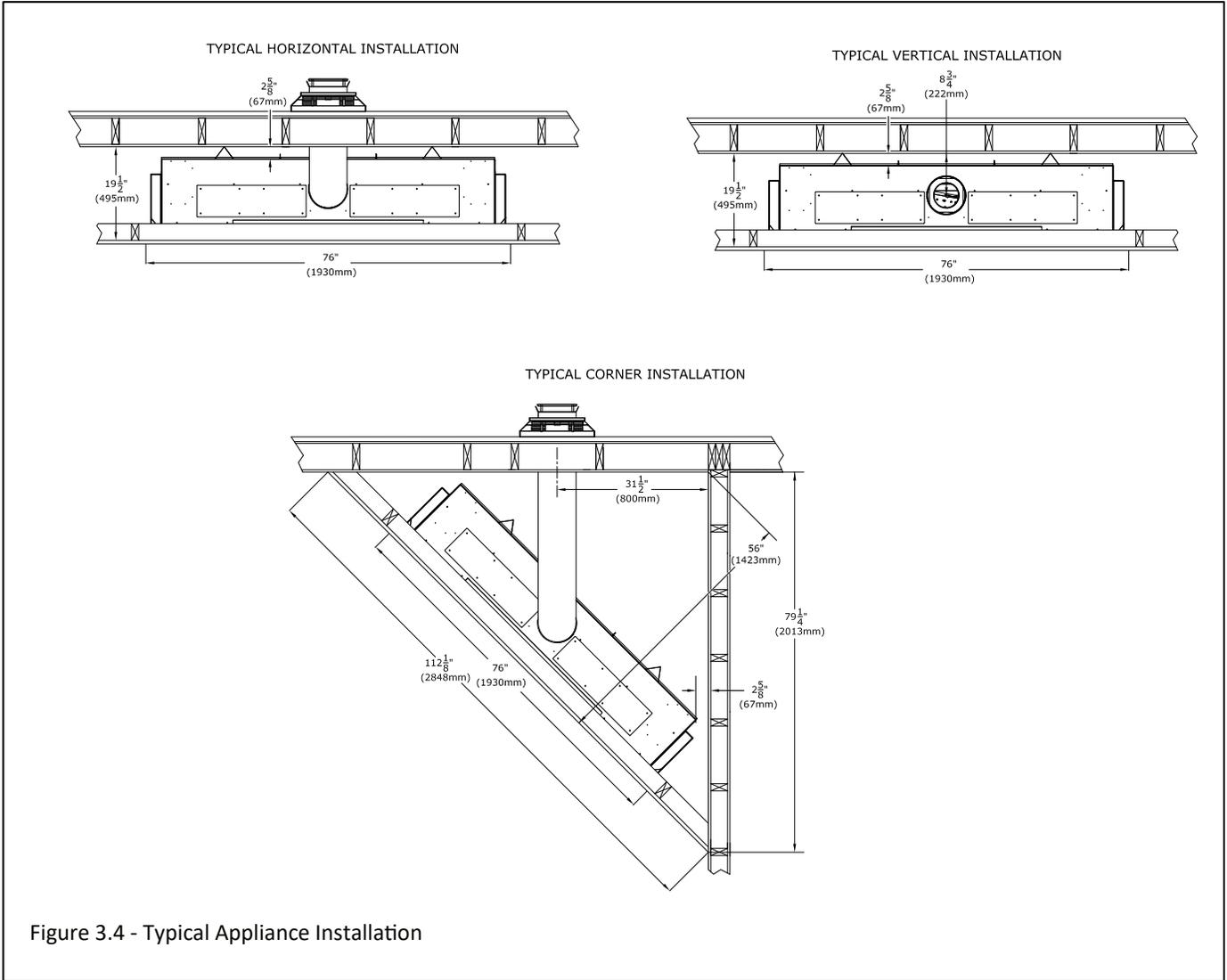Figure 3.3 - Nailing Flange Installation

3.7 Clearances to Combustibles

- See Table 3.1 below for minimum clearances.
- See Figure 3.4 on the following page for typical standard installation options.
- Unless otherwise noted all clearances / images in this manual are based off of nominal 2" x 4" framing being used.

IMPORTANT: Clearances may change when utilizing the Komfort Zone Kit (Part# KZK-062). Please reference the manual included with that kit.

Table 3.1 - Minimum Fireplace Clearances to Combustible Material		
Minimum height of fireplace enclosure	80"	2032mm
Base of fireplace to ceiling	80"	2032mm
Fireplace top finishing edge to ceiling	46-3/8"	1178mm
From fireplace top stand-off brackets	0"	0mm
From fireplace left and right stand-off brackets (nailing flanges)	0"	0mm
From fireplace back stand-off brackets	0"	0mm
Fireplace side finishing edge to adjacent sidewall	0"	0mm
From fireplace corners	2-5/8"	67mm
From fireplace front	36"	914mm
6" (152mm) mantel projection from the top finishing edge of the fireplace	12"	305mm
6" (152mm) mantel projection from the base of the fireplace	45-5/8"	1159mm
Unlimited hearth projection from the bottom finishing edge of the fireplace	0"	0mm
Minimum Vent System Clearances to Combustible Materials Inside Fireplace Enclosure		
Horizontal venting within fireplace enclosure - Top surface of vent pipe	11-7/8"	302mm
Horizontal venting within fireplace enclosure - Left, right, and bottom surfaces of vent pipe	1"	25mm
Vertical venting within fireplace enclosure - All surfaces	1"	25mm

3.7 Clearances to Combustibles (continued)

TYPICAL HORIZONTAL INSTALLATION

$2\frac{5}{8}$"
(67mm)

$19\frac{1}{2}$"
(495mm)

76"
(1930mm)

TYPICAL VERTICAL INSTALLATION

$2\frac{5}{8}$"
(67mm)

$8\frac{3}{4}$"
(222mm)

$19\frac{1}{2}$"
(495mm)

76"
(1930mm)

TYPICAL CORNER INSTALLATION

$31\frac{1}{2}$"
(800mm)

56"
(1423mm)

$79\frac{1}{4}$"
(2013mm)

$112\frac{1}{8}$"
(2848mm)

76"
(1930mm)

$2\frac{5}{8}$"
(67mm)

Figure 3.4 - Typical Appliance Installation

3.8 Wall Enclosure Rough Framing

- Unless otherwise noted all clearances / images in this manual are based off of nominal 2" x 4" framing being used.

3.8.1 Rough Framing

WARNING: Provide adequate clearances around air openings into the combustion chamber. Provide adequate clearance in front of the fireplace for barrier removal, component access, gas line installation, service access, etc.

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

Rough-in dimensions outlined in Figure 3.5 below are the same for all design options and must be followed.

- Floor protection in front of the fireplace is not required. Combustible material may be used if installing a hearth extension. Consider the thickness of the hearth extension finishing material if building a fireplace platform. The hearth may be flush with the bottom finishing edge of the fireplace.

- The bottom of the fireplace must be placed directly on a wood or non-combustible surface (not linoleum or carpet). If this appliance is to be installed directly on carpeting, tile, or other combustible material other than wood flooring, this appliance shall be installed on a metal or wood panel extending the full width and depth of the appliance.

- Framing dimensions should allow for wall covering thickness and fireplace facing materials.

- If masonry (optional) is to be used, prepare the foundation necessary for the full masonry load. A lintel must be used over the top of the appliance to support the added weight of the masonry construction above the fireplace.

3.8.2 Mounting a Television Above a Fireplace and Television Recess Construction

WARNING: All clearances to venting must be maintained.

- Mounting a television above a fireplace is a common practice. Mantel depth, ceiling heights, and wall and mantel construction material all affect television surface temperatures. Most television manufacturers specify in their instructions that a television should not be installed on, near, or above a heat source.

- If you want a Television above a fireplace it is highly recommended install the fireplace with the KZK installation design option. Refer to Section 3.3 for more information on the KZK design. Install the plenum discharge above the location of a television. This will help distribute heat from below the TV to above the TV. We also recommend the use of a mantel to deflect heat away from the television.

- Television location rests solely on the homeowner. It is the home owner's responsibility that the preferred TV mounting and mantel design will not exceed the listed maximum operation temperature of their electronic goods.

- The allowed TV recess of 4-1/4" (108mm) measures from the front of the nominal 2x4 framing to the backside of the finishing material of the pocket.
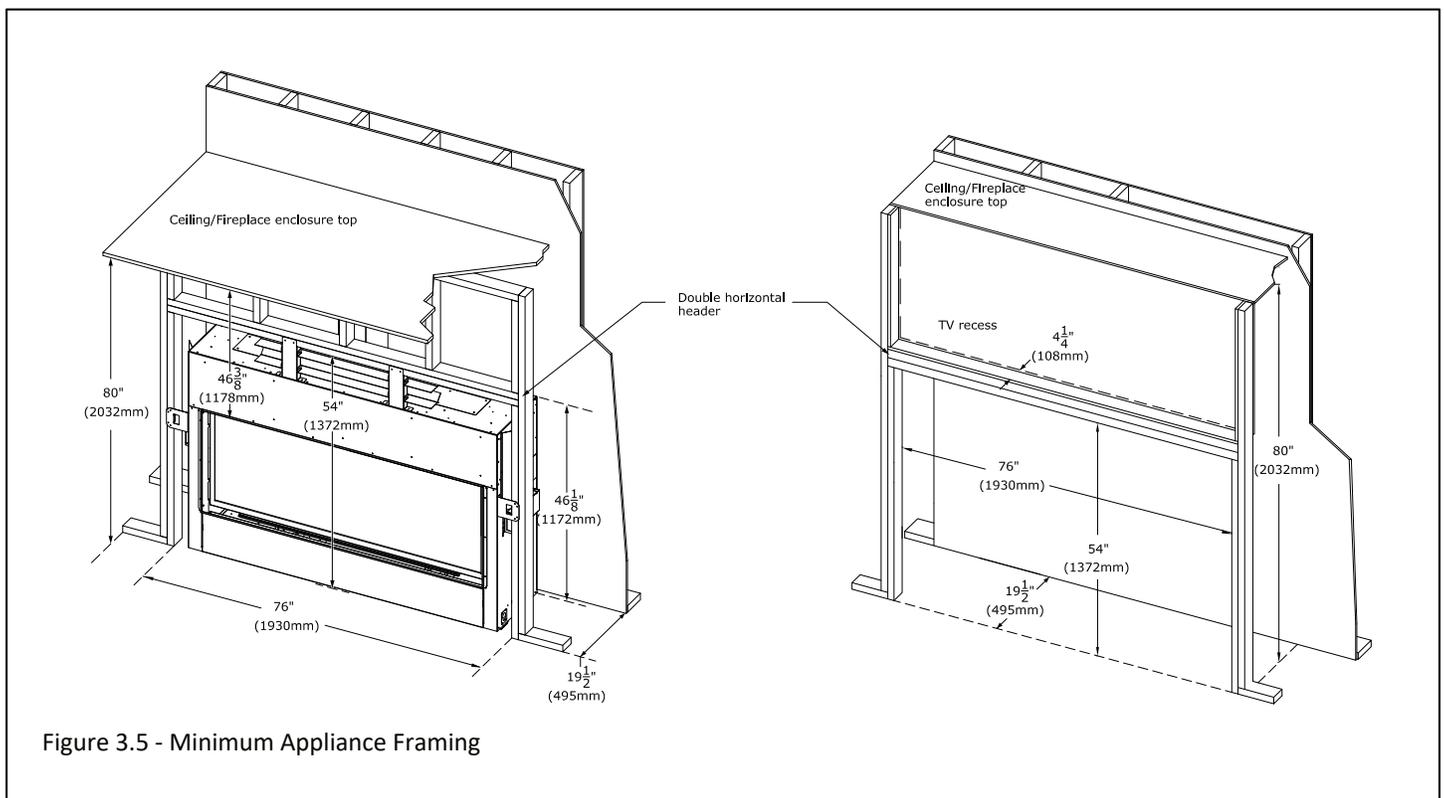

Figure 3.5 - Minimum Appliance Framing

3.9 Vent Termination Framing

The following information applies to all standard, and Komfort Zone Kit design options.

If using Kozy Power Vent #KPV, please reference the manual included with the kit.

3.9.1 Framing Requirements

- This is a cold air transfer area. The fireplace enclosure must comply with all clearances as outlined in this manual, and be constructed in compliance with local building codes. Outside walls should be insulated to prevent cold air from entering room
- Exterior vent termination location must be in compliance with Section 7.2.

3.9.2 Clearances

- A minimum of 1" (25mm) clearance on all sides of the vertical vent pipe must be maintained.
- See Section 3.9.5 for vent heat shield installation.

Refer to FIGURE 3.6 below for the following clearances

- A minimum of 1" (25mm) clearance from the top surface on the horizontal pipe must be maintained.
- Any horizontal pipe within the fireplace chamber must have a minimum clearance of 11-7/8" (302mm) from the top of the chamber to the vent pipe. The horizontal pipe after the wall thimble must maintain a 1" (25mm) clearance to combustibles on all surfaces of the pipe.
- A minimum of 1" (25mm) clearance on the sides and bottom surfaces on the horizontal pipe must be maintained.

NOTE: Elbows listed with approved vent systems for this appliance vary in vertical length. Please consult the vent manufacturer's instructions to determine the elbow dimension used for installation. Adjust the wall thimble rough opening dimensions as necessary to maintain clearance requirements.
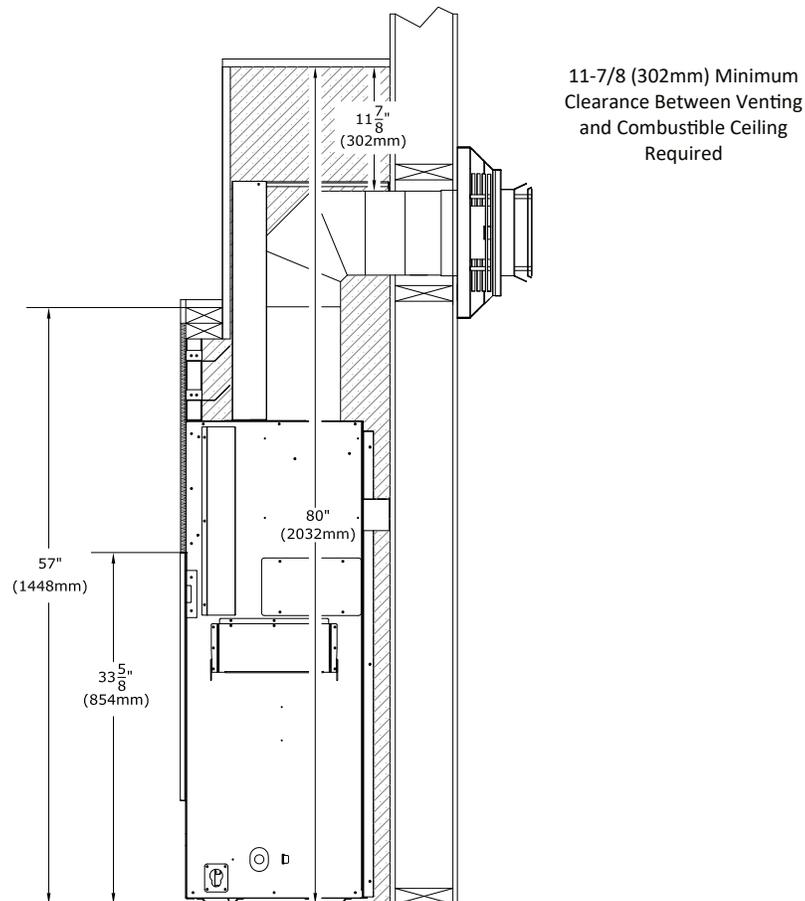

Figure 3.6 - Horizontal Vent Pipe Clearance

3.9.3 Vertical Terminations

Follow vent pipe manufacturer's installation instructions for vertical terminations.

- Attic insulation shields may be insulated using unfaced insulation products listed as non-combustible per ASTM E 136.

3.9.4 Horizontal Terminations

WARNING: Do not recess the vent cap into wall or siding.

IMPORTANT: Horizontal vent sections require 1/4" (6mm) rise for every 12" (305mm) of travel for natural draft applications.

- Wall thimble products that comply with the required 1" (25mm) top clearance to combustibles must be installed for all horizontal vent runs that pass through interior or exterior walls. These wall thimble products may be insulated using unfaced insulation products listed as non-combustible per ASTM E 136.

- Elbows listed with approved vent systems for this appliance vary in vertical length. Please consult the vent manufacturer's instructions to determine the elbow dimension used for installation. Adjust the wall thimble rough opening dimensions to maintain clearance requirements.

3.9.5 Vent Heat Shield Installation

- Vent heat shields must be installed.
- When the vent pipe terminates at the ceiling of the fireplace enclosure you only use the front vertical vent heat shield as shown in Figure 3.7.
- When the vent pipe terminates at the wall at the minimum vent run use the front vertical and top horizontal vent heat shield as shown in Figure 3.7.
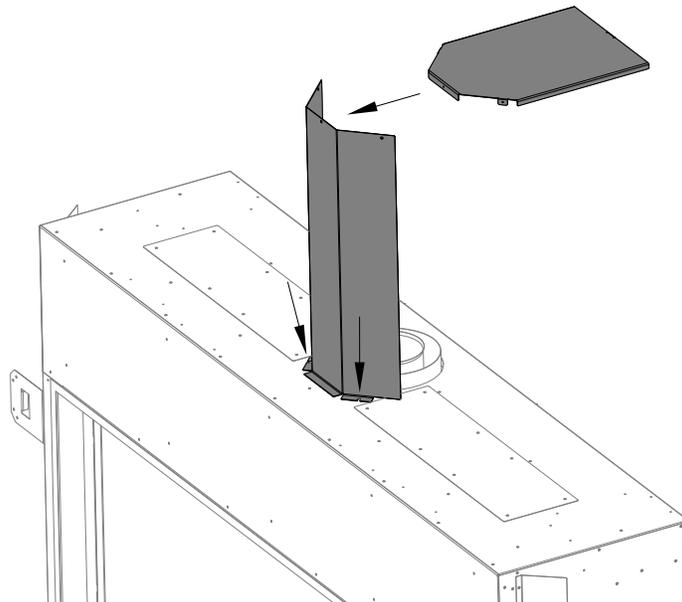

Figure 3.7 - Vent Heat Shield Installation

3.9.6 Wall Thimble Framing Instructions

Follow FIGURE 3.8 below for minimum rough-in dimensions.

1. Measure from floor level of the fireplace to the center of where the vent pipe will penetrate the wall. The dimension in Figure 3.8 is used with Simpson DuraVent vent pipe.

2. Cut and frame an opening in the wall to allow the vent system to run level through the wall thimble.

3. Follow the vent pipe manufacturer's installation instructions for natural draft vent installation.

Note: Vent pipe dimensions are tested with listed Simpson DuraVent vent pipe. Other manufacturers product dimensions may vary.
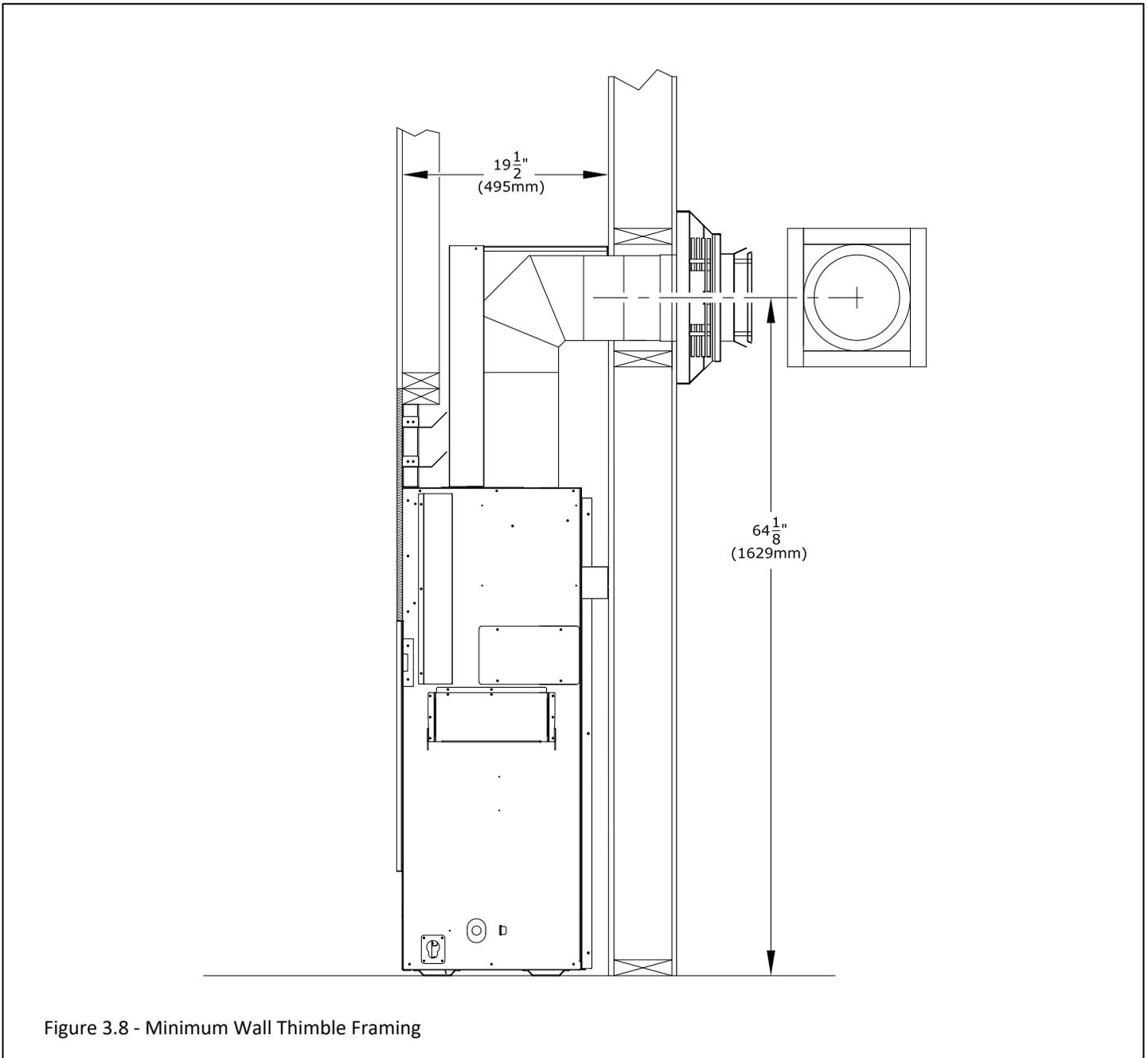
Figure 3.8 - Minimum Wall Thimble Framing

3.10 Outdoor Covered Fireplace Installation

A outdoor covered fireplace installation allows a fireplace to be installed in an outdoor covered area, where the appliance is protected from direct precipitation.

Follow the instructions and illustrations in this section for installation procedures.

3.10.1 Safety Screen Barriers

Hussong Mfg. highly recommends to use black painted safety barriers in outdoor installations. Other screen barriers that incorporate a plated or patina finish are highly susceptible to oxidation and discoloration.

3.10.2 Requirements

- The continuous insulated building envelope and weatherproof membrane are not to be interrupted by fireplace installation.

- Fireplace operation is approved from 40°F to 110°F.

- All wiring connections shall be in accordance with outdoor requirements of NECA NFPA 70.

- All clearances and requirements in your appliance manual must be adhered to.
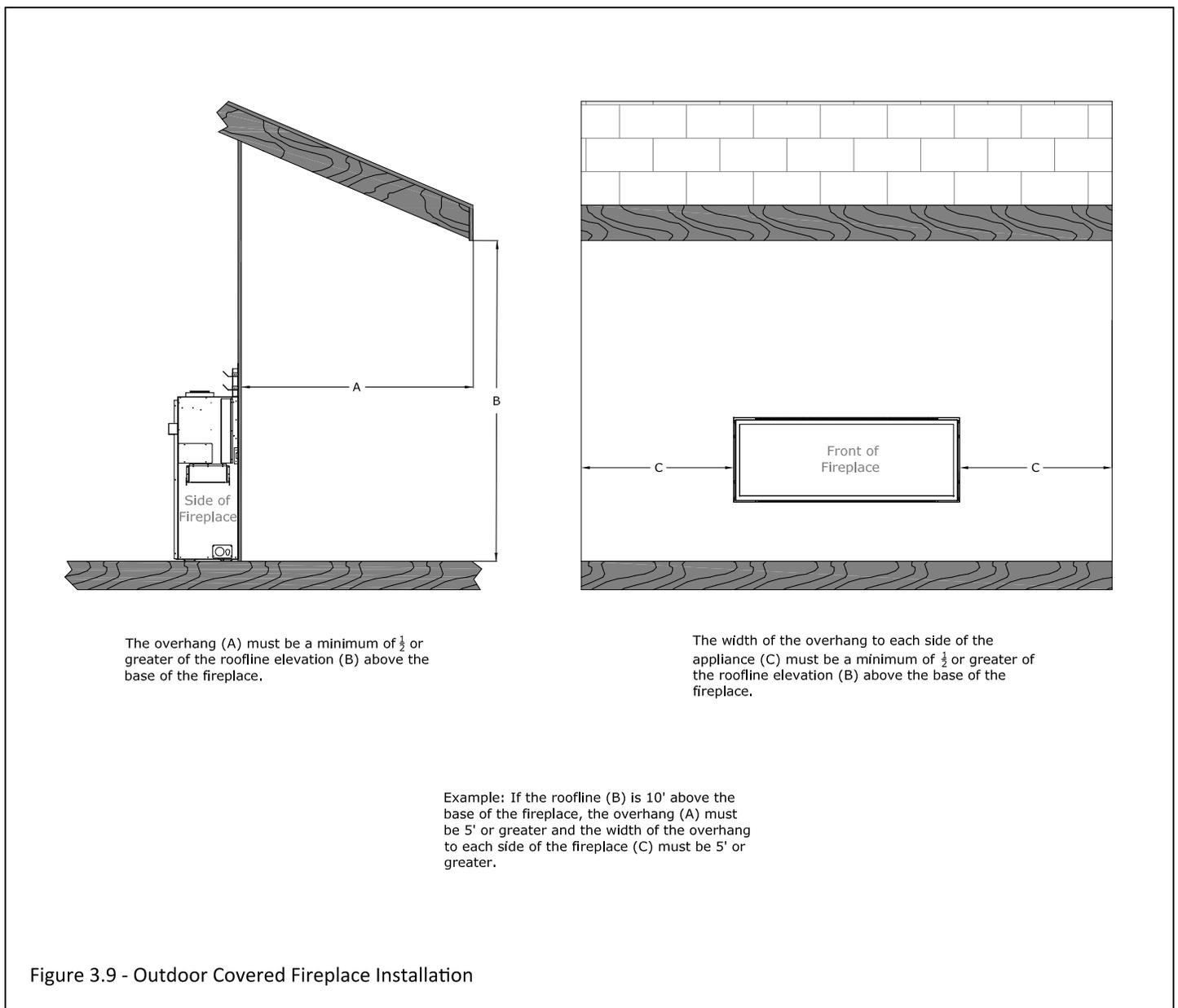

The overhang (A) must be a minimum of $\frac{1}{2}$ or greater of the roofline elevation (B) above the base of the fireplace.

The width of the overhang to each side of the appliance (C) must be a minimum of $\frac{1}{2}$ or greater of the roofline elevation (B) above the base of the fireplace.

Example: If the roofline (B) is 10' above the base of the fireplace, the overhang (A) must be 5' or greater and the width of the overhang to each side of the fireplace (C) must be 5' or greater.

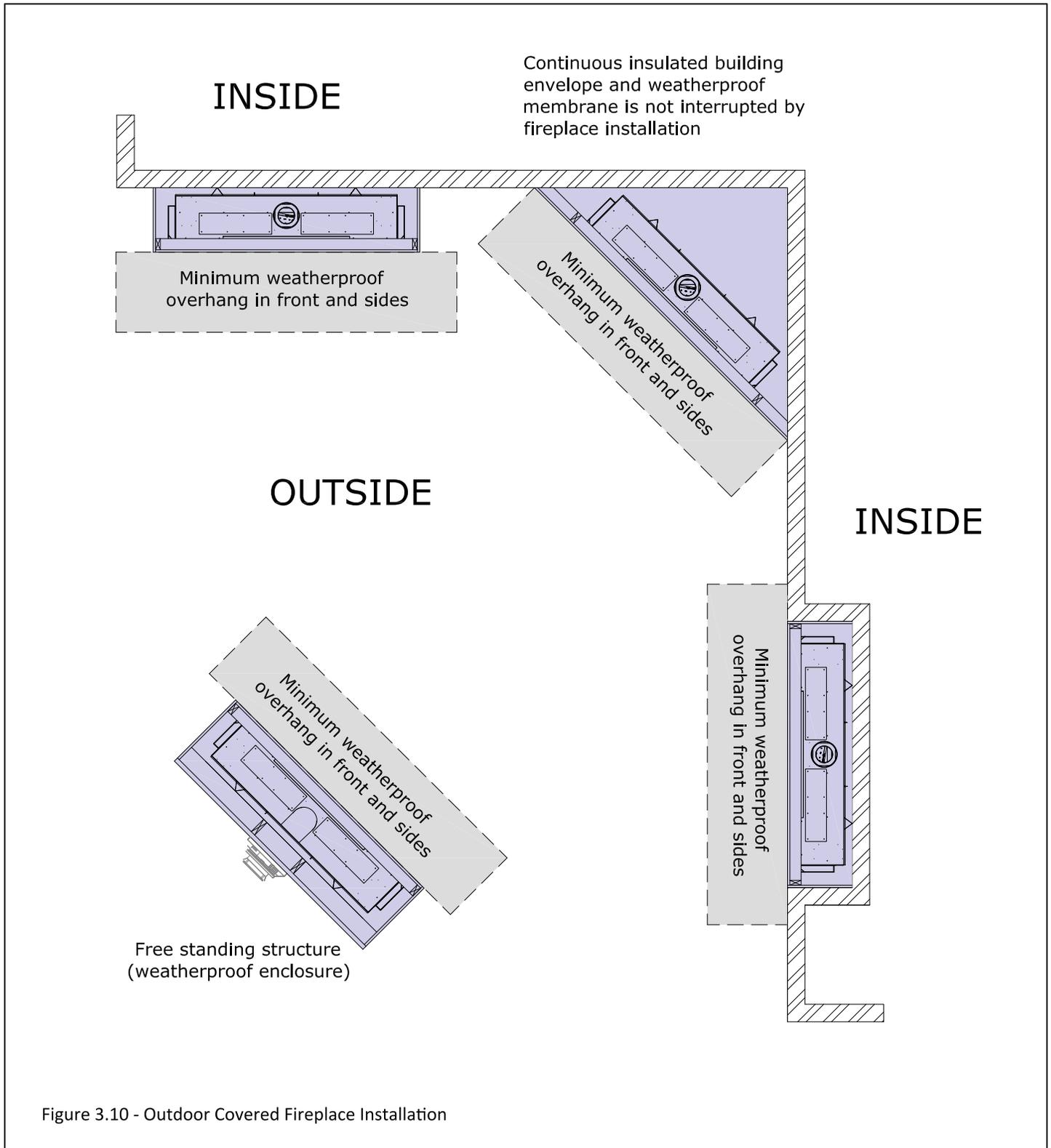Figure 3.9 - Outdoor Covered Fireplace Installation

Figure 3.10 - Outdoor Covered Fireplace Installation

4.0   Heat Management

The Komfort Zone Kit (KZK) offers the option to redistribute radiant heat through a plenum. This option allows for combustible facing materials above the fireplace, heat reduction for a TV above the fireplace, and lower mantel clearances.

