INSTALLATION AND OPERATION MANUAL

HUSSONG MANUFACTURING

KOZY HEAT FIREPLACES

Quality Fireplaces for Life

DELANO

Model: #DEL-36

DIRECT VENT LINEAR FIREPLACE

INSTALLER: LEAVE THIS MANUAL WITH THE APPLIANCE.

CONSUMER: RETAIN THIS MANUAL FOR FUTURE REFERENCE.

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

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

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

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

WHAT TO DO IF YOU SMELL GAS:

- **Do not 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.

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 OMNI-Test Laboratories, Inc. Portland Oregon USA

Report No. 216-F-14b-6.5

August 2011
DEL-36-REV-06

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 Z21.88-2009 CSA 2.33-2009 "VENTED GAS FIREPLACE HEATERS" CSA CAN/CGA 2.17-M91 (R2009) P.4.1-02 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.**
- **If this appliance is installed directly on carpeting, tile or other combustible material other than wood flooring, the appliance shall be installed on a metal or wood panel extending the full width and depth of the appliance.**
- **Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns or clothing ignition.**
- **Young children should be carefully supervised when they are in the same room as the appliance. Toddlers, young children and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at risk individuals in the house. To restrict access to a fireplace or stove, install an adjustable safety gate to keep toddlers, young children and other at risk individuals out of the room and away from hot surfaces.**
- **Clothing or other flammable material should not be 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 #DSL-057T, shall only be replaced as a complete unit, as supplied by Hussong Mfg. Co., Inc. Replacement of the 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
- High quality lifetime glass
  23-3/4" x 30-1/16" (603mm x 764mm)
- Curved black firebox liner
- IPI control system with remote control
- Engineer-designed burner system
- Light Kit
- Minnesota Energy Code compliant to 50 pascals

SAFETY FEATURES

- **Each unit factory tested!**
- Tested by OMNI - Test Laboratories
- Sealed combustion chamber
- Intermittent or Standing pilot ignition
- Flame sensing system (safety shutoff)
- 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

- Curved stainless steel firebox liner overlay
- Glass media kits in various colors - Required
- Rock media (used with required glass media kit)
- Flame accent-stainless steel (used with required glass media kit)
- Contemporary frames in various designs and finishes - Required
- Automatic fan kit (1) - 75 CFM

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

FIREPLACE DIMENSIONS

FIREPLACE DIMENSIONS	DESCRIPTION	Height	Width	Back Width	Depth	Opening Width	Glass Frame Height	Stand-off Height	Back to vent center
	INCHES	32	35-7/8	27-7/8	15-1/4	31-3/8	24-3/8	5-1/2	7-1/2
	MILLIMETERS	813	911	708	387	797	619	140	191

WARNING: Top stand-off brackets must be attached to fireplace. Do not remove. Stand-off brackets are not load bearing. Non-combustible zone: Stand-offs provide 5-1/2" (140mm) minimum clearance to header. Use only non-combustible material in this area for entire width of fireplace. Do not use wood, sheetrock etc. in this zone. Other clearances apply. All clearances must be maintained.

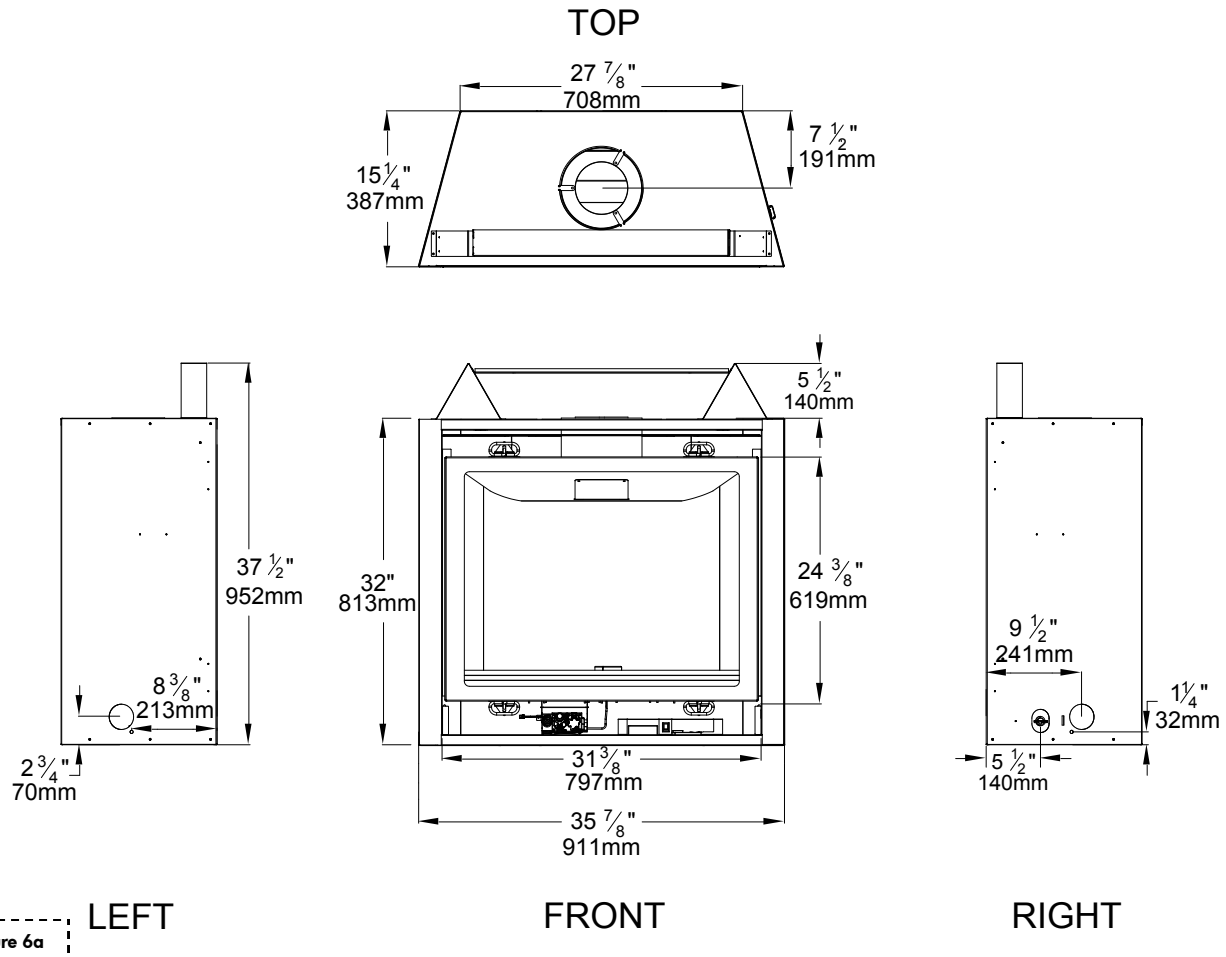


Figure 6a

CLEARANCES

Top of unit face to framing	5-1/2" (140mm)
From unit left & right sides & back	1/4" (6mm)
To flooring	0" (0mm)
Unit top to ceiling	31" (787mm)
Unit side to adjacent sidewall	1-1/2" (38mm)
Unit front to combustibles	36" (914mm)
Top of unit to 3/4" (19mm) trim	10" (254mm)
Mantel 4" (102mm) deep from top of fireplace	16" (406mm)

SPECIFICATIONS

#DEL-36 COMPONENTS LIST

PART NUMBER	DESCRIPTION
DEL-600-IPI	Control Board Assembly
700-203	Manual Gas Shut-off Valve
DEL-135	Burner Assembly
DEL-LKT	Light Kit
DSL-057T	Glass Frame Assembly
OCK-A54L-I-DEL-PSE	LP Conversion Kit
700-208	Remote Control
600-002	Double Receptacle Assembly
942-085	5" Restrictor Plate
DEL-HHS	Horizontal Vent Heat Shield

ADDITIONAL COMPONENTS REQUIRED

- Vent System: Approved venting listed on page 15 of this installation manual.
- Glass Media: Various colors available. See Dealer for details.
- Contemporary Frame: Various styles and finishes available. See Dealer for details.

INSTALLATION OVERVIEW

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

1. Frame an opening for fireplace, allowing for vent installation and type of installation (corner or flat wall application).
2. If masonry (optional) is used, prepare foundation for the masonry load. A lintel is required to support the added weight above fireplace.
3. Attach stand-off brackets and nailing flanges to fireplace.
4. Insert fireplace into framing.
5. Install hearth (if applicable).
6. Complete gas line installation.
7. Complete electrical hook-up. Install any standard or optional electrical components at this time.
8. Complete venting installation.
9. Secure fireplace to flooring through holes in outer box bottom and to framing with nailing flanges. Verify all clearances at this point.
10. Install facing material, mantel or cabinetry, allowing room for optional full face doors, if applicable.
11. Install glass media (required), and any optional burn media.
12. Install contemporary frame (required).
13. Verify proper operation of fireplace and all components.

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 large amount of heat this fireplace will produce when determining a location.

FIREPLACE PREPARATION

STAND-OFF / STAND-OFF HEAT SHIELD ASSEMBLY & INSTALLATION

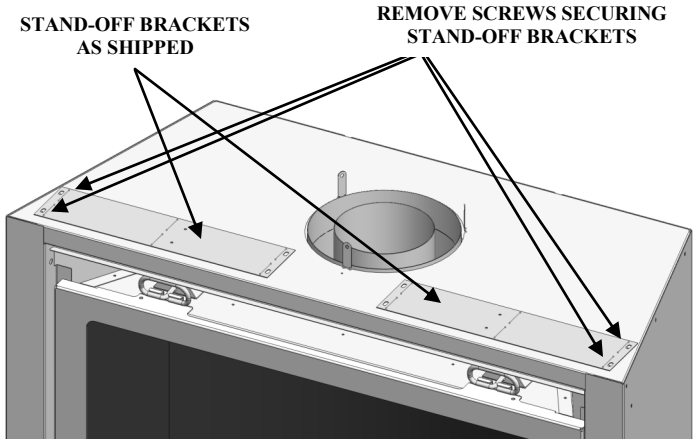
WARNING: Top stand-off brackets must be formed and attached prior to positioning fireplace into framed opening.

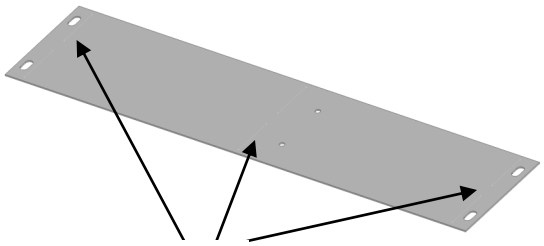
Stand-offs provide 5-1/2" (140mm) minimum clearance to header. Use only non-combustible material in this area for entire width of fireplace. Do not use wood, sheetrock, etc. in this zone. Other clearances apply. All clearances must be maintained.

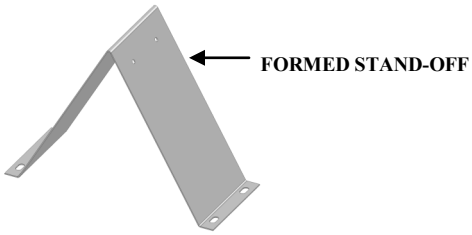
Stand-off brackets are not load bearing.

Top stand-off brackets and stand-off heat shield are attached to fireplace top in a flat state for shipping.

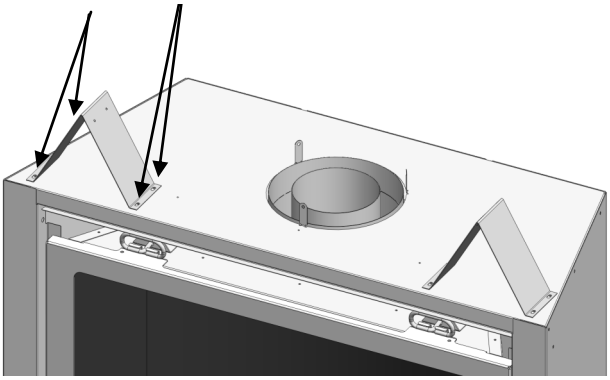
1. Remove and save (4) screws securing stand-off heat shield and stand-off brackets.
2. Form each stand-off bracket as shown.
3. Re-attach stand-off brackets to fireplace using screws previously removed along with (4) screws provided in fireplace components packet.
4. Form stand-off heat shield and attach to stand-off brackets with (2) screws provided in fireplace components packet. (Flange on stand-off heat shield faces 'up' and to back of fireplace).







ATTACH BOTH STAND-OFF BRACKETS BY ALIGNING WITH HOLES IN FIREPLACE TOP. SECURE WITH (4) SCREWS.



ATTACH STAND-OFF HEAT SHIELD BY ALIGNING WITH HOLES IN STAND-OFF BRACKETS. SECURE WITH (4) SCREWS.

