HUSSONG MANUFACTURING

KOZY HEAT FIREPLACES

Quality Fireplaces for Life

INSTALLATION AND OPERATION MANUAL

INSTALLER: LEAVE THIS MANUAL WITH THE APPLIANCE.

CONSUMER: RETAIN THIS MANUAL FOR FUTURE REFERENCE.

DO NOT DISCARD

Model: #55616

TWO HARBORS

DIRECT VENT FIREPLACE

This appliance may be installed in an aftermarket permanently located, manufactured (mobile) home, where not prohibited by local codes.
A manufactured home (USA only) or mobile home OEM installation must conform with the *Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280,* or when such a standard is not applicable, the Standard for *Manufactured Home Installations, ANSI/NCSBCS A225.1,* or Standard for *Gas Equipped Recreational Vehicles and Mobile Housing, CSA Z240.4*

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

- **Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.**

IF YOU SMELL GAS:

- **Do not light any appliance.**
- **Do not touch any electrical switch: do not use any phone in your building.**
- **Immediately call gas supplier from a neighbors phone. Follow the gas supplier instructions.**
- **If you cannot reach your gas supplier, call the fire department.**
- **Installation and service must be performed by a qualified installer, service agency or the gas supplier.**

This appliance is only for use with the type (s) of gas indicated on the rating plate.
A conversion kit is supplied with the appliance.

WARNING

HOT GLASS WILL CAUSE BURNS.

DO NOT TOUCH GLASS UNTIL COOLED.

NEVER ALLOW CHILDREN TO TOUCH GLASS.

NATIONAL FIREPLACE INSTITUTE NFI CERTIFIED www.nficertified.org

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

Tested & Listed By O-T-L C US Portland Oregon USA

OMNI-Test Laboratories, Inc.

INTRODUCTION

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

CONGRATULATIONS!

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

Jim Hussong
President

Dudley Hussong
Board Chairman

Homeowner Reference Information
We recommend that you record the following information about your fireplace.

Model Name:_____ Date purchased/installed:_____

Serial Number:_____ Location on fireplace:_____

Dealership purchased from:_____ Dealer Phone:_____

Notes:_____

_____

_____

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SAFETY INFORMATION

This fireplace has been tested to and complies with ANSI Z21.88b-2003·CSA 2.33b-2003·CSA P.4.1-09 "VENTED GAS FIREPLACE HEATERS" by OMNI-Test Laboratories, Portland, OR. Installation must conform with local building codes or in the absence of local building codes, with the National Fuel Gas Code, ANSIZ223.1/NFPA 54 - Current Edition, or the Natural or Propane Installation Code, CSAB149.1

- **Installation and repair should be done only by a qualified service person. The appliance should be inspected by a qualified service person before use. Annual inspection by a qualified service person is required to maintain warranty. More frequent cleaning may be required due to excessive lint from carpeting, bedding materials, etc. It is imperative that control compartments, burners and circulation air passageways of the appliance be kept clean.**
- **This fireplace insert is to be installed into a solid fuel masonry or factory built non-combustible fireplace that has been installed in accordance with the National, Provincial, State and local building codes.**
- **Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns or clothing ignition.**
- **Young children should be carefully supervised when they are in the same room as the appliance. Toddlers, young children and others susceptible to accidental contact burns. A physical barrier is recommended if there are at risk individuals in the house. To restrict access to a fireplace or stove, install an adjustable safety gate to keep toddlers, young children and other at risk individuals out of the room and away from hot surfaces.**
- **Clothing or other flammable material should not be place on or near the appliance.**
- **Adequate accessibility clearances for servicing and proper operation must be maintained.**
- **This appliance must not share or be connected to a chimney flue serving any other appliance.**
- **Keep area around the appliance clear of combustible materials, gasoline and other flammable vapor and liquids.**
- **The flow of combustion and ventilation air must not be obstructed.**
- **Due to high temperatures the appliance should be located out of traffic and away from furniture and draperies.**
- **The glass front or any part removed for servicing the appliance must be replaced prior to operating the appliance. Work should be done by a qualified service technician.**
- **Clean glass only when cool and only with non-abrasive cleansers.**
- **Do not operate this appliance with the glass/frame assembly removed, cracked or broken. The glass assembly, Part #TWO-015T, shall only be replaced as a complete unit, as supplied by Hussong Mfg. Co., Inc. Replacement of glass assembly must only be performed by a licensed or qualified service person. DO NOT SUBSTITUTE MATERIALS.**
- **Do not strike or slam glass assembly.**
- **Any safety screen or guard removed for servicing the appliance must be replaced prior to operating the appliance.**
- **Under no circumstances should any solid fuel (wood, coal, paper or cardboard etc.) be used in this appliance.**
- **Keep burner and control compartment clean.**
- **Do not use this fireplace if any part has been under water. Immediately call a qualified service technician to inspect this appliance and to replace any part of the control system and any gas control which has been under water.**

FEATURES

STANDARD FEATURES

- High efficiency
- Zero clearance
- High quality lifetime glass
  21" x 14" (533mm x 356mm)
- Quick latch glass frame assembly
- Accepts rigid pipe
- IPI system
- Patented log design
- Refractory brick lining
- Minnesota Energy Code compliant to 50 pascals

SAFETY FEATURES

- **Each unit factory tested!**
- Tested by OMNI Corporation
- Sealed combustion chamber
- Intermittent or standing pilot ignition
- Removable control board
- Automatic pressure relief glass system
- Battery back-up in the event of power failure
  (excluding fan)
- Bedroom and mobile home approved
- Canadian approved

OPTIONAL FEATURES

- Decorative full door faces in various designs and colors
- Red Brick Refractory
- Modular cabinet system (patent pending)
- Remote control or thermostat remote control
- Wall mount thermostat / wireless wall mount thermostat
- Automatic fan kit (1) - 75 CFM

WEIGHT

- Fireplace Weight (as packaged for shipment)
  76lbs. (30.4kg)

COMMONWEALTH OF MASSACHUSETTS REQUIREMENTS

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

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

INSTALLATION OF CARBON MONOXIDE DETECTORS

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

In the event that the side wall horizontally vented gas fueled equipment is installed in a crawl space or attic, the hard wired carbon monoxide detector with alarm and battery back-up may be installed on the next adjacent floor level.

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

APPROVED CARBON MONOXIDE DETECTORS

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

SIGNAGE

A metal or plastic identification plate shall be permanently mounted to the exterior of the building at a minimum of eight (8) feet above grade directly in line with the exhaust vent terminal for the horizontally vented gas fueled heating appliance or equipment. The sign shall read, in print no less the one-half inch (1/2) in size, **"GAS VENT DIRECTLY BELOW. KEEP CLEAR OF ALL OBSTRUCTIONS".**

INSPECTION

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

EXEMPTIONS

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

MANUFACTURER REQUIREMENTS - GAS EQUIPMENT VENTING SYSTEM PROVIDED

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

Detailed instructions for the installation of the venting system design or the venting system components; and

A complete parts list for the venting system design or venting system.

MANUFACTURER REQUIREMENTS - 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.

SPECIFICATIONS

Two Harbors Physical Dimensions

	DESCRIPTION	Height	Width	Back Width	Depth	Top Stand-off Height	Side Stand-off Width	Full Door Face Height	Full Door Face Width	Viewing Area Height	Viewing Area Width
FIREPLACE DIMENSIONS	INCHES	31-1/2	18-1/2	5-1/4	14-3/8	1	1/2	33-15/16	21	17-1/2	11-7/8
	MILLIMETERS	800	470	133	365	25	13	862	533	444	302

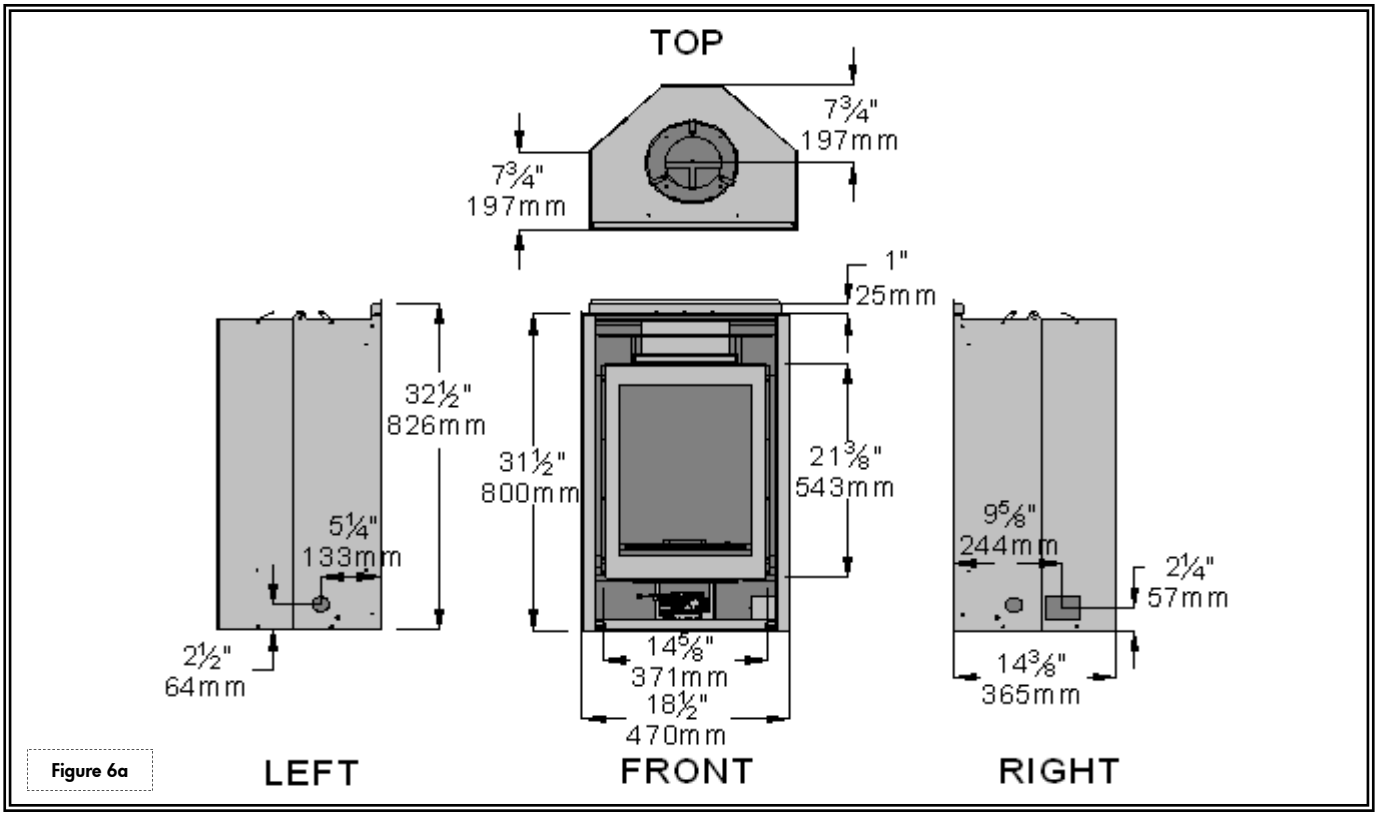


Figure 6a

CLEARANCES

- From face top - 1” (25mm)
- From unit left & right & back sides* - 1/2” (13mm)
- Unit side stand-offs to adjacent sidewall - 0” (0mm)
- To flooring - 0” (0mm)
- From venting -
  Horizontal - Top: 3” (76mm)
  Bottom and sides: 1” (25mm)
  Vertical - All sides: 1” (25mm)
- Unit base to ceiling - 52” (1.32m)
- Minimum enclosure height - 47” (1.19m)
- Top of unit to 3/4” (20mm) projection - 2-1/4” (57mm)
- Mantel must be a minimum of 7-1/2” (19mm) from top of fireplace face. The maximum depth at this height is 12” (305mm). See additional mantel clearance configurations on page 10 of this installation manual.

* This unit requires 1/2” (13mm) space between unit and framing at the back and both sides. Framing material may touch sides of stand-offs, but no material is allowed between stand-offs.

Side stand-off brackets must be re-positioned if installing in a Kozy Heat Cabinet. Refer to cabinet instructions for details.

SPECIFICATIONS

MODEL #55616 COMPONENTS LIST

PART NUMBER	DESCRIPTION
TWO-770-IPI	Control Board Assembly
700-203	Manual Gas Shut-off Valve
TWO-135	Burner Assembly
TWO-005	Glass Valance
TWO-15T	Glass with gasket
600-083-3	Double Receptacle /Speed Control Assembly with (3) Wire Nuts
OCK-S57L –I-TWO-SIT	LP Conversion Kit
900-086	5” Restrictor Plate
TWO-HHS	Horizontal Heat Shield

ADDITIONAL COMPONENTS REQUIRED

- Vent System: Approved venting listed on page 15 of this installation manual.
- Full Door Face: Various finishes available. See Dealer for details.

INSTALLATION OVERVIEW

1. Frame an opening for fireplace, allowing for vent installation and type of installation.
2. If masonry (optional) will be used, prepare foundation for masonry load. A lintel is required to support added weight above fireplace.
3. Insert fireplace into framing.
4. Install hearth (if applicable).
5. Complete gas line installation.
6. Complete electrical hook-up. Install any standard or optional electrical components at this time.
7. Complete venting installation.
8. Secure fireplace to flooring through holes located in outer box bottom and to framing with nailing flanges. Verify all clearances at this point.
9. Install mantel or cabinetry, allowing room for (required) decorative full doors / faces.
10. Install log set.
11. Install (required) full door face. Follow instructions included with face.
12. Verify proper operation of fireplace and all components.

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

PLACEMENT CLEARANCE REQUIREMENTS

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

FRAMING

WALL ROUGH OPENING

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

IMPORTANT: Non-combustible material man be applied around (but not directly to) fireplace face.

(APPLIES TO BOTH HORIZONTAL AND VERTICAL VENTING TERMINATIONS)

32-5/8" (829mm) High* x 19-3/4"(502mm) Wide x 14-7/8" (378mm) Deep.
*** Header must be in the 'up' position to maintain proper clearances from vent system to combustibles.**

MINIMUM ENCLOSURE HEIGHT: 47" (1.19m) from base of fireplace.

WARNING: Install fireplace on hard metal or wood surface extending full width and depth of fireplace. Minimum platform size: 19-3/4" (502mm) wide x 14-7/8" (378mm) deep.

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

IMPORTANT: Header must be positioned 'up' to maintain proper clearances from vent system to combustibles.