- If installing a Komfort Zone Kit (#KZK-062), the clearance to combustible requirements may be different than the standard dimensions listed in this section. Please reference the manual included with your kit before completing all fireplace framing and other installation considerations.

The Komfort Zone Kits have specific framing requirements, mantel requirements, and exterior trim dimensions.

- All minimum required dimensions must be maintained after all finishing materials are installed.

- The appliance cover plates and convection baffles must be removed for Komfort Zone Kit installations, as shown in Figure 4.1 & Figure 4.3. KZK collars must be installed—See Figure 4.2.

4.1   Appliance Preparation for Komfort Zone Kit

Preparation Instructions

1. Remove the (16) sheet metal screws that secure the (2) cover plates at the top of the fireplace shown in Figure 4.1. Discard these two cover plates. Save the sheet metal screws for the next step.

2. Install the KZK collars that were provided with KZK-062 as shown in Figure 4.2. Reuse the sheet metal screws from the previous step.

3. Locate the (2) convection baffles as shown in Figure 4.3. There are (2) screws that secure each convection baffle. Remove the screws and convection baffles from the fireplace. Discard the screws and convection baffles.
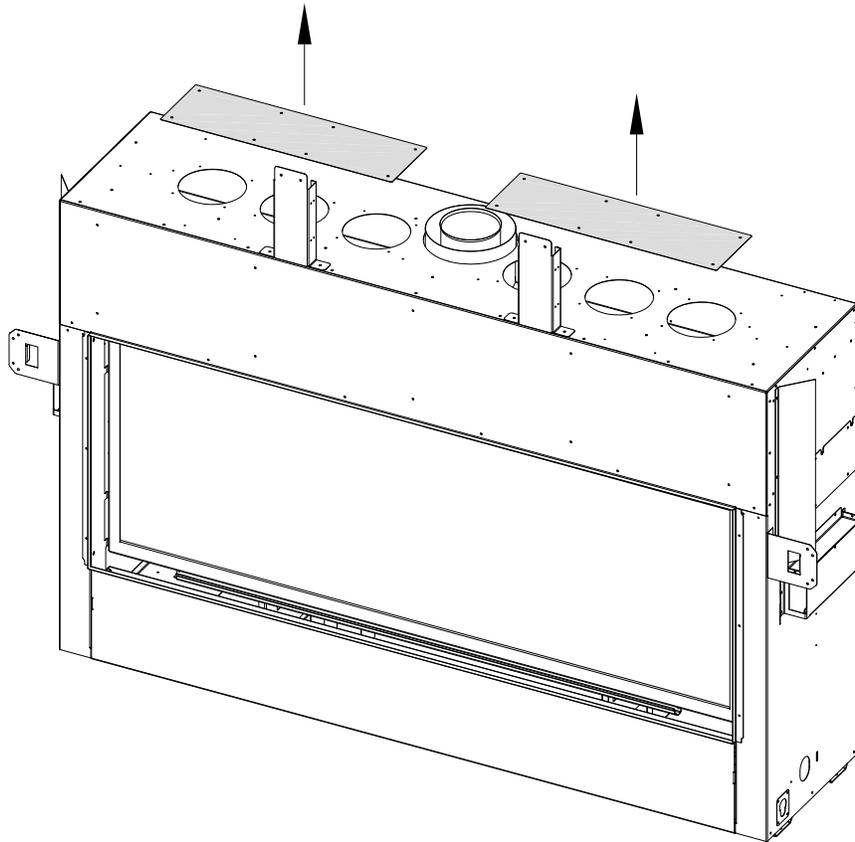

Figure 4.1 - Cover Plate Removal

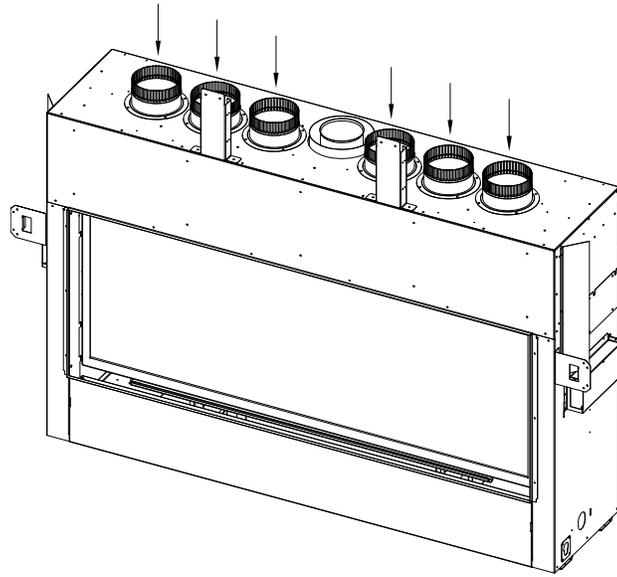## 4.1   Appliance Preparation for Komfort Zone Kit (continued)

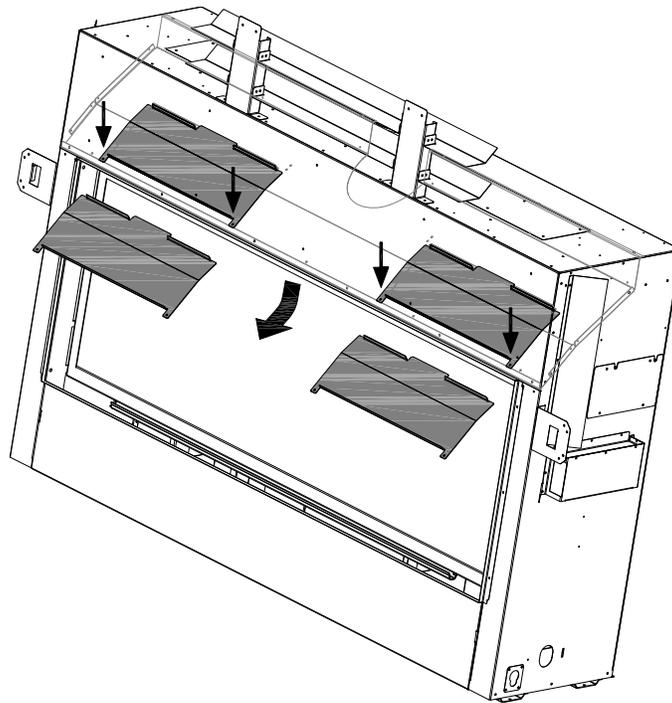Figure 4.2 - KZK Collar Installation

Figure 4.3 - Convection Baffle Removal

4.2 Appliance Preparation for Interior or Exterior Heat Transfer Kits

Note: You will have to remove the lifting handle on the side that you are installing the heat transfer kit. We recommend that the fireplace is installed in the framed opening before removing the handle.

Preparation Instructions

1. Remove the HTK cover plate on the side of the appliance and save these (4) sheet metal screws for later use.

2. Remove the lifting handle and save these (9) sheet metal screws for later use.

3. Install the HTK air chute (Part # HTK-NTL) on the appliance as shown in Figure 4.4. Use the sheet metal screws saved from the previous step and the ones provided with the air chute for installation.

4. Attach the collar on top of the air chute with the provided sheet metal screws.

Note: If you are using a HTK-EXT the damper stays in place. Make sure the damper rests on the unit and can move freely when airflow would be applied. The damper should lay flat on the fireplace as shown in Figure 4.5.

Note: If you are using the HTK-INT the damper must be removed. See Figure 4.6.
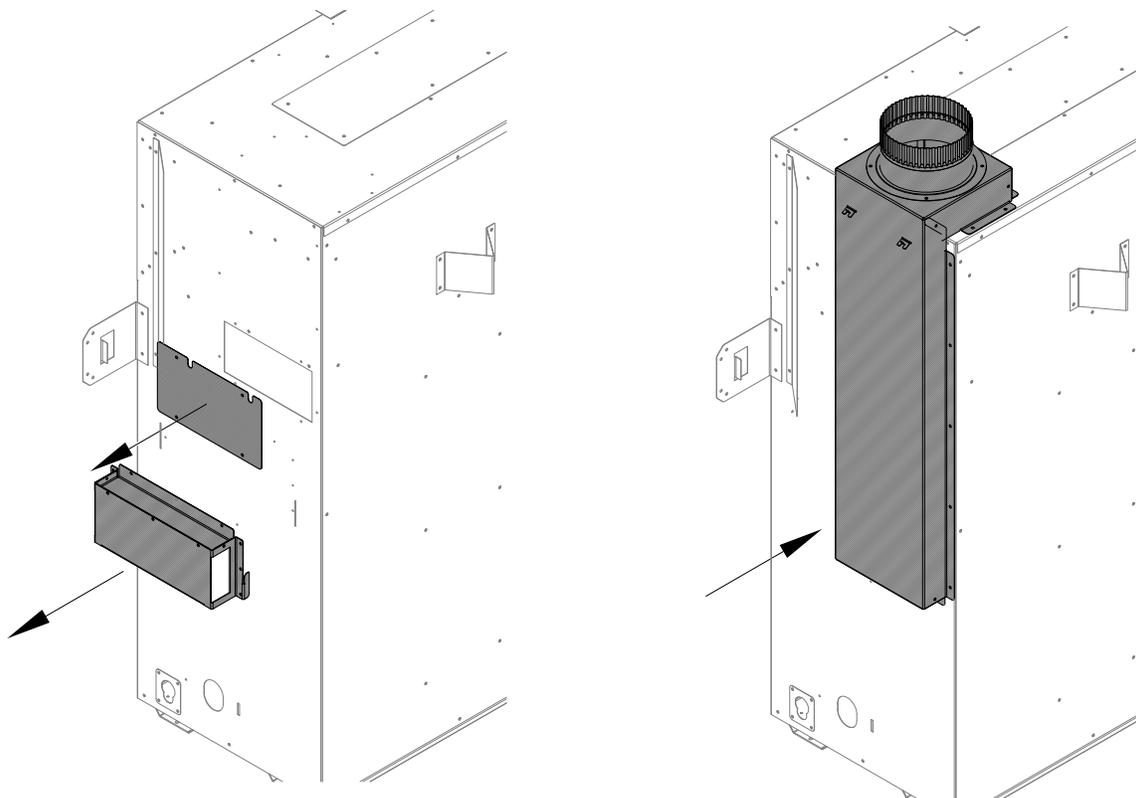

Figure 4.4 - HTK Air Chute Installation

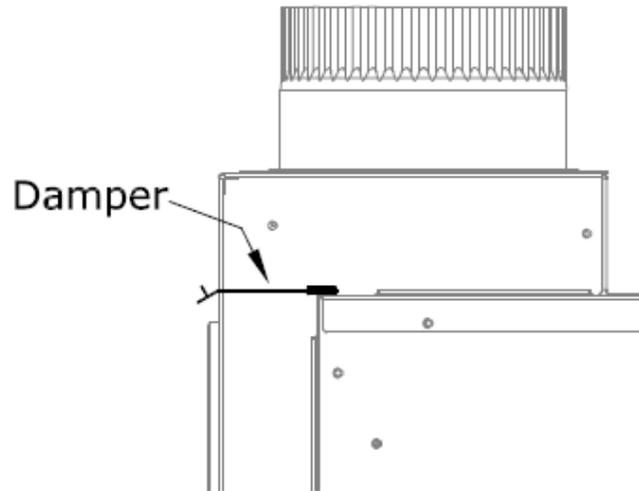## 4.2 Appliance Preparation for Interior or Exterior Heat Transfer Kits (continued)

Figure 4.5 - HTK Air Chute Damper Resting Position

Push tabs through holes to remove damper
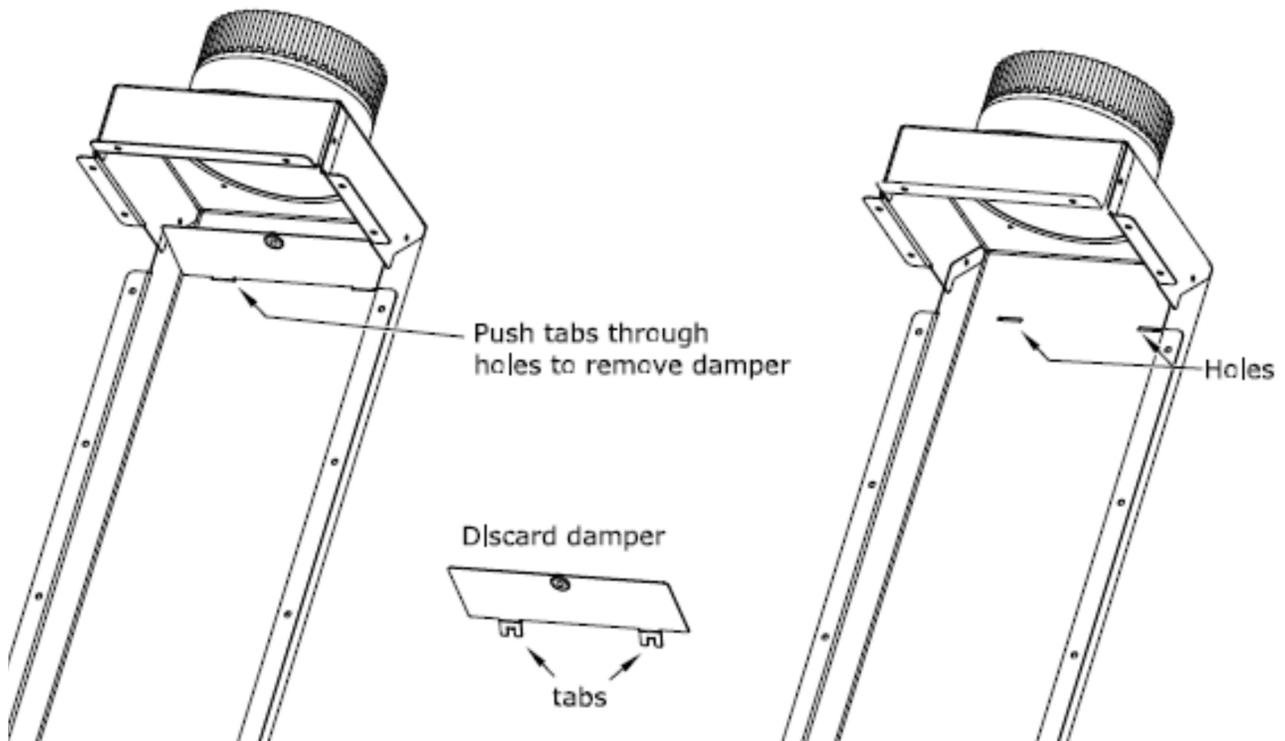
Discard damper

tabs

Holes

Figure 4.6 - HTK Air Chute Damper Removal for HTK-INT Installations

5.0 Facing and Finishing

Unless otherwise noted all clearances / images in this manual are based off of nominal 2" x 4" framing being used.

5.1 Standard Installation - Facing and Finishing Requirements

WARNING: Maintain all minimum clearances to combustibles from the appliance and vent system.

Utilizing the Kozy Power Vent system will not change mantel, hearth, sidewall, facing and finishing requirements from the standard design option.

Finishing material cannot obstruct ventilation air.

5.1.1 Combustible Hearth and Mantel Requirements

WARNING: All minimum clearances to combustible material MUST be maintained.

- Combustible Mantel Projections: As referenced in FIGURE 5.2 the 6" (152mm) mantel starts at 12" (305mm) above the top finishing edge. Mantel projections can increase 1" (25mm) of depth for every 1" (25mm) of height starting at the 6" (152mm) mantel.

- Combustible Hearth: Combustible hearth can have an unlimited projection. Hearth can be raised 0" (0mm) to the bottom finishing edge.

- Mantel Leg: Follow "Combustible Sidewall Clearance" below. See Figure 5.3.

- Combustible Sidewall Clearance: the adjacent sidewall projection is unlimited and is allowed at 0" (0mm) from the side finishing edge of the fireplace. See Figure 5.3.

5.1.2 Non-combustible Mantel or Surround Requirements

- Non-combustible Mantel Projections: As referenced in Figure 5.4, the maximum 8" projection of a 8" (203mm) non-combustible mantel can be installed at 0" (0mm) from the top fireplace finishing edge. Follow projection 1" (25mm) up for every 1" (25mm) deeper.

- Non-combustible Surround (top and sides of fireplace opening): As referenced in Figure 5.5, the maximum projection of a 8" (203mm) non-combustible surround can be installed at 0" (0mm) from the side and top finishing edge of the fireplace.

5.1.3 Non-Combustible Zone

- See Figure 5.6, Non-Combustible Finishing Zone for the minimum requirement of non-combustible finishing material.

- Paper faced gypsum board, commonly known as drywall; including Type X Fire Rated board is not a non-combustible material. This material is not approved for use as a non-combustible material around the fireplace.

- WonderBoard brand boards are commonly used as a backerboard for tile. WonderBoard backerboard is not a non-combustible material and is not approved for use in the non-combustible material is required around the fireplace.

- Non-combustible facing and finishing materials must meet ASTM E 136.

5.1.4 Finishing Recommendations

NOTE: The surface area above the appliance may be affected by high temperatures emitted from this appliance. To help avoid or reduce the possibility of the sheetrock to crack, Hussong Mfg. recommends the following methods:

- Ensure the non-combustible material and sheetrock is dry and dust free.

- For taping and mudding seams, we recommend heat resilient tape, mesh and joint compounds, such as Durabond. Mud must be cured as per manufacturers recommendations.

- For a painted surface, use a high quality acrylic latex primer and finish coat. Avoid flat or light-colored paints to prevent discoloring.

Disclaimer: Kozy Heat does not guarantee any materials used around the fireplace. Kozy Heat disclaims any and all liability for any damage to finishing materials including warping, discoloring, cracking, peeling or flaking. This also includes any off-gassing or unpleasant smells from materials when they are heated.

5.1.5 Recommended Installation of Marble and other stone materials

Kozy Heat recommends the following statements when using marble, granite, or other stone finishing materials

- Never use a one-piece marble, granite or natural stone that is cut in a U-shape for finishing material to cover the sides and top areas around the fireplace opening.

- If you use a one piece U-shaped piece of marble, or stone finishing material the material is susceptible to cracking due to thermal expansion

- Refer to the manufacturer and supplier of your finishing material for use in high heat applications like around a fireplace. Ensure the material can be exposed to temperatures greater than 160°F. Kozy Heat does not assume any liability for discoloring, cracking, or other heat related damage.
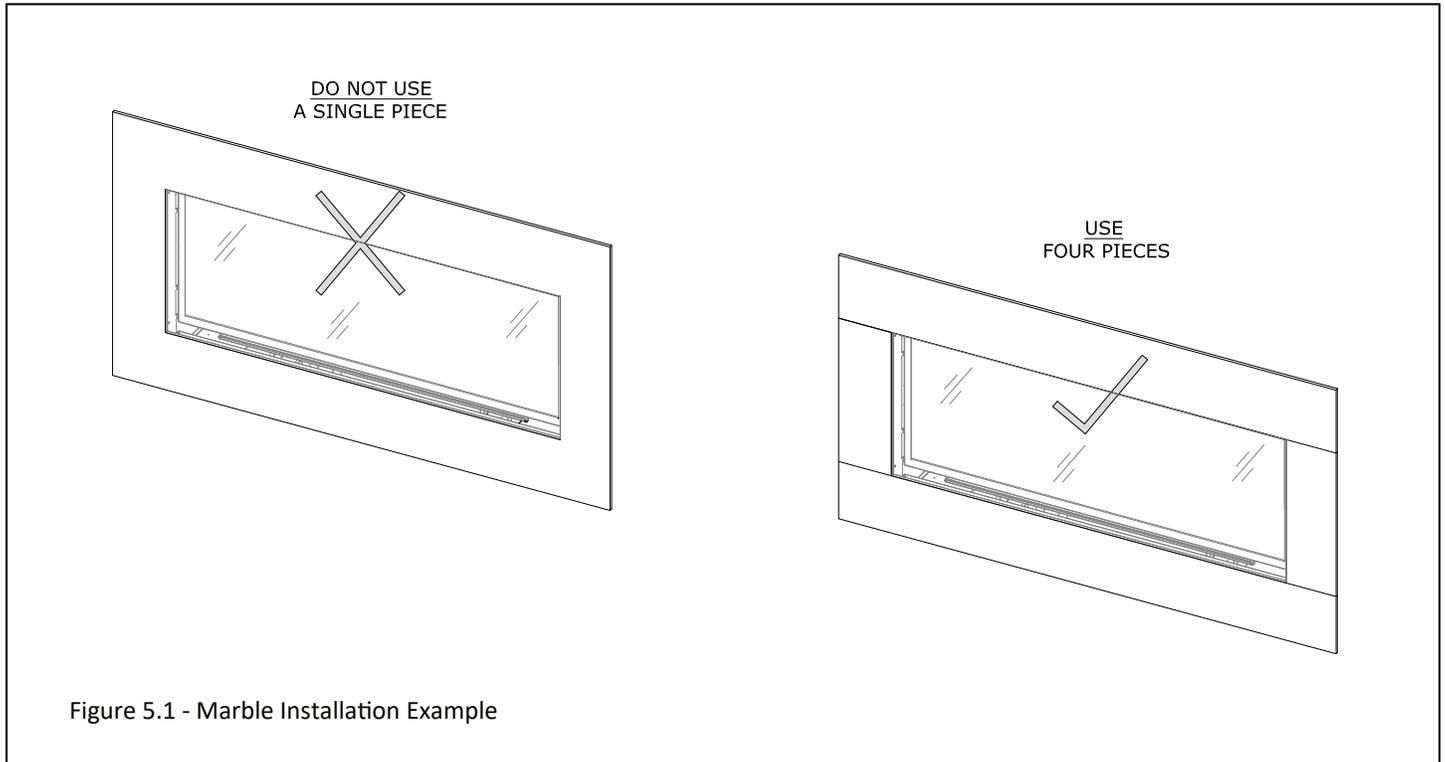

Figure 5.1 - Marble Installation Example

5.1.1 Combustible Hearth and Mantel Requirements (continued)

Figure 5.2 shows a 6" (152mm) combustible mantel projection starting 12" (305mm) up from the top finishing edge of the fireplace. The dimensions shown are allowed in standard installation scenario. Mantel projections can increase 1" (25mm) of depth for every 1" (25mm) of height starting at the 6" (152mm) mantel. A combustible hearth is allowed with unlimited projection starting at 0" (0mm) from the bottom finishing edge of the fireplace.
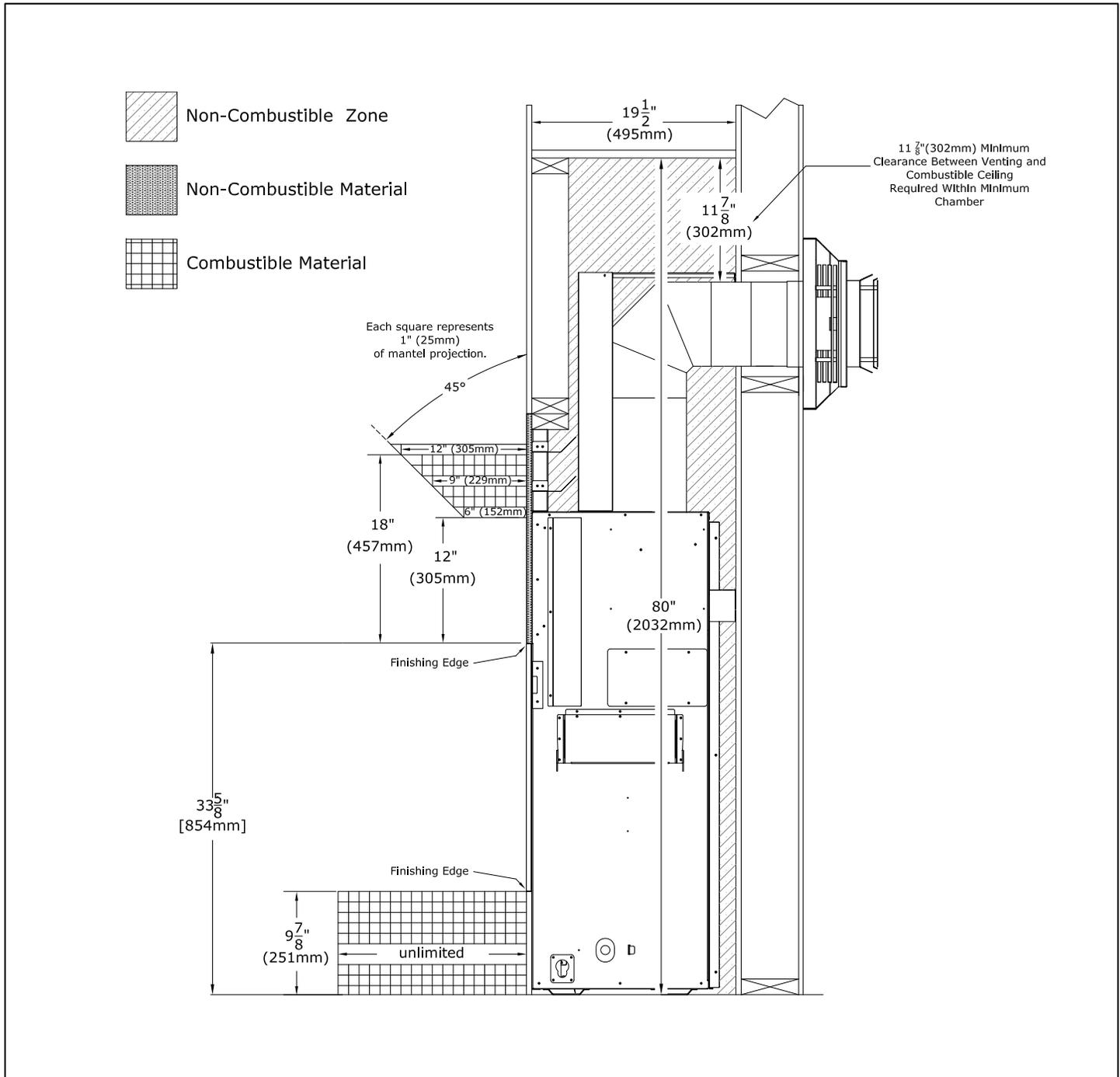