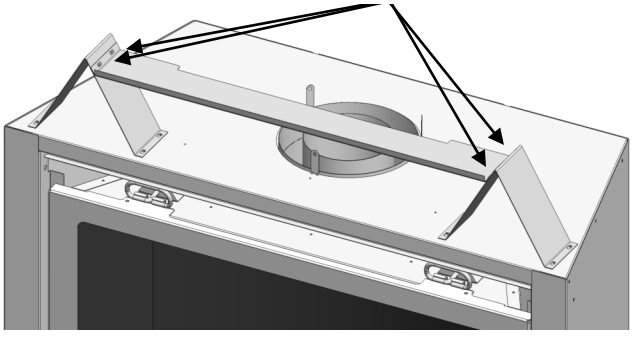


Figure 8a

FIREPLACE PREPARATION

NAILING FLANGE ASSEMBLY & INSTALLATION

1. Remove (4) nailing flanges from fireplace sides.
2. With the 1/4" (6mm) stand-offs on nailing flanges facing away from fireplace, align nailing flange with holes on outside corners of fireplace. Secure with screws (provided in components packet) through slots in nailing flanges.
3. Bend perforation on nailing flange until parallel with fireplace face. Do not bend toward fireplace face.
4. Position framing stud against 1/4" (6mm) stand-off (located on backside of nailing flange). Secure with nails or screws.

NOTE: Depending on facing material, tabs can be adjusted forward or back wards up to 1/2" (13mm).

CAUTION: Never permanently remove these assemblies from fireplace - they must be secured in place regardless of finish material used.

When installed, nailing flanges provide the minimum 1/4" (6mm) clearance from fireplace sides.

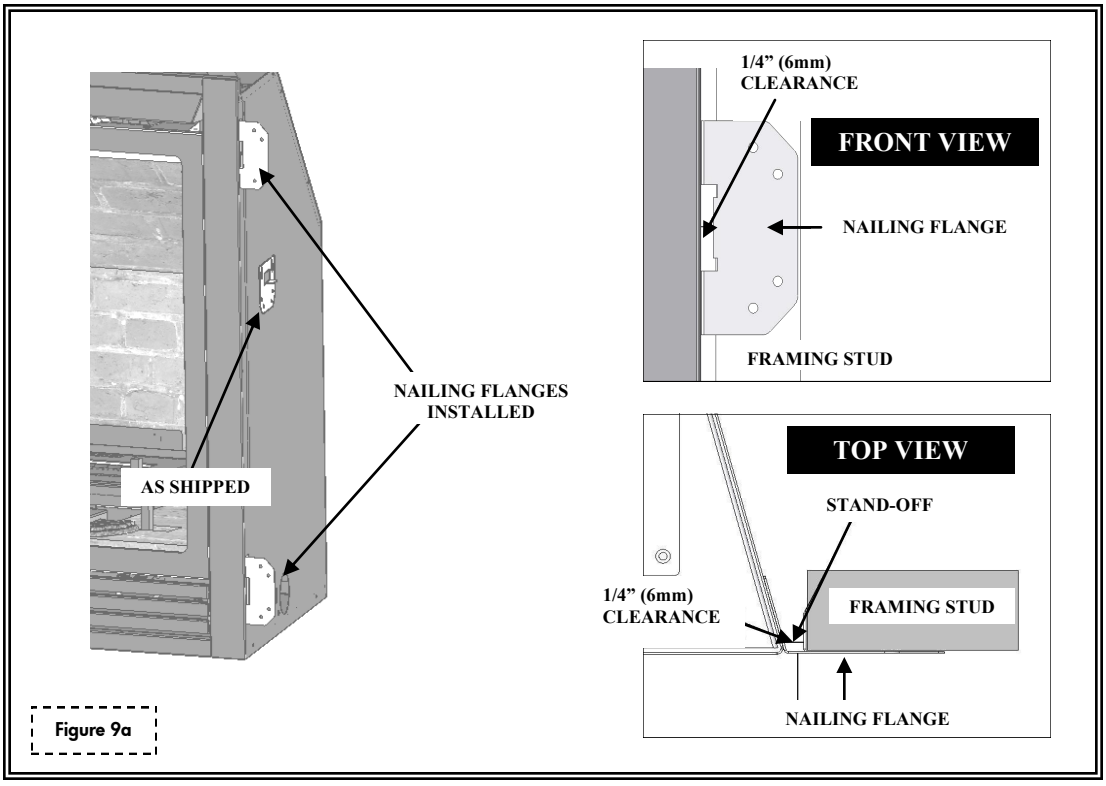


Figure 9a

FRAMING

WALL ENCLOSURE 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 facing material may be applied over (but not directly to) fireplace face. This will prevent facing material from falling off due to heat expansion. Do not obstruct the flow of ventilation air.

MINIMUM FINISHED OPENING DIMENSIONS

(APPLIES TO BOTH HORIZONTAL AND VERTICAL VENTING TERMINATIONS)

37-1/2"(952 mm) High x 36-3/8" (924 mm) Wide x 15-3/4" (400mm) Deep.

1/4" (6 mm) clearance at back and sides of fireplace must be maintained.

NOTE: Provide adequate clearance in front of fireplace to access components.

WARNING: DO NOT OBSTRUCT UPPER AND LOWER GRILL OPENINGS. ROOM AIR ENTERS THROUGH LOWER PASSAGE, IS HEATED AND EXITS THROUGH UPPER PASSAGE. BLOCKING THESE PASSAGES MAY RESULT IN OVERHEATING, CREATING A POTENTIALLY HAZARDOUS SITUATION.

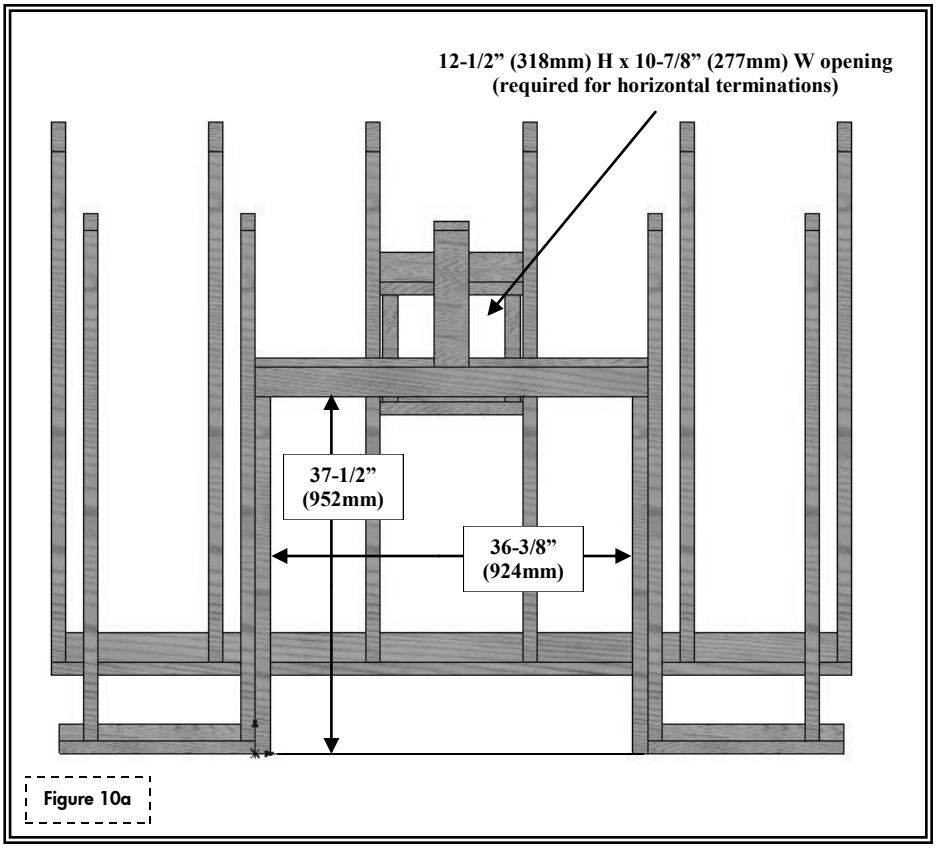


Figure 10a

FRAMING

Determine exact position of your 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.

NOTE: Consider height of hearth finish material (stone, brick, etc.) when building fireplace platform. The bottom of fireplace must be level with finished hearth to allow for proper fit of contemporary frames.

WARNING: Install fireplace on hard metal or wood surface extending the full width and depth of fireplace. Minimum platform size: 37-7/8" (911mm) wide x 15-1/4" (387mm) deep.

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

IMPORTANT: Vent cap location must be in compliance with guidelines on page #23 of this manual.

WARNING: DO NOT RECESS VENT CAP INTO WALL OR SIDING.

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.

NOTE: The included Horizontal Vent Heat Shield is not used for vertical configurations.

HORIZONTAL TERMINATIONS

Frame a 12-1/2" (318mm) high (H) x 10-7/8" (276mm) wide (W) opening on exterior wall for chimney termination. This opening size includes required 3" (76mm) top clearance and 1" (25mm) sides and bottom clearances for approved rigid vent systems and Kozy Heat #800 series flexible vent system.

MINIMUM HORIZONTAL FRAMING DIMENSIONS

	VENT PIPE TOP (A)	FRAMED OPENING TOP (B)
RIGID PIPE	42-1/8" (1070mm)	45-1/8" (1146mm)
FLEX PIPE	49" (1245mm)	52" (1321mm)

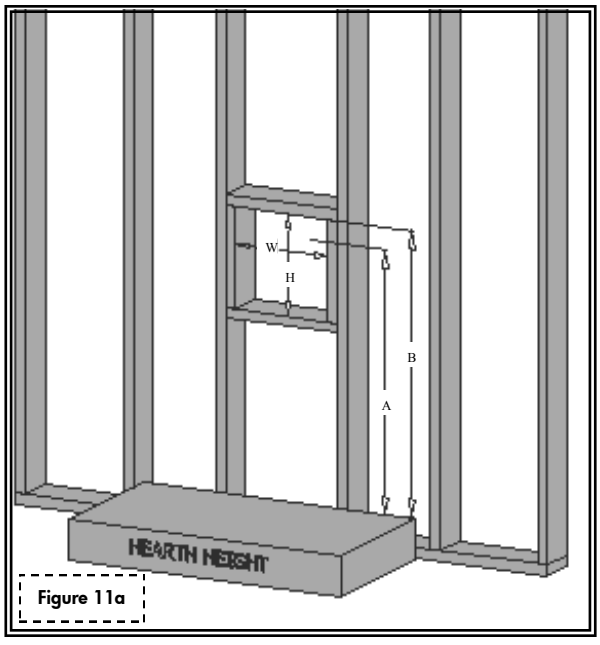


Figure 11a

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.

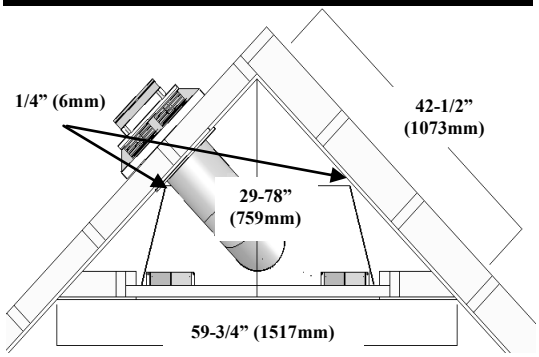
TYPICAL INSTALLATION OPTIONS

IMPORTANT: Kozy Heat wall thimble pass-thru (#800-WPT or #800-WPT2) must be used on all horizontal vent runs. Follow instructions on page 16of this installation manual.

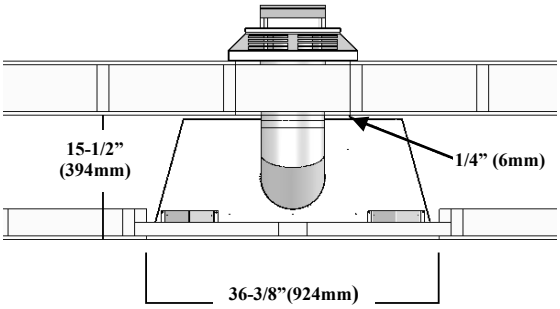
IMPORTANT: The horizontal heat shield included with this fireplace must be installed when using a 90-degree elbow directly off top of unit to horizontally position vent system.

IMPORTANT: Horizontal vent heat shield not shown in illustrations below for clarity purposes only.

CORNER INSTALLATION



HORIZONTAL INSTALLATION



VERTICAL INSTALLATION

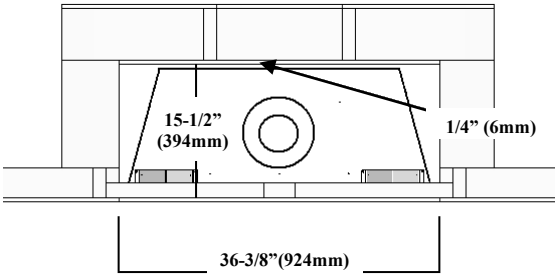


Figure 12a

MANTEL REQUIREMENTS

WARNING: Non-combustible zone: No combustible materials allowed on top of fireplace within shaded area for entire width and depth of fireplace with the exception of the header. Backside of header must be no more than 2-1/4" (57mm) from front of fireplace.