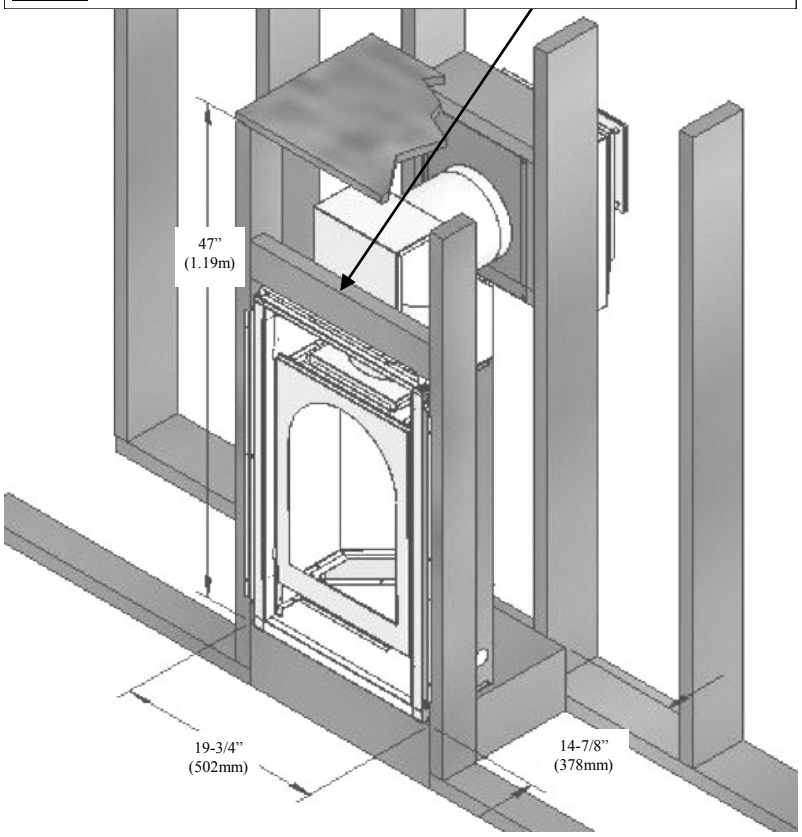


Figure 8a

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

If masonry is to be used (optional), prepare necessary foundation for the masonry load. When masonry construction is being used, a lintel must be used over top of fireplace to support the added weight.

Build hearth to desired size and height. If a hearth extension is desired, combustible material may be used. If carpeting or other combustible flooring is desired in front of fireplace, fireplace bottom must level or above flooring material level.

FRAMING

IMPORTANT: Vent cap location must be in compliance with guidelines on page 20 of this manual.

VERTICAL TERMINATIONS

Follow vent pipe manufacturer's installation instructions for vertical terminations. A minimum 1" (25mm) clearance on all sides of vertical vent pipe must be maintained.

HORIZONTAL TERMINATIONS

Follow vent pipe manufacturer's installation instructions for horizontal terminations. Include required 3" (76mm) top clearance (at wall pass-thru) and 1" (25mm) sides and bottom clearances for approved rigid vent systems.

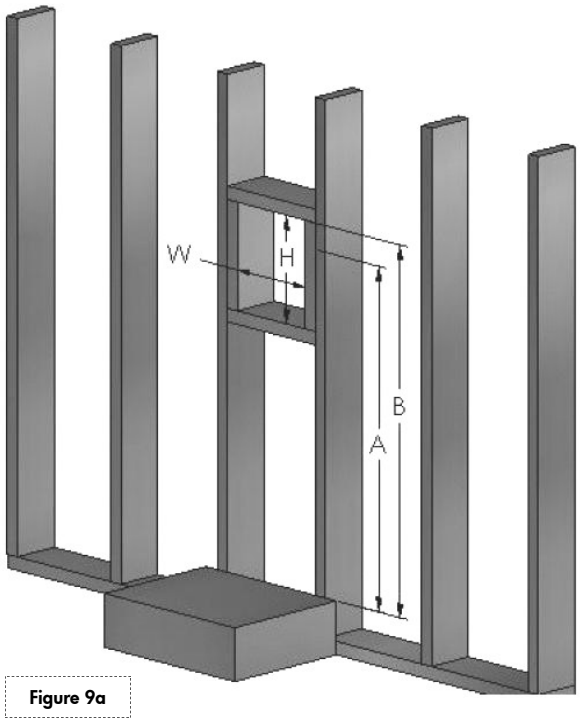
IMPORTANT: KOZY HEAT WALL THIMBLE PASS-THRU (#800-WPT or #800-WPT2) MUST BE USED ON ALL HORIZONTAL VENT RUNS. FOLLOW INSTRUCTIONS ON PAGE 15 OF THIS INSTALLATION MANUAL.

IMPORTANT: THE HORIZONTAL VENT HEAT SHIELD INCLUDED WITH THIS FIREPLACE MUST BE INSTALLED WHEN USING A 90-DEGREE ELBOW DIRECTLY OFF TOP OF UNIT TO HORIZONTALLY POSITION VENT SYSTEM.

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

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

MINIMUM HORIZONTAL FRAMING DIMENSIONS				
	VENT PIPE TOP (A)	FRAMED OPENING TOP (B)	TERMINATION WIDTH (W)	TERMINATION HEIGHT (H)
RIGID PIPE	41-1/4" (1048mm)	44-1/4" (1124mm)	10-7/8" (276mm)	12-1/2" (318mm)



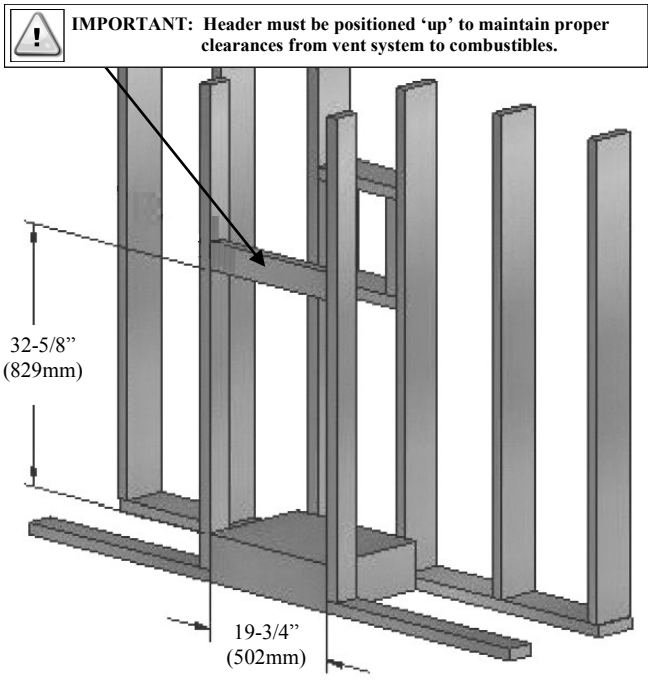


Figure 9a

MANTEL REQUIREMENTS

IMPORTANT: KOZY HEAT WALL THIMBLE PASS-THRU (#800-WPT or #800-WPT2) MUST BE USED ON ALL HORIZONTAL VENT RUNS. FOLLOW INSTRUCTIONS ON PAGE 17 OF THIS INSTALLATION MANUAL.

IMPORTANT: THE HORIZONTAL VENT HEAT SHIELD INCLUDED WITH THIS FIREPLACE MUST BE INSTALLED WHEN USING A 90-DEGREE ELBOW DIRECTLY OFF TOP OF UNIT TO HORIZONTALLY POSITION VENT SYSTEM.

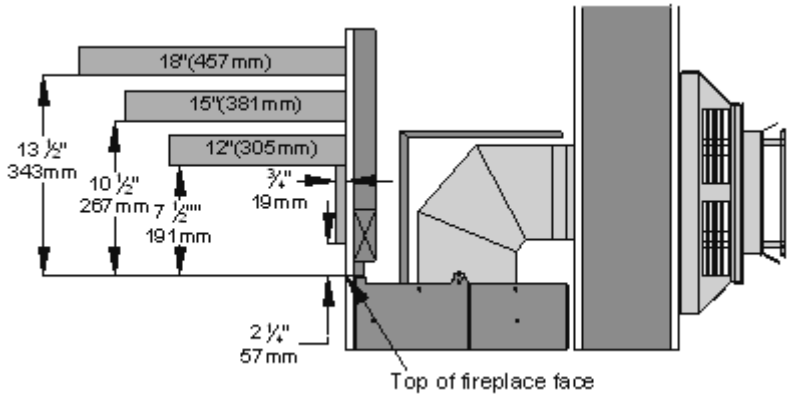
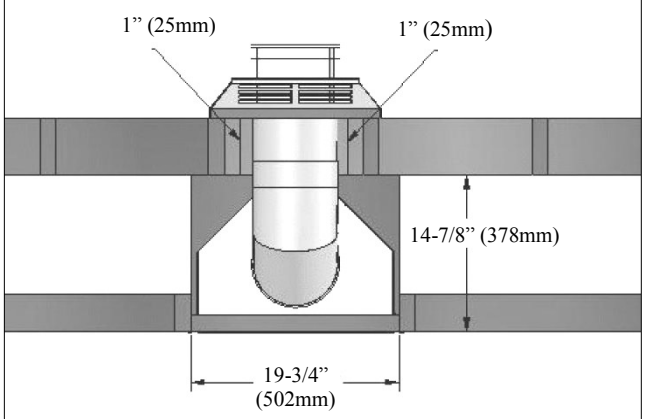


Figure 10a

TYPICAL INSTALLATION OPTIONS

TYPICAL HORIZONTAL INSTALLATION



TYPICAL VERTICAL INSTALLATION

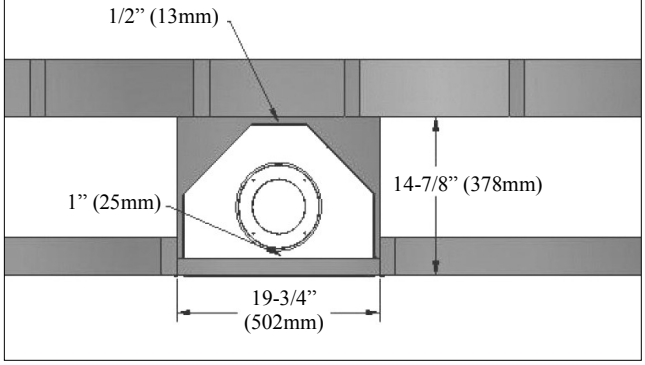
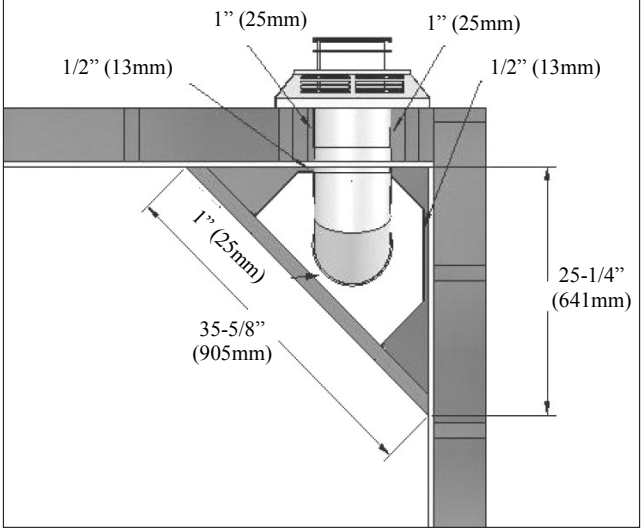


Figure 10b

NOTE: Horizontal vent heat shield not shown in horizontal configurations for clarity purposes only.

TYPICAL CORNER INSTALLATION



GLASS FRAME ASSEMBLY

REMOVE GLASS FRAME ASSEMBLY

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

A. Locate spring-loaded latches securing glass frame assembly at top & bottom of firebox.

B. Pull bottom latch out and down to release glass frame assembly bottom.

C. Pull top latch out and up to release glass frame assembly top.

D. Remove glass frame assembly from fireplace.

INSTALL GLASS FRAME ASSEMBLY

CAUTION: TO PREVENT GLASS FRAME ASSEMBLY FROM FALLING OFF WHEN INSTALLING, SECURE TOP GLASS LATCH BRACKETS BEFORE SECURING BOTTOM BRACKETS.

A. Place glass frame assembly onto fireplace front.

B. Pull top latch out and down to secure glass frame assembly top.

C. Pull bottom latch out and up to secure glass frame assembly bottom.

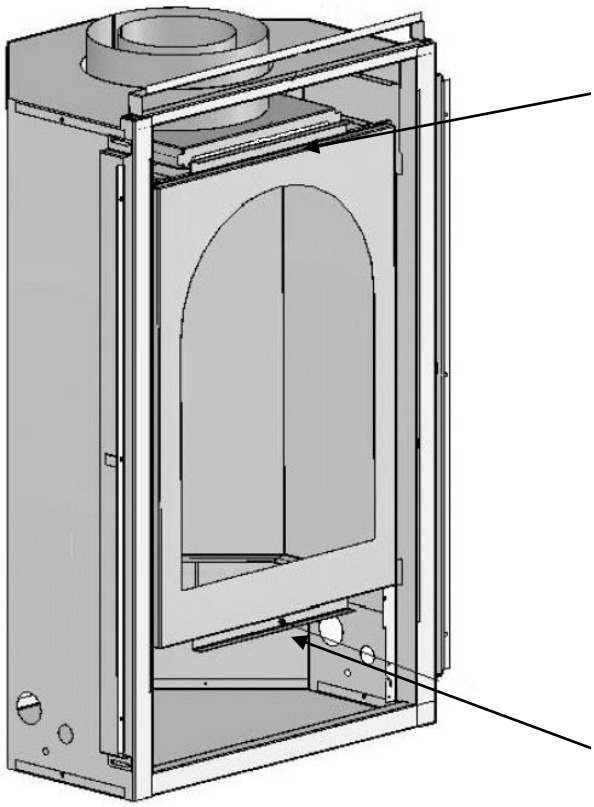


Figure 11a

OPTIONAL FAN INSTALLATION

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

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

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

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

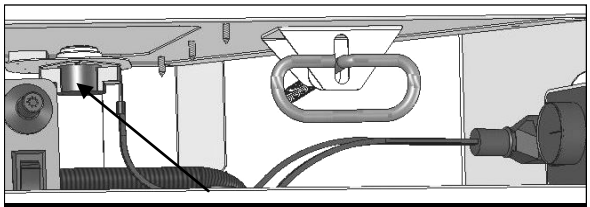
NOTE: Code approved line voltage wiring 14 gauge or better must be used when wiring this assembly. Refer local electrical codes for specific requirements.