Figure 5.2 - Combustible Mantel Projections - Standard Installation

5.1.1 Combustible Hearth and Mantel Requirements (continued)

Figure 5.3 shows a combustible sidewall at 0" (0mm) from the side finishing edge of the fireplace. The combustible sidewall is allowed to be unlimited. If you are using the optional NK60TL-RS Rectangle Surround (Section 8.5) provide the necessary clearance of 3/4" (19mm) to sidewall.
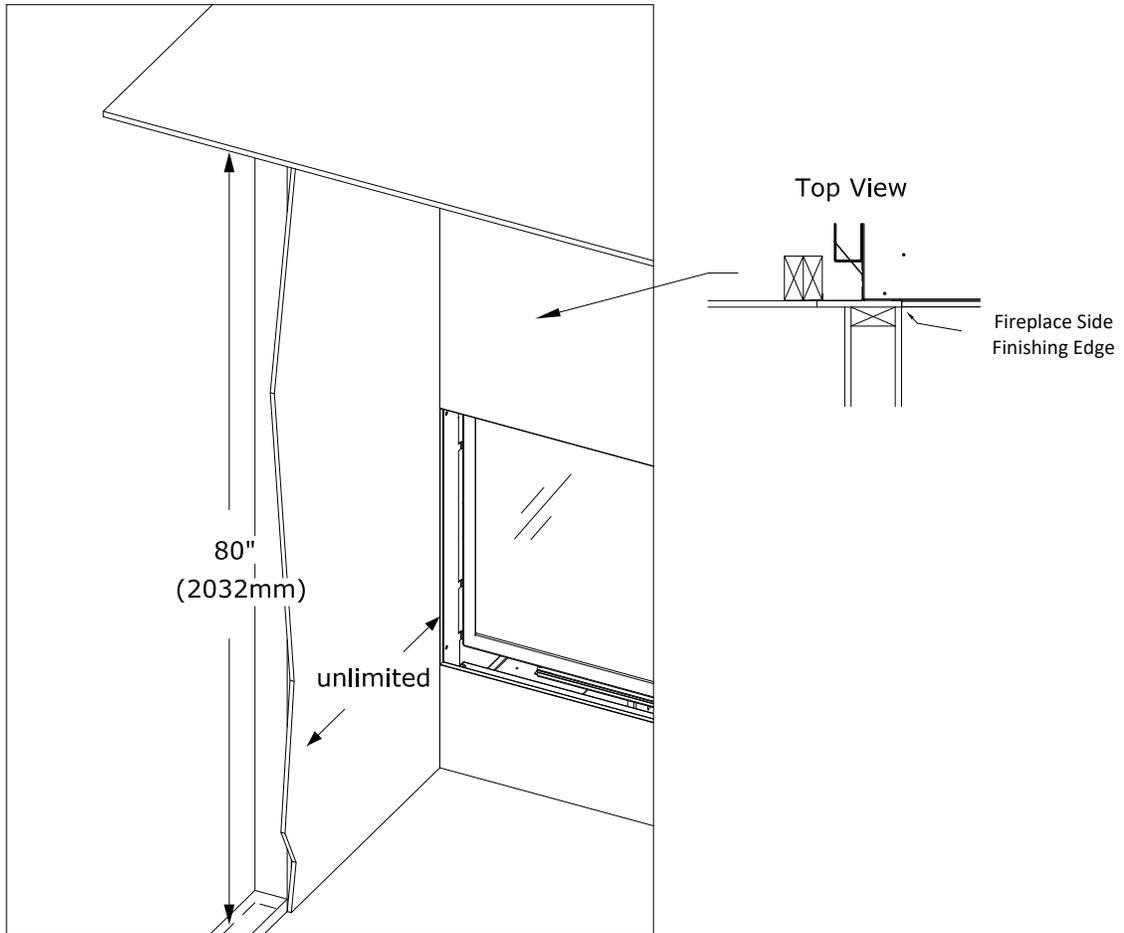

Figure 5.3 - Combustible Sidewall Projection

5.1.2 Non-combustible Mantel or Surround Requirements (continued)

Figure 5.4 shows a 8" (203mm) non-combustible mantel projection flush with the top finishing edge of the fireplace. The dimensions shown are allowed in the standard installation scenario. Mantel projections can increase 1" (25mm) of depth for every 1" (25mm) of height starting at the 8" (203mm) mantel. A combustible hearth is allowed with unlimited projection starting flush at the bottom finishing edge of the fireplace.
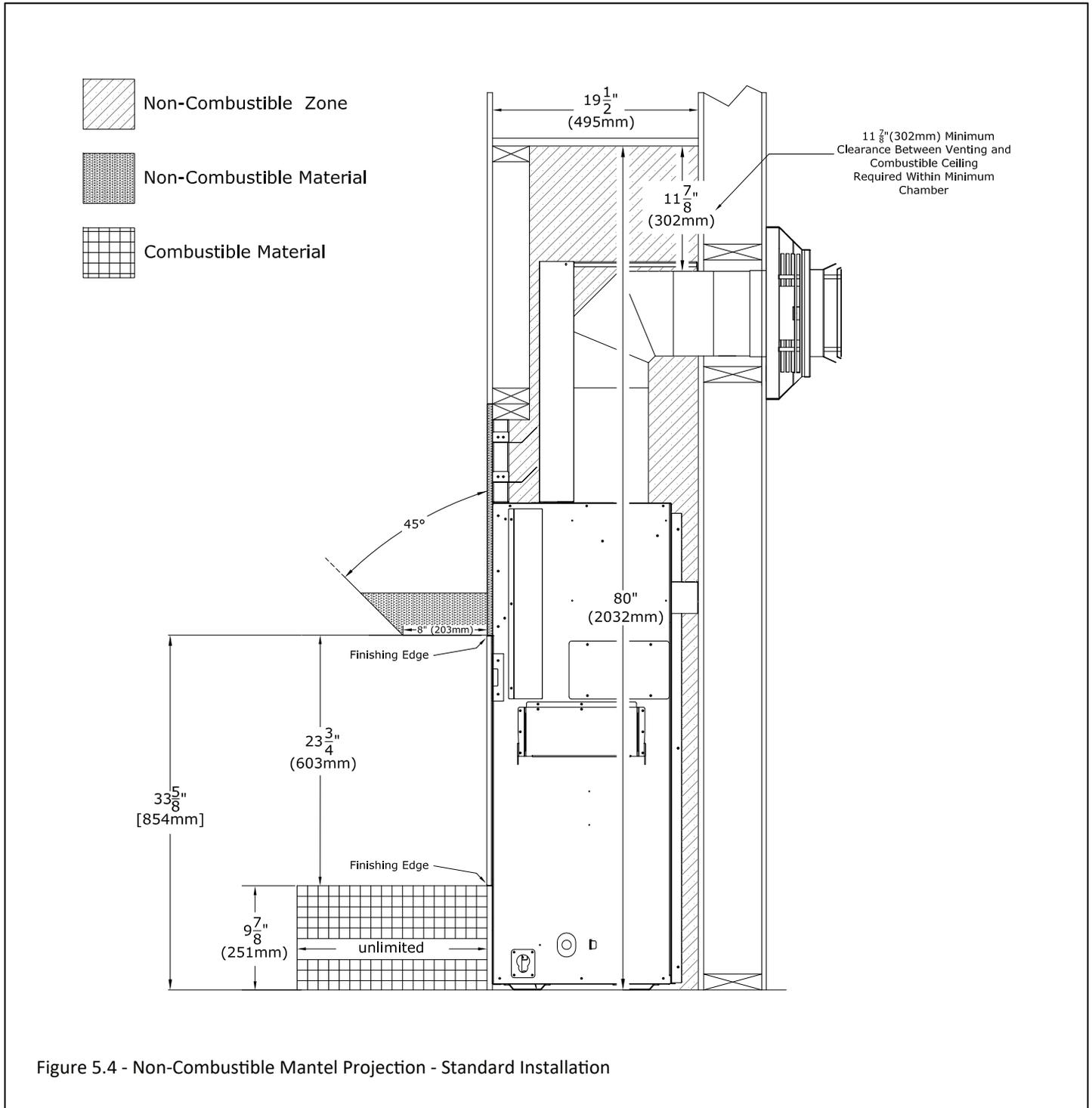
Figure 5.4 - Non-Combustible Mantel Projection - Standard Installation

5.1.2 Non-combustible Mantel or Surround Requirements (continued)

Figure 5.5 shows that a maximum of a 8" non-combustible surround is allowed 0" (0mm) from the fireplace finishing edge. The horizontal and vertical dimensions of the surround are unlimited. Figure 5.5 shows the allowance of an unlimited hearth extension.

Top View

8" MAX
(203mm)

Fireplace Side
Finishing Edge

unlimited

unlimited

unlimited

unlimited

Side View

8" MAX
(203mm)

Fireplace Side
Finishing Edge

Figure 5.5 - Non-Combustible Surround Projection

5.1.3 Non-Combustible Zone (continued)
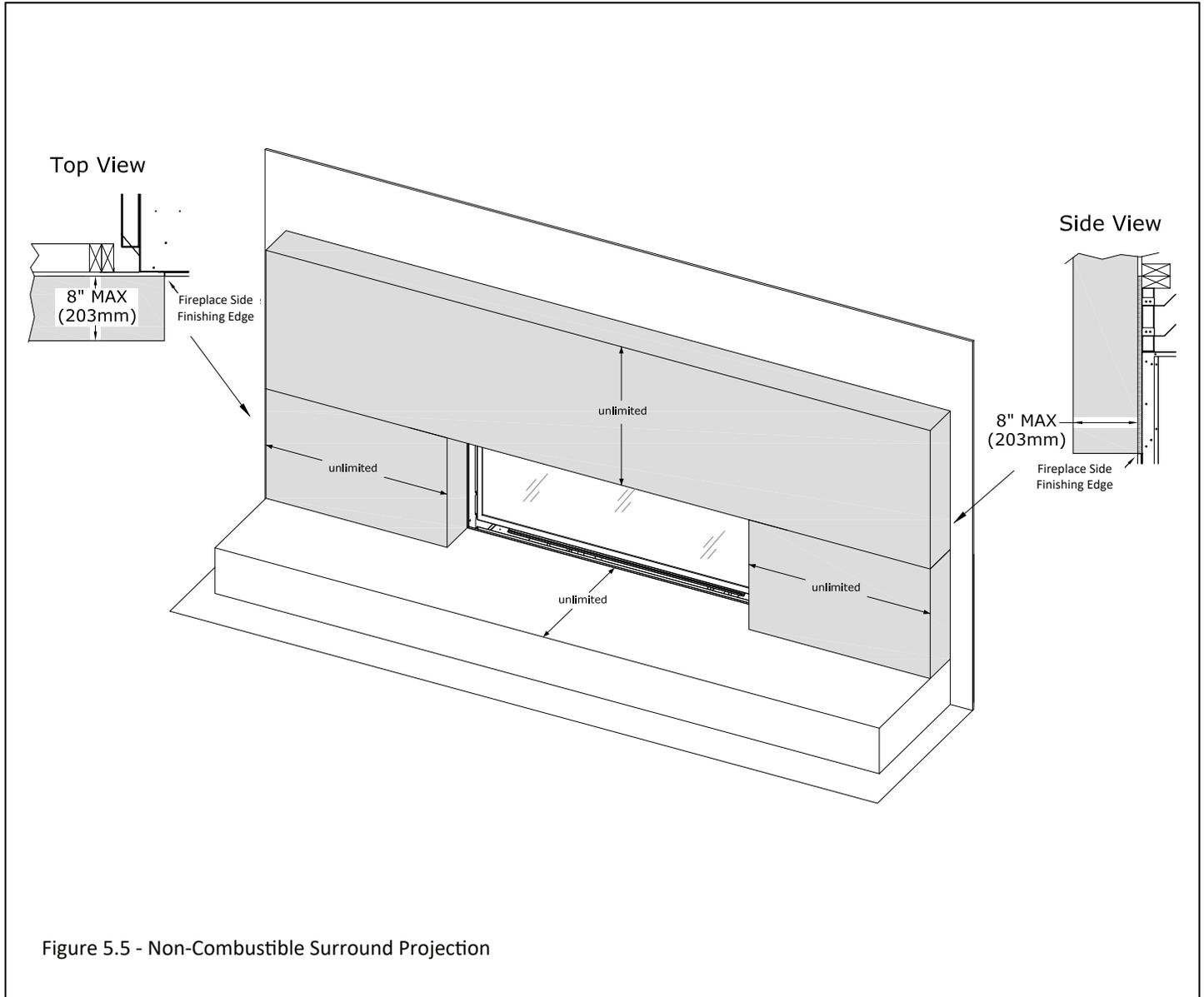
The top image in Figure 5.6 shows the minimum non-combustible facing and finishing material requirements. The bottom image in Figure 5.6 shows the areas where screws are not allowed.
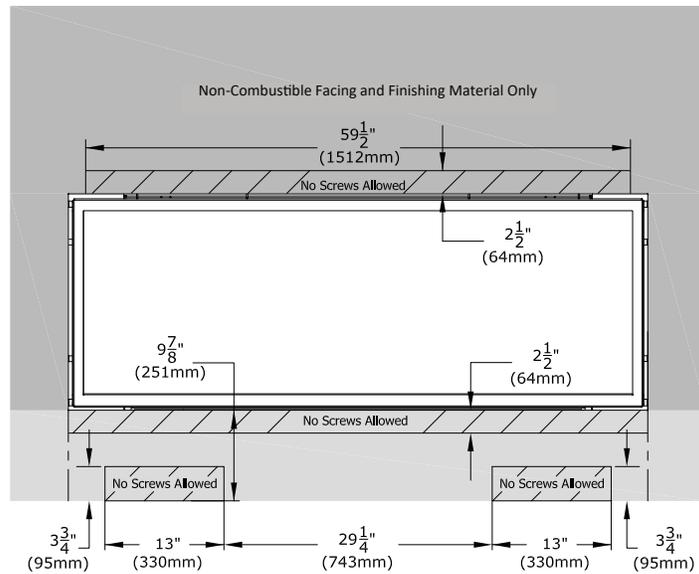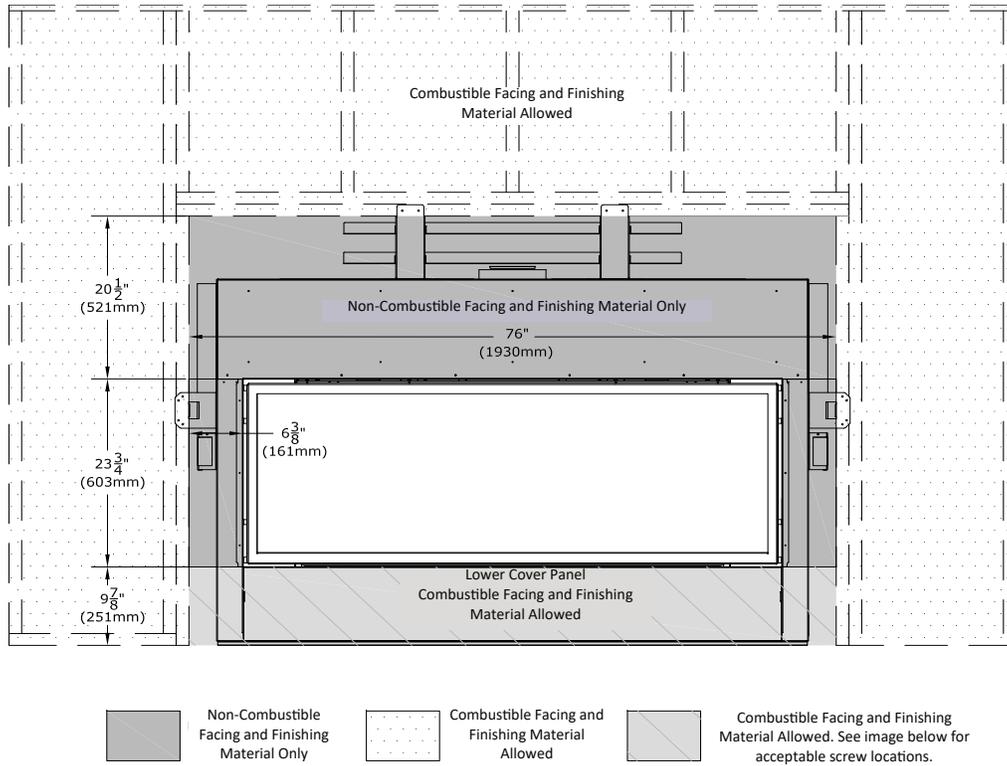

Figure 5.6 - Non-Combustible Facing and Finishing Material Requirements

6.0   Gas Line Connection

6.1   Gas Conversion

Note: Stepper Motor sold separately to complete gas conversion

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

This fireplace is manufactured for use with natural gas. Follow the instructions included with the conversion kit if converting to propane.

6.2   Gas Line Installation

CAUTION: Installation of the gas line must only be done by a qualified person in accordance with local building codes, if any. If not, follow ANSI 223.1. Commonwealth of Massachusetts installations must be done by a licensed plumber or gas fitter.

NOTE: The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at pressures in excess of ½ psi (3.5 kPa). For test pressures equal to or less than ½ psi (3.5 kPa), the appliance must be isolated from the gas supply piping system by closing its individual manual shut-off valve.

- A listed (and Commonwealth of Massachusetts approved) ½" (13mm) tee handle manual shut-off valve and flexible gas connector are to be connected to the ½"(13mm) control valve inlet. If substituting for these components, please consult local codes for compliance.

- This fireplace is equipped with a 3/8" (10mm) x 18" (457mm) long flexible gas connector and manual shut-off valve.

- Do not run gas line in a manner that would obstruct fan operation.

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

- Run gas line into fireplace through gas line hole provided. See Figure 2.2, Appliance Dimensions for gas line access.

Table 6.1 - Inlet Gas Supply Pressures		
	Natural Gas	Propane
Minimum Pressure	5" WC (1.25 kPa) 7" WC (1.74 kPa)** Recommended	11" WC (2.74 kPa)
Maximum Pressure	10" WC (2.49 kPa)	13" WC (3.24 kPa)

7.0   Vent System Requirements and Information

NOTE: Consult the local and national installation codes to assure adequate combustion and ventilation air is available. Venting requirements apply to both natural gas and propane.

Flame height and appearance will vary depending upon venting configuration and the type of fuel used.
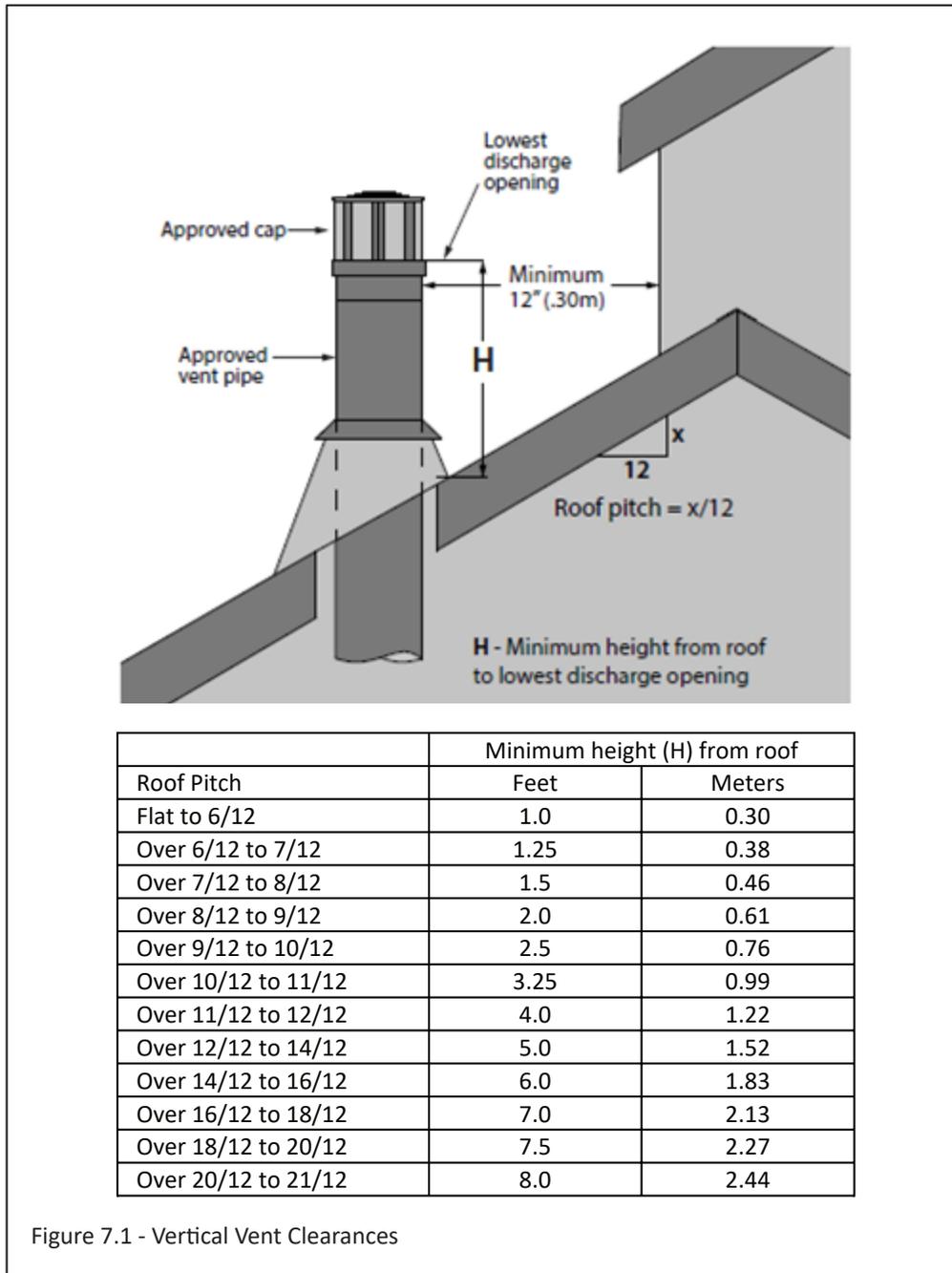
See Section 3.9, Vent Termination Framing for more information.

7.1   Vertical Vent Cap Termination

WARNING: This gas appliance must not be connected to a chimney flue serving a separate solid-fuel burning appliance.

Note: Natural Draft Applications only.

- Refer to Figure 7.1 below for vertical vent terminations clearances.

Figure 7.1 - Vertical Vent Clearances

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

7.2 Minimum Vent Termination Clearances

- Refer to Figure 7.2 and the Table 7.1 for natural draft vent termination clearance locations.

- If you are installing a power vent system on this fireplace refer to the #KPV manual for vent information.

Figure 7.2 - Termination Clearances
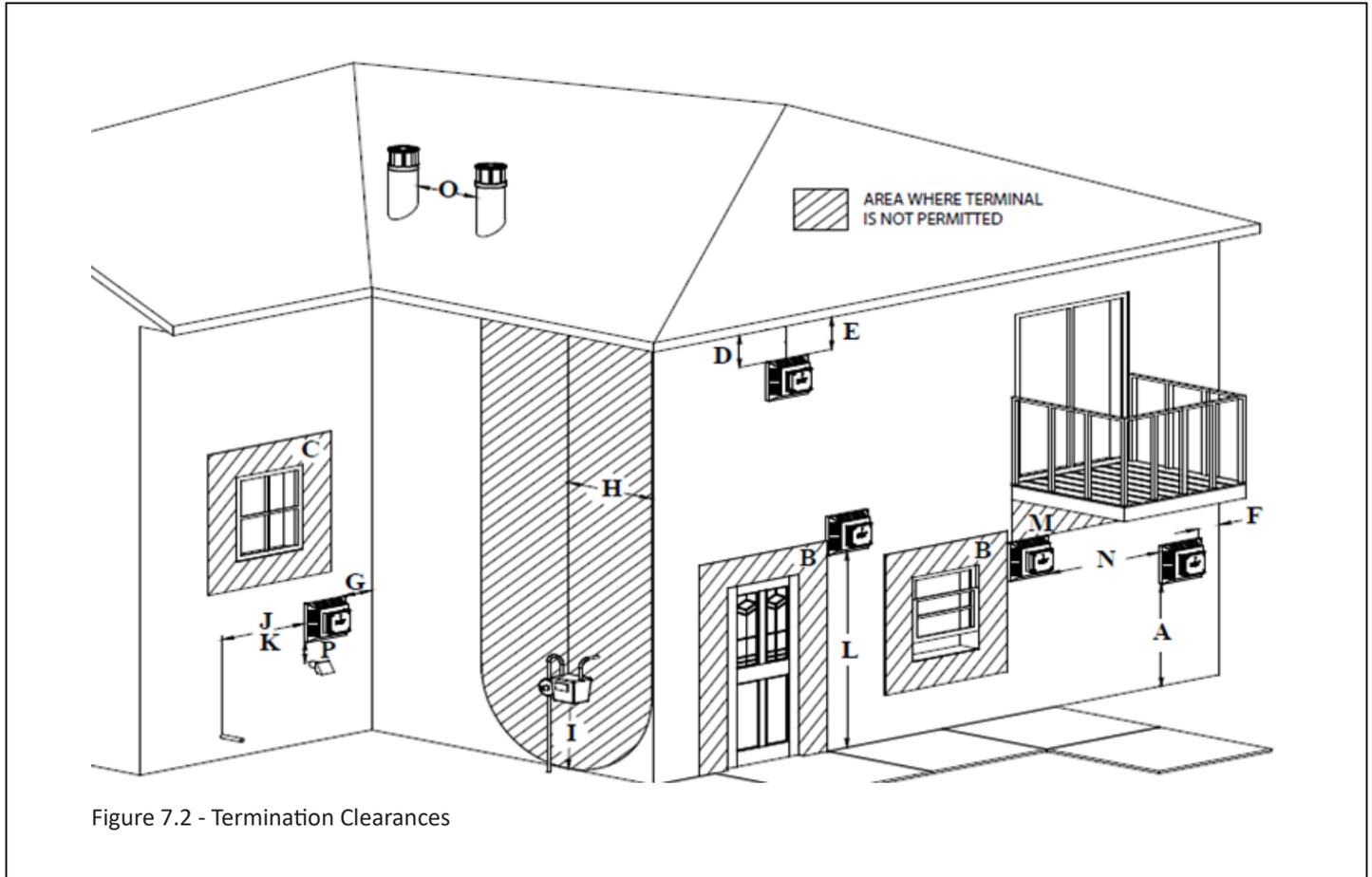
Vinyl & PVC Siding Recommendations

- Vinyl and PVC siding is likely to bend, buckle, and deform due to heat reflecting from a fireplace horizontal termination cap.

- Please refer to vent manufacturer for information regarding vinyl siding protectors.

- Kozy Heat assumes no responsibility or liability for damages caused to vinyl or PVC siding in this type of installation.

	Table 7.1	Canadian Installations	US Installations
A	Clearance above grade, veranda, porch, deck, or balcony.	12" (30cm)	12" (30cm)
B	Clearance to window or door that may be opened.	12" (30cm)	9" (23cm)
C	Clearance to permanently closed window (recommended to prevent condensation on window).	12" (30cm)*	12" (30cm)*
D	Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 feet (61cm) from the edge of the terminal.	24" (61cm)*	24" (61cm)*
E	Clearance to unventilated soffit.	12" (30cm)*	12" (30cm)*
F	Clearance to outside corner.	0" (0cm)*	0" (0cm)*
G	Clearance to inside corner.	3" (8cm)*	3" (8cm)
H	Clearance to each side of center line extended above meter / regulator assembly.	3' (91cm) within a height 15' (4.5m) above the meter/regulator assembly	*
I	Clearance to service regulator vent outlet.	3' (91cm)	*
J	Clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance.	12" (30cm)	9" (23cm)
K	Clearance to mechanical air supply inlet.	6' (1.83m)	3' (91cm) above**
L	Clearance above paved sidewalk or paved driveway located on public property	7' (2.13m)†	*
M	Clearance under veranda, porch deck, or balcony.	12" (30cm)‡	12" (30cm)
N	Clearance between two horizontal terminations.	12" (30cm)	12" (30cm)
O	Clearance between two vertical terminations (may be the same height)	12" (30cm)	12" (30cm)
P	Above furnace exhaust or inlet	12" (30cm)	12" (30cm)

*Clearance in accordance with local installation codes and the requirements of the gas supplier.

**Massachusetts: 10' (3m) above] if within 10' (3m) horizontally

†A vent shall not terminate directly above a sidewalk or paved driveway that is located between two single family dwellings and serves both dwellings.

‡Permitted only if veranda, porch, desk, or balcony if fully open on a minimum of two sides beneath the floor.

VINYL SOFFIT, VINYL CEILING, AND VINYL OVERHANG DISCLAIMER: Clearances to heat resistant materials (i.e. wood, metal). This does not include vinyl. Hussong Manufacturing Co., Inc. Will not be held responsible for heat damage caused from terminating under vinyl overhangs, vinyl ceilings, or vinyl ventilated / unventilated soffits.

7.3 Venting Requirements

NOTE: Consult the local and national installation codes to assure adequate combustion and ventilation air is available. Venting requirements apply to both natural gas and propane.

- Flame height and appearance will vary depending upon venting configuration and the type of fuel used.
- Provide a means for visually checking the vent connection to the appliance after the fireplace is installed.
- The provided vent heat shield is required to be installed in all venting scenarios. See Figure 3.7.
- The gas appliance cannot be connected to a chimney flue that is serving a separate solid-fuel burning appliance.
- Horizontal vent sections require at least 1/4" (6mm) rise for every 12" (305mm) of travel.

7.4 Vent Pipe Restriction (Before Vent System Installation)

- Burner flame appearance and characteristics are affected by altitude, fuel quality, venting configuration, and other factors. To achieve desirable flame appearance, the vent exhaust may be restricted by the restrictor plate (included in components packet).
- The restrictor plate is shipped with all inner rings intact, and when installed, provides the most vent restriction. There are (2) inner rings that can be knocked out. As you knock out and remove an inner ring you have less vent restriction whereas removing both inner rings you will have the least amount of vent restriction.
- Follow Figure 7.3 for restrictor plate installation before attaching venting. For vent restriction plate recommendations and adjustments, see section 11.2.3, Vent Restriction (after installation).

7.5 Use of Flexible Venting Outside the Appliance Enclosure

- If an approved venting manufacturer offers flexible venting options that can replace rigid vent pipe follow the vent manufacturer's instructions.
- Flexible vent pipe can only be used outside of the appliance enclosure.
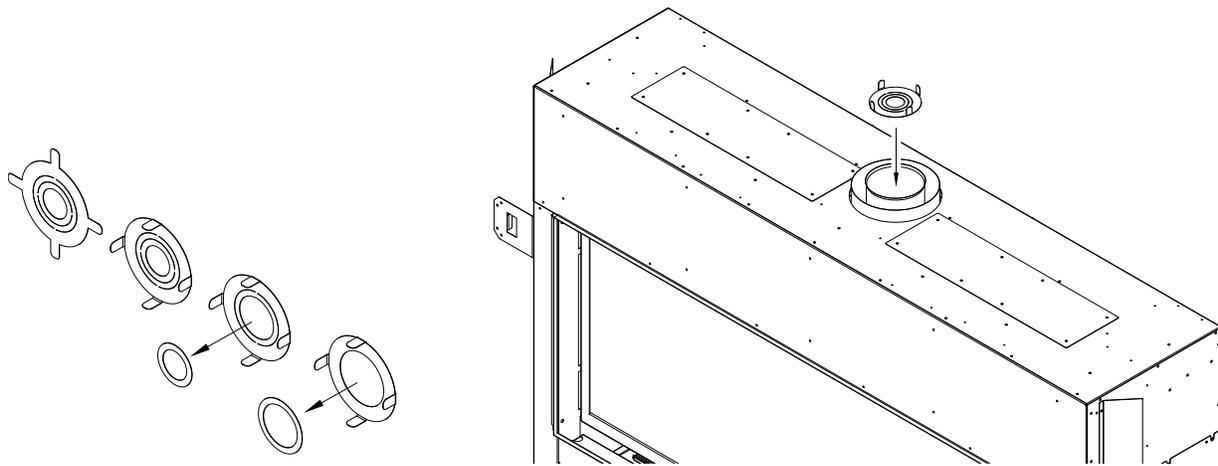- Flexible vent pipe cannot be used to terminate the vent system horizontally or vertically.