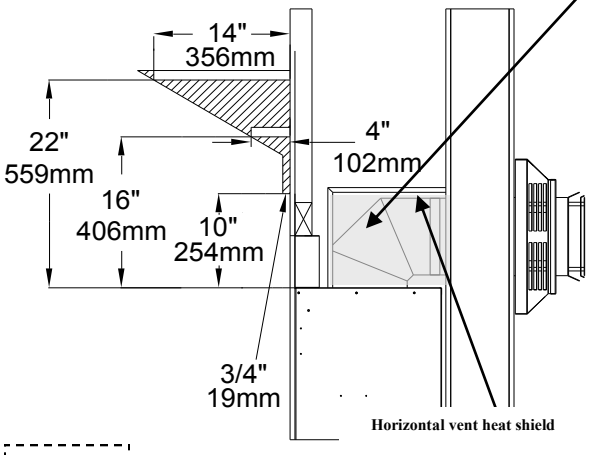
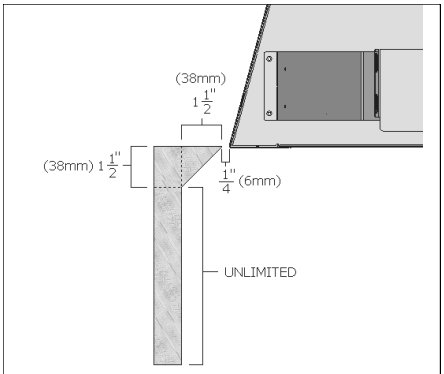


Figure 12b



Clearance to mantel legs or wall projections (acceptable on both sides of opening).

GLASS FRAME / CONTEMPORARY FRAME

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

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

REMOVE GLASS FRAME ASSEMBLY

1. Locate spring-loaded handles securing glass frame assembly at top & bottom of firebox.
2. Pull bottom handles out and down to release assembly bottom.
3. Pull top handles out and up to release assembly top.
4. Remove glass frame assembly from fireplace.

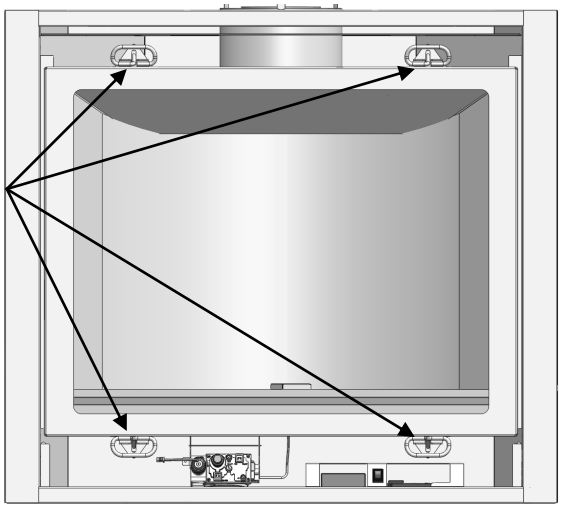


Figure 13a

INSTALL GLASS FRAME ASSEMBLY

1. Place glass frame assembly onto fireplace front.
2. Pull top handles out and down to secure assembly top.
3. Pull bottom handles out and up to secure assembly bottom.

CONTEMPORARY FRAME (sold separately)

To Install: Align tabs on back of frame with slots on fireplace, set into position.

To Remove: Lift frame up and out of slots.

OPTIONAL FAN KIT 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 a fan, it is easier to complete before the control board is connected to the gas line.

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.

The following components must be removed from fireplace before installing this fan. Refer to corresponding pages in this installation manual for assistance if necessary: Face frame, Glass frame assembly.

1. Insert fan through right side of lower grill opening , push to back wall.
2. Plug cord into receptacle marked FAN on extension module.
3. Re-install glass frame assembly and face frame.

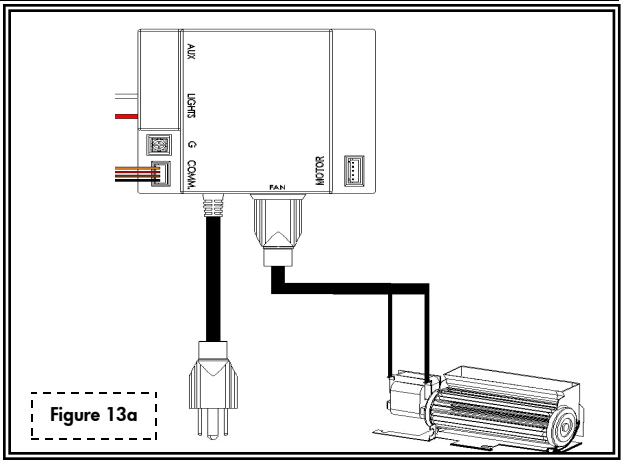


Figure 13a

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.

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 of gas fitter.

NOTE: A listed (and Commonwealth of Massachusetts approved) 12" (305mm) 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. (3.5kPa)

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" WC (1.25 kPa) (7" WC (1.74 kPa) recommended)	11" WC (2.74 kPa) (recommended)
MAXIMUM INLET GAS PRESSURE	10.5" WC (2.62 kPa)	13" WC (3.24 kPa)
MANIFOLD PRESSURE (HI)	3.5 (.87 kPa)	10.0 (2.49 kPa)
MANIFOLD PRESSURE (LO)	0.6 (.15 kPa)	1.5 (.37 kPa)
ORIFICE SIZE	#42	#54
INPUT BTU/hr. (kW)	26,000 BTU/hr (7.62 kW)	25,500 BTU/hr (7.47 kW)
MINIMUM INPUT BTU/hr. (kW)	10,000 BTU/hr (2.93 kW)	8,000 BTU/hr (2.35 kW)

See page 37 for proper method for testing appliance inlet pressure.

VENTING

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

This fireplace is designed to be used with any of the following vent systems without the use of an additional adaptor. Refer to vent 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-PRO 5" x 8" direct vent system (horizontal and vertical terminations).

Selkirk Metalbestos 5" x 8" direct vent chimney system (horizontal and vertical terminations).

Kozy Heat #800 series flexible vent system (horizontal terminations).

Metal Fab 5" x 8" direct vent chimney system (horizontal and vertical terminations).

ICC 5" x 8" direct vent chimney system (horizontal and vertical terminations).

Security 5" x 8" direct vent chimney system (horizontal and vertical terminations).

Amerivent / American Metal 5" x 8" direct vent chimney system (horizontal and vertical terminations).

HORIZONTAL VENT SYSTEM CLEARANCES

	TOP	BOTTOM	SIDES
ALL APPROVED VENTING	3 inches (76mm)	1 inch (25mm)	1 inch (25mm)

IMPORTANT: The horizontal vent heat shield must be installed when using a 90-degree elbow to horizontally position the vent system.

Kozy Heat Wall Pass-thru, #800-WPT (4-1/2" (114mm) - 6-1/2" (165mm) wall thickness), or #800-WPT2 (6-1/2" (165mm)-12-1/2" (318mm) wall thickness) must be used on all horizontal vent runs.

HORIZONTAL TERMINATIONS

MINIMUM: 90° elbow + 6" (152mm) horizontal + termination cap. (Horizontal Vent Heat Shield required).

MAXIMUM: 90° elbow + 30ft. (9.14m)* + termination cap.

*** Horizontal terminations over 25ft. (7.62m) must use stainless steel pipe for the entire length of termination.**

IMPORTANT: The horizontal heat shield included with this fireplace must be installed when using a 90-degree elbow to horizontally position vent system. This includes any corner installation.

IMPORTANT: Flame height and appearance will vary depending upon venting configuration and type of fuel used. Venting requirements apply to both Natural and LP gas.

VENTING

#800-WPT WALL PASS-THRU

IMPORTANT: #800-WPT or #800-WPT2 Wall Pass-Thru must be used on all horizontal vent terminations. This includes both interior and exterior walls. Follow instructions below.

FRAMING DIMENSIONS FOR #800-WPT KOZY HEAT WALL PASS-THRU

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

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

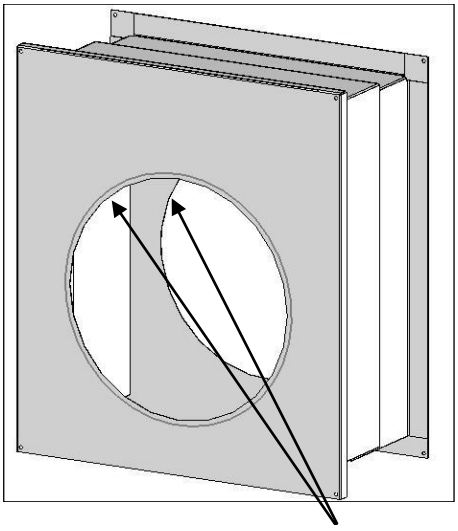
IMPORTANT: If using Kozy Heat series flexible vent system, remove inner ring on each wall thimble section with a tin snips. This will provide adequate room for the flexible vent system.

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

B. Install wall pass-thru section marked #1 (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).



CUT RING OUT OF BOTH SECTIONS IF USING #800 SERIES FLEX VENTING.

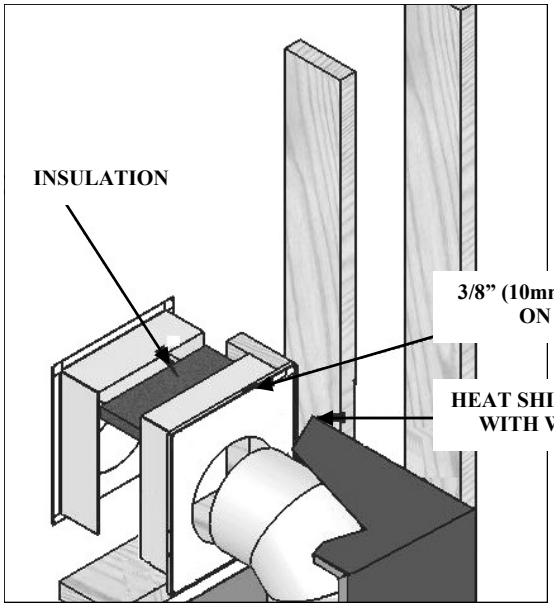


Figure 16a

VENTING

NOTE: Page 19 has information on restrictor installation in conjunction with venting installation. Page 40 has information on restrictor recommendations depending on burner flame appearance and instructions on installation after venting is completed.

MIN. / MAX. HORIZONTAL VENTING

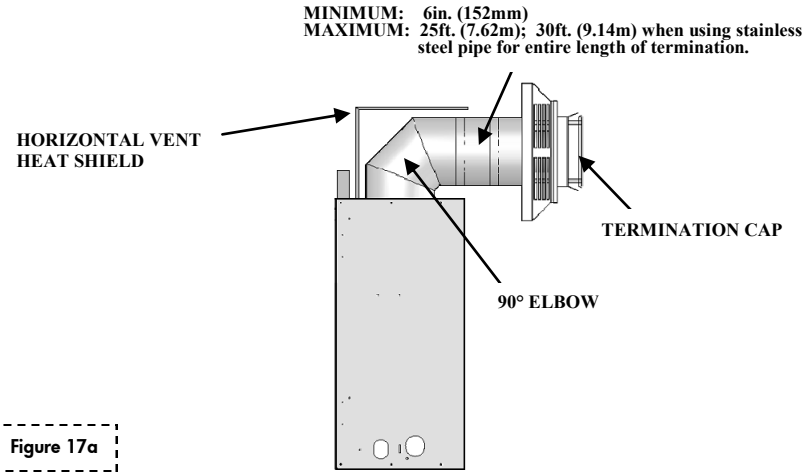


Figure 17a

IMPORTANT: The horizontal vent heat shield must be installed when using a 90-degree elbow to horizontally position the vent system.

Kozy Heat Wall Pass-thru, #800-WPT (4-1/2" (114mm) - 6-1/2" (165mm) wall thickness), or #800-WPT2 (6-1/2" (165mm)-12-1/2" (318mm) wall thickness) must be used on all horizontal vent runs.

HORIZONTAL VENT HEAT SHIELD

IMPORTANT: The horizontal vent heat shield must be installed when using a 90-degree elbow to horizontally position the vent system. This includes any corner installation.

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

1. Loosen, but do not remove center three screws on top of fireplace.
2. Bend horizontal heat shield at perforation to a 90° angle. Slide (3) slots on horizontal vent heat shield under loosened screws.
3. Re-tighten screws.

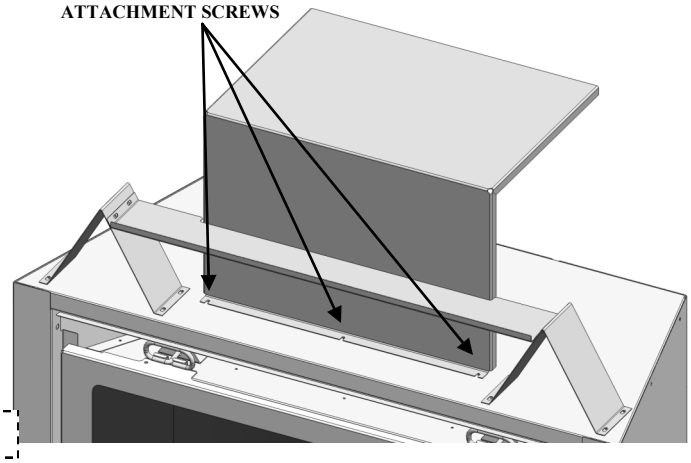


Figure 17b

VENTING

HORIZONTAL VENTING

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

TYPICAL CORNER INSTALLATION

90° elbow + horizontal pipe + termination cap.
(Horizontal Vent Heat Shield required).