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

NOTE: This fan will not operate unless speed control has been turned ON and sufficient heat has been applied to temperature control switch. The fan will turn ON and OFF automatically as fireplace heats and cools. Adjust fan to desired speed while it is running.

The following components must be removed from fireplace prior to installation of this fan: Full door face, glass frame assembly, log set and control board. Refer to corresponding pages in this installation manual for assistance if necessary.

1. Insert fan through right side of lower grill opening, push to back wall.
2. From inside lower right grill opening, loosen screw securing removable access panel (with electrical box & romex connector installed). Remove panel.
3. Insert 110V-120V wiring (with ground) through romex connector and wire to speed control / receptacle assembly matching black (hot), white (neutral), and green (ground) wires to corresponding wires on speed control / receptacle assemblies. See illustration on following page.
4. Secure speed control / receptacle assembly to electrical box with (2) screws provided.
5. Re-install electrical access panel. Tighten screw.
6. Attach temperature control switch to bottom of firebox.
7. Plug cord into electrical box receptacle.
8. Turn speed control counter-clockwise until it 'clicks'. This is the OFF position.
9. Turn speed control ON by turning knob clockwise past the 'click' - this is the highest setting.
10. Re-install all previously removed components.



TEMPERATURE CONTROL SWITCH POSITION

Before adjusting temperature control switch, unplug 3-prong plug on fan cord from receptacle. Adjust position of temperature control switch to a warmer location under firebox to turn fan 'ON' sooner or move it to a cooler location under firebox to turn fan 'ON' later. The fan will turn on when sensor in temperature control switch reaches 110° F and will turn 'OFF' when sensor reaches 90° F. After adjustment, plug 3-prong plug on fan cord into receptacle.

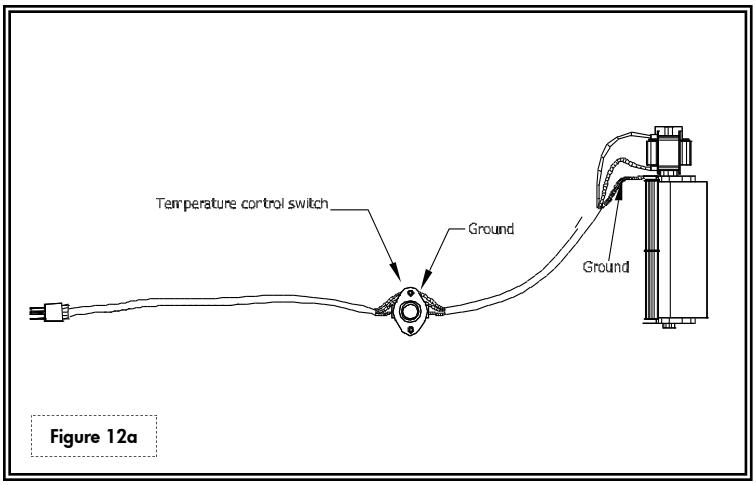


Figure 12a

OPTIONAL FAN INSTALLATION

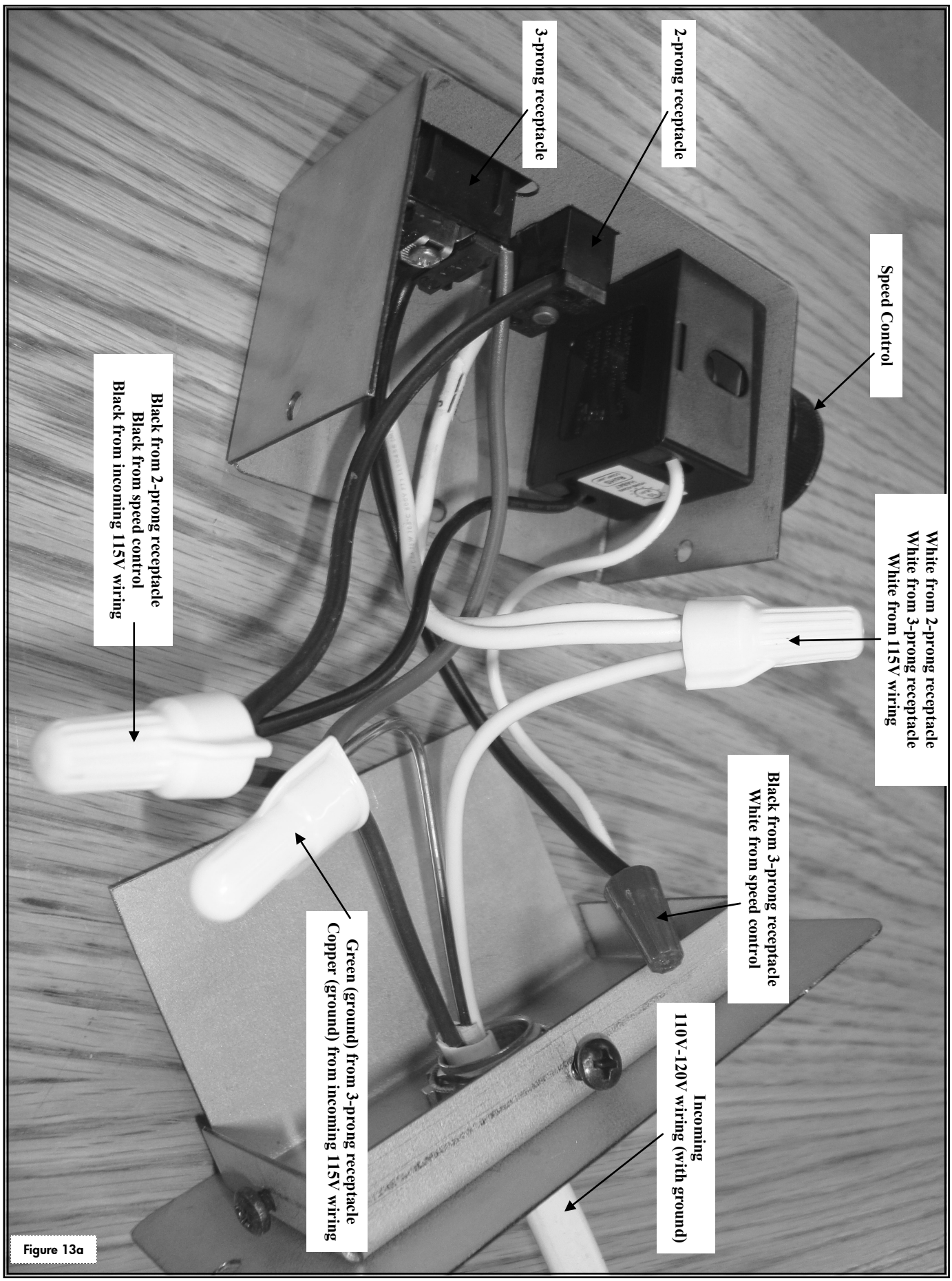


Figure 13a

GAS LINE CONNECTION

GAS CONVERSION

This fireplace is manufactured for use with Natural Gas. An LP conversion kit is included with this fireplace.
Follow instructions included with conversion kit if converting to LP gas.

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

IMPORTANT: We recommend running gas line through left side of fireplace if at all possible. If this cannot be achieved, compensations must be made for electrical box and transformer location on left side of fireplace.

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

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

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

NOTE: This fireplace is equipped with a 3/8"(10mm) x 18" (457mm) long flexible gas connector and manual shut-off valve. The gas line should be run to the point of connection where the shut-off valve and flexible gas line will connect.

NOTE: The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at pressures in excess of ½ psi.

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

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

IMPORTANT: The efficiency rating of this appliance is a product of thermal efficiency rating determined under continuous operating conditions and was determined independently of any installed system.

	NATURAL GAS	LP GAS
MINIMUM INLET GAS PRESSURE	5.0 inches W.C. (7.0 W.C. recommended)	11.0 inches W.C. (recommended)
MAXIMUM INLET GAS PRESSURE	10.5 inches W.C.	13.0 inches W.C.
MANIFOLD PRESSURE	3.5 inches W.C.	10.0 inches W.C.
MANIFOLD PRESSURE (low setting)	1.6 inches W.C.	6.4 inches W.C.
ORIFICE SIZE	#50	#57
INPUT BTU/hr.	14,600	14,700
MINIMUM INPUT BTU/hr.	10,700	10,700

THERMOSTAT / WALL SWITCH / REMOTE

If desired, a thermostat (wireless style also available), wall switch, or remote control assembly may be used to turn fireplace OFF and ON. Only ONE of these may be installed. Follow instructions included with chosen assembly.

VENTING

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

NOTE: Page 16 has information on restrictor installation in conjunction with venting installation. Page 33 has information on restrictor recommendations depending on burner flame appearance and instructions on installation after venting is completed.

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

IMPORTANT: Flame height and appearance will vary depending upon venting configuration and type of fuel used.

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

APPROVED VENTING

Simpson Dura-Vent DV-GS 5" x 8" direct vent system (horizontal and vertical terminations).

Ameri-Vent Direct Chimney System 5" x 8" (horizontal and vertical terminations).

Selkirk Metalbestos Chimney System 5" x 8" (horizontal and vertical terminations).

Metal Fab Chimney System: 5" x 8" (horizontal and vertical terminations).

ICC Chimney System: 5" x 8" (horizontal and vertical terminations).

RLH Chimney System: 5" x 8" (horizontal and vertical terminations).

Security Chimney System: 5" x 8" (horizontal and vertical terminations).

This fireplace is designed to be used with rigid pipe only.

HORIZONTAL VENT SYSTEM CLEARANCES		
TOP	**BOTTOM**	**SIDES**
3 inches (76mm) at wall pass thru	1 inch (25mm)	1 inch (25mm)

IMPORTANT: THE HORIZONTAL VENT HEAT SHIELD MUST BE INSTALLED WHEN USING A 90-DEGREE ELBOW TO HORIZONTALLY POSITION VENT SYSTEM.

IMPORTANT: KOZY HEAT WALL PASS-THRU, PART #800-WPT (4-1/2" (114mm) - 6-1/2" (165mm)) WALL THICKNESS OR #800-WPT2 (6-1/2" (165mm) - 12-1/2" (318mm)), MUST BE USED ON ALL HORIZONTAL VENT RUNS.

HORIZONTAL TERMINATIONS

MINIMUM: 90˚ elbow + termination cap.

MAXIMUM: 90˚ elbow + 8ft. (2.44m) horizontal + termination cap.

VERTICAL VENT SYSTEM CLEARANCES		
TOP	**BOTTOM**	**SIDES**
1 inch (25mm)	1 inch (25mm)	1 inch (25mm)

VERTICAL TERMINATIONS

MINIMUM VERTICAL RISE: 3ft. (914mm) vertical + termination cap.

MAXIMUM VERTICAL RISE: 31ft. (9.45m) vertical + termination cap.

HORIZONTAL & VERTICAL COMBINATION TERMINATIONS

8ft. (2.44m) horizontal / 31ft. (9.45m) vertical.

VENTING

ELBOWS

NOTE: (2) 90° elbows may be used within the maximum horizontal and vertical vent runs. (2) 45° degree elbows may be used in place of (1) 90° elbow.

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

IMPORTANT: THE HORIZONTAL VENT HEAT SHIELD MUST BE INSTALLED WHEN USING A 90-DEGREE ELBOW TO HORIZONTALLY POSITION VENT SYSTEM.

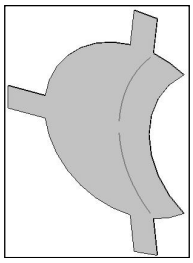
RESTRICTOR

A restrictor is included in fireplace components packet.

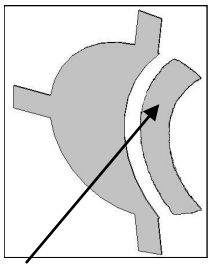
Each installation is unique and affected by various factors including venting configuration, altitude and climate. Therefore, after fireplace installation is complete a restrictor may be required or may need to be removed or modified.

Page 33 has information on restrictor recommendations depending on burner flame appearance and instructions on installation after venting is completed.

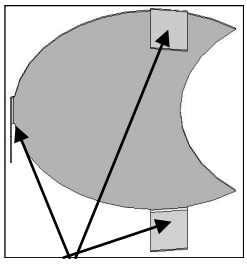
RESTRICTOR INSTALLATION



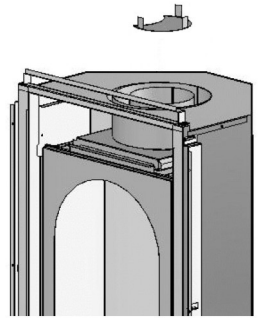
Large Restrictor



Remove tab (s) to create small restrictor



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



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

Figure 16a

SECURING VENT SYSTEM

1. Bend (3) tabs on fireplace top up.
2. Install first vent pipe section.
3. Secure vent pipe section to fireplace through tabs with (3) screws.

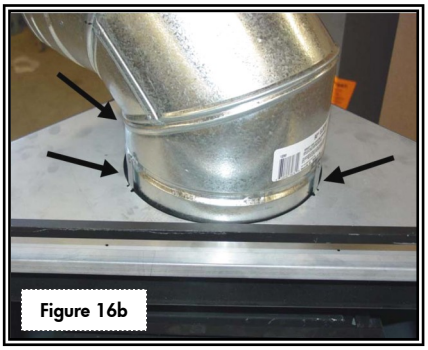


Figure 16b

VENTING

HORIZONTAL VENT HEAT SHIELD INSTALLATION

IMPORTANT: THE HORIZONTAL VENT HEAT SHIELD MUST BE INSTALLED WHEN USING A 90-DEGREE ELBOW TO HORIZONTALLY POSITION VENT SYSTEM.

1. Install 90-degree elbow per manufacturer's installation instructions.
2. Loosen, but do not remove (2) screws at top of fireplace.
3. Slide (2) slots on horizontal vent heat shield under screws. Re-tighten screws to secure in place.