Figure 7.3 - Restrictor Plate Installation

7.6 Approved Vent Systems

This appliance is equipped for use with a 5" (127mm) exhaust by 8" (203mm) air intake co-axial vent pipe system.

This appliance is approved for use with Kozy Heat Power Vent System #KPV (sold separately). Power Vent configurations and requirements are located in the #KPV manual.

This appliance is approved for use with manufacturers (horizontal and vertical terminations): American Metal Products (Ameri-Vent), BDM, ICC, Metal Fab., Selkirk, and Simpson DuraVent. See sections 7.6.1 and 7.6.2.

This appliance can be adapted to use 4" diameter aluminum flexible pipe by any listed vent manufacturer when used in combination with an existing minimum 7" ID Class A metal/masonry chimney. Refer to section 7.8 for more information.

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

7.6.1 Approved 5" x 8" Vent Systems

Table 7.2 - Approved 5"x8" Vent Systems	
Vent Manufacturer	Vent Cap Part Number
American Metal Products (Ameri-Vent)	5DHCS 5DHC 5DVC 5D36S
BDM	DVR8-HCP DVR8-HC DVR8-VCLP DVR8-SNK14 DVR8-SNK36
Simpson Duravent	58DVA-HC 58DVA-HRCS 58DVA-HSCH 58DVA-VCH 58DVA-VC 58DVA-VCS
ICC	TM-5HT TM-5RHT TM-5ST36

Table 7.2 - Approved 5"x8" Vent Systems (continued)	
Metal Fab	5DHT 5DST14 5DST36
Selkirk	5DT-HC 5DT-VT 5DT-VC

7.6.2 Approved 4" x 6 - 5/8" Vent Systems

This appliance may be reduced from a 5" x 8" to a 4" x 6-5/8" vent system. Refer to the vent pipe manufacturer's installation manual for more information. See Figure 7.5.

Note: Reduced 4" x 6-5/8" venting is only approved for vertical terminations with the exclusion of the #KPV Power Vent Termination.

Table 7.3 - Approved 4"x6-5/8" Vent Systems	
Vent Manufacturer	Vent Cap Part Number
American Metal Products (Ameri-Vent)	4DVC
BDM	DVR6-VCLP
Kozy Heat	KPV
Simpson Duravent	46DVA-VCH 46DVA-VC 46DVA-VCE
Selkirk	4DT-VT 4DT-VC

7.7 Natural Draft Co-Axial Pipe Installations

7.7.1 Vertical Terminations

Note: Natural Gas and Propane Installations

(i)   Minimum / Maximum Vertical Terminations:
3' (914mm) minimum vertical length / 50' (15.24m) maximum vertical length + termination cap

(ii)   Minimum / Maximum Vertical Terminations with Reducer*:
4" x 6-5/8" reducer + 3' (914mm) minimum vertical length / 50' (15.24m) maximum vertical length + termination cap

* To use any 45° elbow for vertical terminations with a reducer, the total minimum vertical vent run must be 10' (3.05m). A total of (4) 45° elbows may be used. No 90° elbows are allowed. For every 45° elbow used, 18" (457mm) must be subtracted from maximum venting allowed.
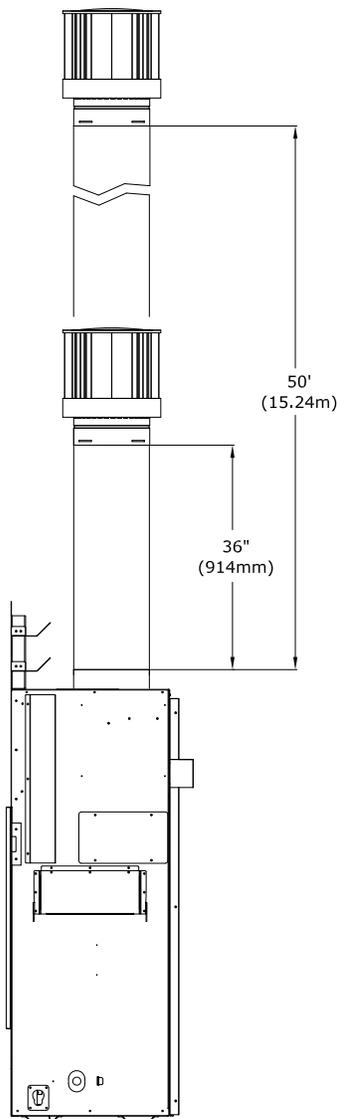

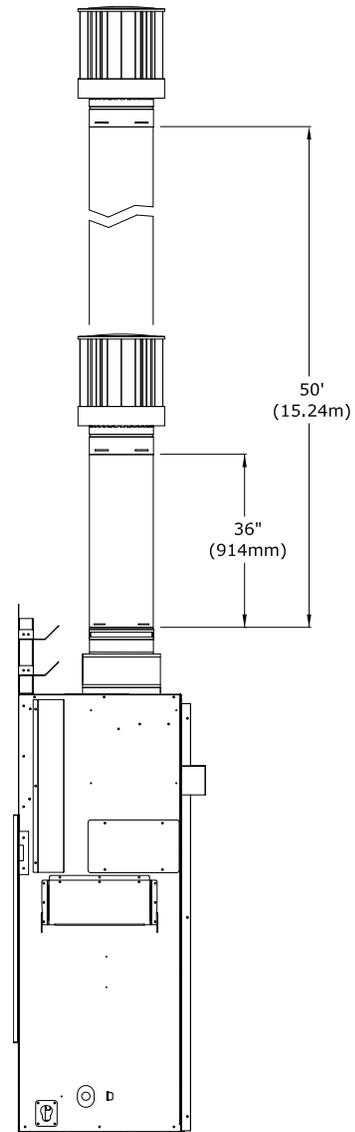Figure 7.4 - 5"x8" Vertical Vent Pipe

Figure 7.5 - 4"x6-5/8" Vertical Vent Pipe

7.7.2 Horizontal Terminations

Note: Natural Gas and Propane Installations

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

(i)   Minimum 12" Vertical Vent Pipe/ Minimum Horizontal:

12" (304mm) vertical vent pipe + 90° horizontal elbow + termination cap

(i)   Minimum 12" Vertical Vent Pipe / Maximum Horizontal:

12" (304mm) vertical vent pipe + 90° horizontal elbow + 24" (610mm) horizontal vent pipe + termination cap

(ii)   Minimum 24" Vertical Vent Pipe / Minimum Horizontal:

24" (610mm) vertical vent pipe + 90° horizontal elbow + termination cap

(ii)   Minimum 24" Vertical Vent Pipe / Maximum Horizontal:
24" (610mm) vertical vent pipe + 90° horizontal elbow + 8' (2.44m) horizontal vent pipe + termination cap

(iii)   Minimum 36" Vertical Vent Pipe / Minimum Horizontal:

36" (914mm) vertical vent pipe + 90° horizontal elbow + termination cap

(iii)   Minimum 36" Vertical Vent Pipe / Maximum Horizontal:

36" (914mm) vertical vent pipe + 90° horizontal elbow + 12' (3.66m) horizontal vent pipe + termination cap

(iv)   Maximum 25' Vertical Vent Pipe / Minimum Horizontal:

25' (7.62m) maximum vertical vent pipe + 90° horizontal elbow + termination cap

(iv)   Maximum 25' Vertical Vent Pipe / Maximum Horizontal:

25' (7.62m) maximum vertical vent pipe + 90° horizontal elbow + 25' (7.62m) horizontal vent pipe + termination cap
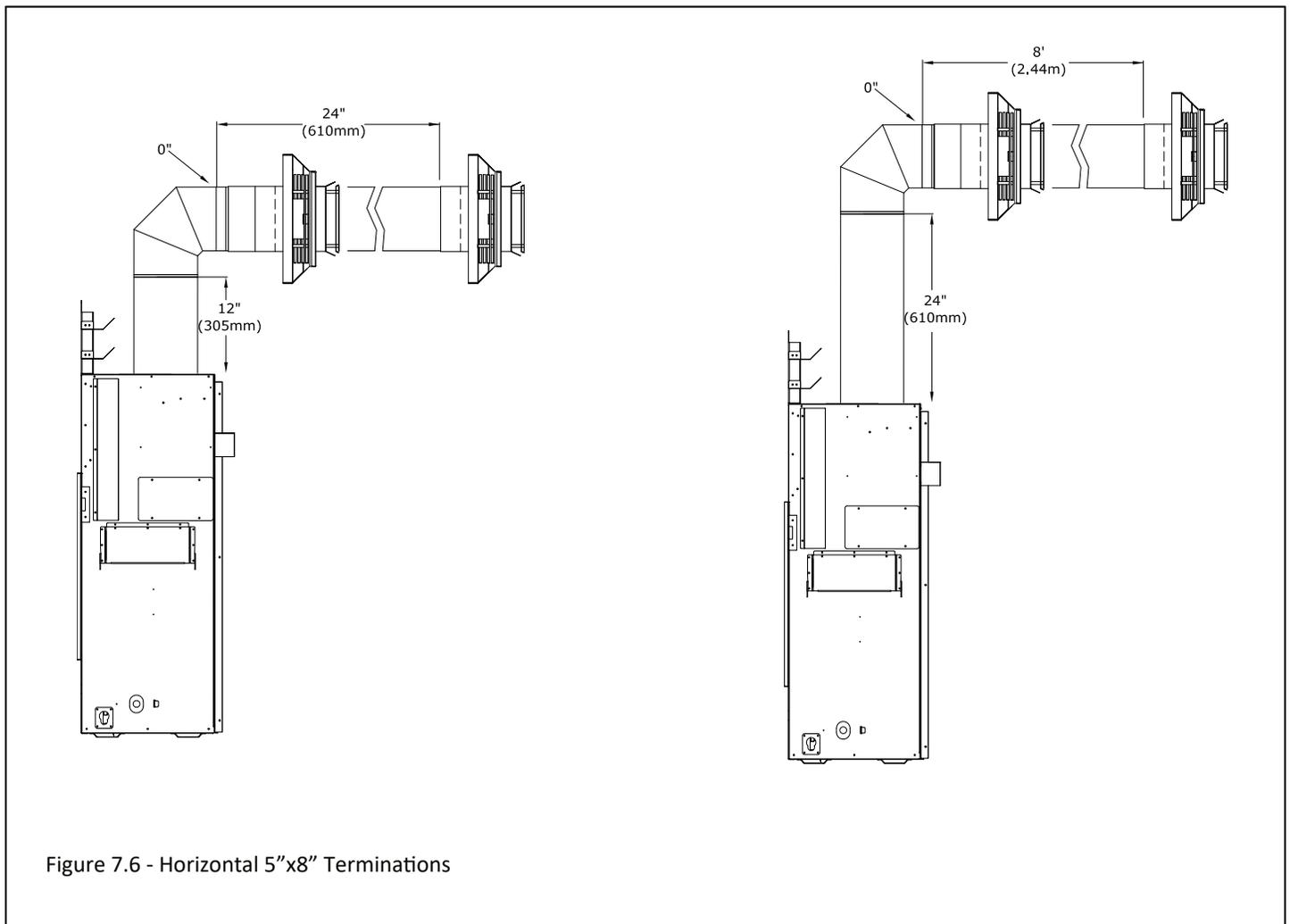

Figure 7.6 - Horizontal 5"x8" Terminations
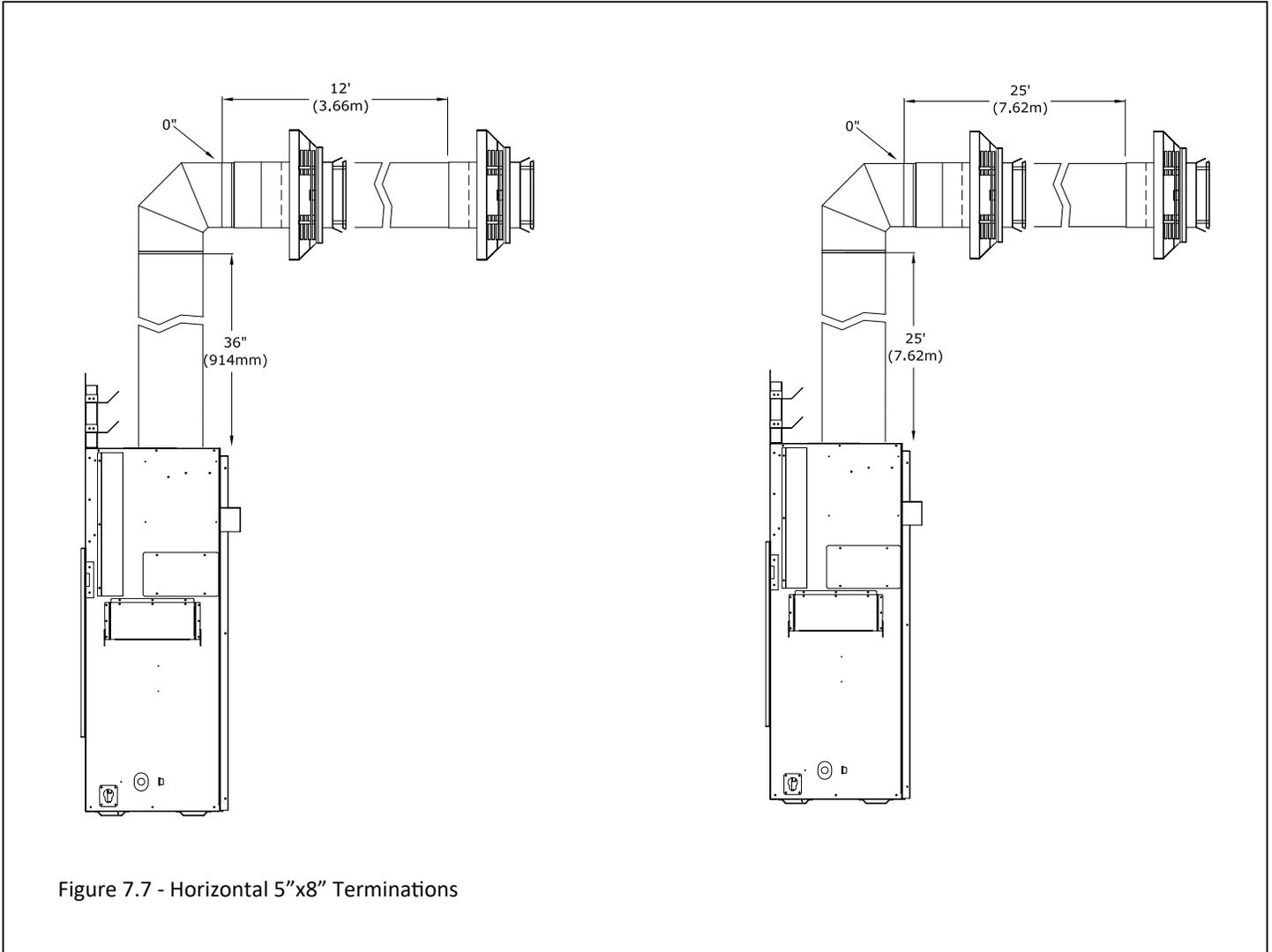
7.7.2   Horizontal Terminations (continued)

Figure 7.7 - Horizontal 5"x8" Terminations

7.7.3 Combination Venting

Note: Natural Gas and Propane Installations

Vent termination must be within the shaded area in Figure 7.8.

Section 7.7.3 only applies to 5" x 8" venting.

- 25' (7.62m) maximum vertical rise + 25' (7.62m) maximum horizontal run = 50' (15.2m) of total length

- Maximum of (5) 90° elbows. For each additional 90° elbow used after the first elbow, 3' (914mm) must be subtracted from maximum venting allowed.

- (2) 45° degree elbows may be used in place of (1) 90° elbow. For each 45° elbow used, 18" (457mm) must be subtracted from maximum venting allowed.
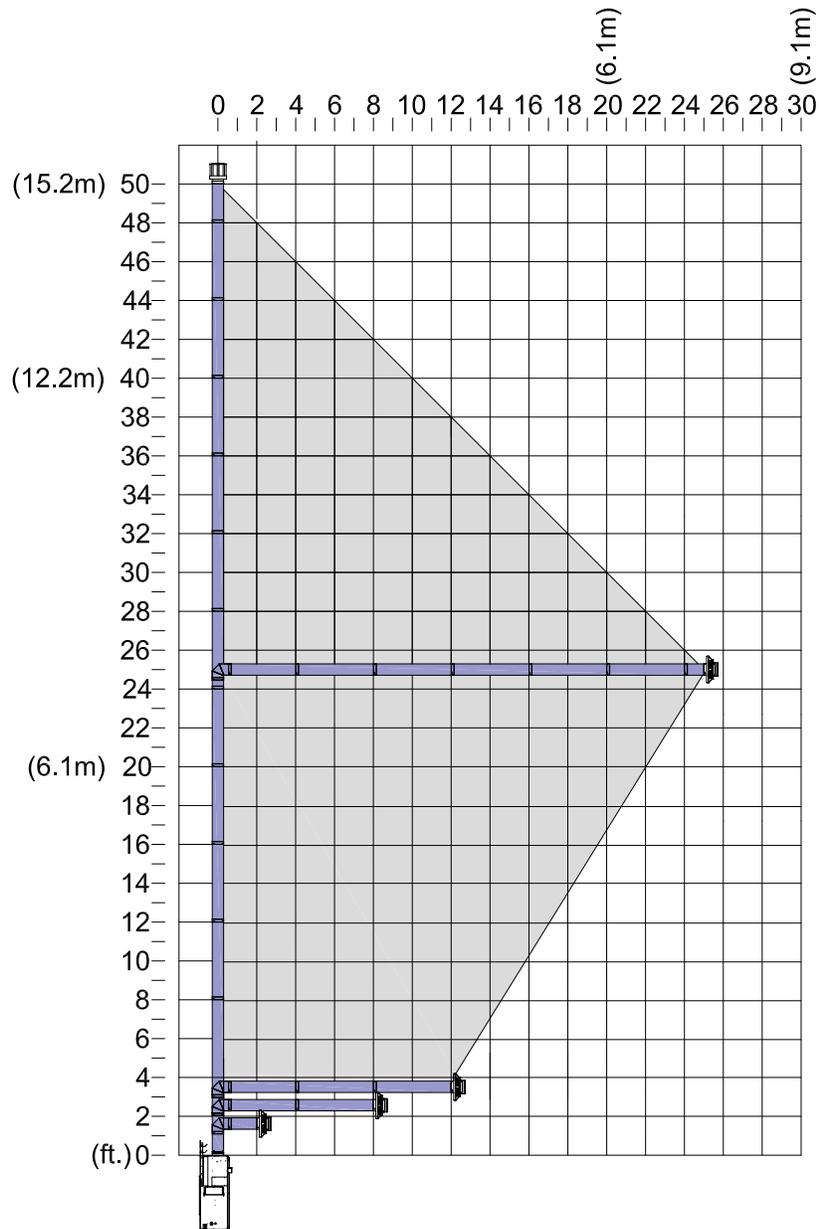
Figure 7.8 - Combination Venting

7.8 Class A Chimney / Masonry Chimney Conversion

This appliance is approved to be adapted for Class A/Masonry Chimney conversion with kits utilizing a 4" (102mm) flexible exhaust by any vent manufacturers listed in section 7.6, APPROVED VENT SYSTEMS.

Before conversion, have the existing installation inspected by a qualified chimney sweep or professional installer. The existing chimney system must be in serviceable condition, and functionally sound. Before proceeding with following installations, check with local building jurisdiction to verify this type of installation is allowed in your area.

Follow Figure 7.9 for allowable venting configurations for installation in existing through-the-ceiling, Class A/Masonry chimney. Route the exhaust gases and intake air through the existing Class A/Masonry chimney.

The gas appliance cannot be connected to a chimney flue that is serving a separate solid-fuel burning appliance.

7.8.1 4" Flex Pipe Venting Configurations

IMPORTANT: Horizontal vent sections require at least 1/4" (6mm) rise for every 12" (305mm) of travel.
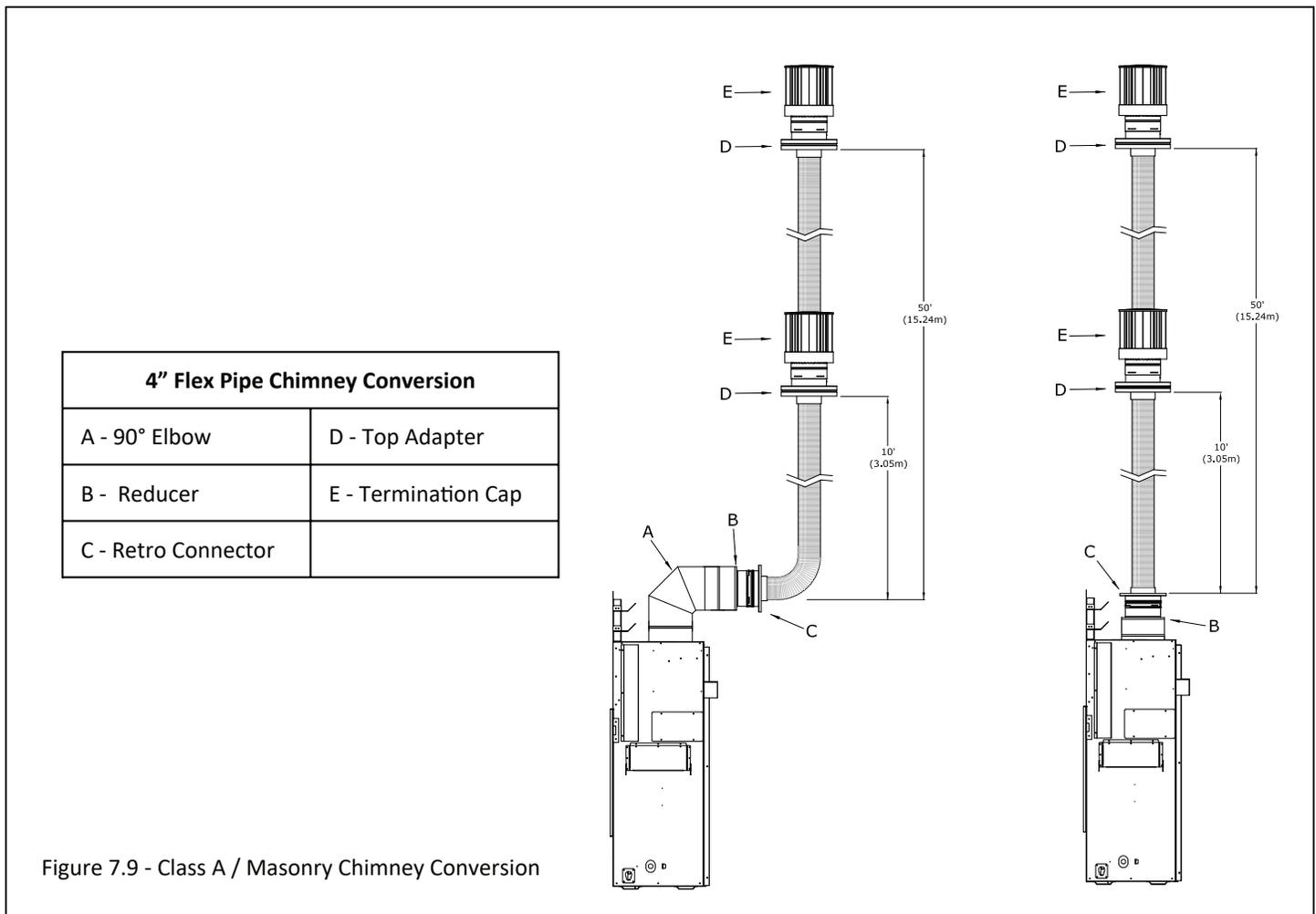
IMPORTANT: The vent heat shield assembly must be installed when incorporating minimum horizontal venting off the top of the appliance.

IMPORTANT: Care should be taken when installing flexible pipe to avoid a tight bend that may cause abrasion or damage to the flexible pipe.

The vent option listed below allows for a minimum of 0" (0mm) to a maximum of 24" (610mm) horizontal run using rigid or flexible pipe. See Figure 7.9.

(1) Minimum / Maximum Vertical Terminations

   4" x 6-5/8" reducer + retro connector + 10' (3.05m) minimum length of 4" aluminum flexible pipe / 50' (15.24m) maximum length of 4" aluminum flexible pipe + top adapter + termination cap

4" Flex Pipe Chimney Conversion	
A - 90° Elbow	D - Top Adapter
B - Reducer	E - Termination Cap
C - Retro Connector	

Figure 7.9 - Class A / Masonry Chimney Conversion

8.0 Fireplace Setup

8.1 Glass Frame Assembly

WARNING: Do not operate this fireplace with the glass removed, cracked, or broken. Replacement of the glass assembly should be done by a licensed or qualified service person.

WARNING: Do not remove the glass assembly when hot.

8.1.1 Removal / Installation of the Glass Frame Assembly

1. Remove safety screen barrier.

2. Locate (4) spring-loaded latches securing the glass assembly at the top of the firebox.

3. Using the glass latch tool (included in the components packet), pull the spring-loaded latches out and up to release the top of the glass assembly.

4. Tilt the top of the glass assembly towards you and lift off of the support rail located at the bottom of the firebox.

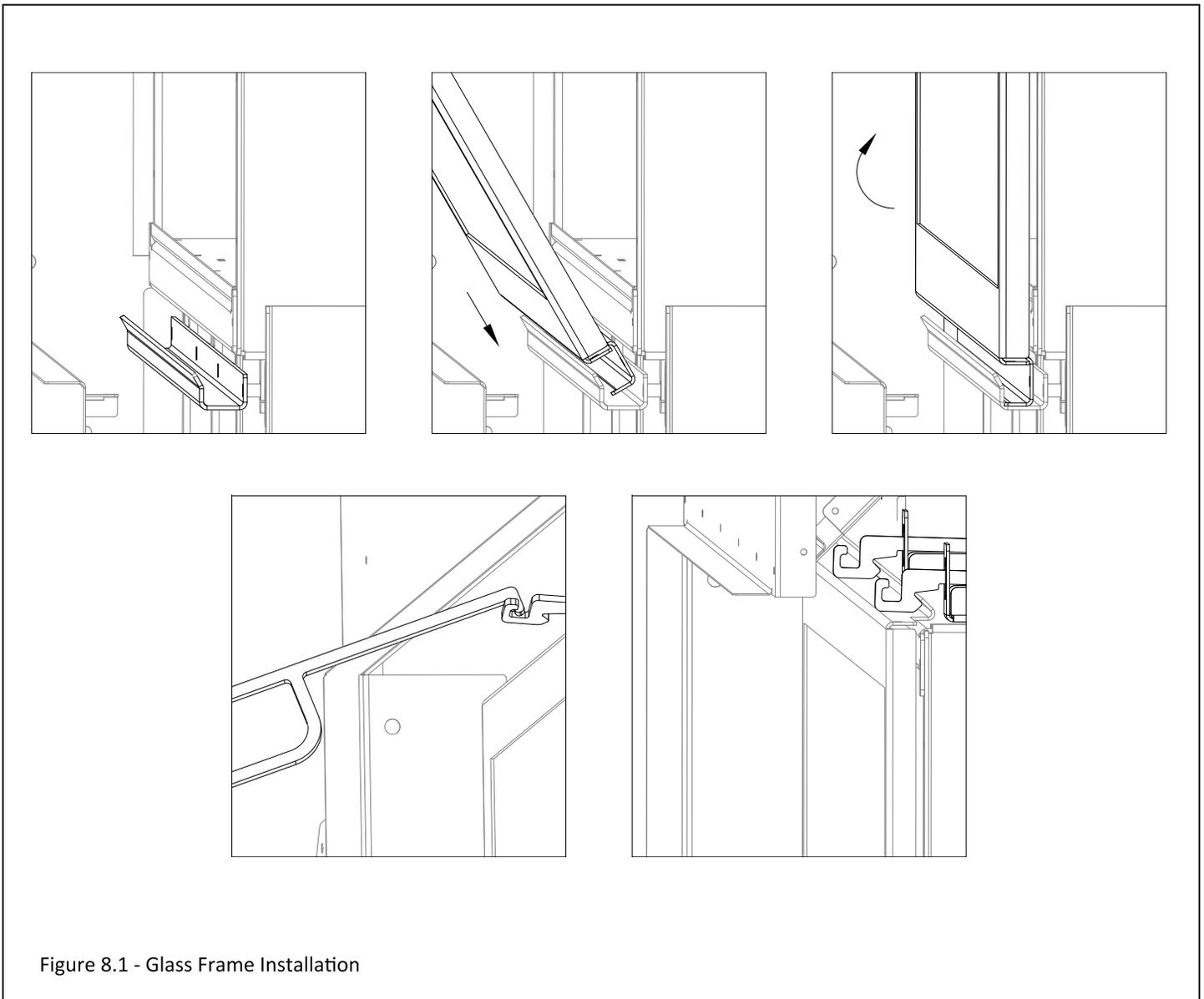When installing the Glass Frame Assembly proceed in reverse steps.

Figure 8.1 - Glass Frame Installation

8.2 Component Access Cover

To access the gas control valve, control module housing, On/Off toggle switch, and remote learn button (SW1 red button), the component access cover will need to be removed. It must be reinstalled after servicing.