VENTING DIMENSIONS FOR MINIMUM CORNER INSTALLATIONS

Vent Opening Dimensions: 12-1/2" (318mm) H x 10-7/8" (276mm)

From Floor or Hearth to Vent Opening Center: 37-7/8" (962mm)

From Corner to Vent Opening Center: 15-7/8" (403mm)

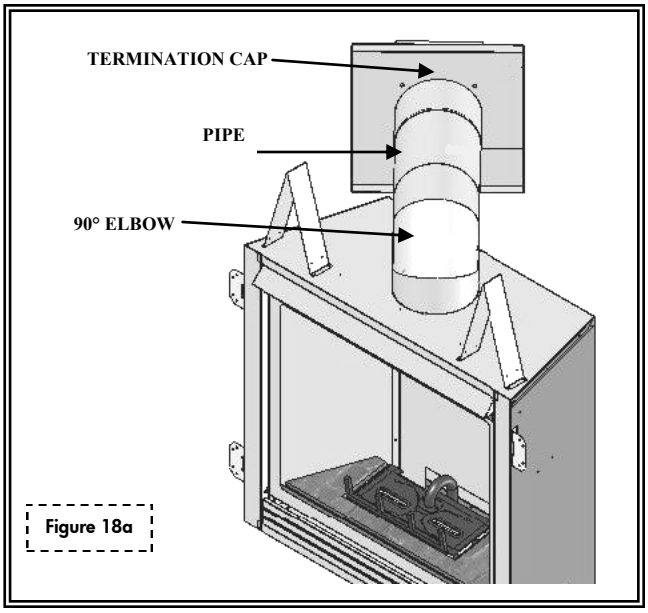


Figure 18a

VERTICAL VENT SYSTEM CLEARANCES			
	TOP	**BOTTOM**	**SIDES**
ALL APPROVED RIGID PIPE	1 inch (25mm)	1 inch (25mm)	1 inch (25mm)
KOZY HEAT #800 SERIES	DO NOT USE FOR VERTICAL TERMINATIONS		

VERTICAL TERMINATIONS

MIN. / MAX. VERTICAL VENTING

MINIMUM: 4ft. (1.22m) + cap.

MAXIMUM: 40ft. (12.19m) + cap.

NOTE: Horizontal Vent Heat Shield is not used on vertical venting configurations.

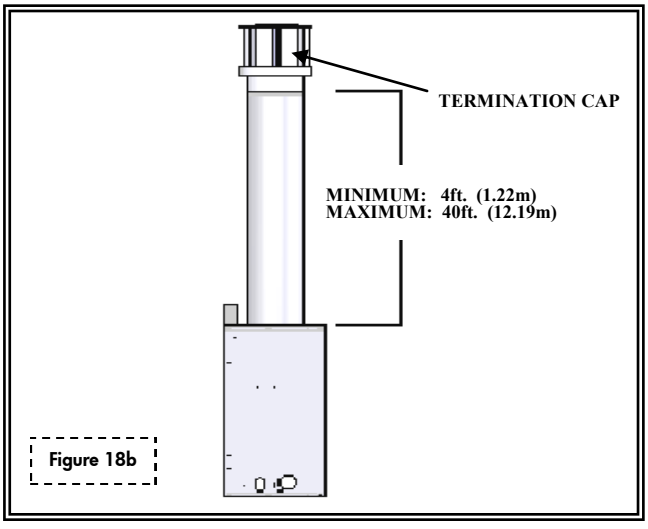


Figure 18b

VENTING

RESTRICTOR

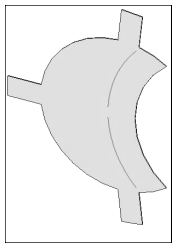
A restrictor (included in fireplace components packet) is recommended on all vertical terminations over 6ft. (1.82m) in length. It may be necessary to use two restrictors positioned offset from each other if maximum vertical venting is used.

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.

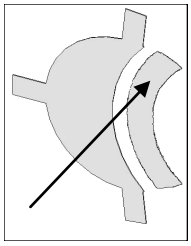
Please refer below for installation instructions if installing the restrictor in conjunction with venting.

Page 40 has information on restrictor recommendations depending on burner flame appearance and instructions on installation after venting is completed.

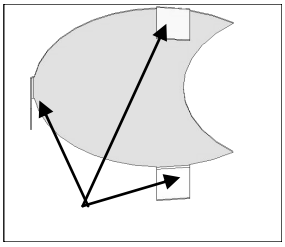
RECOMMENDED:
Vertical terminations over 6ft. (1.82m): 1 restrictor
Maximum vertical terminations: 2 offset restrictors



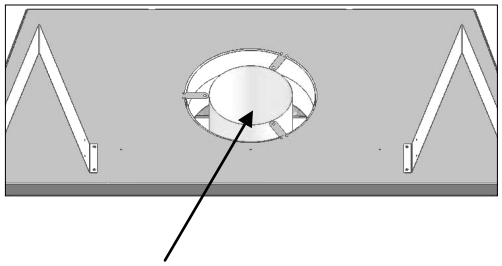
Large Restrictor



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 19a

NOTE: Page 40 has information on restrictor recommendations depending on burner flame appearance and instructions on installation after venting is completed.

ELBOWS

For each additional 90° elbow used after first elbow, 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.

(2) 45° degree elbows may be used in place of (1) 90° elbow.

The horizontal vent heat shield must be installed when using a 90-degree elbow to horizontally position the vent system.

Kozy Heat Wall Pass-thru, #800-WPT (4-1/2" (114mm) - 6-1/2" (165mm) wall thickness) or,
#800-WPT2 (6-1/2" (165mm) - 12-1/2" (318mm) wall thickness), must be used on all horizontal vent runs.

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

NOTE: Page 19 has information on restrictor installation in conjunction with venting installation. Page 40 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.

VENTING

HORIZONTAL & VERTICAL COMBINATION VENTING

MAXIMUM: 20ft. (6.10m) horizontal + 20ft. (6.10m) vertical + cap. 40ft. (12.19m) total.

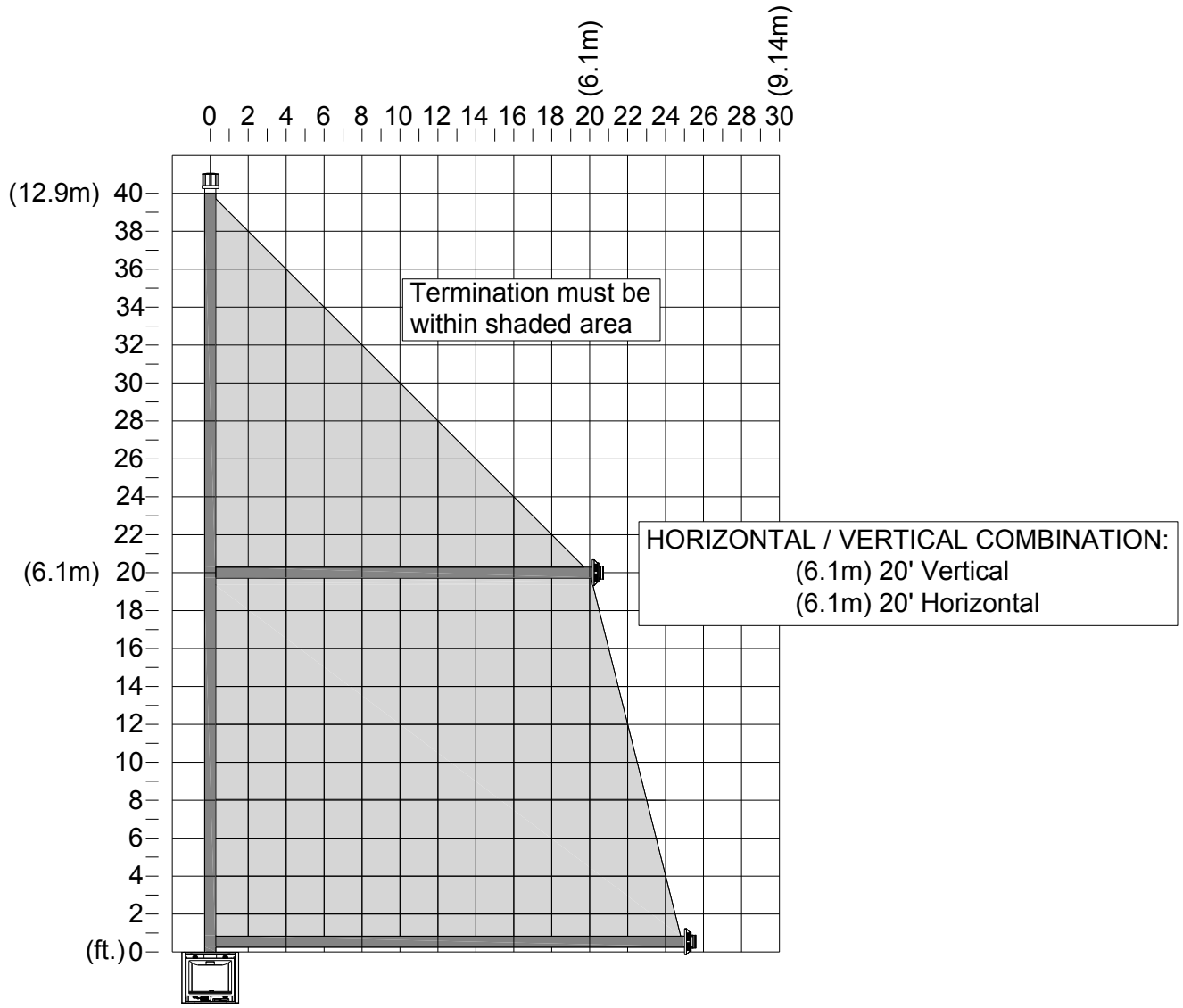


Figure 20a

VENTING

INSTALLATION OF #800 SERIES DIRECT VENT TERMINATION KIT(S)

IMPORTANT: The flex pipe is permanently attached to the exterior plate. DO NOT ATTACH #844 or #845 termination kit to fireplace (or extension kit) until it has passed through wall. Install termination plates to outside wall exterior.

HORIZONTAL TERMINATIONS Refer to illustration on following page.

IF TERMINATING AGAINST VINYL SIDING, A VINYL SIDING PROTECTOR, INCLUDED WITH #844 AND #845 DIRECT VENT KITS, MUST BE USED. FOLLOW INSTRUCTIONS INCLUDED.

IMPORTANT: The Kozy Heat wall pass-thru, part #800-WPT or #800-WPT2, must be used on all horizontal vent applications regardless of which vent system you are using.

CAUTION: This gas appliance must not be connected to a chimney flu serving another type of appliance.

NOTE: Page 19 has information on restrictor installation in conjunction with venting installation. Page 40 has information on restrictor recommendations depending on burner flame appearance and instructions on installation after venting is completed.

1. If your vent system application does not require an extension kit, proceed to step #7.

2. If your vent system application will require one or more extension kits (Part #846), proceed with the following steps. Each #846 extension kit contains enough 5" & 8" flexible aluminum to extend chimney an additional 6ft. (1.83m).

3. Gently stretch 5" & 8" flexible aluminum pipes on termination kit (#844 or #845) and on each extension kit (if used) the length required for your installation.

IMPORTANT: DO NOT STRETCH EXTENSION KIT BEYOND 6ft. (1.83 m). DO NOT STRETCH BEYOND WHAT IS REQUIRED - IT IS VERY DIFFICULT TO RECOMPRESS FLEX PIPES ONCE STRETCHED.

4. Place a bead of sealant outside 5" flex pipe collar (C) (end with EXTERNAL lip), sliding it **inside** 5" pipe on top of fireplace (D). Secure with 3 evenly spaced screws.

5. Place a bead of sealant inside 8" flex pipe collar (E) (end with the INTERNAL lip), sliding it **over** 8" pipe on top of fireplace (F). Secure with 3 evenly spaced screws.

6. If additional extension kits are required, repeat steps #4 - #5, placing 5" & 8" pipes onto previous extension kit. **OPTIONAL**: Place insulation between 8" pipe and wall studs.

7. With spacer legs toward the wall, slide interior firestop (H) over 8" pipe and attach to interior wall (over wall materials).

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

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

9. Gently pull 5" & 8" pipes down to top of extension kit, or top of fireplace if no extension kits were used.

10. Place a bead of sealant outside 5" flex pipe collar (C) and slide it into 5" pipe on extension kit or top of fireplace (D). Secure with 3 evenly spaced screws.

ILLUSTRATION ON FOLLOWING PAGE.