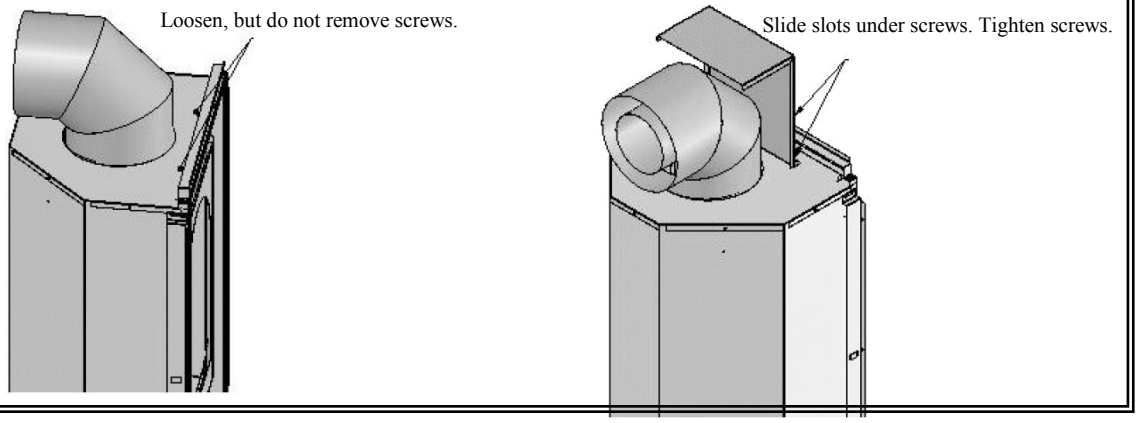


Figure 17a

#800-WPT / #800-WPT2 WALL PASS-THRU KITS INSTALLATION

IMPORTANT: KOZY HEAT WALL PASS-THRU, PART #800-WPT (4-1/2" (114mm) - 6-1/2" (165mm)) WALL THICKNESS OR #800-WPT2 (6-1/2" (165mm) - 12-1/2" (318m)), MUST BE USED ON ALL HORIZONTAL VENT RUNS.

FRAMING DIMENSIONS FOR KOZY HEAT WALL PASS-THRU KITS

12-1/2" (318mm) HIGH x 10-7/8" (276mm) WIDE

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

A. Measure wall thickness; cut insulation panel (included) this length.

B. Install wall pass-thru section marked #1 (with 3/8" (10mm) flange) into framed opening. Secure to interior wall with screws (not provided).

C. From the exterior, place insulation between flange and top of framed opening in wall pass-thru section #1.

D. Install section marked #2 of wall pass-thru into framed opening, overlapping metal sections as necessary to accommodate wall thickness. Secure to exterior wall with screws (not provided).

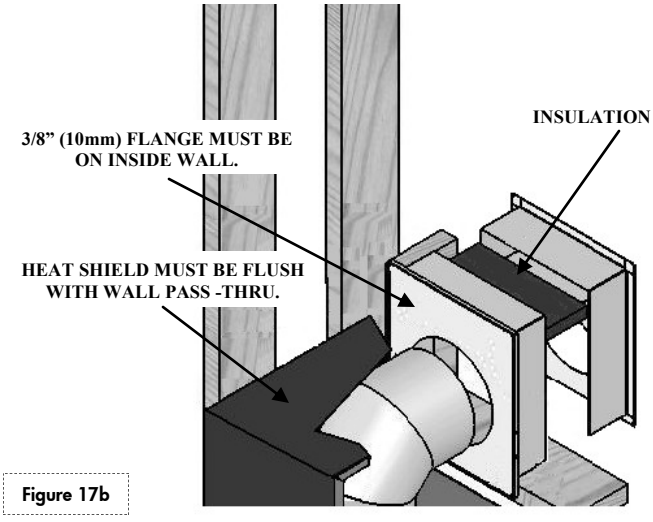


Figure 17b

VENTING

IMPORTANT: THE HORIZONTAL VENT HEAT SHIELD MUST BE INSTALLED WHEN USING A 90-DEGREE ELBOW TO HORIZONTALLY POSITION VENT SYSTEM.

IMPORTANT: KOZY HEAT WALL PASS-THRU, PART #800-WPT (4-1/2" (114mm) - 6-1/2" (165mm)) WALL THICKNESS OR #800-WPT2 (6-1/2" (165mm) - 12-1/2" (318mm)), MUST BE USED ON ALL HORIZONTAL VENT RUNS.

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

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

MINIMUM / MAXIMUM HORIZONTAL VENTING

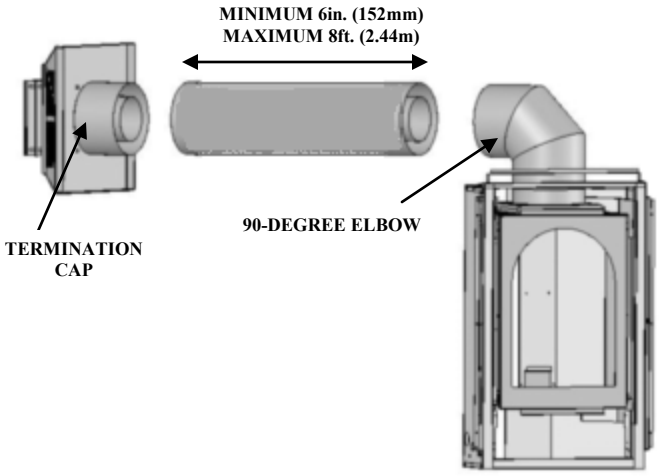


Figure 18a

EXHAUST DAMPER POSITION (LP GAS HORIZONTAL VENT CONFIGURATION)

This fireplace is shipped with exhaust damper in the closed (approx. 1/2" (13mm) open) position.

If using LP gas and incorporating a horizontal vent configuration, the exhaust damper may need to be adjusted to a more open position.

Open damper far enough to prevent flame from burning dirty, which results in soot accumulation on glass.

TO ADJUST: Loosen wing nuts securing damper. Slide damper toward front of fireplace. Retighten wing nuts to secure position.

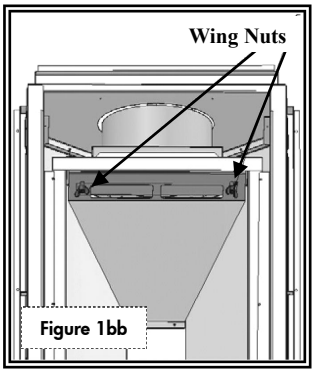


Figure 1bb

VENTING

MINIMUM / MAXIMUM VERTICAL VENTING

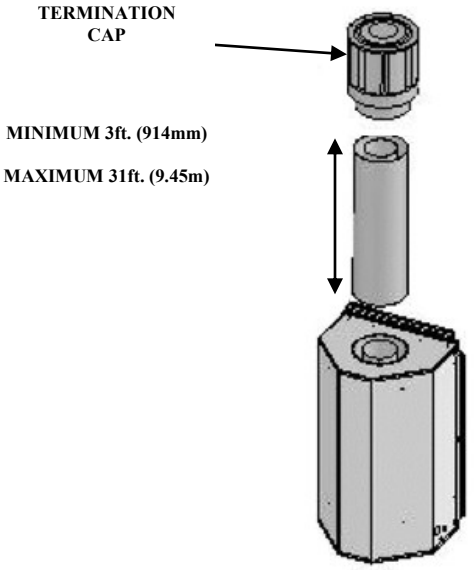


Figure 19a

HORIZONTAL & VERTICAL COMBINATION

IMPORTANT: THE HORIZONTAL VENT HEAT SHIELD MUST BE INSTALLED WHEN USING A 90-DEGREE ELBOW TO HORIZONTALLY POSITION VENT SYSTEM.

IMPORTANT: KOZY HEAT WALL PASS-THRU, PART #800-WPT (4-1/2" (114mm) - 6-1/2" (165mm) WALL THICKNESS OR #800-WPT2 (6-1/2" (165mm) - 12-1/2" (318mm) , MUST BE USED ON ALL HORIZONTAL VENT RUNS.

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

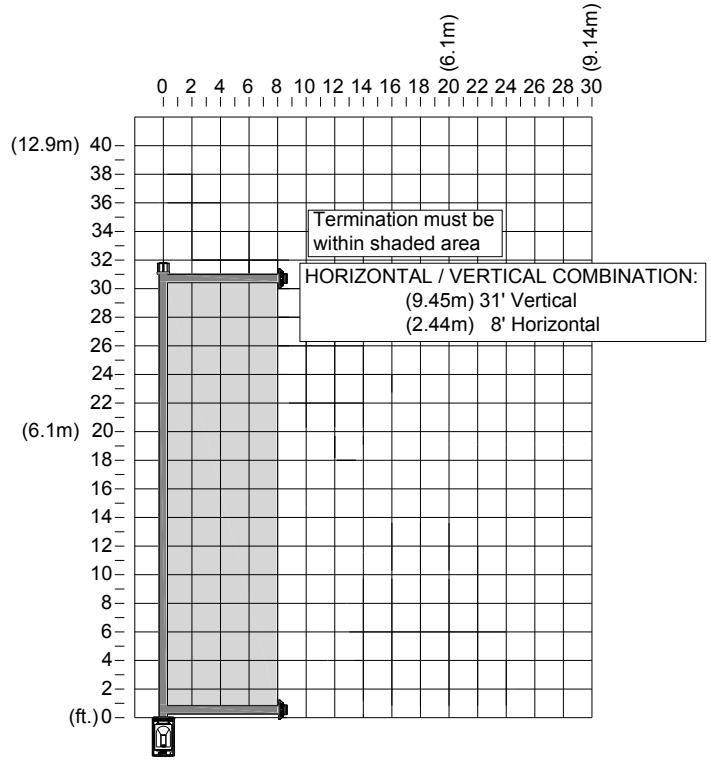


Figure 19b

TERMINATION VENT CAP LOCATION

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

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

LOCATION CLEARANCES

A. Above grade, veranda, porch, deck, balcony - 12" (305mm).
B. Operable window or door - CANADA: 12" (305mm). US: 9" (229mm).
C. Permanently closed window* - 12" (305mm) (recommended to prevent condensation on window).
D. Ventilated soffit* - 18" (457mm).
E. Unventilated soffit* - 11" (279mm).
F. Outside corner* - 0" (0mm).
G. Inside corner* - 1" (25mm).
H. Meter / Regulator: Not to be installed above a gas meter/regulator assembly within 3ft. (914mm) horizontally from the centerline of the regulator.
I. Gas Service regulator vent outlet - 3ft. (914mm).
J. Non-mechanical air supply inlet to building or the combustion air inlet to any other appliance. CANADA: 12" (305mm). US: 9" (229mm).
K. Mechanical air supply inlet. CANADA: 6ft. (1.83m) US: 3ft. (914mm) above if within 10ft. (3.05m) horizontally. Massachusetts installations: 10ft. (3.05m).
L. Above paved side-walk or paved driveway located on public property - 7ft. (2.13m).

NOTE: A vent cannot be located directly above a side-walk or paved driveway that is located between two single family dwellings and serves both dwellings.

M. Under veranda, porch, deck, or balcony (must be fully opened on a minimum of 2 sides) - 12" (305mm).
N. Between two horizontal terminations - 12" (305mm).
O. Between two vertical terminations - 12" (305mm). Terminations may be same height.
P. Above furnace exhaust or inlet - 12" (305mm).

*Clearance must be in accordance with local installation codes & the requirements of the gas supplier.

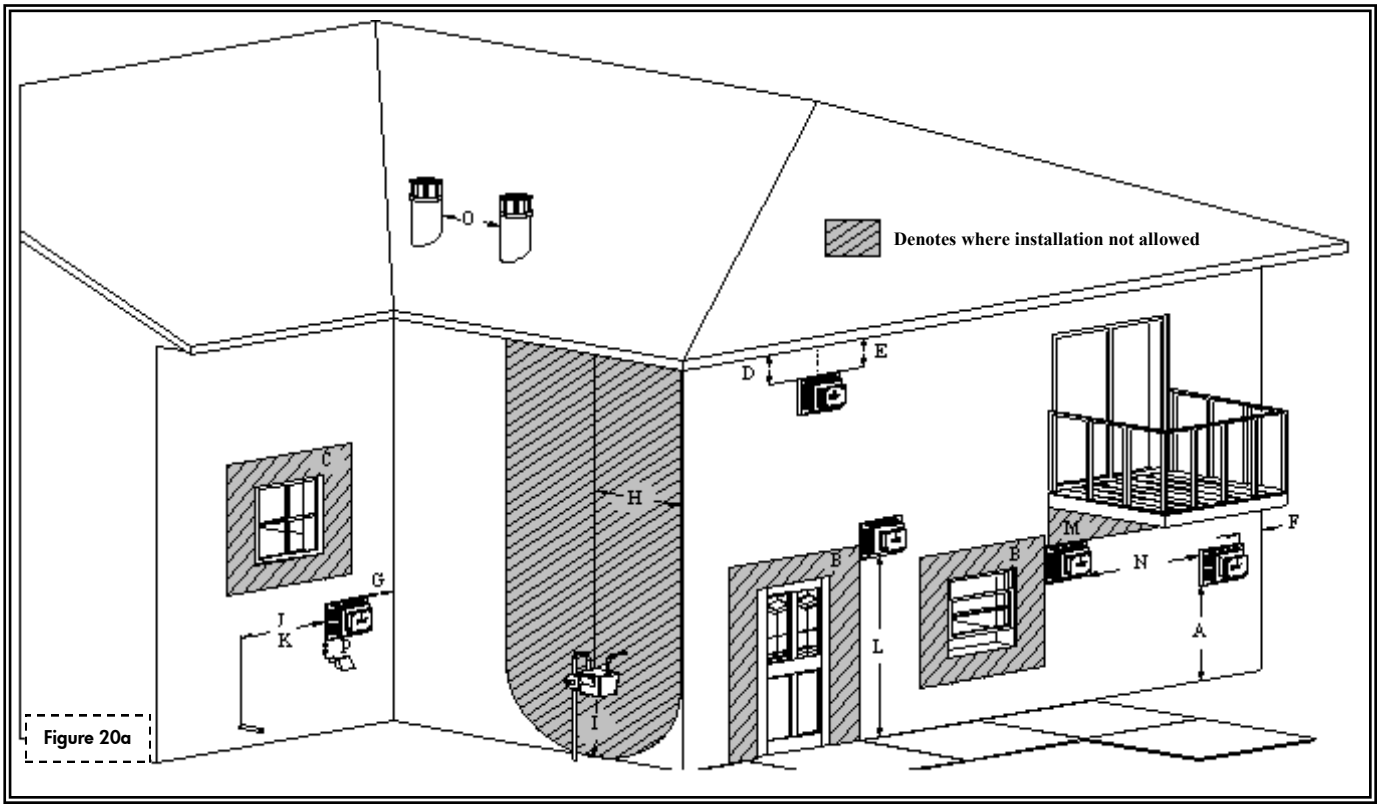


Figure 20a

VENTING (Vertical Cap Requirements)