1. Remove safety barrier.

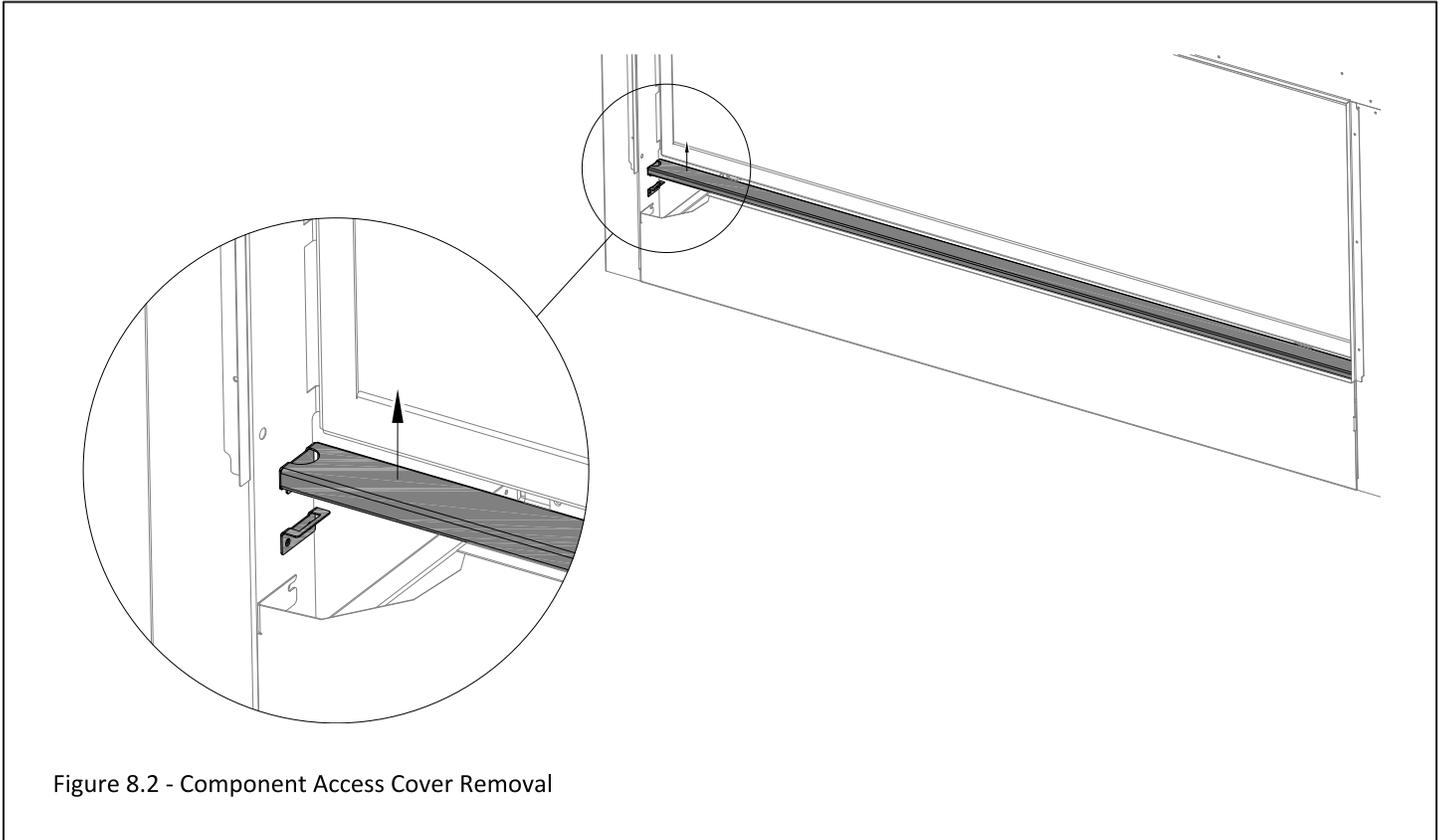2. Lift up and remove the component access cover to gain access below the fireplace. See Figure 8.2.

Figure 8.2 - Component Access Cover Removal

8.3 Light Kits

ATTENTION: If converting to propane do so now before installing any light kit components. Follow instructions included with the conversion kit (sold separately).

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

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

8.3.1 Install Light Bulbs - Front Bottom Light Kit

Note: The front bottom light kit will not have the halogen bulb installed from the factory. Follow the instruction below for initial installation as well as bulb replacement.

1. Remove the safety barrier and glass frame assembly.

2. Remove log set, crushed glass media, and lava rock (if installed).

3. Remove and retain (2) screws from the front ember media tray. Lift tray up and out of firebox. See Figure 8.3.

4. Install (7) halogen bulbs (included in components packet) into the lamp bases.

5. Reinstall front ember bed media tray using screws previously removed.

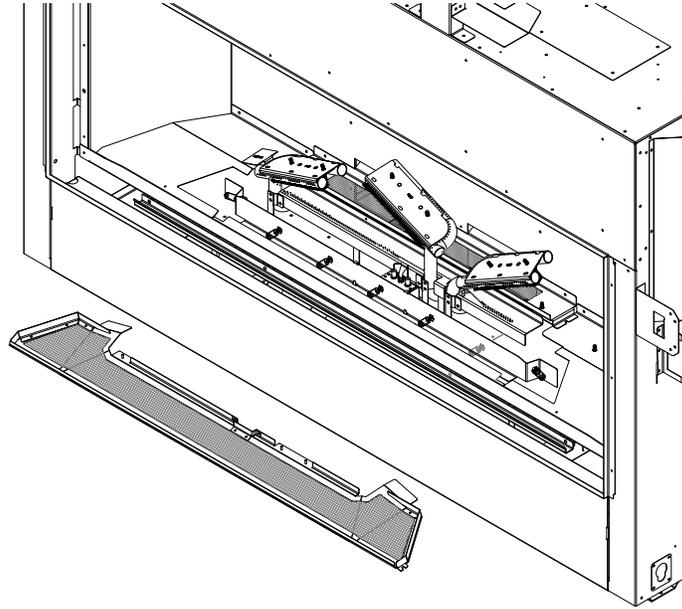6. Reinstall all components previously removed.

8.3 Light Kits (continued)
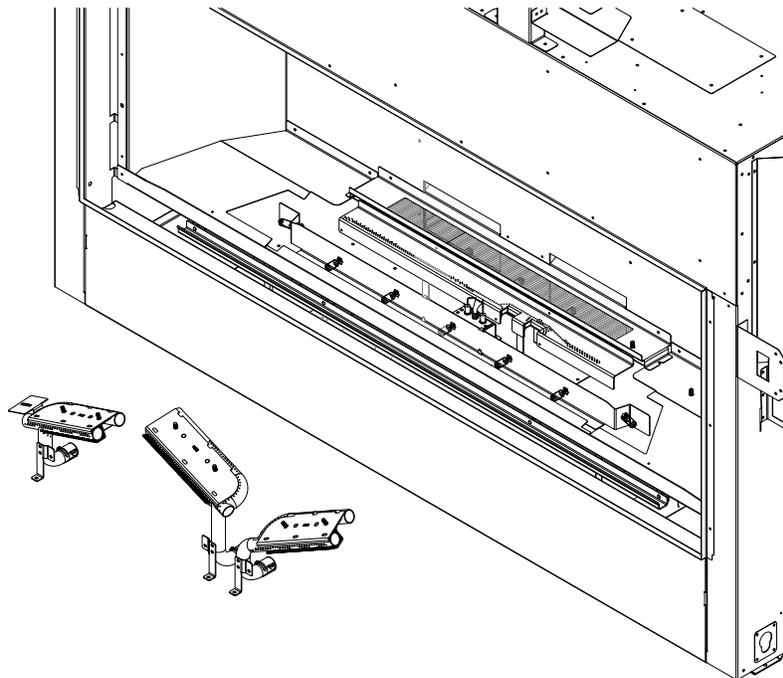

Figure 8.3 - Ember Media Tray Removal

Figure 8.4 - Left, Center, and Right Burner Removal

8.3.2 Install Light Bulbs - Back Bottom Light Kit

- Halogen bulbs are preinstalled from the factory. See instructions below for bulb replacement.
- Note: The instructions in Section 8.3.2 are a continuation of Section 8.3.1.
1. Remove and retain the (6) screws for the left, center, and right burners. Remove burners. See Figure 8.4.
2. Remove and retain (2) screws from the back ember bed media tray. Remove media tray. See Figure 8.5.
3. Install (3) halogen bulbs (included in components packet) into the lamp base.
4. Reinstall all components previously removed.

8.3.3 Install Light Bulbs - Top Light Kit

Note: The top light kit will have the halogen bulbs installed from the factory. Follow the instruction below for bulb replacement.
1. Remove the safety screen barrier, component access cover, and glass frame assembly.
2. Remove the light kit cover, glass, and glass gasket via (4) screws. Save screws.
3. Install (1) halogen bulb into the lamp base. There are (2) locations in the top of the firebox for halogen bulbs for the top light kit.
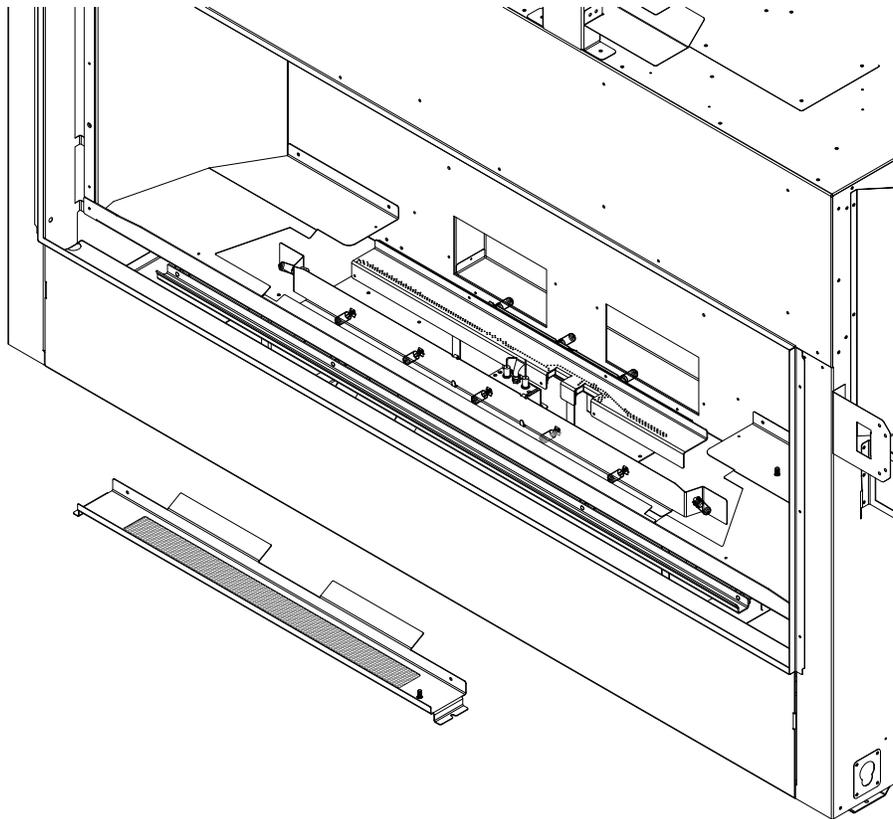4. Reinstall all components previously removed. Ensure the glass gasketing is correctly installed.

Figure 8.5 - Rear Media Tray Removal

8.4 Safety Screen Barrier Installation

Note: 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:

The safety screen barrier has two mounting hooks on each side. There are slots on each side of the fireplace located between the glass frame and the fireplace side finishing edge. Align the mounting hook to the slot on each side of the fireplace and lift up the safety screen barrier and push towards the fireplace so the mounting hooks latch around the glass frame. You can tell that the safety screen barrier is correctly seated if there is even spacing between the safety screen barrier and the fireplace finishing edges on all four sides.
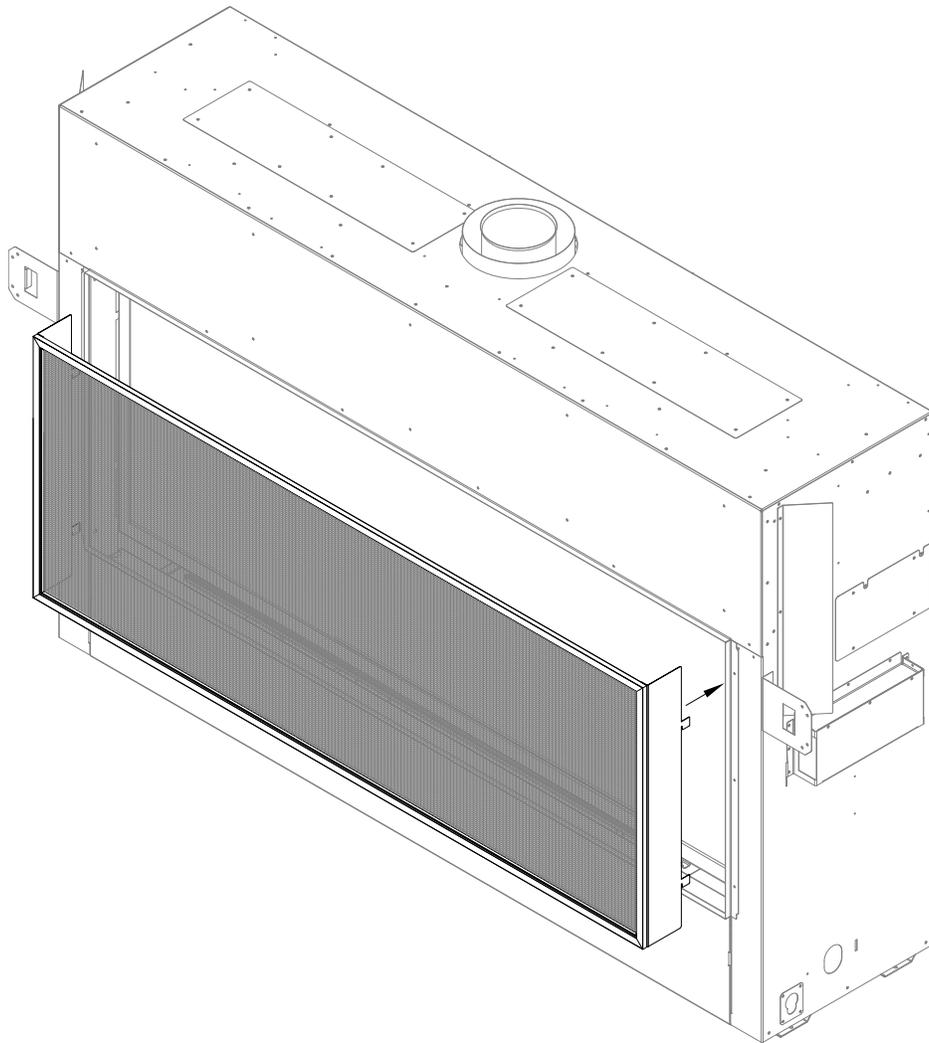

Figure 8.6 - Safety Screen Installation

8.5 Rectangle Surround Installation (Optional)

The rectangle surround (#NK60TL-RS) is an optional accessory for this fireplace. The purpose of this surround is to cover the edge of finishing material where it meets the finishing edge along all 4 sides of the fireplace opening.

The rectangle surround accommodates up to 1-5/8" (41mm) of both the required non-combustible facing and finishing material.

Installation:

1. Remove the safety screen barrier.
2. Locate the (2) mounting nuts on each side of the fireplace.
3. Align the mounting holes on the surround to the corresponding mounting nuts.
4. Secure with (4) truss head screws (provided).
5. Reinstall safety screen barrier.

Figure 8.7 - Rectangle Surround Installation
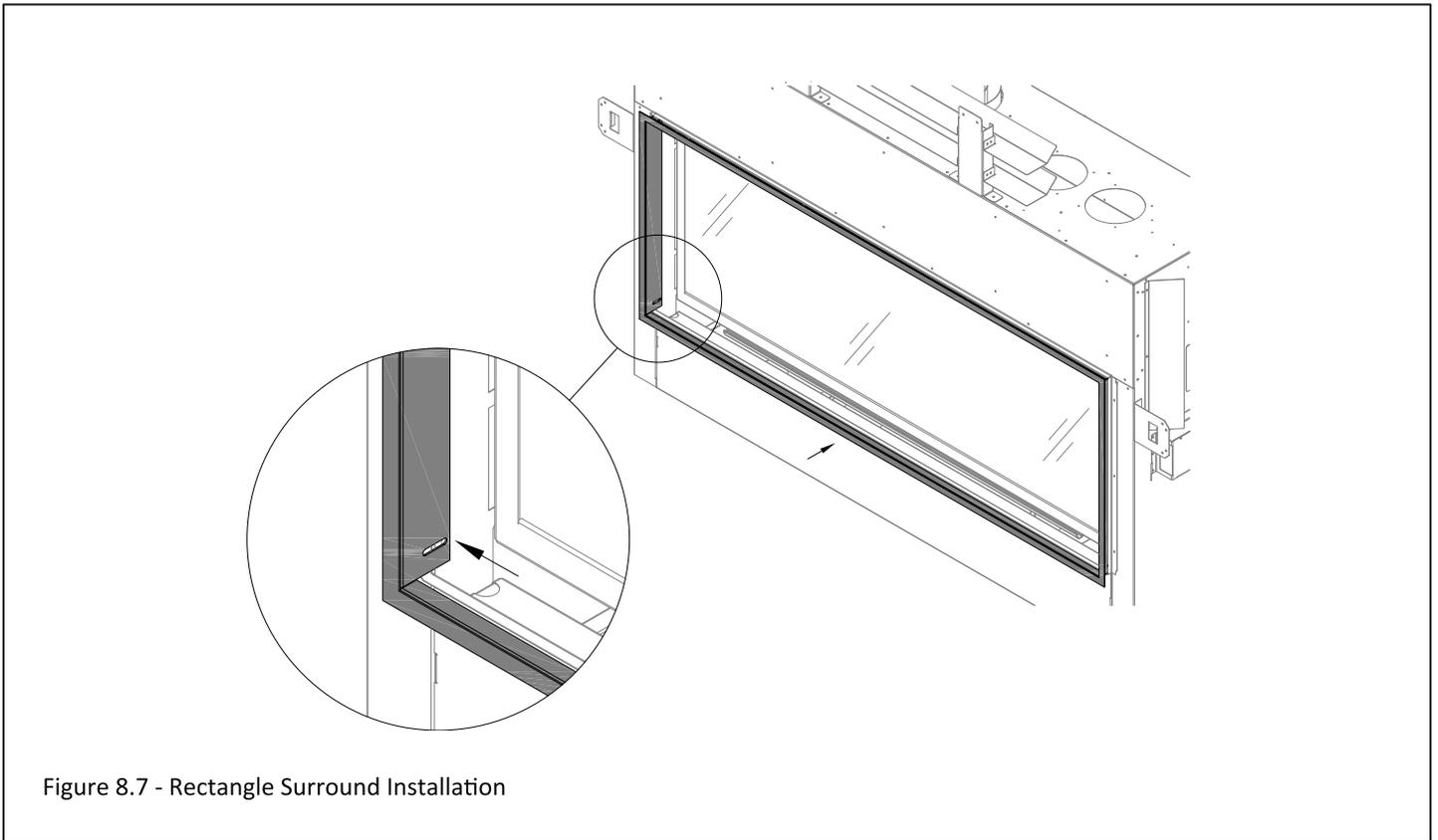
8.6 Panel Installation

Refer to the instructions that are included with the optional panel set.
- If converting to propane, complete the conversion before installing the panel set. Follow the conversion instructions included with the fireplace.

8.7 Log Set Installation

Refer to the instructions that are included with the log set you chose for this fireplace. There is a Traditional Log Set (Part #NK60TL-500) or Birch Log Set (Part #NK60TL-B501).
- If converting to propane, complete the conversion before installing the log set. Follow the conversion instructions included with the fireplace.
- If installing a panel set, complete installation of panel set before log installation

8.8   Control Board Removal and Installation

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

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

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

8.8.1   Control Board Removal

1. Disconnect electrical power. Locate the main shut-off valve upstream of the appliance connector and close valve. Figure 8.8.

2. Remove the front media tray via (2) screws. Figure 8.9.

3. Remove front light kit via (2) screws. Remove left, center, and right burner assemblies. They are each held in by (2) screws. (1) screw secures it to the bottom burner and (1) screw secures it to the floor of the control board. Figure 8.10.

4. Remove the bottom burner assembly via (2) screws. Figure 8.11.

5. Remove the back media tray that covers the back ember bed light kit via (2) screws. Figure 8.12.

6. Remove the (12) screws securing the control board. Lift the control board out of the firebox, being careful not to damage the sealing gasket underneath. Figure 8.13.

7. Pull out control board out to reveal gas line and disconnect the gas line flex tube from the fireplace valve. Figure 8.13.

8.8.2   Control Board Installation

1. Place control board in the firebox, aligning the holes in the control board with the holes in the firebox bottom, and reconnect the gas line flex tube to the fireplace gas valve. VERIFY SEALING GASKET IS IN PLACE.

2. Secure the control board to the firebox using (12) screws previously removed.

3. Reinstall the back ember bed media tray using the (2) screws previously removed.

4. Reinstall the rear burner assembly using the (2) screws previously removed.

5. Reinstall the left, center, and right burner assemblies using the (6) previously removed screws.

6. Reinstall front light kit with (2) screws previously removed.

7. Reinstall front ember bed media tray with the (2) screws previously removed.

8. Reconnect electrical power.

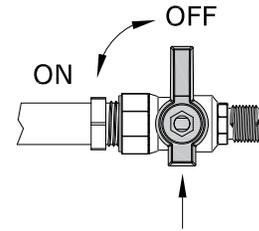9. Verify proper log placement, operation of fireplace, and any electrical components.
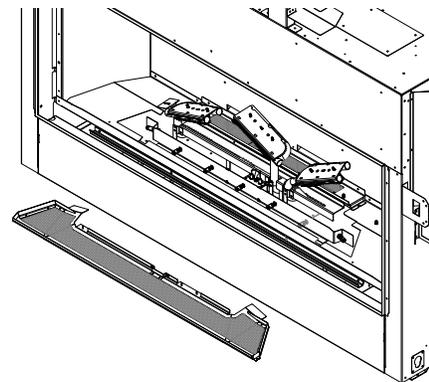

Figure 8.8 - Step 1
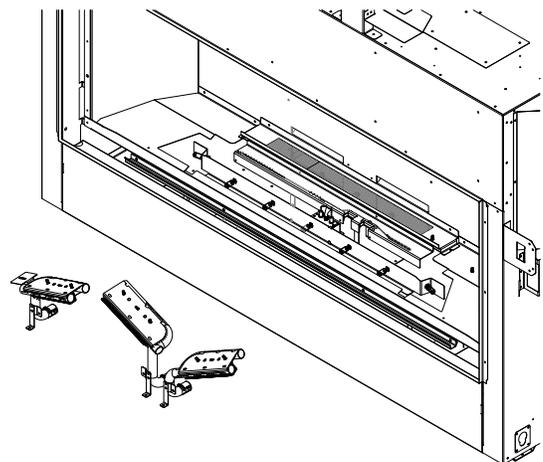

Figure 8.9 - Step 2

Figure 8.10 - Step 3

8.8   Control Board Removal and Installation (continued)
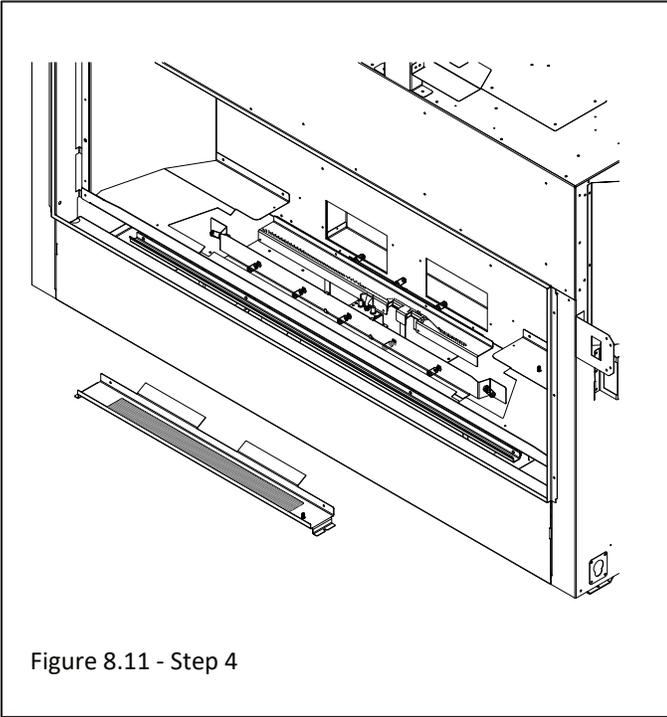
Figure 8.11 - Step 4
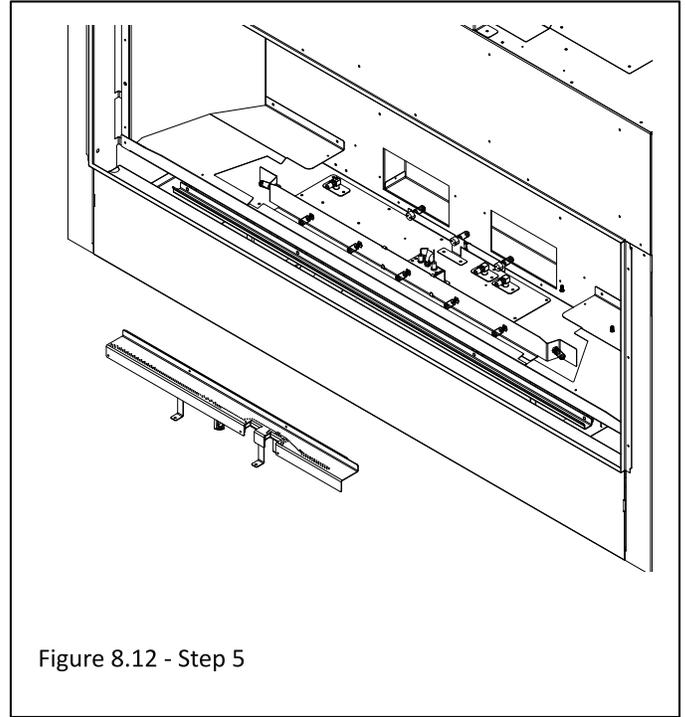
Figure 8.12 - Step 5
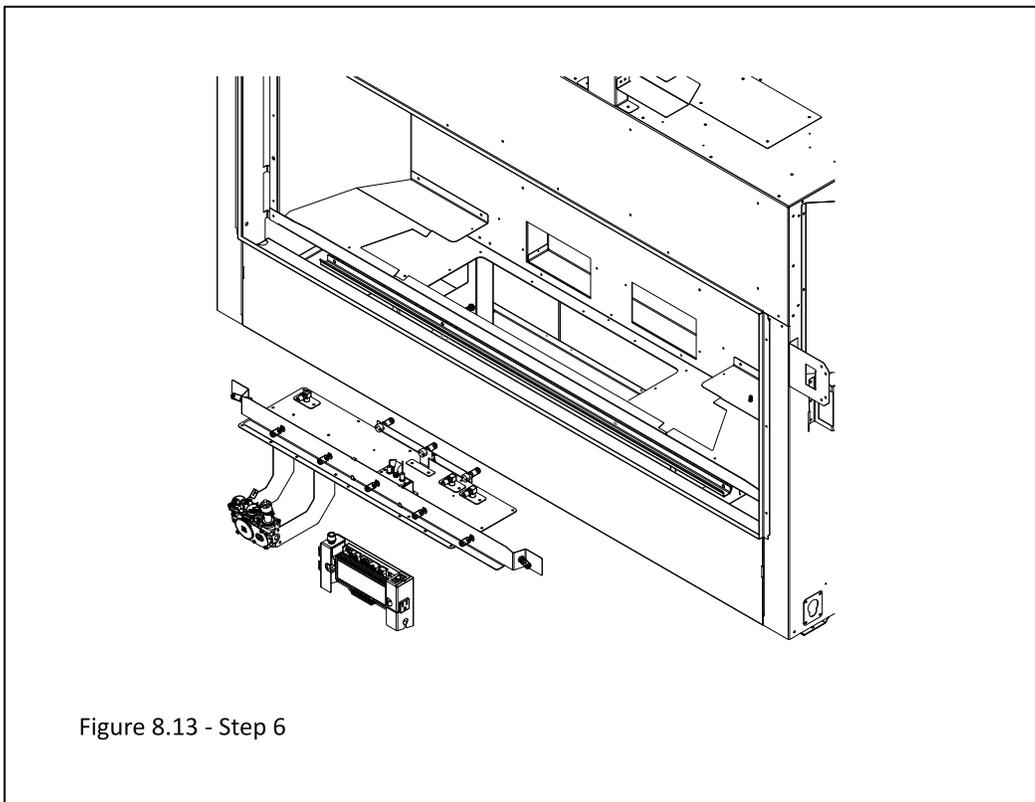
Figure 8.13 - Step 6

8.9 #600-TLK Top Light Kit

CAUTION: Disconnect all electrical power from the fireplace before performing this task.

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

Installation

1. Remove the safety screen barrier, component access cover, and glass frame assembly.

2. Remove the light kit cover, glass, and glass gasket (4) screws. Save screws.

3. Install or replace (2) halogen bulbs (included with this kit) into lamp bases.

4. Reinstall light glass with glass gasket, and light kit cover with (4) screws previously removed.

5. Reinstall glass frame assembly, component access panel, and safety screen barrier.

YELLOW FEMALE
CONNECTORS

RED MALE
CONNECTORS

BLUE FEMALE
CONNECTORS

RED MALE
CONNECTORS
(from control module)

BLACK

WHITE

Figure 8.14 - Top Light Kit Wiring

8.10 #SL42-028 Fan Kit (Optional)

ATTENTION: Installation of this fan kit should be done only by a qualified installer.