VENTING

FLEXIBLE #800 SERIES cont.

A	TERMINATION BOX
B	SLOTS IN EXTERIOR WALL PLATE
C	5” FLEX PIPE COLLAR
D	5” PIPE ON FIREPLACE OR EXTENSION KIT
E	8” FLEX PIPE COLLAR
F	8” PIPE ON FIREPLACE OR EXTENSION KIT
G	VINYL SIDING PROTECTOR
H	INTERIOR FIRESTOP

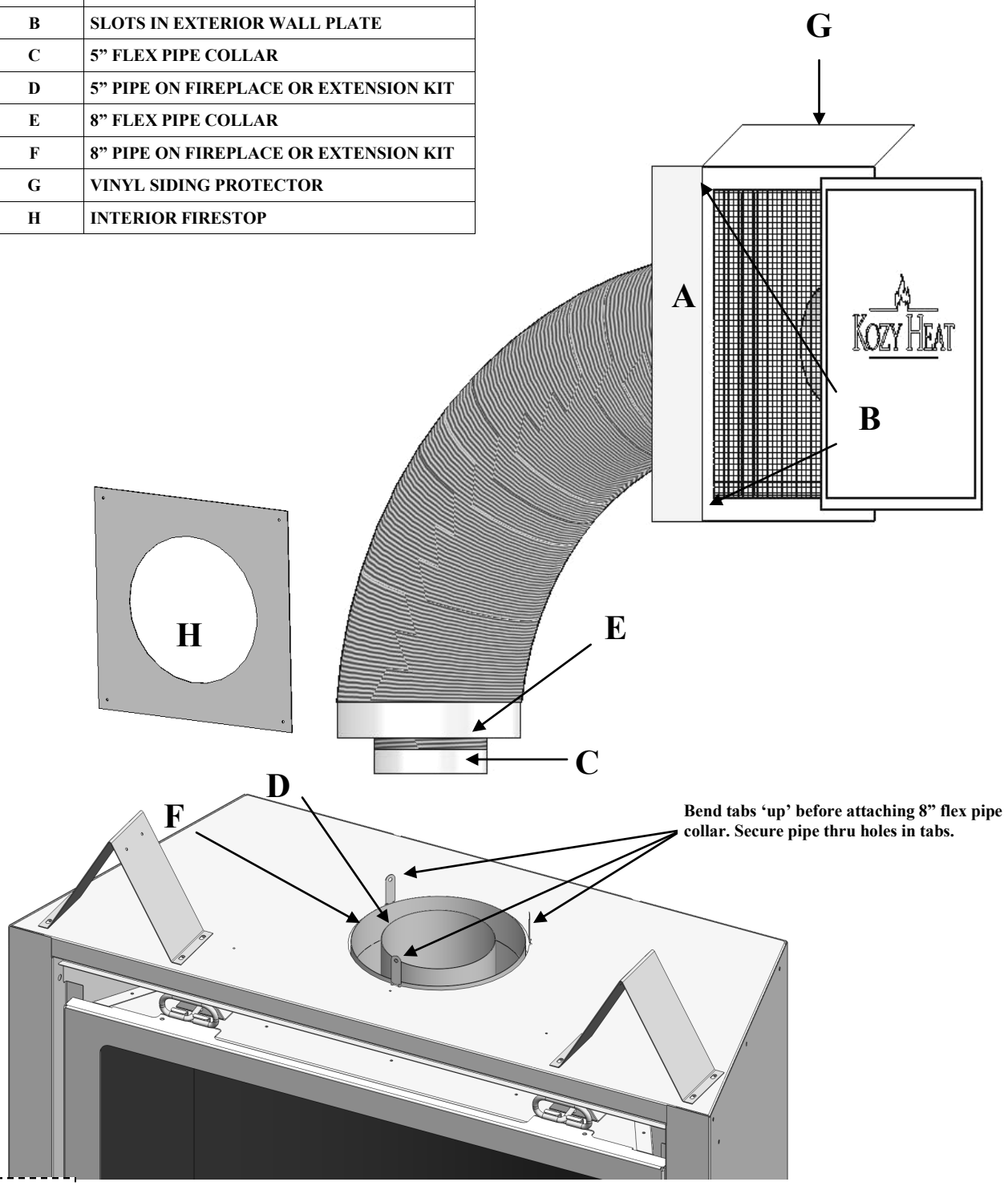


Figure 22a

NOTE: Stand-off heat shield not shown for clarity purposes only.

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* - 24" (610mm).
E. Unventilated soffit* - 12" (305mm).
F. Outside corner* - 1" (25mm).
G. Inside corner* - 12" (305mm).
H. Meter / Regulator: Not to be installed above a gas meter/regulator assembly within 3ft. (914mm) horizontally from the centerline of the regulator within a height of 15ft. (4.57m). US*.
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 min. of 2 sides) - 12" (305mm).
N. Between two horizontal terminations - 12" (305mm).
O. Between two vertical terminations - 12" (305mm). Terminations may be the 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.

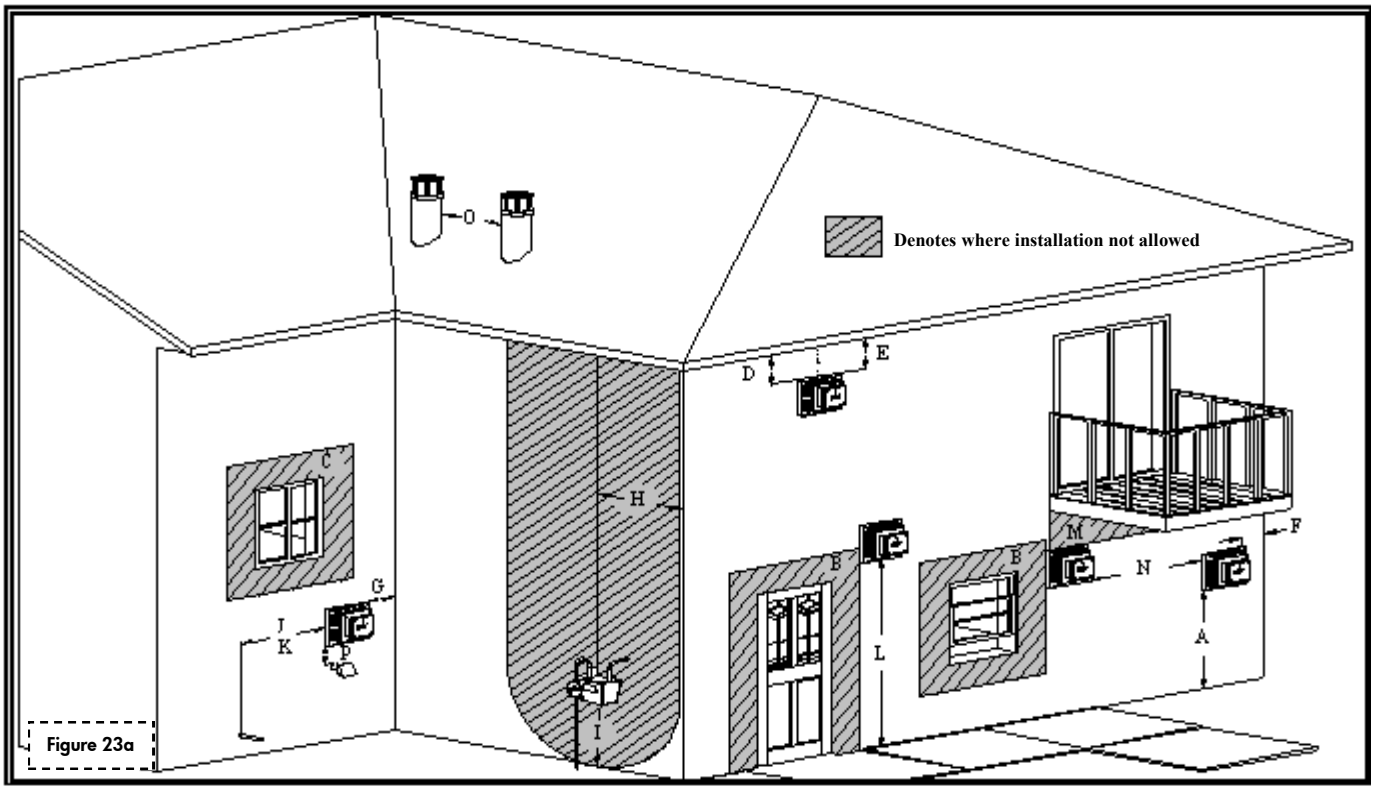


Figure 23a

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.

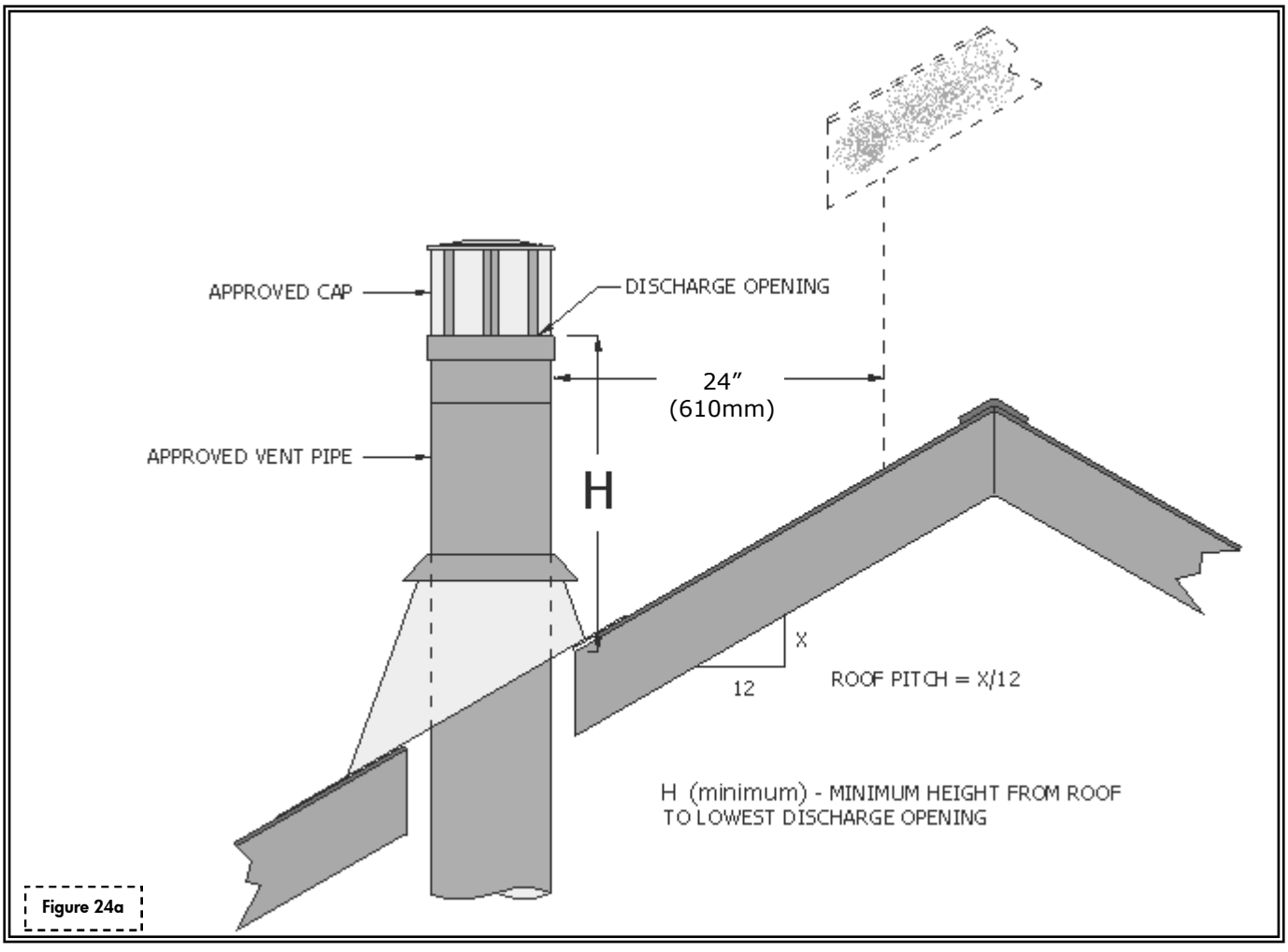


Figure 24a

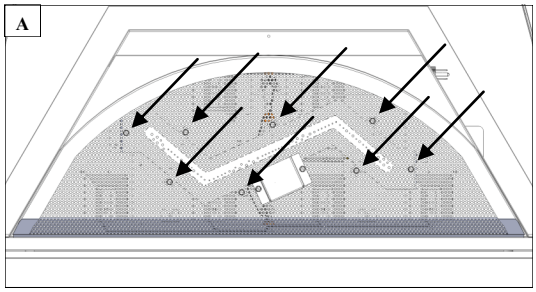
LIGHT KIT

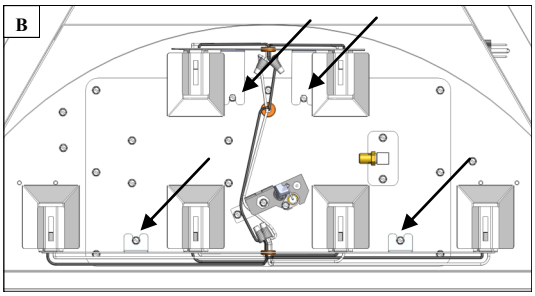
ATTENTION: If converting to LP (propane) gas, do so now before installing light kit components. Follow instructions included with conversion kit .