VENT TERMINATION CLEARANCES

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

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

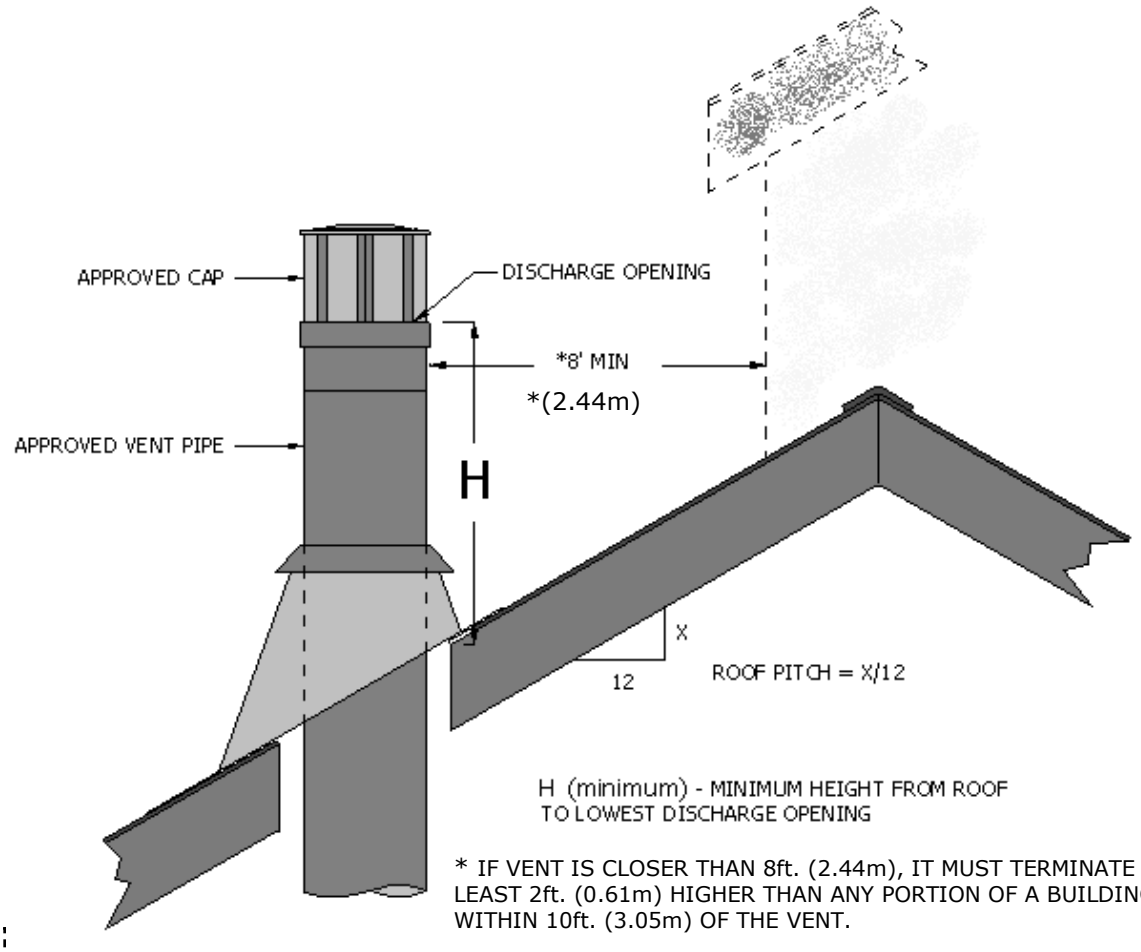


Figure 21a

#TWO-500 LOG SET INSTALLATION

NOTE: If converting to LP gas, do so now, before installing log set.

NOTE: Log numbers are located on bottom of each log. Refer to following instructions and illustrations for proper placement.

CAUTION: Do not place logs directly over burner port holes. Improper log placement may affect flame appearance and cause excessive soot to build up on logs and glass.

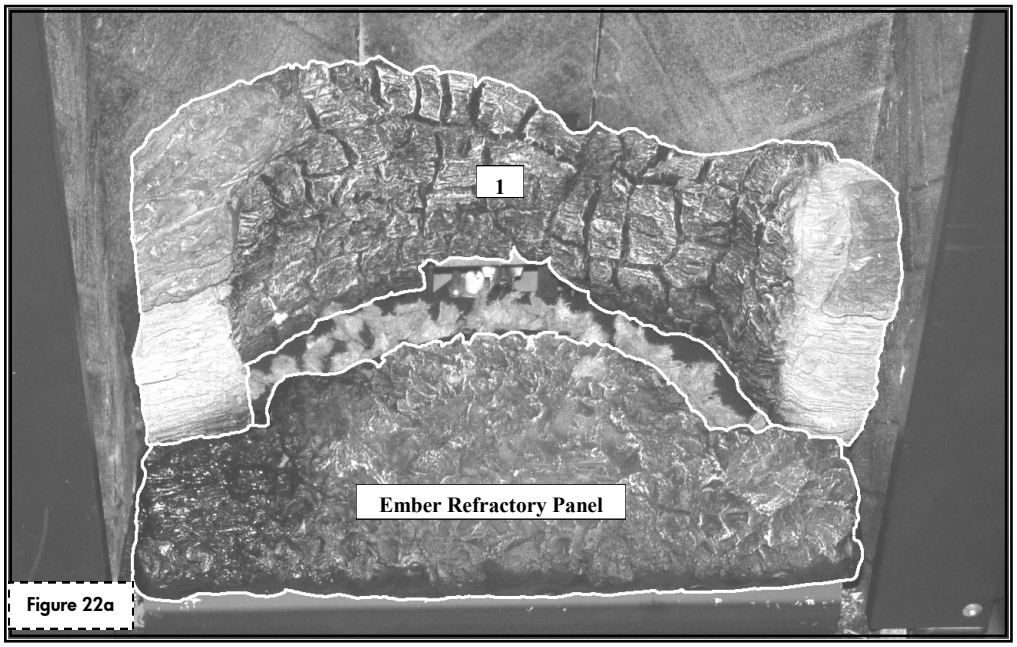


Figure 22a

Align cutout on bottom of #1 log with pilot shield on control board. Set down into position.
Reposition ember refractory panel at front of burner as shown above.
Using a stiff bristle brush, distribute 1/2 of rock wool embers onto burner and logs.

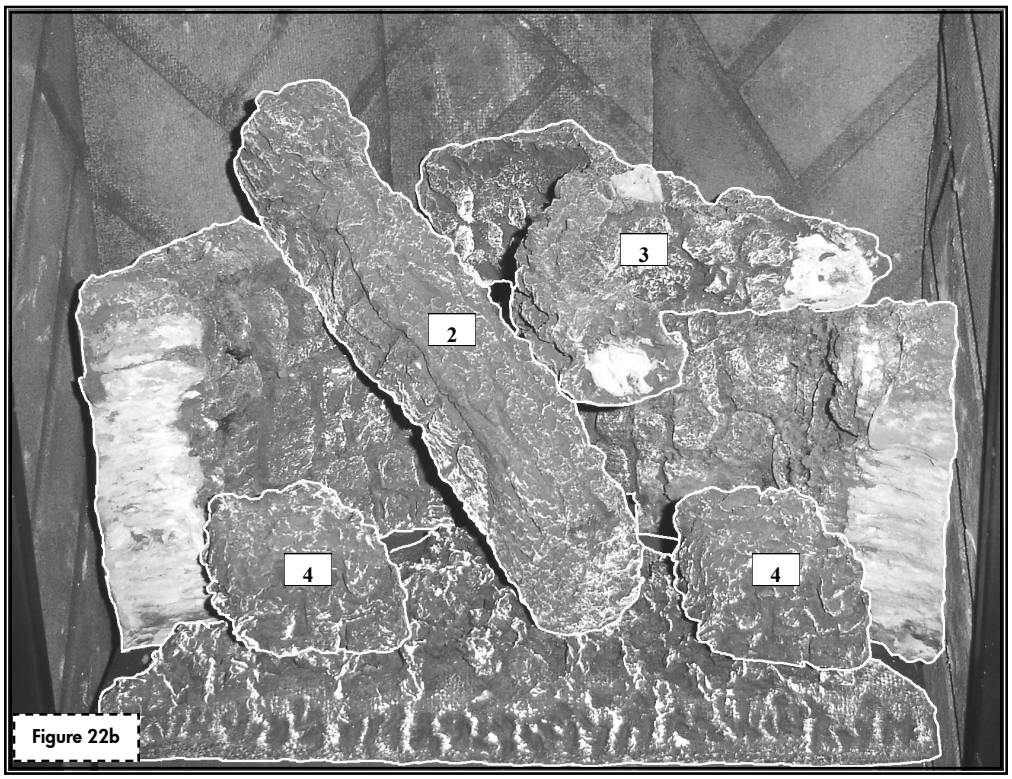


Figure 22b

Using above photo, position remaining logs.
Brush additional rock wool embers onto logs.

FULL DOOR FACE INSTALLATION

NOTE: Several styles of full door faces are equipped with mounting hooks on backside of face, other styles have attachment slots. Determine which type of full door face you have and follow corresponding instructions below.

FULL DOOR FACES EQUIPPED WITH MOUNTING HOOKS

1. Install doors onto full door face.
2. Align hooks on backside of face with corresponding slots in fireplace face. Set down into position.

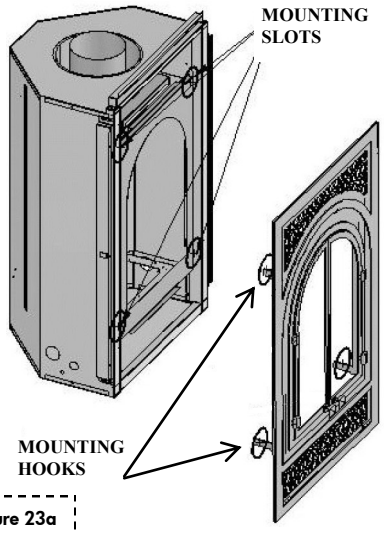


Figure 23a

FULL DOOR FACES EQUIPPED WITH ATTACHMENT SLOTS

1. Align (4) slots in face frame with mounting nuts on sides of fireplace frame, partially thread (4) 1/2" truss head screws (black) through slots in face frame and into mounting nuts. Push face frame back to desired position. Tighten screws.
2. Attach lower grill (3 louvers) by threading 1" phillips head screws through mounting nuts on grill (1 ea. side) and into corresponding holes at sides of face bottom. Tighten screws. When completed, grill may be adjusted slightly from side to side if necessary.
3. Attach upper grill (2 louvers) by threading 1" phillips head screws through mounting nuts (1 ea. side) on grill and into corresponding holes at sides of face top. Tighten screws. When completed, grill may be adjusted from side to side if necessary.
4. Reinstall glass frame assembly.
5. Close grills.
6. Install doors by lowering door hinges over face hinge pins.

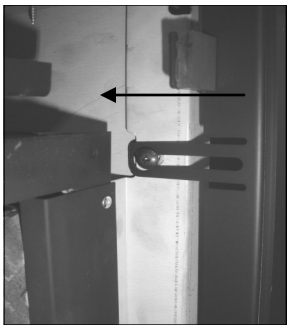
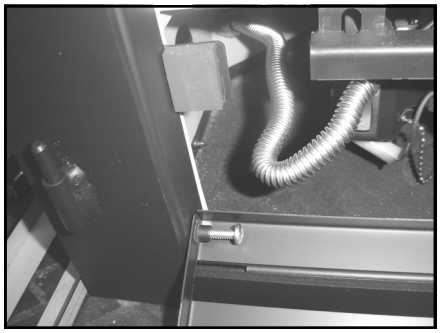
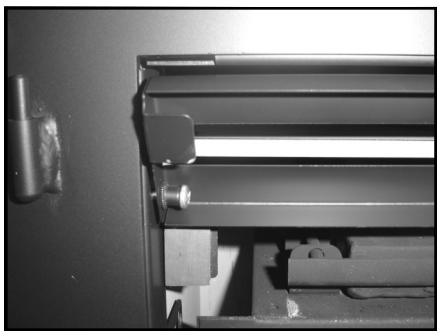


Figure 23b



Lower grill open position.



Upper grill open position.

CONTROL BOARD REMOVAL / INSTALLATION

CAUTION: If fireplace has been burning, use appropriate protection to avoid burns or damage to personal property before removing any components.

CONTROL BOARD REMOVAL

1. Remove full door face or full door face doors, depending on style, and glass frame assembly.
2. Turn manual shutoff valve to OFF. Disconnect flexible gas line from manual shutoff valve.
3. Unplug all components from electrical outlet, disconnect all wiring harnesses attached to gas valve.
4. Remove logs, ember refractory, and pilot shield from burner.
5. Remove screw securing burner to firebox back wall.
6. Remove burner by lifting up while tilting towards right side, releasing from burner orifice.
7. Remove (7) screws securing control board. Carefully lift board out of firebox, being careful not to damage sealing gasket located underneath.

CONTROL BOARD INSTALLATION

IMPORTANT: Make sure sealing gasket in in place under control board before securing. If gasket is damaged, it must be replaced.

1. Place control board into firebox opening, aligning holes in board to holes in firebox bottom. Secure with screws previously removed.
2. Reinstall burner assembly, verifying burner venturi is properly positioned over burner orifice. Secure to firebox back wall with previously removed screw.
3. Reinstall pilot shield, ember refractory and logs.
4. Reconnect all wiring harnesses to gas valve. Plug all components into electrical outlet.
5. Reconnect gas line to manual shut-off valve. Turn valve to ON.
6. Check all connections for leaks, whether field or factory made.
7. Verify proper operation of fireplace, including log placement.
8. Reinstall glass frame and full door face assembly or full door face assemblies.