WARNING: Verify household breaker is shut off prior to working on any electrical lines. Disconnect all electric power from fireplace before performing any of these tasks.

Installation

1. Remove safety barrier screen, component access cover, and glass frame assembly.

2. Disconnect wiring terminals from fan motors.

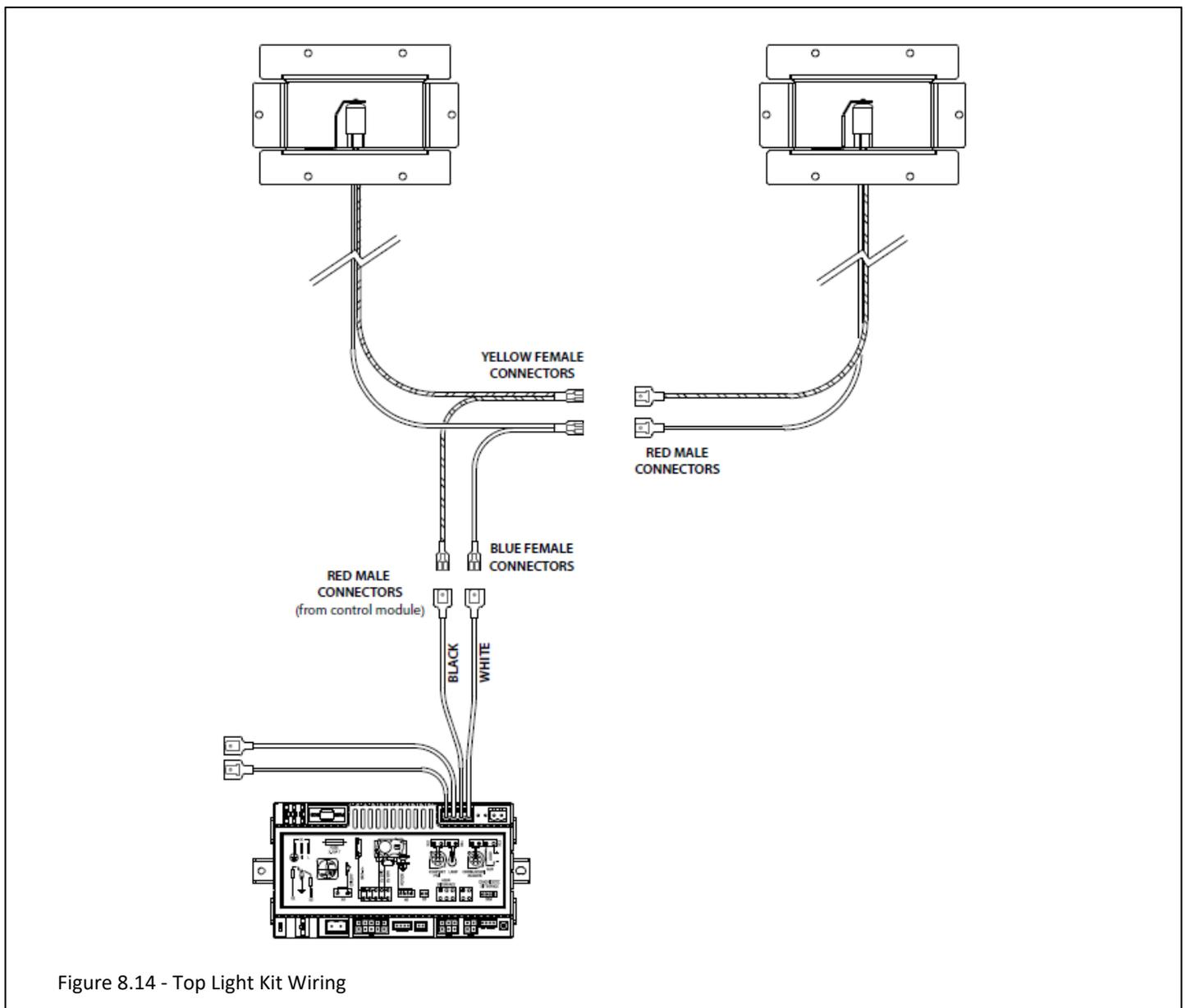3. The fan kit includes two fans. Install one fan per fan channel. Ensure the fan motor is placed towards the center of the fireplace.

4. With the terminal end of the fan facing you and the fan terminals on the left, insert fan into chamber. See Figure 8.15.

5. When the terminal end clears the fireplace face, rotate the fan counter-clockwise.

6. Insert the fan down and forward into control compartment, as shown below.

7. Place the upper edge of the fan discharge under the edge of fireplace air channel opening. Rotate the fan up towards the edge to secure fan into place. See Figure 8.15. DO NOT LET THE FAN REST ON ANY ELECTRICAL CORDS.

8. Reattach wiring terminals to fan motors.

9. Plug the fan cord into the receptacle on the IFC control module. See FIGURE 9.1

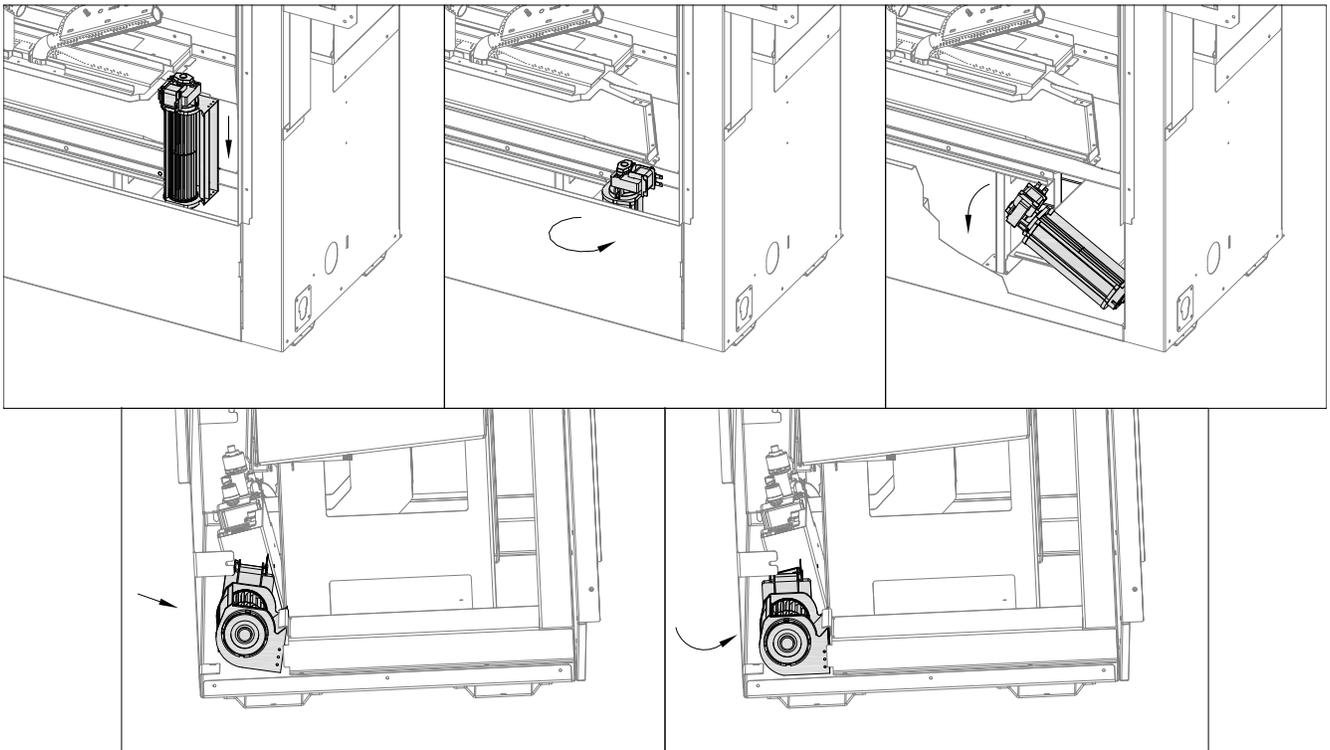10. Reinstall the front glass frame assembly, component access cover and safety barrier screen.

Figure 8.15 - #SL42-028 Fan Kit Installation

9.0 Electrical Information

WARNING: Do not use this fireplace if any part has been under water. Immediately call a qualified service technician to inspect this appliance and to replace any part of the control system and any gas control which has been under water.

WARNING - Electrical Grounding Instructions: This appliance is equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug

9.1 Electrical Specifications

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

9.2 Wiring Requirements

- The system requires 120 VAC of electricity and/or batteries to operate.

- Using the battery backup will operate flame modulation of the burner.

- Fan and light components will not function on battery back up power

Figure 9.1 - 9.3
Note: Spade connectors are labeled "M" for male connectors and "F" for female connectors.

Wire Color	Abbreviation
Blue	BL
Gray	GY
Black	BK
Brown	BR
Yellow	Y
Orange	O
Green	G
Red	R
White	W

(A)	120v Main Power Harness	Part # 700-350A
(B)	Fan / Light Kit Harness	Part # 700-657
(C)	Ember Bed AUX Harness	Part # 800-AUX
(D)	On / Off Wire Harness	Part # 700-656
(E)	IFC Wire Harness	Part # 700-653

Figure 9.1 - Electrical Diagram
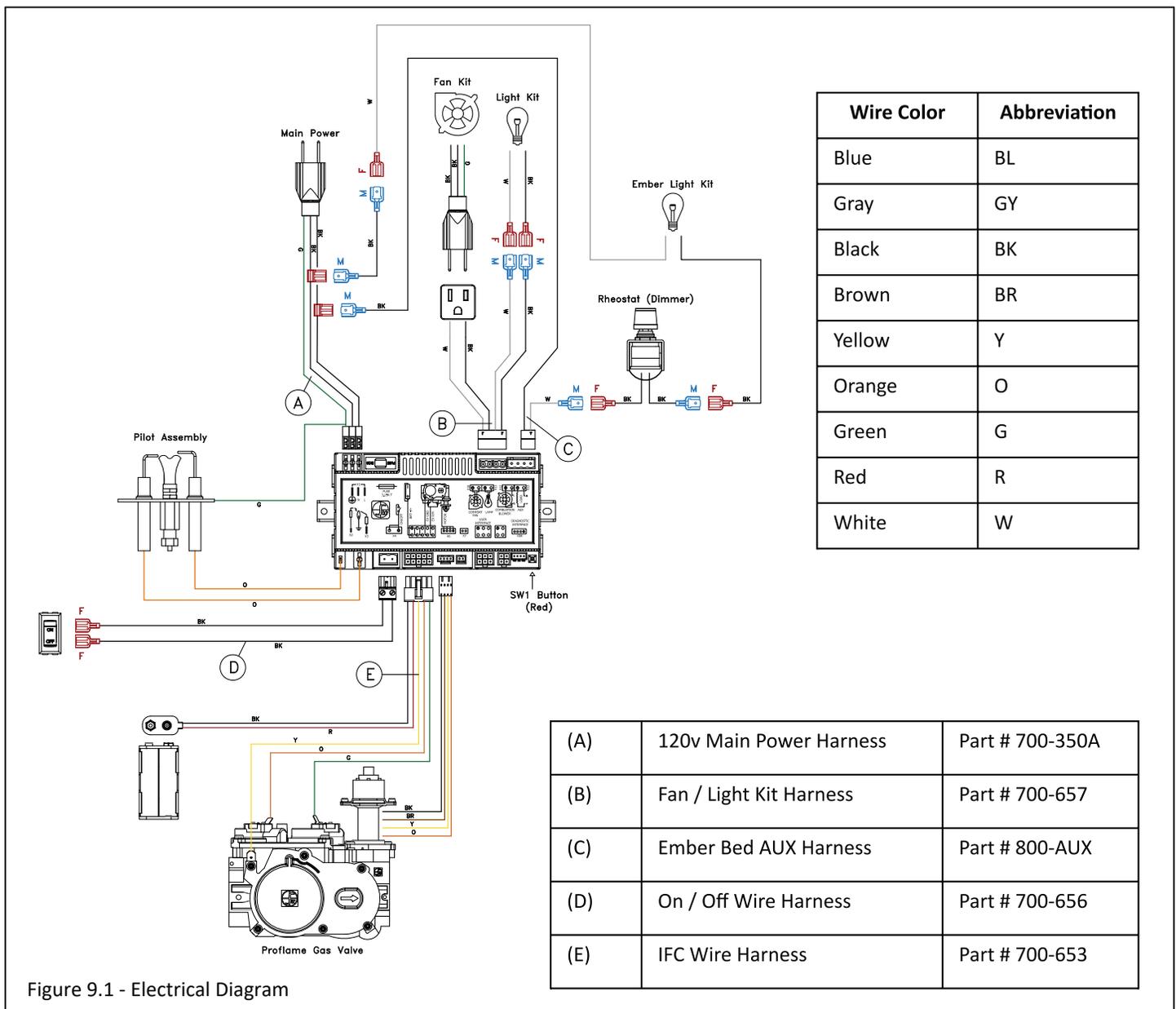
9.1 Electrical Specifications (continued)

- Figure 9.2 shows a close up of the wiring diagram. This figure shows the main power cord, optional fan kit, top light kit, ember bed light kit, and pilot assembly.

Figure 9.2 - Electrical Diagram - Close Up #1

- Figure 9.3 shows a close up of the wiring diagram. This figure shows the pilot assembly, on / off rocker switch, battery backup, valve, and SW1 Remote Learn Button.

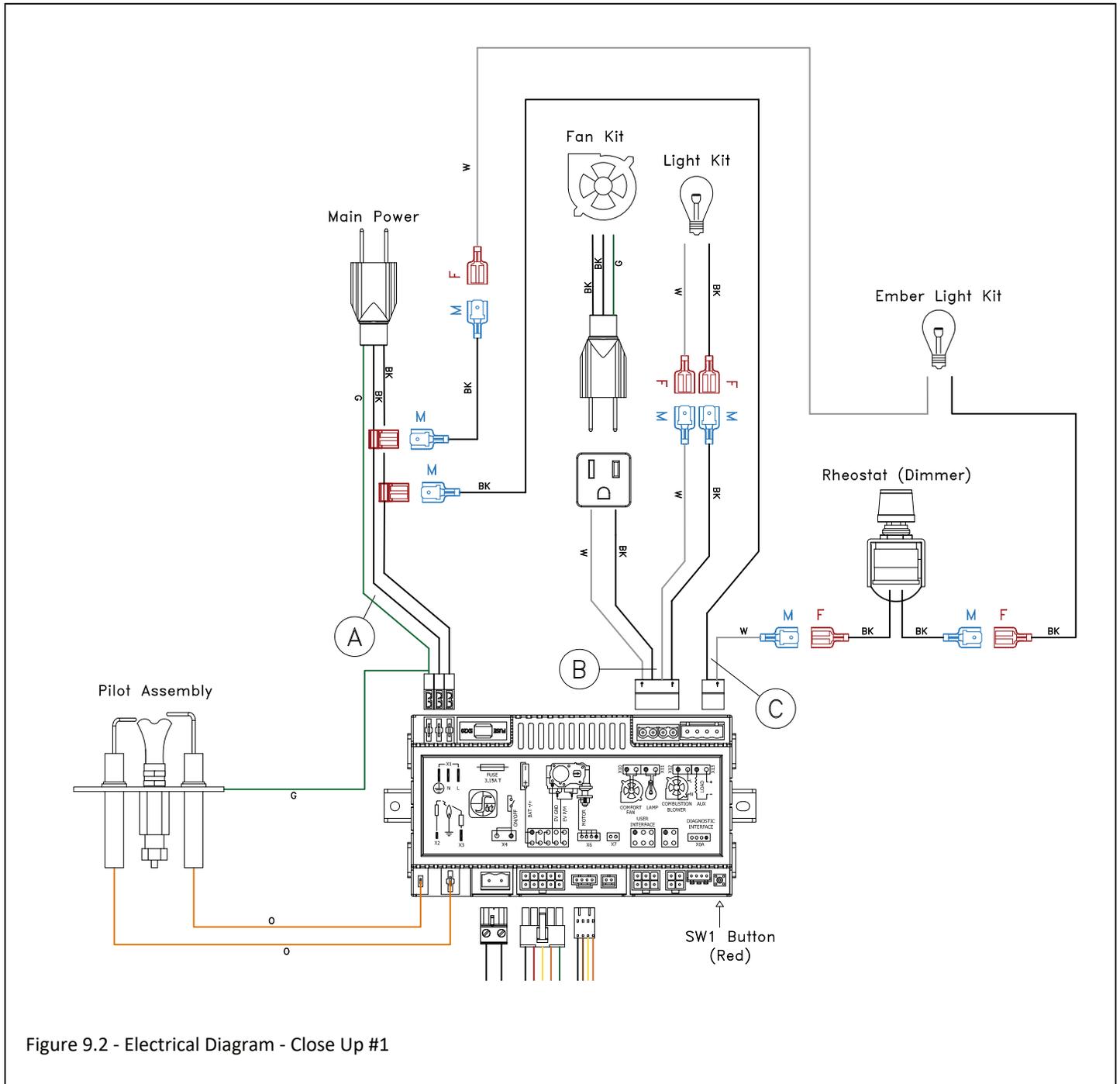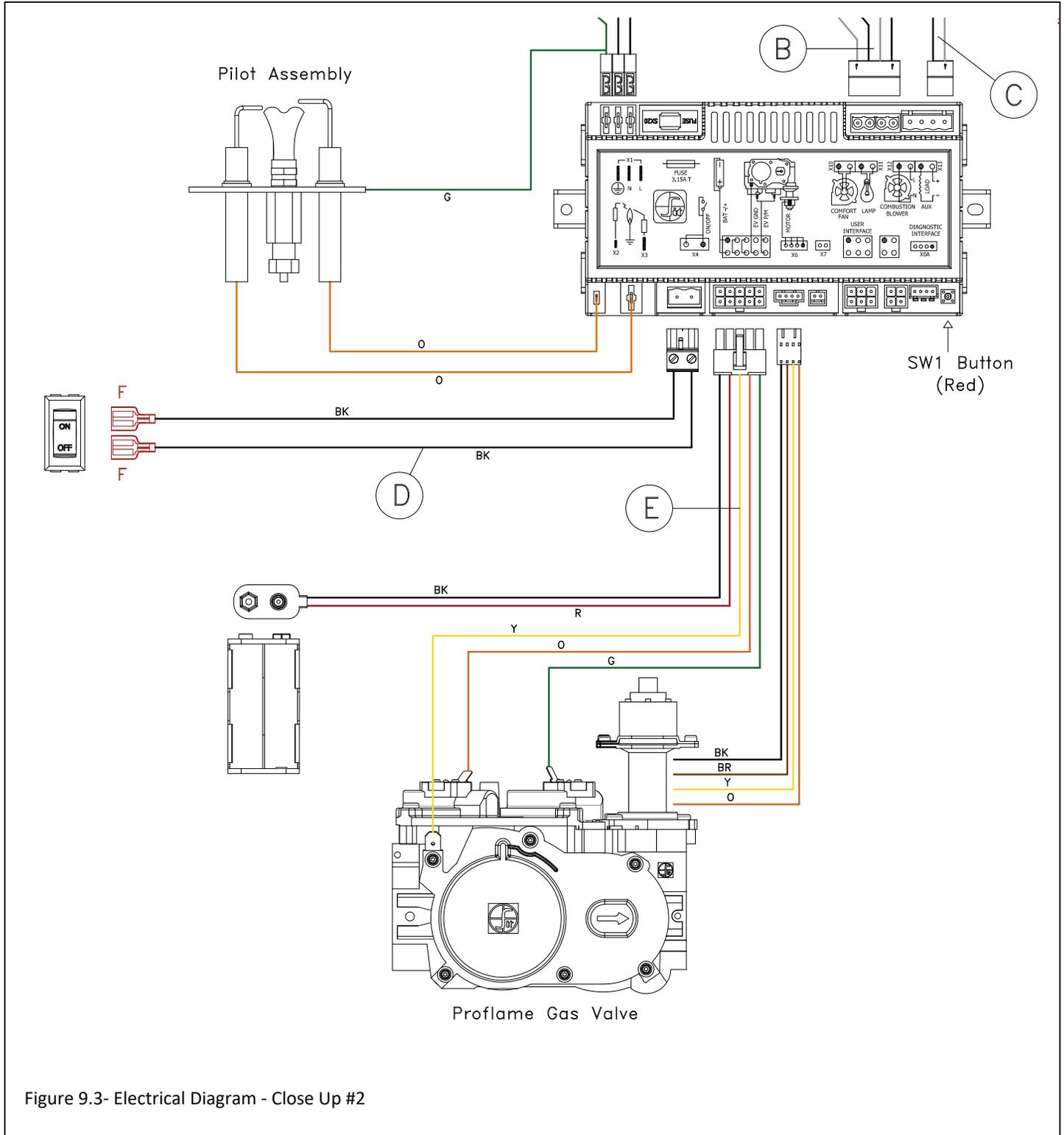Figure 9.3- Electrical Diagram - Close Up #2

10.0   Operating Instructions

FOR YOUR SAFETY READ BEFORE OPERATING

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury, or loss of life.

A.   This appliance is equipped with an ignition device that automatically lights the pilot. Do <u>not</u> try to light the pilot by hand.

B.   BEFORE OPERATING, smell around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
WHAT TO DO IF YOU SMELL GAS
   •   Do not try to light any appliance.
   •   Do not touch any electric 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.

C.   Use only your hand to turn the gas control manual valve. Never use tools. If the valve will not turn by hand, do not try to repair it; call a qualified service technician. Force or attempted repair may result in a fire or explosion.

D.   Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control that has been under water.

OPERATING INSTRUCTIONS

1.   STOP! Read the safety information above on this label. This appliance is equipped with an on-demand pilot that shuts off after 7 days of time.
2.   Press the wireless remote OFF button.
3.   Turn off all electric power to the appliance.
4.   This appliance is equipped with an ignition device which automatically lights the pilot. Do not try to light the pilot by hand.
5.   Locate the manual valve installed by your qualified service technician.
6.   Turn the manual valve clockwise ⤵ to the OFF position.
7.   Wait five (5) minutes to clear out any gas. Then, smell for gas, including near the floor. If you smell gas, STOP! Follow 'B' in the safety information above. If you do not smell gas, go to the next step.

8.   Turn the manual valve counterclockwise ↰ to the ON position.
9.   Turn on all electric power to the appliance.
10.   Press the wireless remote ON button.
11.   If the appliance will not operate, follow the instructions, "To Turn Off Gas To Appliance" and call your service technician or gas supplier.
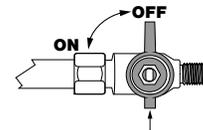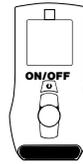
TO TURN OFF GAS TO APPLIANCE

1.   Press the wireless remote OFF button.
2.   Turn off all electric power to the appliance if service is to be performed.

3.   Locate the manual valve installed by your qualified service technician.
4.   Turn the manual valve clockwise ⤵ to OFF position.

⚠ DANGER

HOT GLASS WILL CAUSE BURNS.

DO NOT TOUCH GLASS UNTIL COOLED.

NEVER ALLOW CHILDREN TO TOUCH GLASS.

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

10.1 Setup Proflame 2 IFC Module

1. Set the main ON/OFF rocker switch in the OFF position.

2. Install (3) AAA batteries (included in the components packet) in the remote control battery bay, located at the base of the remote.

3. Connect the IFC Module to an AC power supply.

10.2 Initialize the Control System

IMPORTANT: Remove all packaging and combustible material from the firebox before initializing the control system.

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

1. To access the ON/OFF toggle switch and remote learn button, remove the safety screen and component access cover (See Section 8.4 and 8.2).

2. Press the remote sync button. The IFC module will BEEP (3) times and illuminate an amber LED. This indicates the receiver is ready to synchronize with the transmitter.

3. Within (5) seconds, push the ON/OFF button on the remote control. The receiver will BEEP (4) times to indicate the transmitter's command is accepted, and is set to the transmitter's particular code. The pilot will automatically ignite.

4. Press the remote control ON/OFF button again. The pilot will extinguish, confirming the remote control command. The control system is now initialized.

5. Set the main ON/OFF rocker switch to ON position for remote control operation of the main burner and fireplace features. Reinstall the previously removed components.

10.3 Reset the System for Manual Operation

1. To access the ON/OFF toggle switch and remote learn button, remove the front safety screen and component access cover (See Section 8.4 and 8.2).

2. Locate the remote sync button by sliding out the control module.

3. Set the ON/OFF rocker switch to OFF position.

4. Press and hold the remote sync button until it emits (3) beeps and an amber LED is illuminated.

5. Within (5) seconds, press the remote sync button again. This will close synchronization with the remote control. The pilot will automatically light.

- Turn the main burner ON by setting the ON/OFF switch in ON position. The main burner will only operate on HI.

- Turn the main burner OFF by setting the ON/OFF switch in the OFF position. The pilot will remain lit even if burner is turned off, provided CPI mode is turned on.

10.4 Automatic Safety Turn-off

- This system will execute an automatic turn OFF command for approximately (5) seconds within (24) hours of a continued pilot flame ignition to perform a safety check. This allows the system to verify correct safety functions.

- After the turn OFF sequence is completed, the IFC module will re-execute the latest command.

10.5 Backup Battery Operation

This appliance will operate on the backup battery pack when electric power is interrupted, or in a power outage. During the power outage, the appliance burner and flame height adjustment will function. The fan and accent light kit will not function.

- The lifespan of the backup batteries depend on various factors, such as the quality of the batteries, number of ignitions, etc.

- When the backup battery pack is low, the IFC module will emit a double-beep while receiving an ON/OFF command. No commands will be accepted after this alert until the back up batteries are replaced. Once replaced, the IFC module will emit a 'beep' as soon as it is powered.

10.6 Control System 7 Day Timeout

- If you have your Proflame 2 system set to CPI (continuous pilot ignition) with 7 consecutive days without ignition of the main burner, the pilot will turn off. This a standard safety feature of the SIT Proflame 2 system.

- Once you turn CPI on, the 7 day timer will start. If at any time during the following 7 days your main burner ignites, it will reset the timer back to 7 days.

- See section 10.9.3 PILOT IGNITION SELECTION for more information.

How to check if your system is set to CPI:
The LCD screen will display the snowflake icon.

To select the preferred pilot ignition feature,

1. With the system in the OFF position, press the mode key to index the CPI mode icon.

2. Press the up arrow key to activate CPI.

3. Press the down arrow key to return to IPI. A single 'beep' will confirm reception of the command.

To Turn ON the appliance

1. With the system in the OFF position, press the remote control ON/OFF key to turn ON the appliance. A single 'beep' will emit from the IFC module to confirm reception of the command.

The LCD screen will display all active icons, and the IFC module will start the ignition sequence.

10.7 IFC Module Ignition Sequence

The IFC module will try (2) times for ignition, each lasting approximately (60) seconds, with approximately (35) seconds between each attempt.

1. With the system in OFF position, press the remote control ON/OFF key. Approximately (4) seconds after this key is depressed, the IFC module will generate sparks to the pilot hood.

2. First ignition attempt will generate sparks for (60) seconds.

3. If there is no flame ignition (rectification) within the (60) second time frame, the IFC module will stop generating sparks for approximately (35) seconds.

4. After (35) seconds of wait time, the IFC module will generate sparks for another (60) seconds for the second ignition attempt.

5. If there is no positive rectification after (60) seconds, the IFC module will go into a lock out. The red LED will blink (3) times, in intervals, until the system is reset.

10.7.1 Reset IFC Module after Lockout

ON/OFF Rocker Switch

1. Set the ON/OFF rocker switch to the OFF position.

2. After approximately (2) seconds, move the switch to the ON position. The ignition sequence will start again.

Remote Control ON/OFF Key

1. Press the remote control ON/OFF key to turn the system OFF.

2. After approximately (2) seconds, press the ON/OFF key again. The ignition sequence will start again.

Cycling Flame

1. Press the remote control down arrow key during flame adjustment mode to reduce the flame to OFF (indicated by OFF displayed on the LCD screen).

2. After approximately (2) seconds, press the up arrow key. The ignition sequence will start again.

10.8 Additional Diagnostic Information

Low Battery Condition (<4V) Remote Control:

- Battery Icon will appear on LCD remote control display.

- Replace batteries.

Low Battery Condition (<4V) Battery Backup:

- The red LED Indicator will blink (1) time in intervals.

- A low double-beep emits from the IFC control module when it receives an ON/OFF command from the remote control.

- Replace Batteries.

Pilot Flame Error Condition:

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

System Lock Out Condition:

- Red LED Indicator will blink (3) times in intervals.

- Verify gas is turned on.

- Verify sensor is not shorted.

- Follow section 10.2, INITIALIZE THE CONTROL SYSTEM .