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

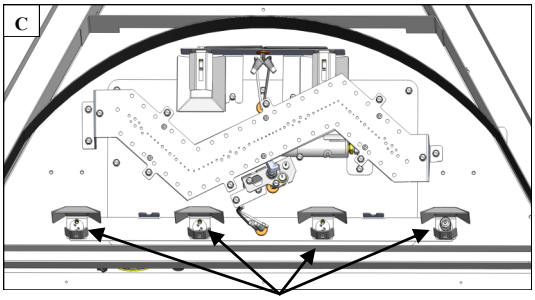
NOTE: To avoid damage and prolong the life of halogen bulbs, never touch with bare hands. Always use a soft cloth when handling.

1. Remove (8) screws securing burner cover, lift cover out of firebox.
2. Loosen, but do not remove (4) screws securing light bars to firebox floor. Slide light bars out away from screws, tipping upwards to expose lamp bases.
3. Install (6) halogen bulbs (included in components packet) into lamp bases.
4. Reattach light bars, securing with screws previously loosened.
5. Reinstall burner cover, securing with screws previously removed.





Burner removed for clarity purposes only



Front light bar shown in tipped up postion

Figure 25a

GLASS MEDIA INSTALLATION (sold separately)

ATTENTION: Do not operate this fireplace without glass media installed. Various colors available. See Dealer for details.

WARNING: Do not block pilot assembly with glass media. A blocked pilot assembly may result in a delayed ignition.

Install glass media onto burner assembly and pilot shield, being careful not to block pilot assembly.

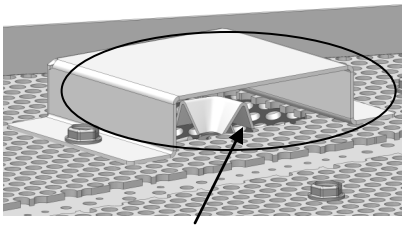


Figure 25b

DO NOT BLOCK THIS AREA

CONTROL BOARD REMOVAL / INSTALLATION

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

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

REMOVAL

1. Use remote to turn fireplace off.
2. Remove screen front and glass frame assembly.
3. Shut off gas supply at manual shut-off valve.
3. Disconnect gas line flex tube from manual shut-off valve.
4. Unplug all components from receptacle, disconnect all wiring harnesses attached to gas valve.
5. Remove glass media.
6. Remove burner cover (secured with (8) screws).
7. Remove burner tube from firebox floor (secured with (3) screws).
8. Remove halogen bulbs. Loosen (4) screws that secure light brackets to control board. Pull bracket assemblies away from control board, allowing access to screws securing control board to firebox bottom. (Illustration F shows light kit completely removed for illustration purposes only).
9. Remove (8) screws securing control board, lift board out of firebox being careful not to damage sealing gasket lying underneath.

INSTALLATION

1. Place control board in firebox, aligning holes in board to holes in firebox bottom. **MAKE SURE SEALING GASKET IS IN PLACE ON FIREBOX BOTTOM!** Secure with (8) screws previously removed.
2. Re-attach light brackets, tighten screws. Reinstall halogen bulbs.
3. Reinstall burner, positioning burner venturi over burner orifice, aligning mounting holes with corresponding holes in control board assembly. Secure with (3) screws previously removed.
4. Reinstall burner cover, aligning holes in cover to corresponding holes in burner. Secure with screws (8) previously removed.
5. Reinstall glass media, being careful not to block pilot.
6. Reconnect gas line to manual shutoff valve.
7. Reconnect all wiring harnesses to gas valve. Plug all components into electrical outlet.
8. Reinstall glass frame assembly.
9. Turn gas on.
10. Reinstall screen front.
11. Verify proper glass media placement, operation of fireplace, and any electrical components.

CAUTION: CHECK ALL CONNECTIONS FOR LEAKS, WHETHER FIELD OR FACTORY MADE.

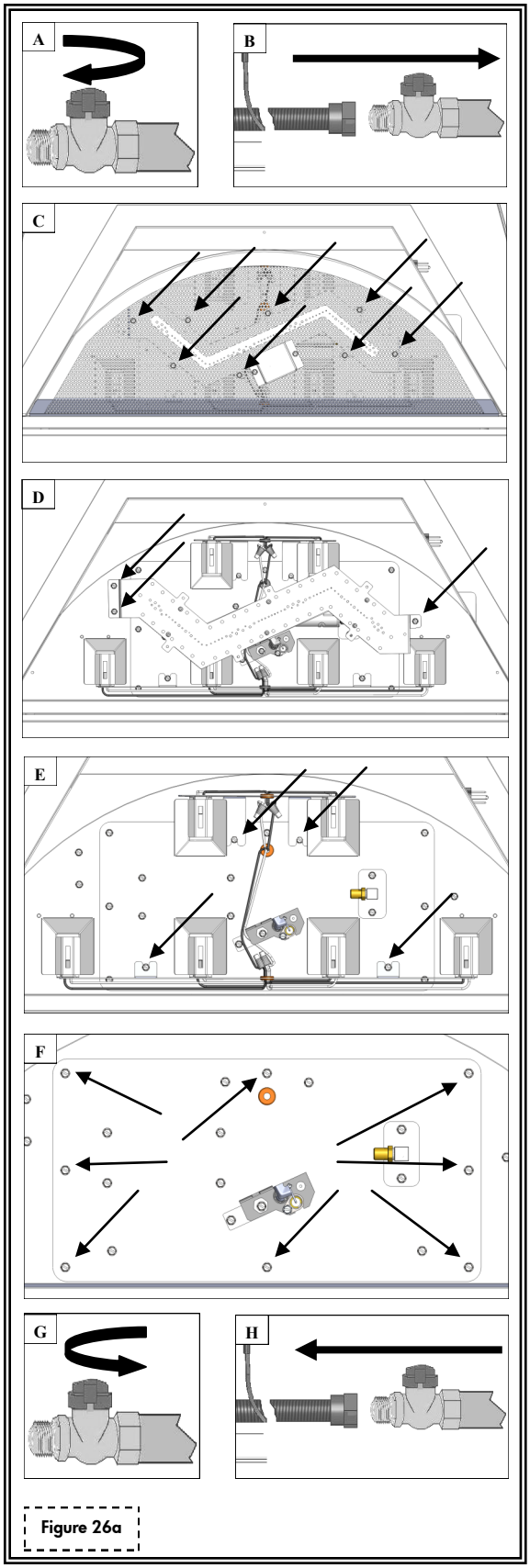
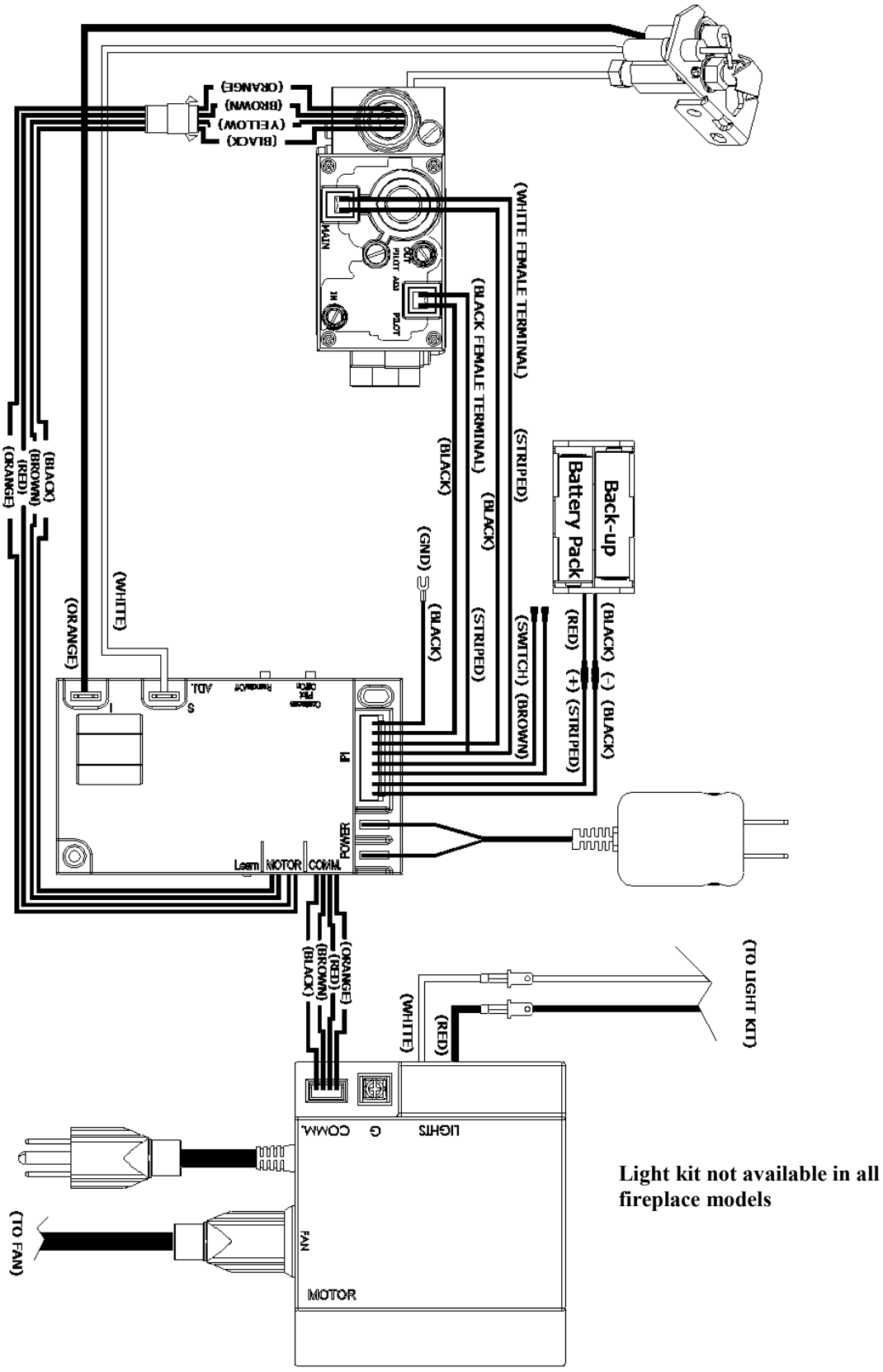


Figure 26a

DELANO WIRING SCHEMATICS

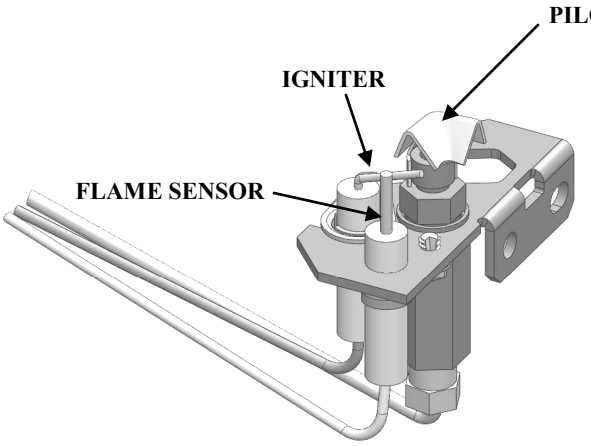
IMPORTANT: THIS SYSTEM REQUIRES ELECTRICITY (110 V) AND / OR BATTERIES TO OPERATE. USING BATTERY BACK UP WILL OPERATE BURNER ONLY. FAN AND LIGHT COMPONENTS WILL NOT FUNCTION ON BATTERY BACK-UP POWER.