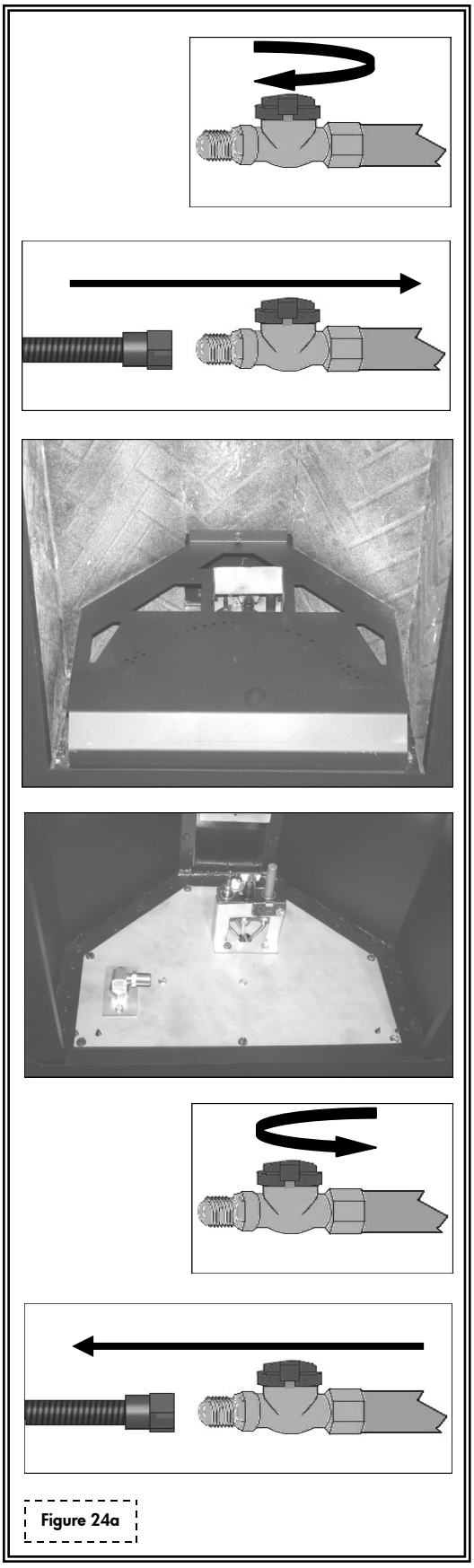


Figure 24a

WIRING SCHEMATICS

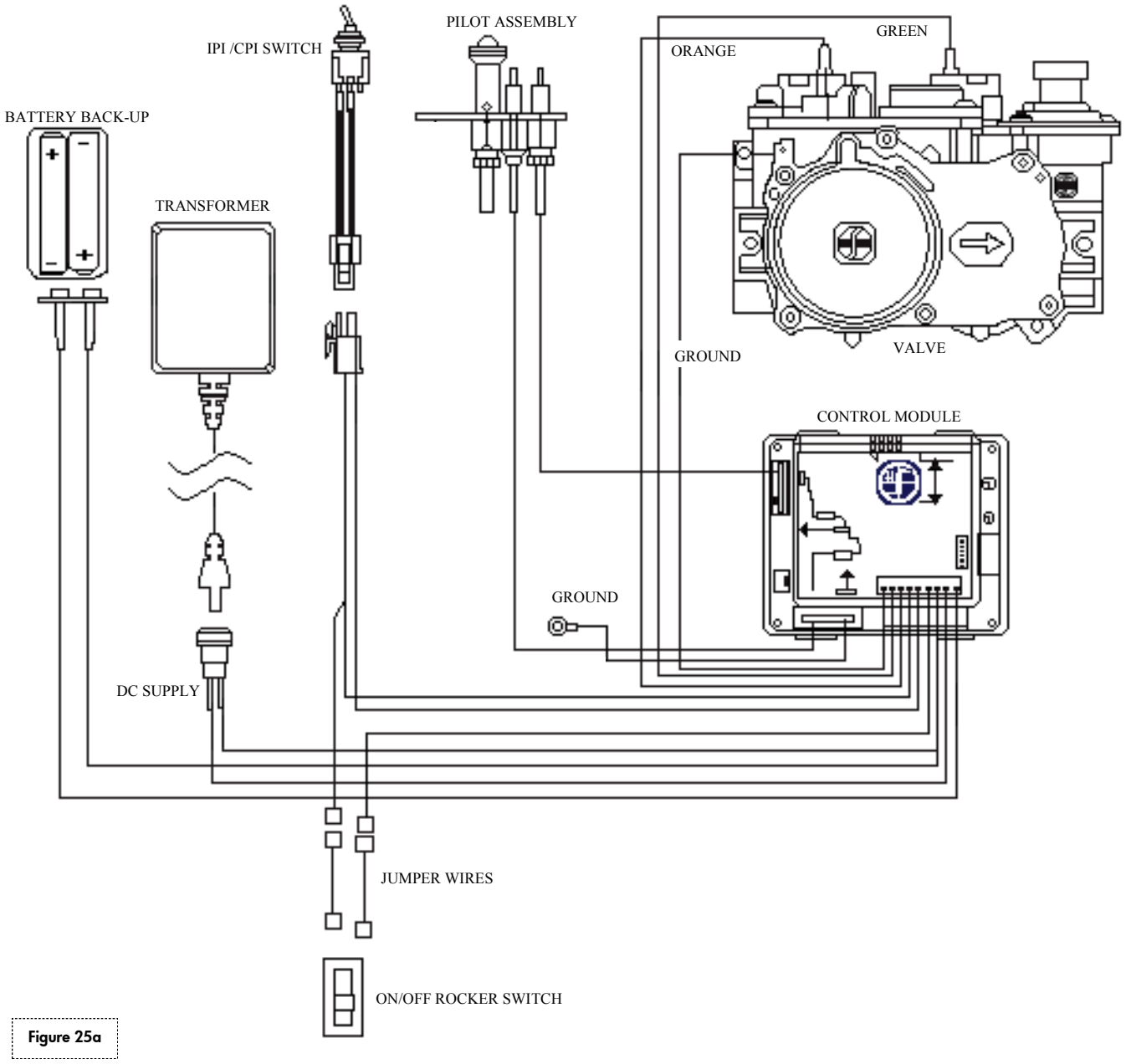
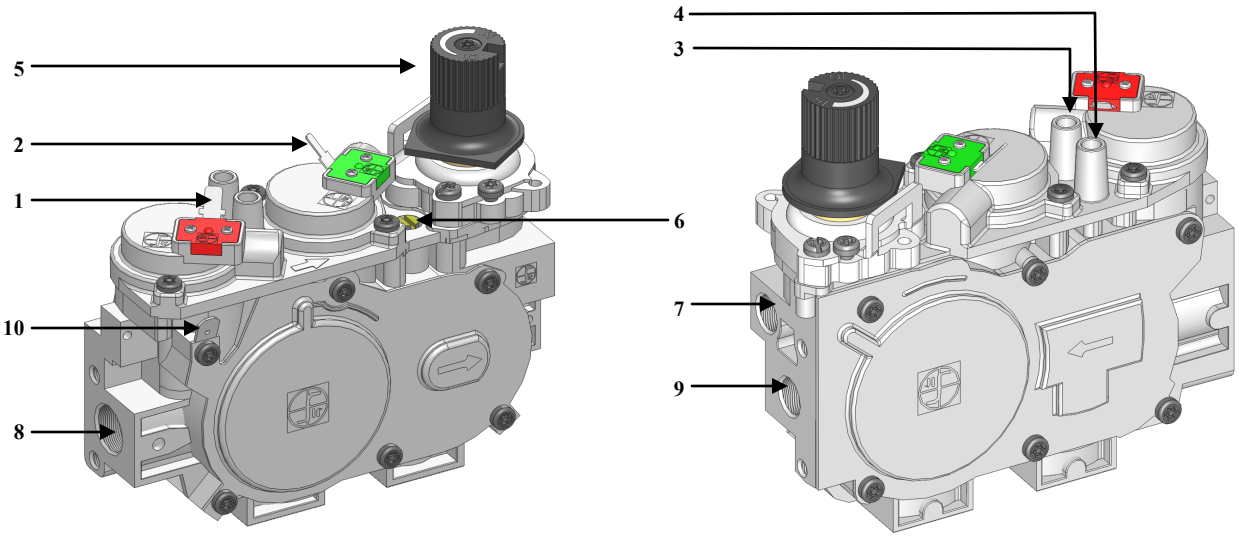


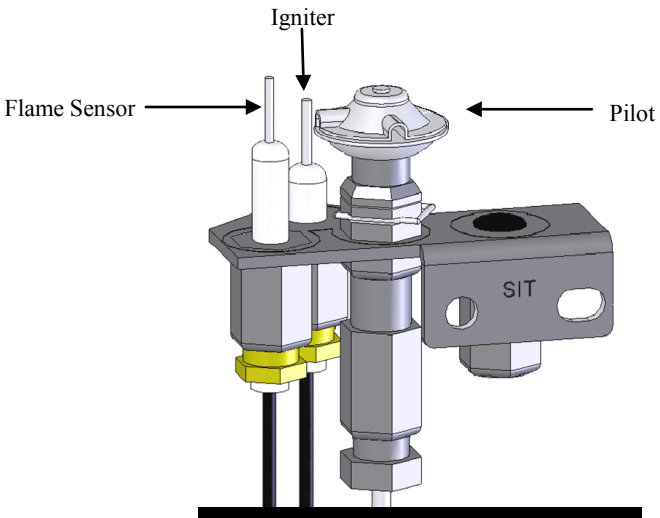
Figure 25a

VALVE & PILOT ASSEMBLY COMPONENTS

1	ON-OFF solenoid EV1 terminals (red)	6	Pilot adjustment screw
2	ON-OFF solenoid EV2 terminals (green)	7	Pilot outlet
3	Inlet pressure test point	8	Main gas inlet
4	Outlet pressure test point	9	Main gas outlet
5	HI/LO regulator	10	Ground connection



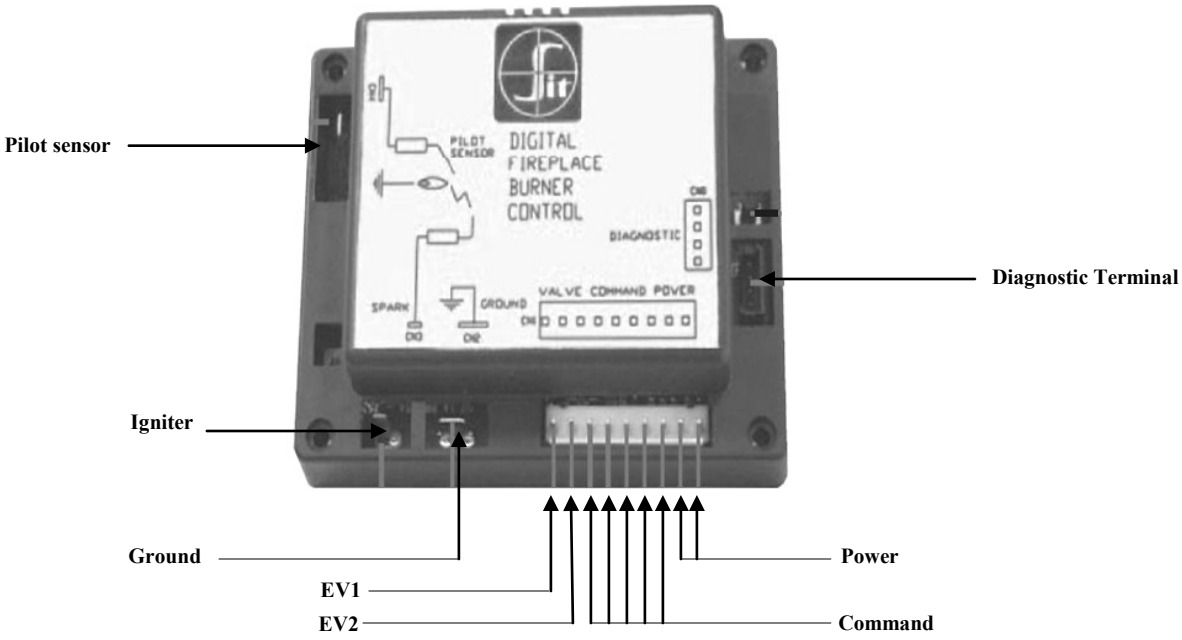
GAS VALVE



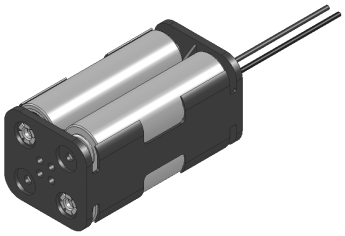
PILOT ASSEMBLY

Figure 26a

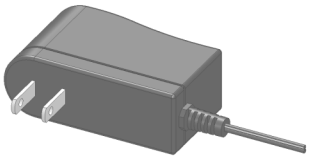
CONTROL MODULE COMPONENTS



CONTROL MODULE



BACK-UP BATTERY PACK



AC ADAPTOR

IPI/CPI SWITCH

Intermittent Pilot Ignition / Continuous Pilot Ignition
Shown in IPI position (up)
CPI position (down)

ON/OFF ROCKER SWITCH

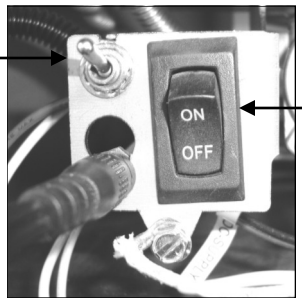


Figure 27a

IPI INFORMATION

ELECTRICAL WARNING AND INFORMATION:

- **Electrical wiring must be installed by a licensed electrician.**
- **Do NOT wire 110V to wall switch.**
- **Uninterrupted or continuous power is required at all times in IPI systems EXCEPT when using battery back-up.**
- **Disconnect 110V before servicing**

A double receptacle / speed control assembly is included with fireplace components packet to be used when hardwiring to electrical box located under firebox on right side of fireplace.

IPI /CPI SWITCH FUNCTIONS

This fireplace is equipped with a IPI/CPI switch located next to the ON/OFF rocker switch. This switch allows you to operate the fireplace in either intermittent or continuous pilot capacity.

IPI (Intermittent Pilot Ignition) Mode: IPI/CPI Switch in up position.
When in this mode, the fireplace burner and pilot will shut off when ON/OFF rocker switch is pressed to OFF.

CPI (Continuous Pilot Ignition) Mode: IPI/CPI Switch in down position.
When in this mode, the burner will turn off, but the pilot will remain lit when the ON/OFF rocker switch has been pressed to OFF. By having the pilot lit continuously, the firebox will remain warm and a draft is established in the vent, allowing the main burner to turn on with less air-flow disruption. This feature is especially beneficial during very cold conditions.

OPERATION USING BATTERY POWER

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

INITIAL SET-UP:

Plug AC Adaptor into receptacle.

Position **Backup Battery Pack** at front of stove. A Velcro strip has been attached to help secure in place.

LIGHTING AND SHUTDOWN

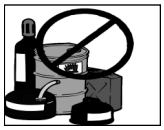
FOR YOUR SAFETY - READ BEFORE LIGHTING

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

DUE TO HIGH SURFACE TEMPERATURES, KEEP CHILDREN, CLOTHING AND FURNITURE AWAY.