10.9 Remote Control Operation
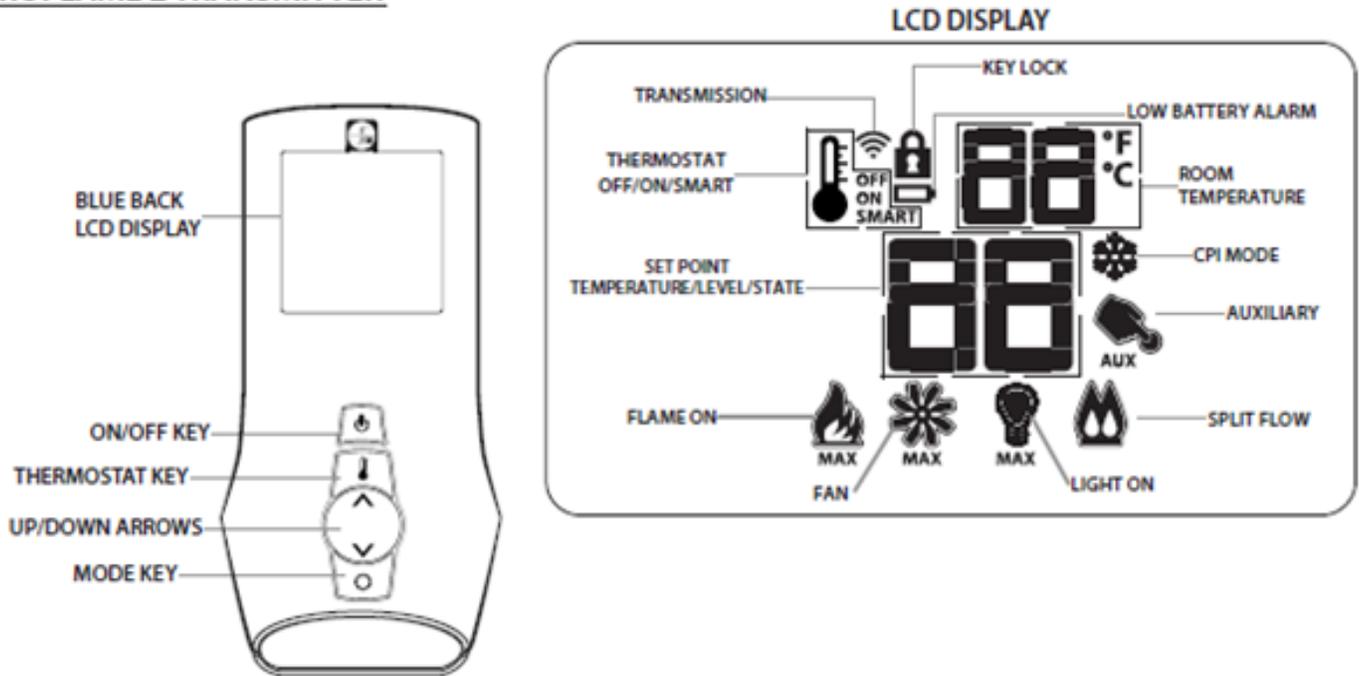
Figure 10.1 - Remote Control Overview

10.9.1 Temperature Display

1. With the system in the OFF position, simultaneously press the thermostat key and the mode key to change degrees from °F to °C

2. Visually check the LCD screen to verify either °F or °C is displayed on the right side of the room temperature display.

10.9.2 Key Lock

This function locks the keys to avoid unsupervised operation. Once activated, a lock icon will appear on the LCD screen.

1. Simultaneously press the mode key and the up arrow key to activate or deactivate this function.

Figure 10.2 - Temperature Display

Figure 10.3 - Key Lock

10.9.3 Pilot Ignition Selection (IPI/CPI)

This system has the option of a continuous (standing) pilot. This features allows the system to change from a spark-to-pilot system to the standing pilot option. The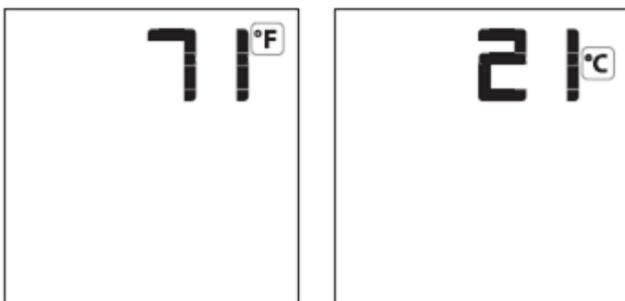 standing pilot will keep the firebox warm and establish a draft in the vent, which allows the main burner to ignite with less air-flow disruption.

When the system is OFF, the LCD screen will display the snowflake icon during the setup of either IPI or CPI mode. To select the preferred pilot ignition feature,

1. With the system in the OFF position, press the mode key to index the CPI mode icon.

2. Press the up arrow key to activate CPI.

3. Press the down arrow key to return to IPI. A single 'beep' will confirm reception of the command.

When the system is ON,

IPI mode: LCD screen will not display the snowflake icon

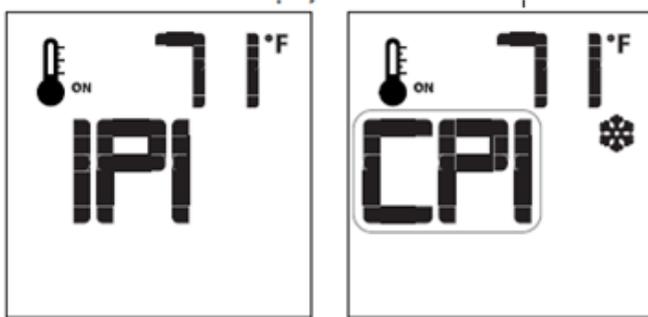CPI mode: LCD screen will display the snowflake icon

Figure 10.4 - Pilot Selection

10.9.4   Turn ON/OFF the Appliance

Turn ON the appliance

1. With the system in the OFF position, press the remote control ON/OFF key to turn ON the appliance. A single 'beep' will emit from the IFC module to confirm reception of the command.

The LCD screen will display all active icons, and the IFC module will start the ignition sequence.

Turn OFF the appliance

1. With the system in the ON position, press the remote control ON/OFF key to turn OFF the appliance. A single 'beep' will emit from the IFC module to confirm reception of the command.

The LCD screen will only display the room temperature and its icon, and the IFC module will turn off the main burner.

10.9.5 Remote Control Flame Adjustment

This control system has (6) flame levels. If the smart thermostat operation is activated, then the manual adjustment of the flame height will be disabled.

1. Verify the system is in the ON position and the flame level is set at maximum.

2. Press the down arrow key once to reduce flame height by one level until the flame is turned off.

3. Press the up arrow key once to increase flame height by one step. If the up arrow key is pressed while the system is on, but the flame is off, the flame will ignite on HI.

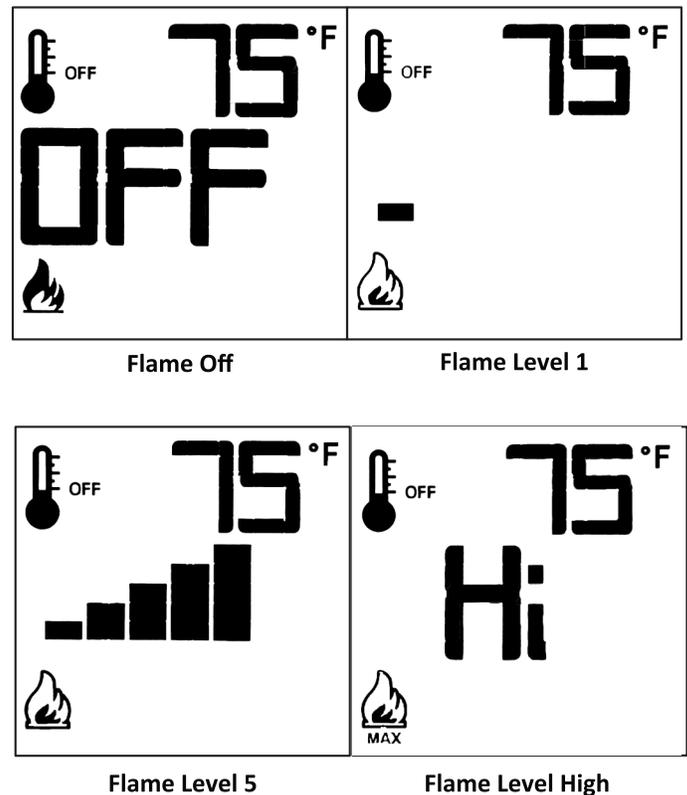4. A single 'beep' will confirm reception of the command.

Flame Off	Flame Level 1

Flame Level 5	Flame Level High

Figure 10.5 - Flame Adjustment

10.9.6 Deactivate Flame Modulation

1. Verify all (3) AAA batteries are installed in the remote control battery bay.

2. Remove (1) AAA battery.

3. Press and hold the on/off key and the mode key at the same time.

4. Reinsert (1) AAA battery.

5. While still holding the on/off key, let go of ONLY the mode key.

6. Index over to the flame graphic on the LCD screen to edit. Use the up or down arrow key to choose 'SEL' or 'CLR'. "SEL" means flame modulation is turned on and "CLR" means flame modulation is turned off.
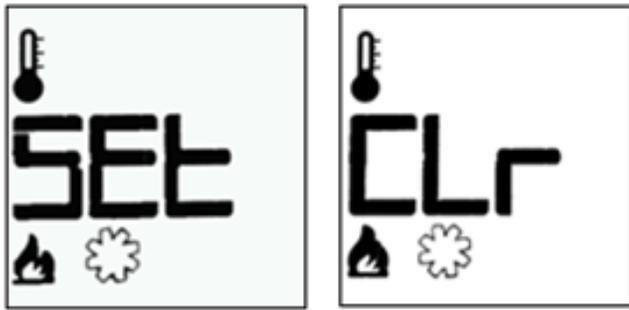

Figure 10.6 - Deactivate Flame Modulation

10.9.7 Thermostat Operation

Room Thermostat

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

1. Press the thermostat key. The LCD screen will display a temperature bulb graphic, the room temperature and set temperature.

2. To adjust the set temperature, press the up or down arrow keys until the desired temperature is displayed on the LCD screen.
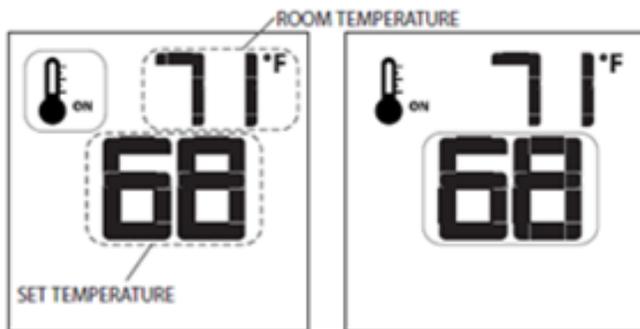

Figure 10.7 - Thermostat Operation

Smart Thermostat

The smart thermostat function will adjust the flame height based on the set temperature and the actual room temperature. The smart thermostat function automatically adjusts the flame down when the room temperature reaches the set point. To activate this function,

1. Press the thermostat key until the 'SMART' appears on LCD screen on the right side of the temperature bulb graphic.

2. To adjust the set temperature, press the up or down arrow keys until the desired temperature is displayed on the LCD screen.
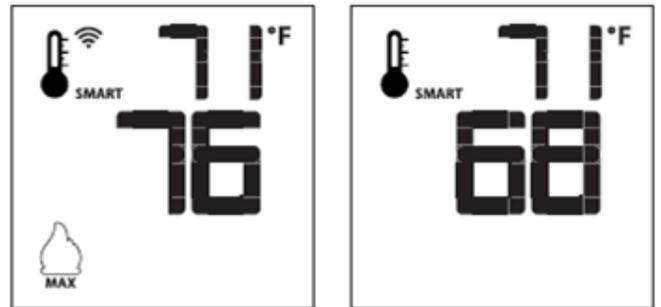
Figure 10.8 - Smart Thermostat Operation

10.9.8 Deactivate Remote Control Thermostat Operation

The thermostat operation function can be deactivated. The remote control will still operate the main burner on and off, and function flame, fan, and light modulation. To deactivate this function,

1. Verify all (3) AAA batteries are installed in the remote control. Remove (1) AAA battery.

2. While reinserting the battery, push and hold the thermostat key. You will see "CLR" across the screen. This means the thermostat function is turned off. The temperature bulb graphic will not be displayed on the LCD screen the next time you operate the remote.

• To reactivate remote thermostat operation, follow the same key sequence procedure above. The screen will then say "SEL" which means the thermostat function is turned on. The temperature bulb graphic will reappear on the LCD screen.

Figure 10.9 - Deactivate Thermostat Operation

10.9.9 Fan Speed Control (optional)

Fan speed can be adjusted through (6) speeds. To activate this function,

1. Press the mode key to index to the fan control icon.

2. Press the up or down arrow keys to turn on, off, or to adjust fan speed.

Thermostat mode: Fan(s) have a (5) minute delay time when the fireplace is let. This allows time for heat to build in fireplace before fan operation. The fan will continue to operate for approximately (12) minutes after the fireplace has been turned off.

Manual mode: Fan(s) will operate at previous setting. There is no delay in start up or stop time.
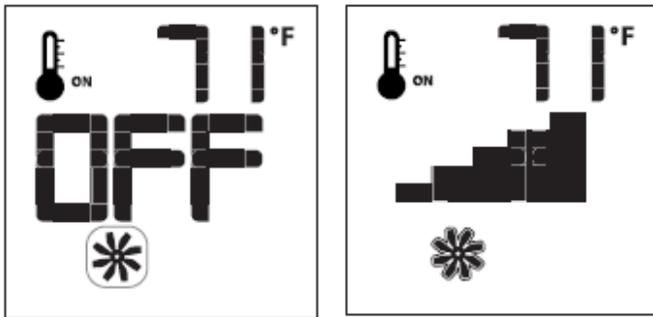
Figure 10.10 - Fan Kit

10.9.10 Deactivation Fan Speed Control

Fan speed can be adjusted through (6) speeds. To activate this function,

1. Verify all (3) AAA batteries are installed in the remote control battery bay.
2. Remove (1) AAA battery.
3. Press and hold the on/off key and the mode key at the same time.
4. Reinsert (1) AAA battery.
5. While still holding the on/off key, let go of ONLY the mode key.
6. Index over to the fan control icon on the LCD screen to edit. Use the up or down arrow key to choose 'SEL' or 'CLR'.
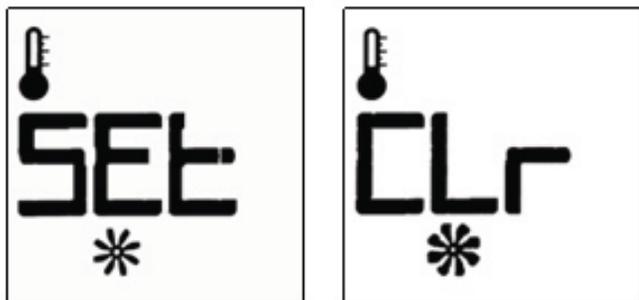
Figure 10.11 - Fan Control Deactivation

10.9.11 Top Accent Light Kit Operation

The top light intensity can be adjusted through (6) levels.

1. Press the mode key to index to the light icon.

2. Press the up or down arrow keys to adjust the intensity level.

3. A single 'beep' will confirm reception of the command.
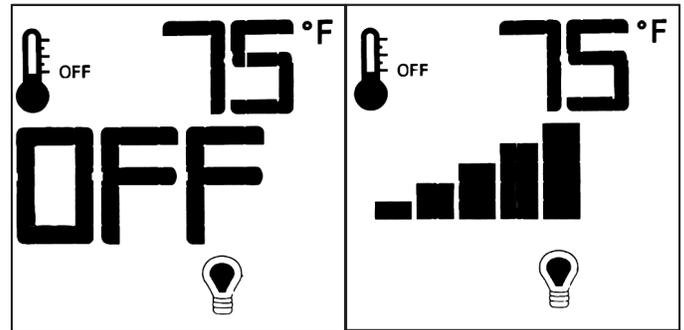
Figure 10.12 - Top Light Kit

10.9.12 Deactivation Top Light Kit

1. Verify all (3) AAA batteries are installed in the remote control battery bay.

2. Remove (1) AAA battery.

3. Press and hold the on/off key and the mode key at the same time.

4. Reinsert (1) AAA battery.

5. While still holding the on/off key, let go of ONLY the mode key.

6. Index over to the bulb graphic on the LCD screen to edit. Use the up or down arrow key to choose 'SEL' or 'CLR'.

Figure 10.13 - Top Light Kit Deactivation

10.9.13 Ember Bed Light Kit (auxiliary)

Activate Feature on Remote

The auxiliary function controls ON/OFF function the ember bed light kit. To activate this function,

1. Verify all (3) AAA batteries are installed in the remote control battery bay.

2. Remove (1) AAA battery.

3. Press and hold the on/off key and the mode key at the same time.

4. Reinsert (1) AAA battery.

5. While still holding the on/off key, let go of ONLY the mode key.

6. Index over to the hand graphic on the LCD screen to edit. Use the up or down arrow key to choose 'SEL' or 'CLR'.

To turn on the Ember Bed Light Kit

1. Press the mode key to index to the AUX icon.

2. Press the up arrow key to turn the ember bed light kit ON.

3. Press the down arrow key to turn the ember bed light kit OFF.

4. A single 'beep' will confirm reception of the command.

Adjust Ember Bed Light Kit Intensity (after turning "ON")

The ember bed light kit intensity can be adjusted by using the ember bed light kit modulator knob located underneath the firebox (FIGURE 10.15). To adjust,

1. Remove the safety barrier screen by lifting the screen up and out of the slots, then remove the component access cover.

2. Turn the knob counterclockwise to decrease the light intensity.

3. Turn the knob clockwise to increase the light intensity.

4. Reinstall the component access cover , and the safety screen barrier when finished.
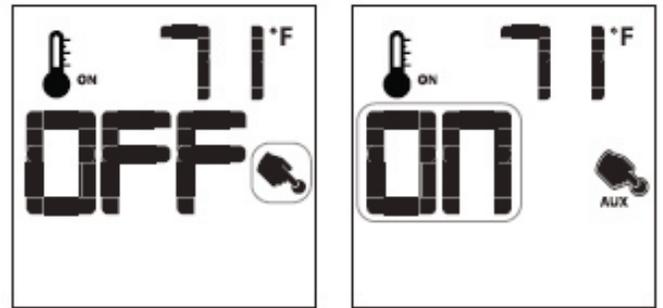
Figure 10.14 - Ember Bed Light Kit
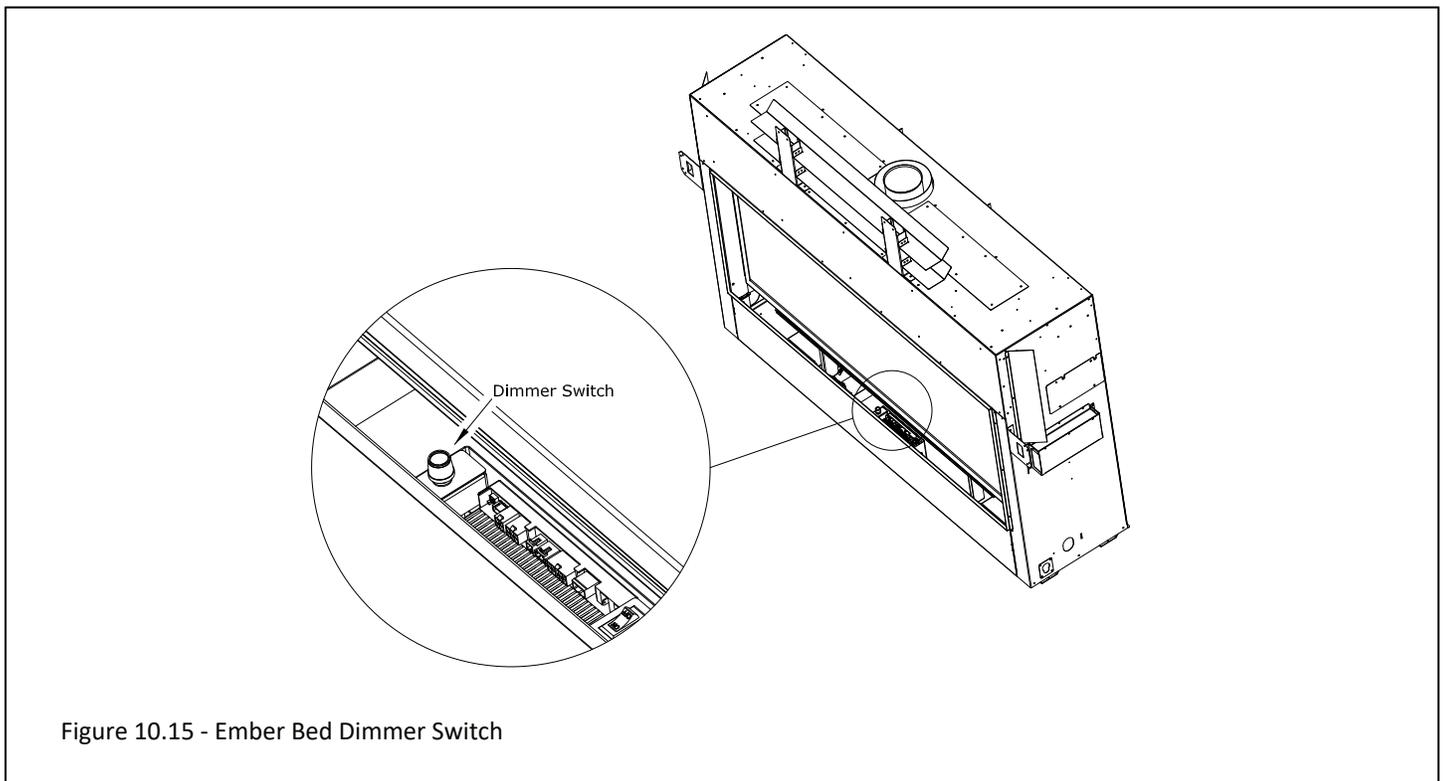
Figure 10.15 - Ember Bed Dimmer Switch

10.9.14   Deactivation AUX (Ember Bed Light Kit)

1. Verify all (3) AAA batteries are installed in the remote control battery bay.

2. Remove (1) AAA battery.

3. Press and hold the on/off key and the mode key at the same time.

4. Reinsert (1) AAA battery.

5. While still holding the on/off key, let go of ONLY the mode key.

6. Index over to the hand graphic on the LCD screen to edit. Use the up or down arrow key to choose 'SEL' or 'CLR'.
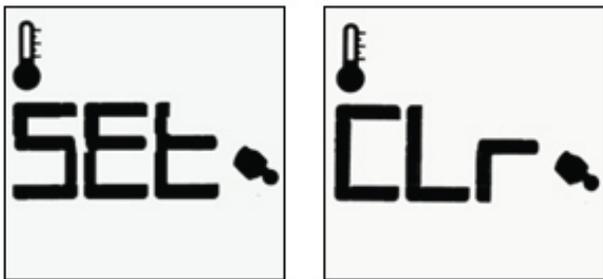
Figure 10.16 - Deactivate AUX

10.9.15   Remote Control Low Battery Detection

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

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

*   When the batteries are replaced, this icon will disappear.

Figure 10.17 - Low Battery

11.0   Pressure Testing and Burner Adjustments

11.1   Pressure Testing

NOTE: The appliance and its appliance main gas valve must be disconnected from the gas supply piping system during any pressure testing of the system at test pressures in excess of 1/2 psi (3.5 kPa).

IMPORTANT: Pressure check taps for manifold (outgoing) and inlet (incoming) pressure have been incorporated into the valve. The pressure tap marked OUT measures outgoing pressure. The pressure tap marked IN measures incoming pressure.

11.1.1   Inlet Pressure Test

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

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

1. Loosen the inlet (IN) pressure tap by turning screw counter-clockwise. See (A) in Figure 11.1.

2. Attach manometer using a 1/4" (6mm) I.D. hose.

3. Light pilot and burner. Check pressure to ensure it is between the minimum and maximum recommended pressure settings (Table 11.1).

4. Turn off burner and pilot.

5. Disconnect hose and tighten the inlet (IN) pressure tap by turning screw clockwise. Screw should be snug. Do not over tighten.

6. Relight pilot and burner. Then reattach manometer to the inlet pressure tap (A) to verify the tap is completely sealed. Manometer should read no pressure.

11.1.2   Manifold Pressure Test

1. Light pilot. Loosen manifold (OUT) pressure tap by turning screw counter-clockwise. See (B) in Figure 11.1.

2. Attach manometer to pressure tap using a 1/4" (6mm) I.D. hose.

3. Light burner. Set burner to low and high settings. Check manometer reading. Refer to Table 11.2.

4. Turn burner and pilot off.

5. Disconnect manometer hose and tighten the manifold (OUT) pressure tap by turning screw clockwise. Screw should be snug. Do not over tighten.

6. Attach the manometer to the manifold pressure tap (B) to verify it is completely sealed. The manometer should read no pressure when pilot and burner are on.

Table 11.1 - Inlet Pressures		
Fuel	Natural Gas	Propane
Gas Supply	Min - Max	Min - Max
Inlet Pressure Tap (A)	5" - 10.0" WC (1.25 - 2.49 kPa) 7" WC (1.74 kPa) Recommended	11"-13" WC (2.74 - 3.24 kPa)

Table 11.2 - Manifold Pressures		
Fuel	Natural Gas	Propane
Gas Supply	Low - High	Low - High
Manifold Pressure Tap (B)	1.6" - 3.5" WC (0.40 - 0.87 kPa)	6.4"-10" WC (1.59 - 2.49 kPa)

B) Manifold Pressure Tap   A) Inlet Pressure Tap

Figure 11.1 - Pressure Check Taps
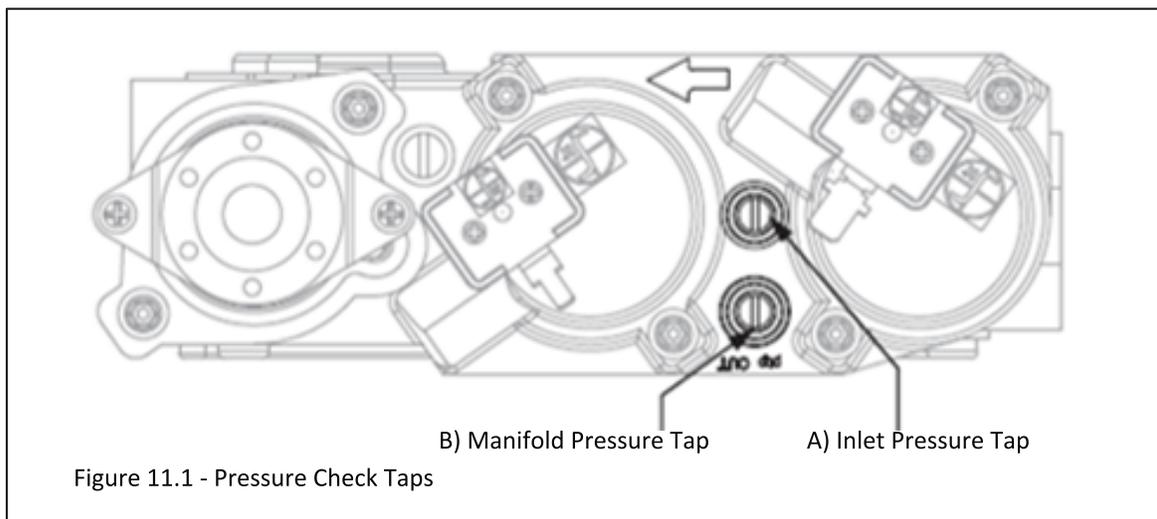
11.2 Flame Appearance Adjustment

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

Burner flame appearance and characteristics are affected by altitude, fuel quality, venting configuration, and other factors. After installation, this appliance may need additional adjustments to achieve optimum flame appearance and visual aesthetics.

11.2.1 Burner Venturis

WARNING: VENTURI ADJUSTMENT MUST BE DONE BY A QUALIFIED SERVICE TECHNICIAN.

NOTE: Burner venturi air shutter settings have been factory set. Refer to Table 11.3.

When this appliance is first lit, the burner flames will appear blue. During the first 15 minutes of operation, flame appearance will gradually turn to the desired yellow appearance. If the flames remain blue or become dark orange with evidence of sooting (black tips), adjustment of the air shutter opening may be necessary.

Regardless of venturi orientation, closing the air shutter will achieve a desired yellow flame, but may produce soot on the glass. Opening the air shutter will cause a short, blue flame that may lift off the burner.

11.2.2 Venturi Opening Adjustments

IMPORTANT: Slight adjustments to the venturi openings will create significant changes. Adjust at slight increments until desired look is achieved. Refer to Table 11.4. Always burn the fireplace for at least 15 minutes, and allow the appliance ample time to cool before making any further adjustments.

NOTE: If soot is present on the glass, check glass media placement before adjusting the venturis.