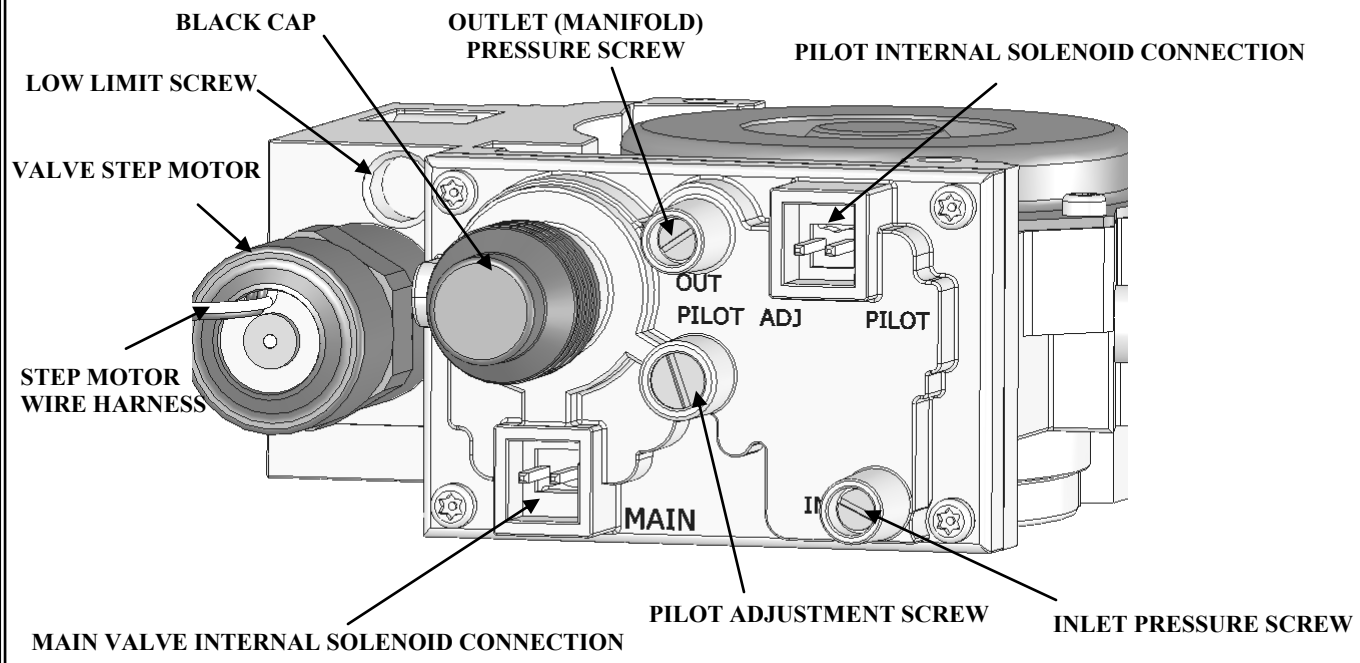
Light kit not available in all fireplace models

Figure 27a

VALVE & PILOT ASSEMBLY COMPONENTS



IPI PILOT ASSEMBLY



IPI GAS VALVE

Figure 28a

CONTROL MODULE COMPONENTS

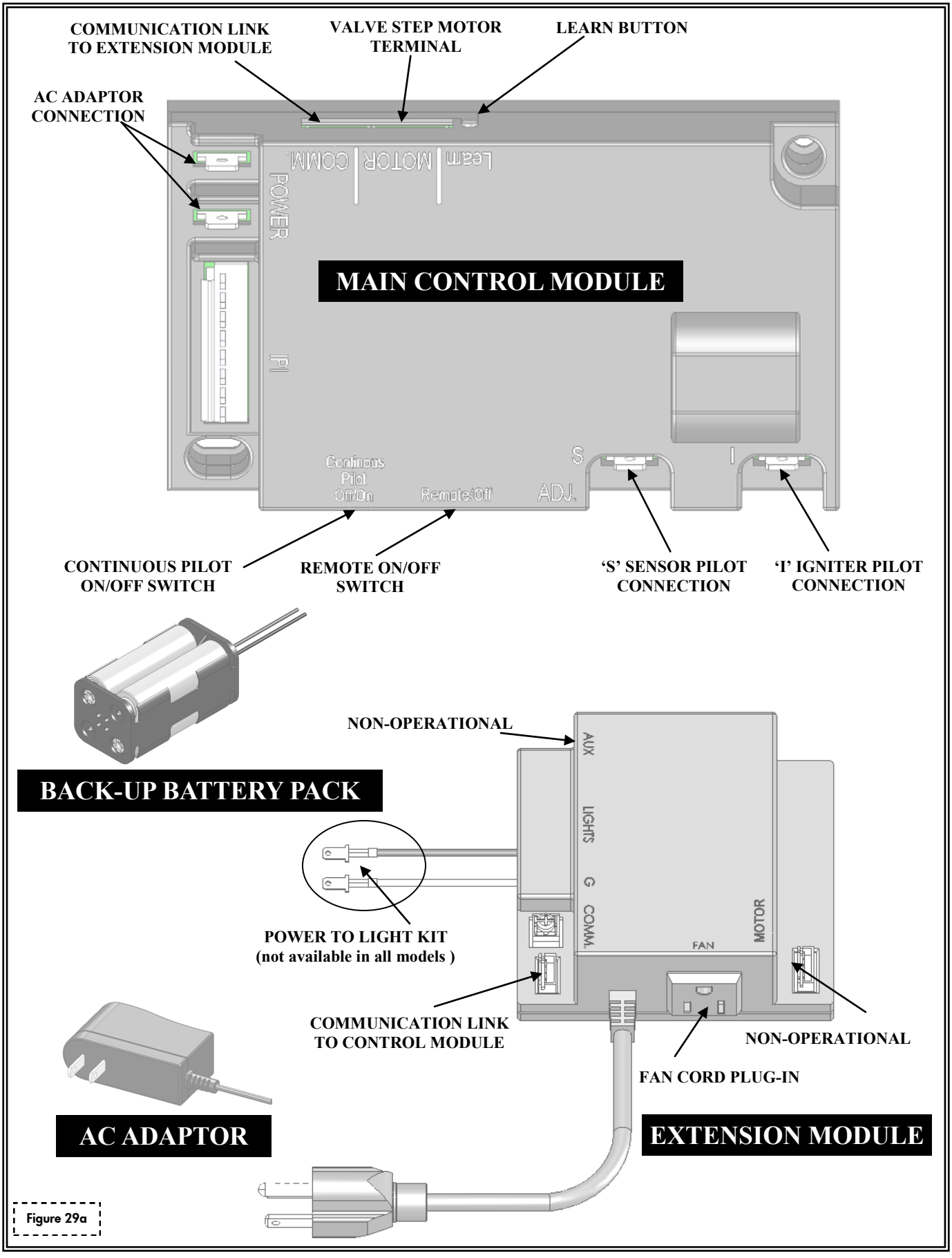
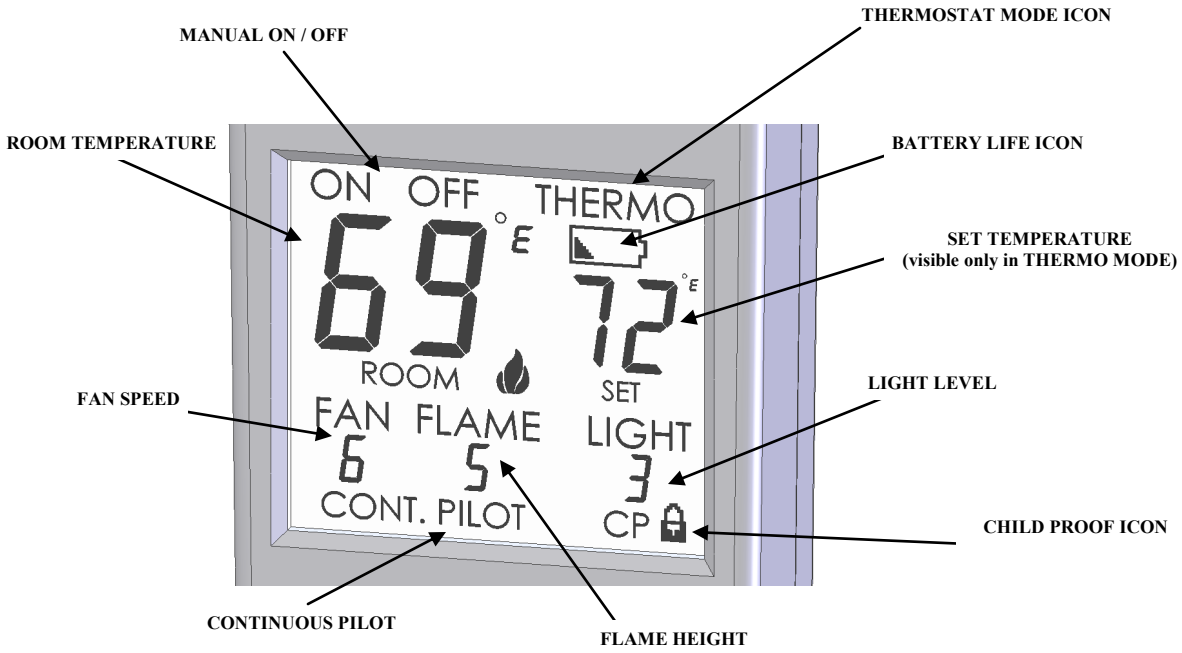
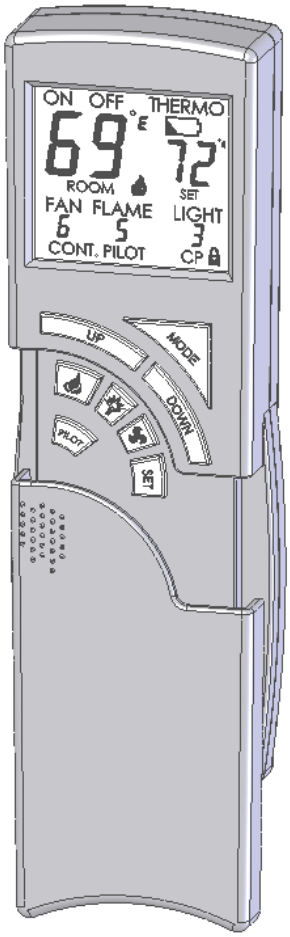


Figure 29a

REMOTE CONTROL COMPONENTS





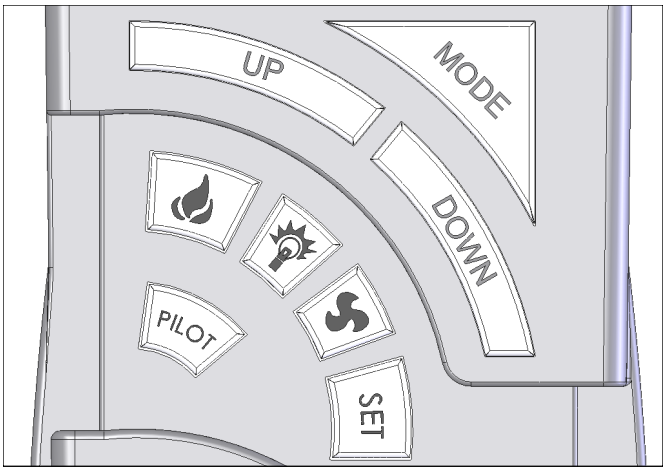


Figure 30a

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.**
- **Incorrect wiring will override IPI safety lockout and may cause an explosion.**
- **Disconnect 110V before servicing**

A double receptacle box cover and (3) wire nuts are supplied in fireplace components packet to be used when hardwiring to electrical box located under firebox on right side of fireplace. **Ensure receptacle box cover is installed with flange to top**.

ATTENTION: THIS SYSTEM GOES THROUGH A CALIBRATION MODE WHEN SWITCHING FROM ON TO THERMO TO OFF MODES, CREATING A HUMMING SOUND WHICH IS A NORMAL PART OF OPERATION.

CONTINUOUS PILOT (FOR VERY COLD CONDITIONS)

The IPI gas control system has the option of a continuous (standing) pilot feature. This allows you to change from a spark-to-pilot system to a standing pilot system during cold weather conditions. By having the pilot on continuously, the firebox will remain warm and a draft is established in the vent, allowing the main burner to turn on with less air-flow disruption.

When continuous pilot mode is activated and fireplace is turned ON, the pilot will spark and light. When fireplace is turned OFF, the pilot will remain lit when main burner has been turned OFF.

This pilot feature can be activated or de-activated by the hand held remote control transmitter. Instructions on following page.

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 between valve and front of fireplace. This is the coolest location under firebox, ensuring longer battery life.

NOTE: When operating fireplace in this capacity, the only function available is flame modulation.

MATCHING SECURITY CODES

Before matching security codes make sure 120V AC is connected and powered to fireplace, and hand held remote control is installed with (2) AA batteries.

It may be necessary to program main control module to LEARN the security code of the hand held remote control upon initial use, if batteries are replaced, or if a replacement remote control is purchased from your dealer.

1. When matching security codes, be sure slide button on main control module is in **REMOTE**; the code will not 'LEARN' if slide is in **OFF**.

2. Program main control module to LEARN a new security code by pushing in **LEARN** button on main control module using a pencil point for 2 seconds (you should hear a single 'beep' letting you know module is ready to learn a new code).

3. Press **MODE** button on hand held remote control (you should hear four 'beeps' in rapid succession in main control module, indicating remote control's code has been programmed into the main control module). When an existing main control module is introduced to a new hand held remote control, the new security code will overwrite the old one.

If it ever becomes necessary to clear the memory from the hand held remote control, simply push and hold the **LEARN** button for 10 seconds (you should hear three long beeps in succession). You may now follow steps outlined above to 'RE-LEARN' security codes.