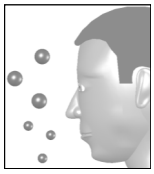
This appliance needs fresh air for safe operation and must be installed so there are provisions for adequate combustion and ventilation air.

1. This fireplace is equipped with an ignition device which automatically lights the pilot and main burner. **DO NOT** try to light the pilot by hand. Before lighting this fireplace, follow these instructions exactly.
2. BEFORE LIGHTING, smell all around the appliance for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
3. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system which has been under water.



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

WHAT TO DO IF YOU SMELL GAS:



* Do not touch any electrical switches
* Do not try to light any appliance
* Do not use the phone in your building
* Immediately call your gas supplier from a neighbor's phone
* Follow the gas supplier's instructions
* If you cannot reach your gas supplier, call the fire department

WARNING: CHILDREN AND ADULTS SHOULD BE ALERTED TO THE HAZARDS OF HIGH SURFACE TEMPERATURES AND SHOULD STAY AWAY TO AVOID BURNS OR CLOTHING IGNITION. YOUNG CHILDREN SHOULD BE CAREFULLY SUPERVISED WHEN THEY ARE IN THE SAME ROOM AS THE APPLIANCE. CLOTHING OR OTHER FLAMMABLE MATERIAL MUST NOT BE PLACED ON OR NEAR THE APPLIANCE.

NOTE: A PAINT SMELL WILL OCCUR DURING THE FIRST FEW HOURS OF BURNING. IT IS RECOMMENDED TO LEAVE THE FAN OFF DURING THIS PERIOD TO HELP SPEED THE PAINT CURING PROCESS.

NOTE: THIS FIREPLACE MAY PRODUCE NOISES OF VARYING DEGREE AS IT HEATS AND COOLS DUE TO METAL EXPANSION AND CONTRACTION. THIS IS NORMAL AND DOES NOT AFFECT THE PERFORMANCE OR LONGEVITY OF THE FIREPLACE.

LIGHTING AND SHUTDOWN (cont.)

LIGHTING

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

1. Turn off all electrical power to fireplace.

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

2. Set thermostat to lowest setting, if installed.
3. Press **ON/OFF rocker switch** to **OFF**.
4. Wait five (5) minutes to allow any gas that may have accumulated inside firebox to escape. If you then smell gas, **STOP!** Follow safety information on front cover and on previous page of this installation manual. If you don't smell gas, go to next step.
5. Turn ON all electrical power to fireplace.
6. Press **ON/OFF rocker switch** to **ON**.
7. Set thermostat to desired setting, if installed.

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

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

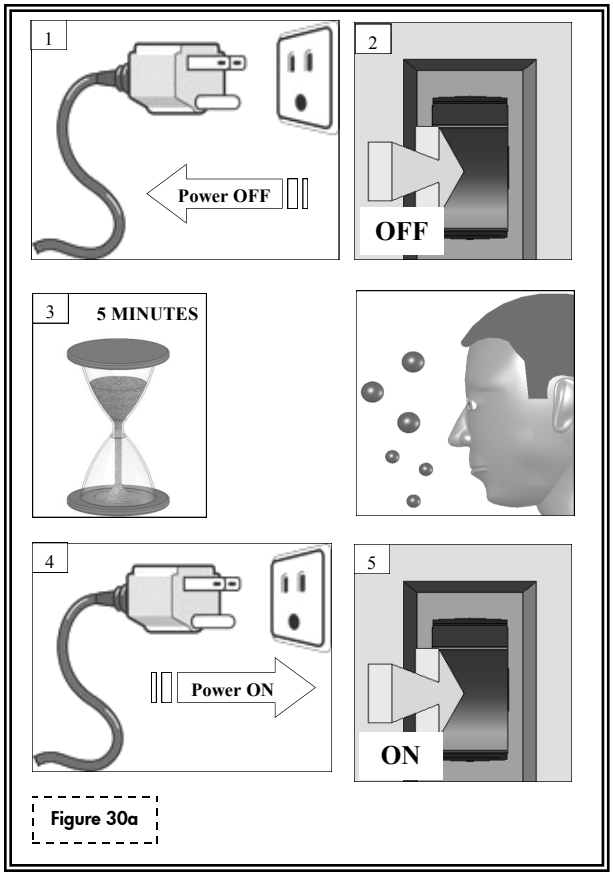


Figure 30a

TURNING OFF GAS TO FIREPLACE

1. Press **ON/OFF rocker switch** to **OFF**.
2. Set thermostat to lowest setting, if installed.
3. Turn OFF all electrical power to fireplace if service is required.
4. Turn manual shut-off valve to **OFF**.

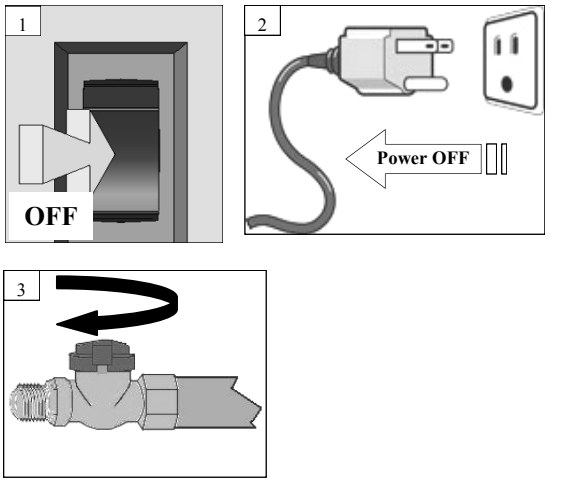


Figure 30b

ADJUSTING FLAME HEIGHT

The gas control valve has a HI/LO flame adjustment knob designed to allow you to tailor the look and heat output of your fireplace. Adjust by turning HI/LO knob on gas control valve.

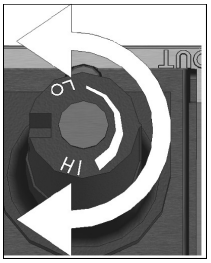


Figure 30c

PRESSURE TESTING

IMPORTANT NOTICE: Pressure check taps for manifold (outgoing) and inlet (incoming) pressure have been incorporated into the valve. The pressure tap marked OUT measures outgoing pressure and the pressure tap marked IN measures incoming pressure. Follow instructions below for proper testing procedures.

NOTE: The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at pressures in excess of ½ psi.

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

INLET PRESSURE TEST:

1. Loosen inlet (IN) pressure tap screw (counter-clockwise).
2. Attach manometer using a 5/16" I.D. hose.
3. Set IPI/CPI switch to CPI setting (down position).
4. Light pilot. Note manometer reading.
5. Press rocker switch to ON. Burner should light. Check pressure to ensure it stays between the min. and max. recommended pressure settings.
6. Set IPI/CPI switch to IPI setting (up position). Press rocker switch to OFF. Pilot and burner should go out.
7. Disconnect hose and tighten screw (clockwise). Screw should be snug, do not over tighten.

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

CAUTION: A LOW PRESSURE READING CAN CAUSE DELAYED IGNITION.

MANIFOLD PRESSURE TEST:

1. Light pilot.
2. Loosen manifold (OUT) pressure tap screw (counter-clockwise).
3. Attach manometer to pressure tap using a 5/16" I.D. hose.
4. Set IPI/CPI switch to CPI setting (down position).
5. Press rocker switch to ON. Burner should light. Note manometer reading.
6. Set IPI/CPI switch to IPI setting (up position). Press rocker switch to OFF.
7. Disconnect manometer hose and tighten screw (clockwise). Screw should be snug, do not over tighten.
8. Attach manometer to manifold pressure tap to verify it is completely sealed. Manometer should read no pressure when rocker switch is pressed to ON.

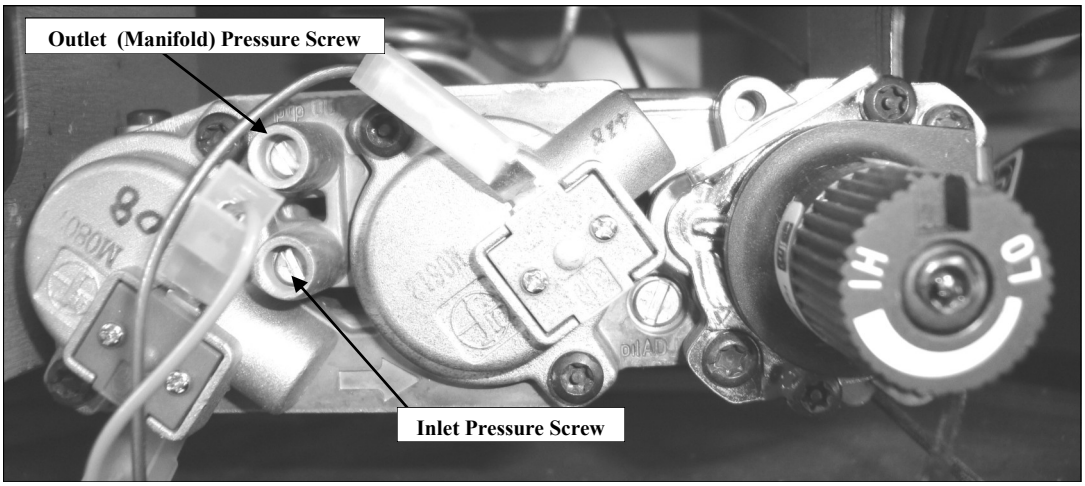


Figure 31a

FINALIZING THE INSTALLATION

FLAME APPEARANCE:

Flame appearance is affected by several factors including altitude, venting configuration and fuel quality. Although the venturi setting has been factory set, adjustments may be necessary for optimal performance and visual aesthetics.

When fireplace is first lit, the flames will be blue. Flames will gradually turn yellowish-orange during first 15 minutes of operation. If flames remain blue, or become dark orange with evidence of sooting (black tips), the burner tube venturi may need adjustment.

WARNING: BURNER TUBE ADJUSTABLE VENTURI POSITIONING SHOULD ONLY BE PERFORMED BY A QUALIFIED SERVICE TECHNICIAN.

FACTORY SET BURNER TUBE VENTURI SETTINGS (ADJUST AS NECESSARY FOR YOUR INSTALLATION)	
NATURAL GAS	LP (PROPANE) GAS
1/16" (2mm) OPEN	5/8" (16mm) OPEN

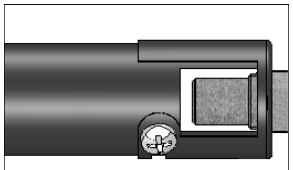
BURNER TUBE VENTURI ADJUSTMENT GUIDELINES		
VENTURI POSITION	FLAME COLOR	VENTURI ADJUSTMENT
Closed too far	Dark orange flame with black tips	Open venturi setting slightly
Open too far	Blue flames	Close venturi setting slightly

IMPORTANT: SLIGHT ADJUSTMENTS TO BURNER VENTURI OPENING CREATE DRAMATIC RESULTS. ADJUST AT SLIGHT INCREMENTS UNTIL DESIRED LOOK IS ACHIEVED. ALWAYS BURN FIREPLACE FOR AT LEAST 15 MINUTES AND ALLOW TIME TO COOL BEFORE MAKING ANY FURTHER ADJUSTMENTS.

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

TO ADJUST VENTURI:

1. Remove full door face, or full door face doors, depending on style, glass frame assembly, logs, pilot shield and burner assembly from fireplace.
2. Remove screw securing burner to firebox back wall. Lift right side of burner assembly up to release venturi from burner orifice. Remove burner assembly from firebox.
3. Loosen venturi screw, make adjustment, retighten screw.
4. Re-install burner, ensuring venturi is positioned over burner orifice. Secure to back wall with screw previously removed.
5. Reinstall pilot shield, logs, glass frame assembly and full door face.
6. Light fireplace. Wait at least 15 minutes before determining if any further adjustments are necessary.



BURNER VENTURI

Figure 32a

ADJUST EXHAUST DAMPER -LP GAS HORIZONTAL VENT CONFIGURATION:

If LP gas is used in a horizontal vent configuration, it may be necessary to adjust exhaust damper to a more open position to prevent fire from burning dirty, which results in soot accumulation on glass.

The exhaust damper is factory set to closed position (approx. 1/2" (13mm) opening.

TO ADJUST: Loosen wing nuts securing damper, slide towards front of fireplace. Re-tighten wing nuts.

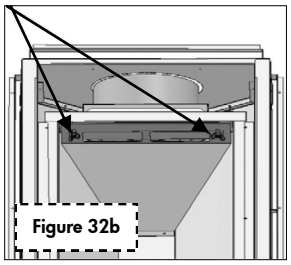


Figure 32b

FINALIZING THE INSTALLATION

RESTRICTOR USAGE:

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

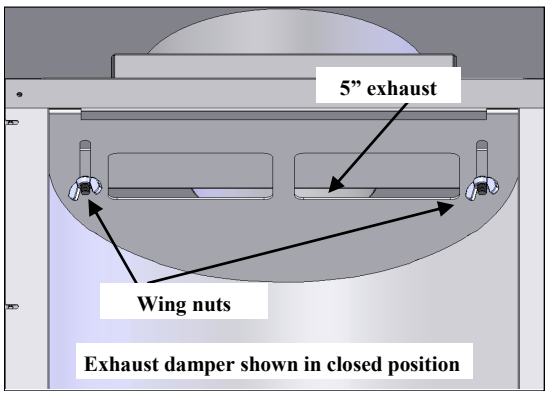
WARNING: TO AVOID PROPERTY DAMAGE OR PERSONAL INJURY, ALLOW FIREPLACE AMPLE TIME TO COOL BEFORE MAKING ANY ADJUSTMENTS AND / OR INSTALLATIONS.

RESTRICTOR TROUBLESHOOTING		
FLAME APPEARANCE	**DRAFT PROBLEM**	**RESTRICTOR SOLUTION**
Short, flickering	Excessive draft - not enough restriction	Add restrictor
Lifting or ghosting*	Insufficient draft - too much restriction	Remove inner ring (s) on restrictor or remove restrictor
* Improper venting installation may cause flames to lift or "ghost" - a dangerous situation. Inspect flames after installation to ensure proper performance. If it is determined that venting is correct and the restrictor has been removed, yet flames are still lifting or ghosting, shut off gas supply to fireplace and call a qualified service technician.		