1. Remove the safety barrier, glass frame assembly, glass media, and lava rock (if installed). Remove media tray.

2. Loosen the screw on burner venturis and adjust as necessary. Re-tighten screws.

3. Reinstall all components previously removed.

Table 11.3 - Factory Set Venturi Openings		
	Natural Gas	Propane
Left Burner	1/8" (3mm)	1/2" (13mm)
Center Burner	1/8" (3mm)	1/2" (13mm)
Right Burner	1/8" (3mm)	1/2" (13mm)
Bottom Burner	1/8" (3mm)	3/8" (10mm)

Table 11.4 - Flame Appearance Venturi Adjustment		
Flame Characteristics	Cause	Solution
Dark, orange flame with black tips	Venturi closed too far	Open venturi slightly
Short, blue flames	Venturi open too far	Close setting slightly
Lighting (ghosting) flames	Gas pressure too high and/or venturi closed too far	Check manometer settings and/or open venturi setting slightly

11.2 Flame Appearance Adjustment (continued)
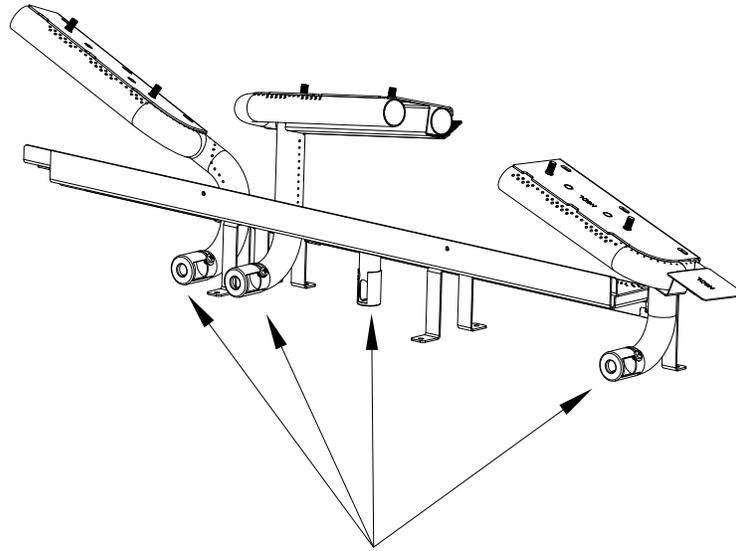
Figure 11.2 - Burner Venturi Location

Burner Venturis
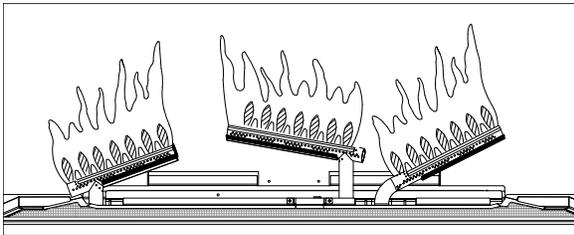
Lazy, yellow flames-no adjustment necessary
(Ideal Flame Appearance)
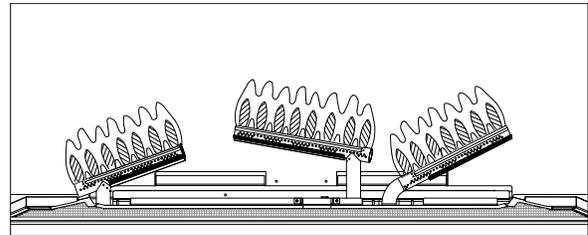
Short, blue flames
(Venturi open too far. Close venturi slightly)
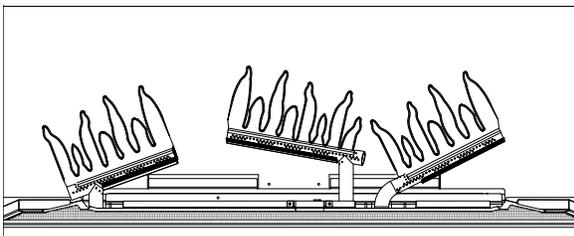
Dark, orange flames with black tips
(Venturi closed too far. Open venturi slightly)
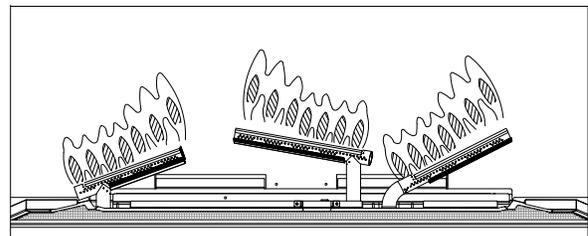
Lifting (ghosting) flames
(Venturi closed too far. Open venturi slightly)
OR
(Gas pressure too high-check with manometer)

Figure 11.3 - Flame Appearance

11.2 Flame Appearance Adjustment (continued)

11.2.3 Vent Restriction (after installation)

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

WARNING: Improper vent installation may cause the burner flames to lift or "ghost." Perform a visual check on flame appearance after restriction adjustment to ensure proper performance.

Vertical terminations may display an active, compact flame. If this appearance is not desirable, a restrictor plate may need to be installed or modified after vent termination installation. Access to the vent exit for restriction can be reached through the fireplace baffle. See Figure 11.4

Refer to Table 11.5 and Figure 11.3 for flame appearance adjustments. Allow the fireplace to burn for 15 minutes before making any adjustments.

Restrictor Plate Installation

1. Remove the safety screen and glass frame assembly.

2. Bend the tabs on the restrictor plate (included in fireplace components packet) to approximately 80° angles. This will create tension when the restrictor plate is inserted into the exhaust pipe.

3. Insert restrictor plate into the 5" (127mm) exhaust pipe with the tabs pointing towards you. See Figure 11.4.

4. Reinstall all components previously removed.

Restrictor Plate Modification

1. Remove the safety screen barrier and glass frame assembly.

2. Remove the restrictor plate from the 5" (127mm) exhaust pipe by pulling the restrictor plate down and out. See Figure 11.4.

3. Make necessary modifications to achieve desired flame appearance. See Table 11.5.

4. Insert restrictor plate into the 5" (127mm) exhaust pipe with the tabs pointing towards you.

5. Reinstall all components previously removed.

| Table 11.5 - Restrictor Plate Adjustment Guidelines		
Flame Appearance	Draft Problem	Solution
Short, Flickering	Excessive draft and/or not enough restriction	Add restrictor plate
Lifting, ghosting*	Insufficient draft	Remove inner ring(s) on restrictor plate or remove restrictor plate
*If flames continue to lift or ghost after opening the restrictor plate and verifying correct vent installation, shut off the gas supply and call a qualified service technician.		
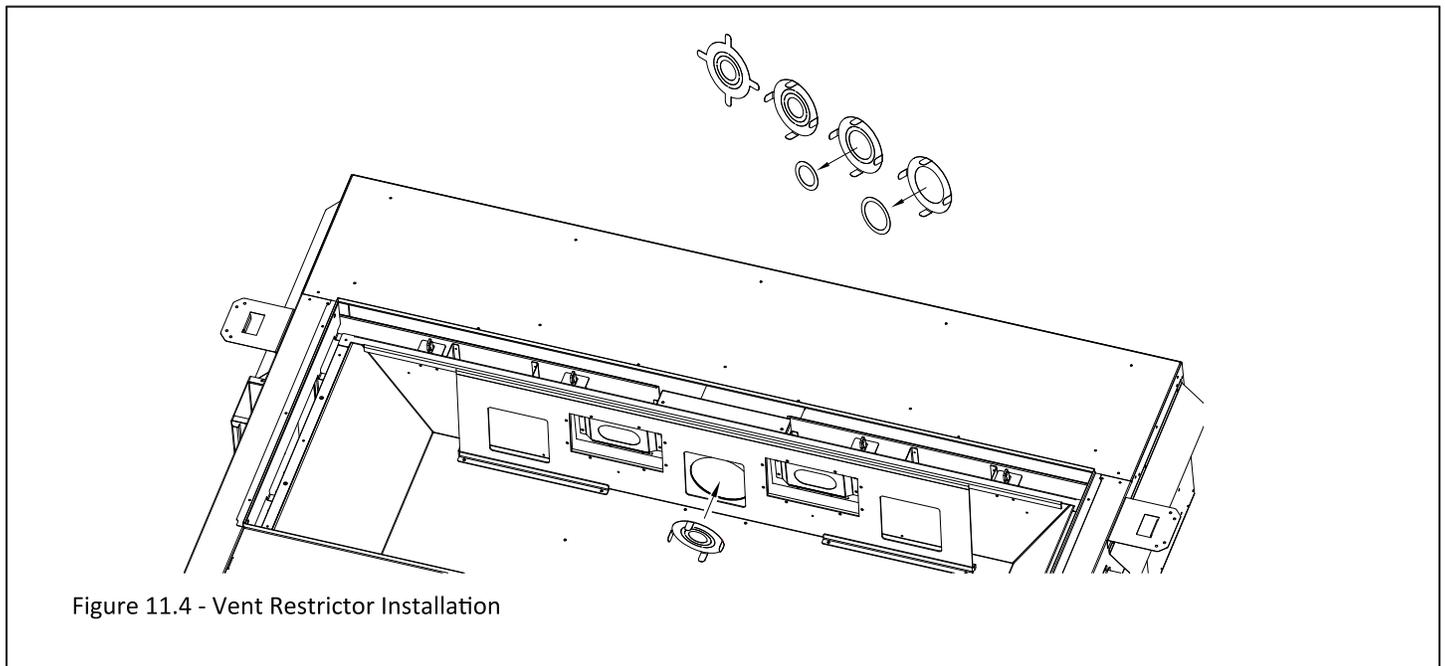
Figure 11.4 - Vent Restrictor Installation

12.0 Maintenance

ATTENTION: Installation and repair should only 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, pets, etc. It is imperative that control compartments, burners, and circulating air passageways of the appliance be kept clean. Use a vacuum to clean all components.

WARNING: The appliance area must be kept clear and free from combustible materials, gasoline and other flammable vapors and liquids.

CAUTION: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

12.1 Firebox

Performed by: Qualified Service Person

Frequency: Annually
Action:

- Vacuum and clean any debris in the firebox that is not supposed to be there.
- Inspect and operate the bottom latch assembly for the glass frame assembly. Verify the bottom latch assembly is free from obstruction to operate. The handles must have spring tension but be able to move forward freely.

12.2 Fan

CAUTION: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

Performed by: Qualified Service Person
Frequency: Annually
Action:

- Disconnect the fan from electrical current and vacuum.
- The bearings are sealed and require no oiling.

12.2.1 Fan Kit Removal

1. Disconnect electrical power.
2. Remove the safety barrier screen and component access cover.
3. Disconnect the fan kit wiring from the control module.
4. Rotate and tilt the fan kit up to remove the fan from the air channel.
5. Remove the fan kit and service.
6. Reinstall in reverse order. Reinstall all previously removed components

12.3 Vent System

NOTE: If the vent-air intake system is disassembled for any reason, reinstall per instructions provided with installation. If installing Kozy Power Vent (#KPV), please reference the manual included with the kit. For natural draft vent installation, refer to section 7.0 Venting System Requirements and Information.

Performed by: Qualified Service Person
Frequency: Annually
Action:

- Examination of the vent system is required.
- Inspect the condition of vent and vent terminal for sooting or obstruction and correct if present.
- The flow of combustion and ventilation air must not be obstructed.

12.4 Glass Assembly

CAUTION: Do not operate appliance with the glass assembly removed, cracked, or broken. Use protective gloves to handle any broken or damaged glass assembly components.

WARNING: Do not use substitute materials.

WARNING: Avoid striking or slamming glass assembly. Avoid abrasive cleaner. DO NOT clean glass while it is hot.

IMPORTANT: Any safety screen, guard, or barrier removed for servicing the appliance must be replaced prior to operating the appliance.

Performed by: Homeowner

Frequency: Annually
Action:

- Prepare a work area large enough to accommodate the glass assembly on a flat, stable surface.
- Remove safety screen and glass frame assembly.
- Clean glass window with a suitable fireplace glass cleaner using a soft cloth. Abrasive cleaners must not be used. Be careful not to scratch the glass when cleaning.
- Reinstall glass assembly and safety screen. Do not operate fireplace without safety screen.

Performed by: Qualified Service Person

Frequency: Annually
Action:

- Clean glass window with a suitable fireplace glass cleaner using a soft cloth. Abrasive cleaners must not be used. Be careful not to scratch the glass when cleaning.
- Inspect the glass for cracks, scratches, and nicks.
- Verify the glass assembly is properly intact and not damaged.
- Replace the glass and the assembly #701-066T as necessary.
- Only Hussong Mfg. Co., Inc. will supply the replacement of glass assembly as a complete unit.

The glass assembly and the spring loaded latches act as the pressure relief mechanism.

Performed by: Qualified Service Person

Frequency: Annually
Action:

- Follow the steps above to verify the glass assembly.
- Verify that the spring loaded latches move freely as outlined in Section 12.1.

12.5 Burner and Pilot System

The burner assembly may be removed for easier access to the control compartment. **See Section 8.8 Control Board Removal and Installation** for instructions. **See Section 11.2 Flame Appearance Adjustment** for information on adjusting burner appearance.

Verify gas supply is turned on and filled. Consult with plumber or gas supplier as necessary.

Performed by: Qualified Service Person

Frequency: Annually
Action:

- Vacuum all components of the burner system.

- Check all accessible gas-carrying tubes, connections, pipes and other components for leaks.

- Inspect the operation of the flame safety system Pilot or Flame rectification device. Visually check pilot light when in operation.

- Inspect and ensure the lighting of the main burner occurs within (4) seconds of the main gas valve opening. Check for faulty or incorrect wiring and correct or replace as necessary. Inspect primary air openings (burner ports) for blockage, especially near the pilot. Burner ports in burner tubes are shown in Figure 12.1.

- Visually check burner flame pattern when in operation. Flames should be steady, not lifting or floating.

- Test and measure the flame failure response time of the flame safety system. It must de-energize the safety shutoff in no more than 30 seconds.

Burner Ports
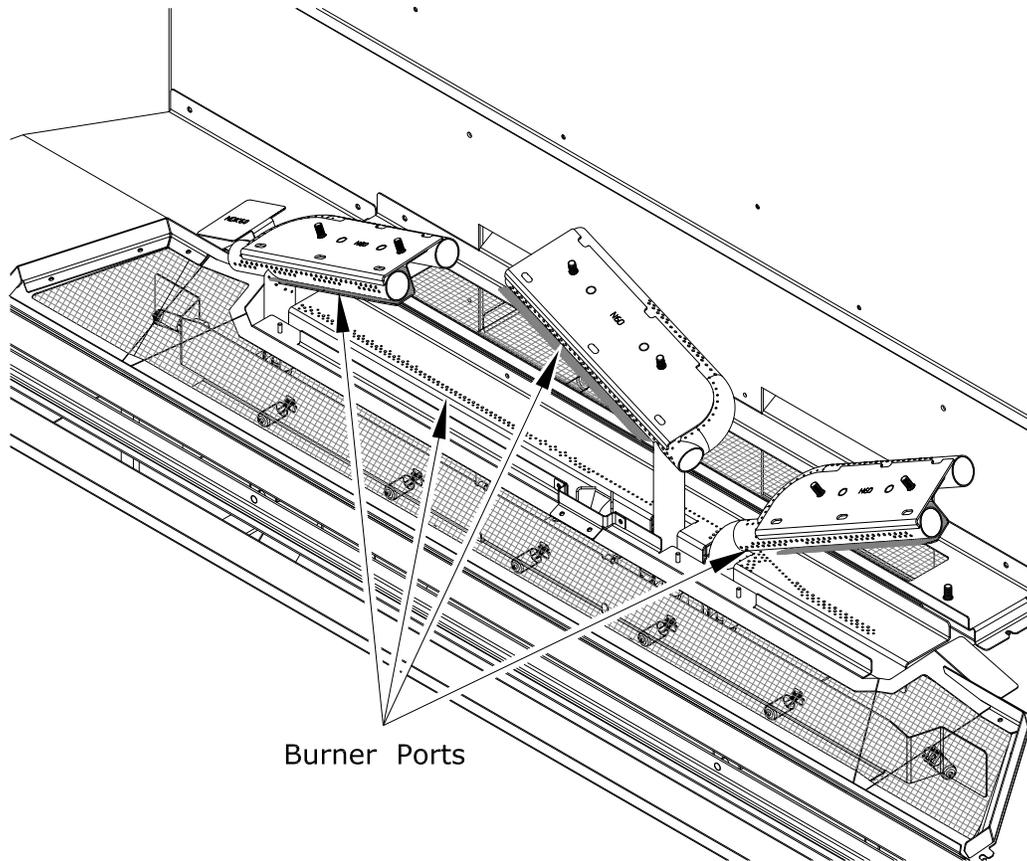
Figure 12.1 - Burner System

12.5 Burner and Pilot System (continued)
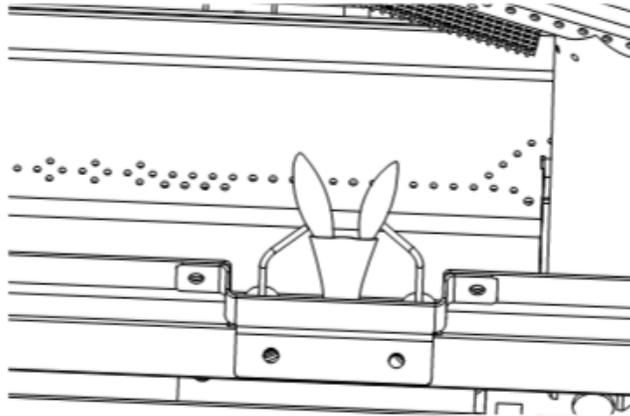
Figure 12.2 - Correct Pilot Flame Appearance
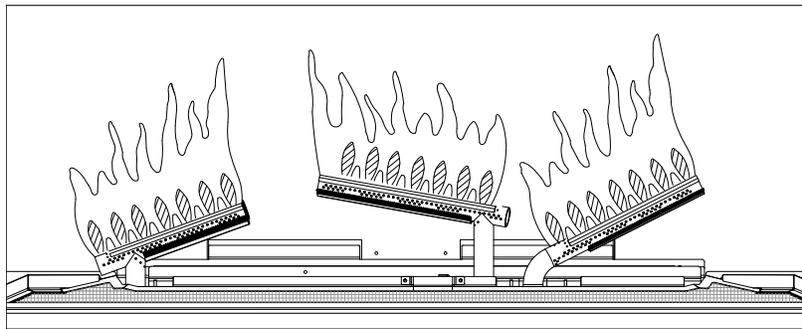
Lazy,yellow flames-no adjustment necessary
(Ideal Flame Appearance)

Figure 12.3 - Correct Burner Flame Appearance

12.6 Top Halogen Light Kit

Note: The top light kit will have the halogen bulbs installed from the factory. Follow the instruction below for bulb replacement. See Section 8.9 for more information.

Performed by: Qualified Service Person

Frequency: Replace as needed.
Action:

1. Remove the fireplace safety screen, exterior media tray, and firebox glass.

2. Remove the light kit cover, glass, and glass gasket via (4) screws.

3. Install (1) halogen bulb into each lamp base. There are (2) locations in the top of the firebox for halogen bulbs for the top light kit.

4. Reinstall all components previously removed. Ensure the glass gasketing is correctly installed.

13.0 Troubleshooting

ATTENTION: Troubleshooting must be performed by a qualified technician.

Before proceeding with the steps in the following troubleshooting guide,

- Verify proper 120VAC power supply to the control module.
- Verify the remote control batteries are fresh and installed with correct polarity.
- Verify all connections between the wire harnesses and the system components are proper and positive.
- Verify inlet pressure meets the recommended inlet pressure. If necessary, adjust line pressure regulator.
- Verify the communication link is established between the remote control and the IFC module.
- CAUTION: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation.
- Verify proper operation after servicing.

Issue	Cause	Solution
Pilot will not light	Electrical power interrupted or disconnected	Restore electrical power to appliance or use battery backup.
		Ensure batteries are fully charged if using battery backup as power source.
	Wiring disconnection	Use wiring schematic in this manual to determine that all wiring connections are secure and correct. Refer to Section 9.0, Electrical Information.
	Gas supply turned off	Check remote shut-off valves from the appliance. Usually there is a valve near the main gas line. There may be more than (1) valve between the appliance and main gas line.
Pilot will not stay lit	No propane in tank	Check propane tank. Refill if necessary.
	Low gas pressure	Consult a plumber or gas supplier
Can be caused by situation such as a bent line, too narrow diameter or pipe, or a low line pressure
	Pilot adjustment screw not sealed	Seal pilot adjustment screw. Do not over-tighten.
	Pilot flame not making contact with the flame rectification sensor on the pilot assembly	Verify the pilot envelopes the top of the flame sensor and extends far enough onto the burner for ignition
Pilot flame always on, or will not extinguish	Control system set to CPI mode.	Set control system to IPI mode.
Flame burns blue and lifts off burner	Improper venturi setting	Venturi air shutter may need to be closed slightly to allow less air into the gas mix. Refer to section 11.2.1, Burner Venturis.
	Incorrect vent cap installation	Adjust if necessary.
	Blockage or leakage of the vent system	Check the vent pipes for leaks and the vent cap for debris. Repair the vent pipes or remove debris from vent cap, if necessary.

Issue	Cause	Solution
Burner flame will not light	ON/OFF rocker switch in OFF position	Switch rocker switch to ON position.
	Gas supply turned off	Check for multiple shut-offs in the supply line. Verify gas supply is turned on.
	Low gas supply	Consult with plumber or gas supplier. Check propane tank. Refill if necessary.
	Wiring disconnection or improper wiring	Check for faulty or incorrect wiring. Refer to Section 9.0 Electrical Information.
	Plugged burner orifice	Remove blockage.
	Pilot flame	Verify the pilot flame is properly directed to ignite burner. See pilot flame troubleshooting in this sections above.
	Remote control not working	Replace Batteries.
	No call for heat / Burner will not ignite	Verify remote control is powered ON and thermostat operation is turned OFF.
Pilot and burner extinguish while in operation	No propane in tank	Check propane tank, Refill if necessary.
	Incorrect firebox glass assembly installation	Refer to Section 8.1 Glass Frame Assembly (Firebox Glass).
	Incorrect vent cap installation	Adjust if necessary.
	Vent cap blockage	Remove debris if necessary.
	Improper pitch on horizontal venting	1/4" (6mm) rise for ever 12" (305mm) of travel is required on horizontal venting.
	Exhaust vent pipe leaking exhaust gases back into firebox	Check for leaks and repair if necessary.
	Excessive draft	A restrictor plate may need to be installed or modified. Refer to section 11.2.3 Vent Restriction (after installation).

Issue	Cause	Solution
Soot appears on glass	Improper log placement (if installed)	Refer to log set instructions.
	Improper media placement	Ensure burner / perimeter media is installed per instructions.
	Improper venturi setting	Venturi air shutter may need to be opened slightly to allow more air into the gas mix. Refer to section 11.2.1, Burner Venturi.
	Incorrect vent cap installation	Adjust if necessary.
	Vent cap blockage	Remove debris if necessary.
No reaction to command on SIT fireplace remote	Remote control batteries low	Replace the batteries.
	No communication between remote control and control module	Reprogram remote control to IFC module
	A maximum number of failed ignitions or flame restorations has been reached.	Reset IFC module
	Battery Backup Batteries Low (if applicable)	Replace the batteries.

14.0   Replacement Parts List

KOZY HEAT
F I R E P L A C E S

HUSSONG MANUFACTURING CO., INC.
P.O. Box 557, 204 Industrial Park Road
Lakefield, Minnesota USA 56150-0577

Replacement parts are available through your local dealer. Contact your local dealer for availability and pricing. The following warning is for replacement parts for this appliance.

⚠ **WARNING: This product can expose you to chemicals including Lead, which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information, visit www. P65Warnings.ca.gov.**

Control Board and Parts			
S.I.T. Complete Board Assembly - Natural Gas	N60TL-130	S.I.T. Transmitter (Remote Control)	700-408
S.I.T. Complete Board Assembly - Propane	N60TL-131	Burner Orifice - #48 (Left, Center, and Right) - Natural Gas	700-248
S.I.T. IPI Gas Valve - Natural Gas	700-660	Burner Orifice - #54 (Bottom) - Natural Gas	700-254
S.I.T. IPI Gas Valve - Propane	700-660-1	Burner Orifice - #1,10mm (Left, Center, and Right) - Propane	700-110M
Main Power Wire Harness	700-350A	Burner Orifice - #65 (Bottom) - Propane	700-265
Proflame 2 IFC Module	700-652	Left Burner Assembly	NK60TL-350
SIT Wire Harness Assembly	700-653	Right Burner Assembly	NK60TL-351
Fan / Light Kit Wire Harness	700-655	Center Burner Assembly	NK60TL-352
ON/OFF Wire Harness	700-656	Bottom Burner Assembly	NK60TL-035
Ember Bed AUX Harness	800-AUX	Left Burner Rockwool Screen	NK60TL-350S
IPI Pilot Assembly - Natural Gas	900-064A	Right Burner Rockwool Screen	NK60TL-351S
IPI Pilot Assembly - Propane	900-064-1	Center Burner Rockwool Screen	NK60TL-352S
Pilot Orifice - Natural Gas - #.023NG	700-123	36" Black 3/8" Gas Line (into valve)	700-383
Pilot Orifice - Propane - #.014LP	700-114	18" Black Flex Tube	700-213B
PSE Conversion Kit - Natural Gas	NCK-NK60TL-P30	15" Tube Flare x Brazed Fitting	700-227F
PSE Conversion Kit - Propane	LCK-NK60TL-P30	12.5" Tube Flare X Brazed Elbow Casting	700-194
Natural Gas - Valve Stepper Motor	700-503		
Propane - Valve Stepper Motor	700-503-1		

Glass and Glass Parts

Glass with Gasket - 61-3/4" x 22-1/8"	701-066T
1-1/8" Glass Gasket	900-007
Replacement Valance	NK60TL-005
Glass Latch Tool	JOR-GLT

Safety Screen

Safety Screen Barrier	NK60TL-ES

Optional Surround

Rectangle Surround	NK60TL-RS

Light Kits

20W Halogen Bulb	600-676
Light Kit - Top	600-TLK
Light Kit - Ember Bed	NK60TL-LKT
1.5lb. (0.68kg) Ember Bed Crushed Glass *	600-697

*9 lbs. used across fireplace - Order up to (6) bags of 1.5 lbs. to replace glass

Fan Kit

Fan Kit	SL42-028

Additional Components

Vent Heat Shield Assembly	NK60TL-HHS
5" (127mm) Restrictor Plate	900-086
Manual 3/8" Gas Shut-off Valve	700-380
Component Access Cover	NK60TL-027AC

Log Set Replacement Parts

	Traditional Log Set	Birch Log Set
14 Piece Log Set	**NK60TL-500**	**NK60TL-B501**
Log #1	TL60-1	TL60-B1
Log #2	TL60-2	TL60-B2
Log #3	TL60-3	TL60-B3
Log #4	TL60-4	TL60-B4
Log #5	TL60-5	TL60-B5
Log #6	TL60-6	TL60-B6
Log #7	TL60-7	TL60-B7
Log #8	TL60-8	TL60-B8
Log #9	TL60-9	TL60-B9
Log #10	TL60-10	TL60-B10
Log #11	TL60-11	TL60-B11
Log #12	TL60-12	TL60-B12
Log #13	TL60-13	TL60-B13
Log #14	TL60-14	TL60-B14

Limited Lifetime Warranty

Warranty Coverage

Hussong Manufacturing Company, Inc. (Hussong Mfg.) warrants this Kozy Heat gas appliance from the date of purchase to the original purchaser, that it is free of defects in materials and workmanship at the time of manufacture. Registering your fireplace warranty does not require any documents to be sent in to Hussong Mfg. Please retain your proof of purchase reflecting the date of purchase along with the serial number and model of your fireplace for any future warranty claims.

If a defect is noted within the warranty period, the customer should contact their authorized dealer for service within 30 days.

30 Days: Parts & Labor*

- Paint
- Light bulbs
- Gasket material
- Glass media and media dam

Year 1: Parts & Labor*

All parts and material except the items listed in the 30 day warranty and any exclusions or limitations that may apply

Hussong Mfg. will issue labor reimbursement to an authorized dealer only. Hussong Mfg. will not be liable for charges occurred as a result of any service performed by a non-authorized service provider, without pre-authorization.

Years 2 through Lifetime: Parts Only

- Firebox
- Heat Exchanger
- Logs
- Burner tube or pan
- Outer shell
- Heat shield(s)
- Front Viewing Glass (thermal shock only)
- Refractory Firebox liner (excluding enamel and glass panels)

EXCLUSIONS AND LIMITATIONS

1. **This appliance must be installed by a licensed, authorized service technician or contractor. It must be installed, operated and maintained at all times in accordance with the instructions in the owner's manual or the warranty is void.**

2. **This warranty is nontransferable and is made to the original purchaser only.**

3. **This warranty excludes standard wear and tear of the appliance which is considered normal usage over time.**

4. **Discoloration and some minor expansion, contraction or movement of certain parts, resulting in noise, is normal and not a defect.**

5. **Warranty is automatically voided if the appliance's serial number and/or testing label is removed or if the appliance is altered or tampered with in any way.**

6. **Warranty is void if the appliance is subject to submersion in water or prolonged periods of dampness or condensation. Any damage to any part of the appliance due to water or weather damage which is the result of, but not limited to, improper chimney/venting installation will also render this warranty void.**

7. **This warranty does not cover installation and operational related problems such as environmental conditions, nearby trees, buildings, hilltops, mountains, inadequate venting or ventilation, excessive offsets, negative air pressures caused by any mechanical systems.**

8. **Chimney components and other Non-Hussong Mfg. accessories used in conjunction with the installation of this appliance are not covered under this warranty.**

9. **Damage to plated surfaces or accessories, if applicable, caused by scratches, fingerprints, melted items or other external sources left on the surfaces from the use of cleaners is not covered under this warranty.**

Limited Lifetime Warranty

EXCLUSIONS AND LIMITATIONS (continued)

10. **It is expressly agreed and understood that this warranty is Hussong Mfg.'s sole obligation and purchaser's exclusive remedy for defective fireplace equipment. Hussong Mfg. is free of liability for any damages caused by this appliance, as well as inconvenience expenses and materials. Incidental or consequential damages are not covered by this warranty. In some states, the exclusion of incidental or consequential damage may not apply. Hussong Mfg. shall not be held to implied warranties and this warranty shall replace all previous warranties.**

11. **This limited lifetime warranty is the only warranty supplied by Hussong Mfg. Any warranties extended to the purchaser by the dealer/distributor, whether expressed or implied, are hereby disclaimed and the purchaser's recourse is expressly limited to the warranties set forth herein.**

12. **Any part repaired or replaced during the limited warranty period will be warranted under the terms of the limited warranty for a period not to exceed the remaining term of the original limited warranty.**

13. **Any replacement part repaired after the warranty period will include a 90 day parts coverage.**

14. **Hussong Mfg. may require the defective part to be returned using a pre-authorized RGA number or a photo of the defective component. Failure to provide either can result in a denied claim.**

15. **This warranty does not cover the appliances ability to heat a desired space, as there are many factors that can impact the heating performance in each home. Consideration should be implied to the appliance's location, room size, home design, environmental conditions, insulation, and tightness of the home.**

16. **Hussong Mfg. reserves the right to make changes at any time, without notice, in design, material, specifications, and prices. Hussong Mfg. reserves the right to discontinue models and products.**

July 2025