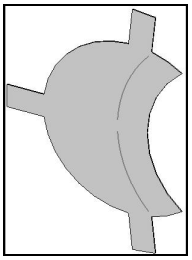
RESTRICTOR INSTALLATION / MODIFICATION (after termination completion):

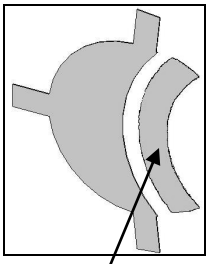
If it is determined that a restrictor is needed or restrictor modification is required after termination installation, access can be reached by completely opening fireplace exhaust damper and inserting restrictor through opening.

1. Open exhaust damper by loosening wing nuts.
2. Depending on your specific needs, determined by the chart above along with other factors, make necessary modifications.
3. If installation of a restrictor (included in fireplace components packet) is necessary, bend tabs on restrictor to approx. 80 degree angles to create tension when inserted into exhaust pipe on fireplace. Insert restrictor into 5" exhaust pipe with tabs pointing towards you.
4. If modification is necessary, remove restrictor by pulling it down and out of 5" exhaust pipe.
5. Readjust exhaust damper to desired position. Tighten wing nuts.
6. Attach glass frame assembly and light fireplace. Wait 15 minutes before determining if any further modifications are necessary.

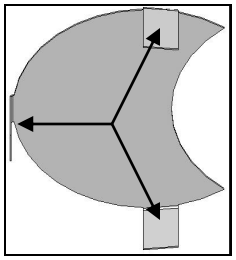


Slide restrictor through opening and into 5" exhaust with tabs pointing towards you.





Remove tab to create small restrictor



Bend tabs to approx. 80 degree angles

Figure 33a

MAINTENANCE

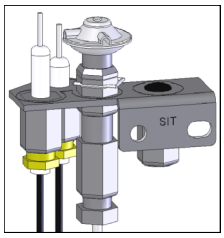
The appliance is required to be inspected at least once a year by a professional service person.

The compartment below firebox must be cleaned at least once a year, more frequent cleaning may be required due to excessive lint from carpeting, bedding materials, or other fibrous materials. It is imperative the burner be cleaned once a year.

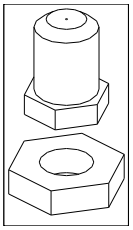
NOTE: INSTALLATION AND REPAIR SHOULD BE DONE ONLY BY QUALIFIED SERVICE PERSON. THE APPLIANCE SHOULD BE INSPECTED BEFORE USE AND ANNUALLY BY A QUALIFIED SERVICE PERSON. MORE FREQUENT CLEANING MAY BE REQUIRED DUE TO EXCESSIVE LINT FROM CARPETING, BEDDING MATERIALS, ETC. IT IS IMPERATIVE THAT CONTROL COMPARTMENTS, BURNERS AND CIRCULATION AIR PASSAGEWAYS OF THE APPLIANCE BE KEPT CLEAN.

CONTROL BOARD SYSTEM

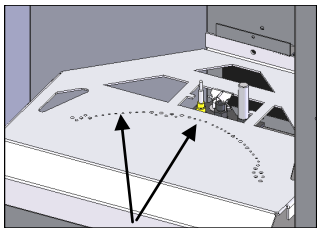
- **Annual cleaning of the burner system is required.**
- **The burner assembly may be removed for easier access. Refer to page 24 in this installation manual for complete instruction on removing & reinstalling burner assembly.**
- **Visually check for blocked port holes, especially near pilot. Blocked port holes may cause delayed ignition.**
- **Reinstall burner assembly following instructions on page 24 of this installation manual.**
- **Visually check pilot light and burner when in operation. The flames should be steady, not lifting or floating.**



Pilot



Burner Orifice



Burner Ports

Figure 34a

FAN

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

VENT SYSTEM

Annual examination of the venting system by a qualified agency is required.

IF VENT-AIR INTAKE SYSTEM IS DISASSEMBLED FOR ANY REASON, RE-INSTALL PER INSTRUCTIONS PROVIDED WITH INITIAL INSTALLATION.

The flow of combustion and ventilation air must not be obstructed.

GLASS CLEANING & REPLACEMENT

- **Clean glass only when cool and only with non-abrasive cleansers.**
- **Do not operate this fireplace with glass/frame assembly removed, cracked or broken.**
- **The glass assembly, part #TWO-015T, shall only be replaced as a complete unit, as supplied by Hussong Mfg. Co., Inc.**
- **Replacement of glass & frame assembly, part #TWO-015T, must only be performed by a licensed or qualified service person. DO NOT SUBSTITUTE MATERIALS.**
- **Do not strike or slam glass door assembly.**

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

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

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

CONVERSION KIT INSTRUCTIONS

#OCK-S50N-I-TWO-SIT NAT GAS CONVERSION KIT / #OCK-S57L-I-TWO-SIT LP GAS CONVERSION KIT

WARNING: This conversion kit shall be installed by a qualified service agency in accordance with the manufacturers instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, explosion or productions of carbon monoxide may result, causing property damage, personal injury or loss of life. The qualified service agency is responsible for proper installation of this kit. The installation is not proper and complete until operation of the converted appliance is checked as specified in the instructions supplied with the kit. Refer to appliance owner's manual or product data plate for proper inlet and manifold pressure adjustments and orifice sizing.

IMPORTANT: For high altitude installations: Above 2000ft. (610m) US / 4500 ft. (1372m) Canada, consult local gas distributor or authority having jurisdiction for proper de-rating methods.

Kit includes: (1) Gas Conversion Label (1) Burner Orifice: NAT #50 / LP #57 (1) Hi/Lo Conversion Kit and Instructions
(1) Gas Type Label (1) Pilot Conversion Instructions (1) Pilot Injector

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

PREPARE THE FIREPLACE:

Remove full door face assembly, glass frame, logs, ember refractory, pilot shield and burner assembly from fireplace.

REPLACE BURNER ORIFICE:

1. Remove burner tube (secured with 3 screws).
2. Remove existing orifice cap. Replace with orifice cap included with kit, making sure to tighten cap securely.
   NAT. GAS: #50 orifice / L.P. GAS: #57 orifice

CONVERT PILOT ASSEMBLY:

After locating pilot assembly follow instruction sheet included with this kit to properly convert the pilot to chosen gas.

CONVERT GAS VALVE HI/LO REGULATOR:

Follow instructions included with this kit to convert the Hi/Lo regulator to chosen gas.

COMPLETE THE CONVERSION:

1. Adjust burner tube venturi to correct setting by loosening screws adjusting cap and retightening screw.
   CORRECT SETTINGS: NAT: 1/16" (2mm) open / L.P: 5/8" (16mm) open
2. Re-install burner assembly, making sure orifice is properly seated inside burner venturi,. Secure burner assembly.
3. Re-install pilot shield, ember refractory and logs.
4. Turn on gas and electrical supplies. Check for leaks at all connections, whether field or factory made.
5. Test inlet pressure. Visually check pilot flame. Flame should envelope top of flame sensor and extend onto burner far enough for proper ignition. To Adjust pilot: Turn pilot adjustment screw clockwise to decrease or counter-clockwise to increase pilot flame.
6. Turn fireplace off.
7. Affix gas type sticker to label.
8. Re-install glass frame and full door face.
9. Verify proper ignition and operation of fireplace.
10. Complete and affix 'Gas Conversion' label close to gas valve.

Fireplace Model No.:_____
This appliance and control was converted on_____
To_____ gas with Kit No._____ by:
Company:_____
Address:_____
Which accepts responsibility that this conversion has been properly made.
Minimum / Maximum inlet pressures: Refer to Rating Plate.
Manifold Pressure: Refer to Rating Plate.
Orifice size:_____ Input Rating:_____ BTU

GAS CONVERSION LABEL (included with conversion kit)

TROUBLESHOOTING

ATTENTION: TROUBLESHOOTING MUST BE PERFORMED BY A QUALIFIED TECHNICIAN.

PILOT WILL NOT LIGHT / STAY LIT

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

PILOT BURNING BUT IGNITER CONTINUES TO SPARK

- Pilot flame not making contact with flame rectification sensor on pilot assembly. This valve is equipped with a pilot flame adjustment screw. Adjust as necessary.

PILOT FLAME ALWAYS ON / WILL NOT EXTINGUISH

- CPI/IPI switch set to CPI position (down). Set switch to IPI position (up).

MAIN FLAME WILL NOT LIGHT

- ON/OFF rocker switch not set to ON.
- Remote, wall switch, or thermostat not turned ON.
- Plugged main burner orifice.
- Wiring disconnection / improper wiring. Check for faulty or incorrect wiring.
- Verify gas supply is turned on.
- Ensure pilot flame will ignite. If not, see pilot flame troubleshooting above.
- Ensure pilot flame is properly located to ignite main flame.

TROUBLESHOOTING

PILOT AND BURNER EXTINGUISH WHILE IN OPERATION

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

GLASS SOOTING

- Improper log placement. Refer to corresponding pages in this installation manual.
- Improper venturi setting. Venturi may need to be opened slightly to allow more air into the gas mix.
- Improper pitch on horizontal venting. 1/4" (6mm) rise per foot required on horizontal venting.

FLAME BURNS BLUE AND LIFTS OFF BURNER

- Improper venturi setting. Venturi may need to be closed slightly.
- Improper vent cap installation. Check for proper vent cap installation.
- Blockage or vent system leaks.

REPLACEMENT PARTS LIST

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

CONTROL BOARD AND PARTS			
TWO-770-IPI	IPI Control Board - Nat Gas	700-203	Manual Shut-off Valve
TWO-771-IPI	IPI Control Board - LP Gas	700-213	18" Flexible Gas Line-Black
700-552	Main Control Module	700-226	Flexible Gas Line-Valve to Burner Connection
700-550	IPI Valve - Natural	700-250	Natural Gas Orifice #50
700-550-1	IPI Valve - LP	700-257	LP Gas Orifice #57
700-551	Pilot Assembly - Natural Gas	OCK-S50N-I-TWO-SIT	Natural Gas Conversion Kit
700-551-1	Pilot Assembly - LP Gas	OCK-S57L-I-TWO-SIT	LP Gas Conversion Kit
700-100	Wire Harness	TWO-135	Burner Assembly
700-023	Toggle ON/OFF Switch	TH-043	Pilot Shield
700-555	Transformer	700-756	Battery Back-up with (4) AA Batteries
700-554	7.5 Volt Adaptor	700-992	Pilot Igniter (with wire)
700-166	#62 IPI NAT. Gas Pilot Orifice	700-993	Pilot Flame Sensor (with wire)
700-168	#35 IPI LP Gas Pilot Orifice		

GLASS AND GASKETING	
TWO-015T	21" x 14" Glass with Gasket
900-006	1-1/8" Glass Gasket
TWO-005	Replacement Valance

LOG SET	
TWO-500	Log Set
TWO1	#1 Log
TWO2	#2 Log
TWO3	#3 Log
TWO4	#4 Log
900-REMB	Rockwool Embers

REFRACTORY PANELS	
TWO-G900	Refractory Panel Set (6 pc.)
TWO-G900B	Back Refractory Panel
TWO-G900LS	Left Side Refractory Panel
TWO-G900RS	Right Side Refractory Panel
TWO-G902	Top Refractory Panel
TWO-G903LC	Left Corner Refractory Panel
TWO-G903RC	Right Corner Refractory Panel
TWO-900E	Ember Refractory

FAN KIT	
TWO-028	Fan Assembly

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

This appliance tested & certified by:
OMNI-Test Laboratories, Inc.
13327 NE Airport Way
Portland, Oregon 97230

Model #55616 Two Harbors

Manufactured by:

Hussong Mfg. Co., Inc.
204 Industrial Park Drive
Lakefield, Minnesota 56150
507-662-6641

www.kozyheat.com

LIMITED WARRANTY

KOZY HEAT
LIMITED 10 YEAR WARRANTY

Effective July 01, 2003

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

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

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

YEAR 1: Subject to the conditions & requirements listed below, within the first year from date of purchase, Hussong Manufacturing Co., Inc. shall, at its discretion, replace or repair any such defect in material or workmanship, at Hussong Manufacturing Co., Inc.'s expense, including reasonable labor costs to repair or replace the defective component, if a factory pre-authorization is given for the repair.

YEARS 2 - 10: Subject to the conditions & requirements listed below, beginning with the first day of the second year and continuing through the tenth year, Hussong Manufacturing Co., Inc., will at its discretion, provide repair or replacement parts at current list prices for any defect in material or workmanship of components, including optional components and accessories (if available). Hussong Manufacturing Co., Inc. shall not be responsible for any installation, labor, transportation or other indirect costs.

LIMITATION OF LIABILITY

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

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

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

This warranty is limited to defects in material and workmanship. It does not apply to any product that has been subject to negligence, misapplication, improper installation. Remote control warranties are covered by Ambient Technologies, Inc., and are excluded from this Limited Warranty.

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

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

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

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

WARRANTY CONDITIONS & REQUIREMENTS:

1. You are the original purchaser. This warranty is not transferable.
2. Installation of the fireplace is performed by a qualified installer.
3. Installation and operation must comply with installation and operation instructions.
4. Paint and glass gaskets are covered for 30 days from date of purchase.
5. Components broken, (including glass panels), during shipping, careless handling of components, or defects resulting from improper installation, misuse of the fireplace and components are not covered under this warranty.
6. This warranty does not cover any part of the fireplace or any components which have been exposed to or submerged under water.
7. Hussong Manufacturing Co., Inc. must be notified by the dealer the fireplace was purchased from or a qualified installer or service technician of the defect.
8. Annual service of the fireplace as required in the installation manual, is performed by a qualified installer/service technician. (Copies of such service records may be required to claim a warranty.)
9. All previous warranty/service has been performed by a qualified installer or service technician. (Copies of such service records may be required to claim a warranty.)

LIFETIME WARRANTY

KOZY HEAT FIREPLACES

LIFETIME WARRANTY

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

LIFETIME WARRANTY COVERAGE

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

LIMITATION OF LIABILITY

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

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

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

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

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

JUNE 1998

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(CUT ALONG DOTTED LINE)

TO ACTIVATE THIS LIFETIME WARRANTY COVERAGE, THIS REGISTRATION CARD MUST BE COMPLETED AND MAILED WITH YOUR COMPLETED 10 YEAR LIMITED WARRANTY FORM WITHIN 30 DAYS OF INSTALLATION.

PURCHASER'S NAME: _____ **INSTALLATION DATE:** _____

ADDRESS: _____ **MODEL#:** _____ **SERIAL #:** _____

_____ **TELEPHONE #** _____

INSTALLER NAME: _____

ADDRESS: _____ **TELEPHONE #** _____

_____