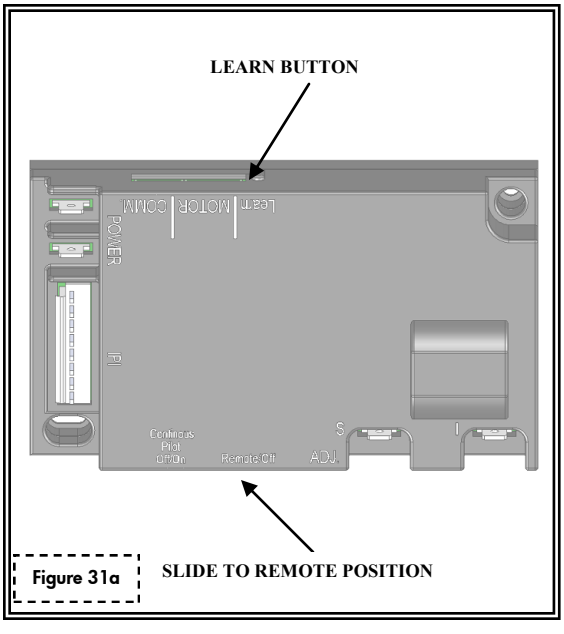


Figure 31a

REMOTE CONTROL OPERATION

INITIAL SET-UP:

Plug Extension Module and **AC Adaptor** into receptacles.

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

The **Hand Held Remote** operates on (2) 1.5V AAA batteries. We recommend always using ALKALINE batteries to extend battery life and improve operational performance.

Install (2) AAA remote receiver batteries into battery compartment, making sure batteries are installed in proper direction.

NOTE: This system is sent to you set up for Natural Gas and temperature units readable in Fahrenheit.

This system allows for gas type conversion and temperature unit conversion by following the setup procedure outlined below.

GAS TYPE CONVERSION:

Press and hold **Learn** Button on Main Control Module for 20 seconds. A beep will be heard letting you know the procedure has been completed.

If converting from NAT to LP gas: (1) one second long beep

If converting from LP to Nat gas: (3) three second long beep

Continue with gas type conversion by following instructions included with gas conversion kit.

CELSIUS/FAHRENHEIT CONVERSION:

Press **UP** and **DOWN** keys simultaneously to choose Celsius or Fahrenheit.

IMPORTANT SAFETY FEATURE:

This system has a maximum room temperature limit of 95° F (35° C) in both manual and thermostat modes. When room temperature is at or above this point the system will shut down and the hand held remote control will read **OFF**. If you turn the system **ON** when room temperature is still at or above this temperature, the system will again shutdown after 2 minutes when room temperature is recalculated.

CONTINUOUS PILOT FEATURE:

Activation of this optional feature is accomplished by pressing the **PILOT** button once. The continuous pilot icon will appear on the LCD screen. Pressing **PILOT** button again will de-activate this feature.

This feature can also be activated via **CONTINUOUS PILOT** switch on Main Control Module.

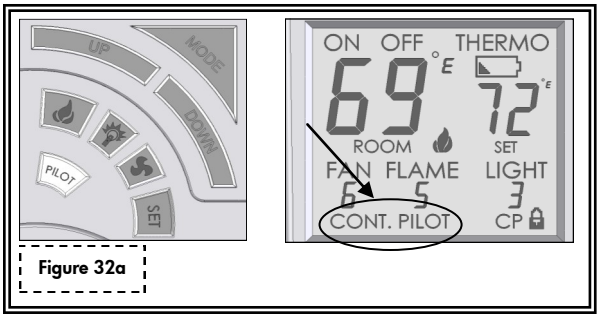


Figure 32a

CHILDPROOF FEATURE:

Activation of this optional feature is accomplished by pushing **SET & UP** buttons simultaneously for 5 seconds. The childproof icon will appear on the screen. When a transmitter button is pressed the icon will flash on screen, but no signal will be transmitted. Pressing and holding these same two buttons again for more than 5 seconds will de-activate this function.

This feature controls only manual functions of the hand held remote, automatic functions (thermostat mode) will not be effected.

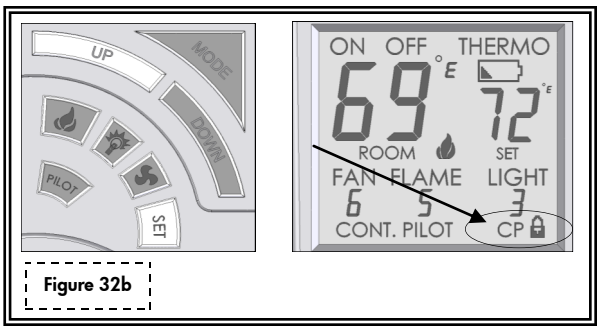


Figure 32b

REMOTE CONTROL INFORMATION cont.

MANUAL MODE:

This remote can be manually or thermostatically operated.
Press **MODE** button for manual ON. The flame icon will appear on the LCD screen. Press **MODE** button again to put the control into **THERMO** mode. Pressing **MODE** again will turn fireplace OFF.

NOTE: The MODE button operates in a series that will cycle from ON to THERMO to OFF.

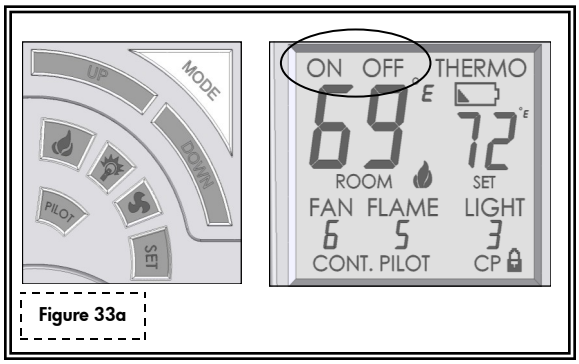


Figure 33a

FAN MODE:

This remote will operate the fan, allowing for (6) different speed levels. When the **FAN** button is pressed, FAN level setting will flash on the LCD screen. Press **UP** or **DOWN** buttons to select desired fan speed level. If no adjustment is made within 7 seconds, the control will exit function setting mode and LCD display will return to normal view.

NOTE: Delayed ON/OFF - The fan will not turn on until fireplace has been burning for 5 minutes and will not turn off for 12 minutes after fireplace has been turned off.

EXCEPTION: If fireplace is turned back on during 12 minute off-delay time frame, the fan will remain on.

This applies to MANUAL and THERMO modes.

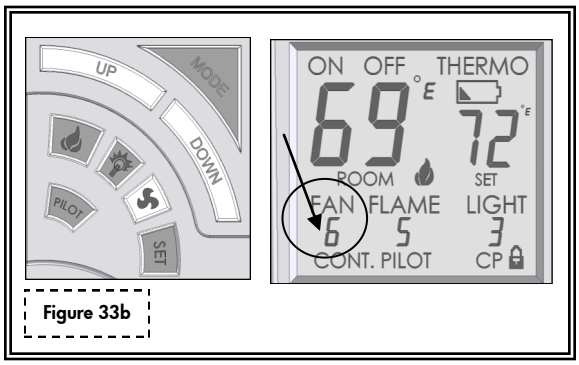


Figure 33b

LIGHTING MODE:

This remote will operate the lights, allowing for (6) different light levels. When **LIGHT** button is pressed, LIGHT level setting will flash on the LCD screen. Press **UP** or **DOWN** buttons to select desired light level. If no adjustment is made within 7 seconds, the control will exit function setting mode and LCD display will return to normal view.

NOTE: There is a 3 second delay before light level setting is achieved.

NOTE: Light operations are completely independent from flame and fan operations.

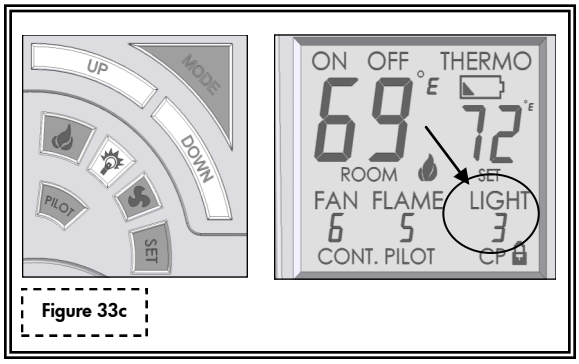


Figure 33c

FLAME MODE:

This remote will operate the flame, allowing for (6) different flame height levels. When **MAIN FLAME** button is pressed, FLAME level setting will flash on the LCD screen. Press **UP** or **DOWN** buttons to select desired flame level. If no adjustment is made within 7 seconds, the control will exit function setting mode and LCD display will return to normal view.

NOTE: The fireplace will initially light at the highest level. After 5 seconds the flame will adjust to last chosen level before fireplace was turned OFF.

This applies to MANUAL and THERMO modes.

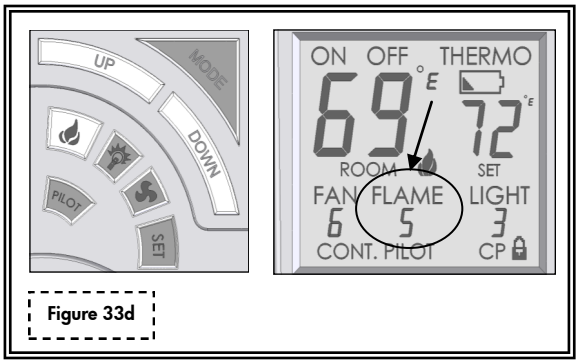


Figure 33d

REMOTE CONTROL INFORMATION cont.

THERMO (THERMOSTAT) MODE:

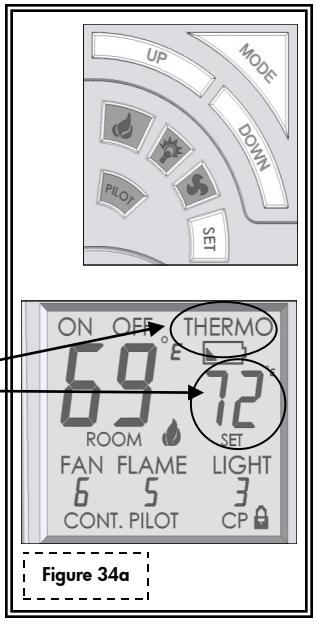


Figure 34a

This remote feature allows you to thermostatically control the fireplace when hand held remote is set to **THERMO** mode.

Set Temperature Range: 45˚F (7˚C) to 90˚F (32˚C).

Set remote to **THERMO** mode by pressing **MODE** button. The smaller **SET** window of numbers appears on the LCD screen. The first SET number will read 45˚F. Press **UP** button to desired set room temperature. Within 5 seconds fireplace will operate to that Set Temperature. The **FLAME, ON** and **THERMO** icons will appear on the LCD screen. By pressing **UP** or **DOWN** buttons a new set temperature may be attained.

SET Temperature will only appear when THERMOSTAT MODE is activated, but is implemented in all MODES with the exception of MANUAL MODE.

NOTE: The flame height can adjust up to (6) different height levels according to amount of heat required. This range however is dictated by the Flame Level setting (see previous page). When desired temperature is met, the fireplace will shut off until more heat is required.

To exit **THERMO** mode press the **MODE** button. This also shuts fireplace OFF.

IMPORTANT: When in THERMO mode the fireplace will not turn on until room temperature falls below SET TEMPERATURE.

SYSTEM OPERATION WITHOUT HAND HELD REMOTE:

This system is designed to operate with the hand held remote or a thermostat, but in the unlikely event that it is required to be operated without the hand held remote or a thermostat, follow this simple procedure.

Slide **REMOTE /OFF** switch on main control module to **OFF**. The fireplace can now be lit and shut off by use of the ON/OFF rocker switch.

NOTE: When operating fireplace in this capacity, the only function available is burner operation on HI.

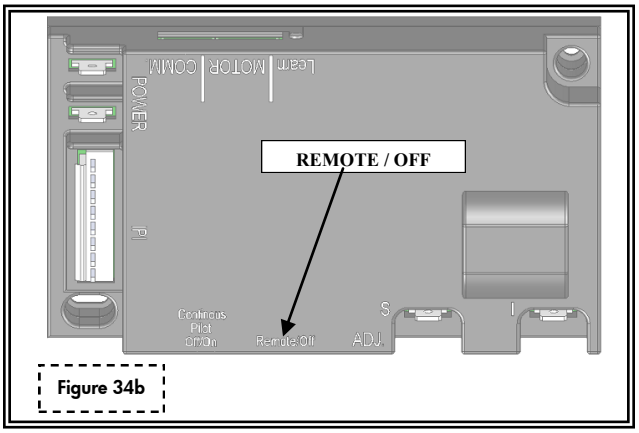


Figure 34b

LIGHTING AND SHUTDOWN

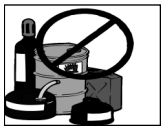
FOR YOUR SAFETY - READ BEFORE LIGHTING

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.

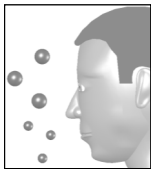
This appliance needs fresh air for safe operation and must be installed so there are provisions for adequate combustion and ventilation air.

1. This fireplace is equipped with an ignition device which automatically lights the pilot and main burner. The pilot and burner light automatically with the hand held remote only. **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. Press hand held remote **MODE** button to **OFF**.

3. 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.

4. Turn ON all electrical power to fireplace.

5. Press hand held remote **MODE** button to **ON**.

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.

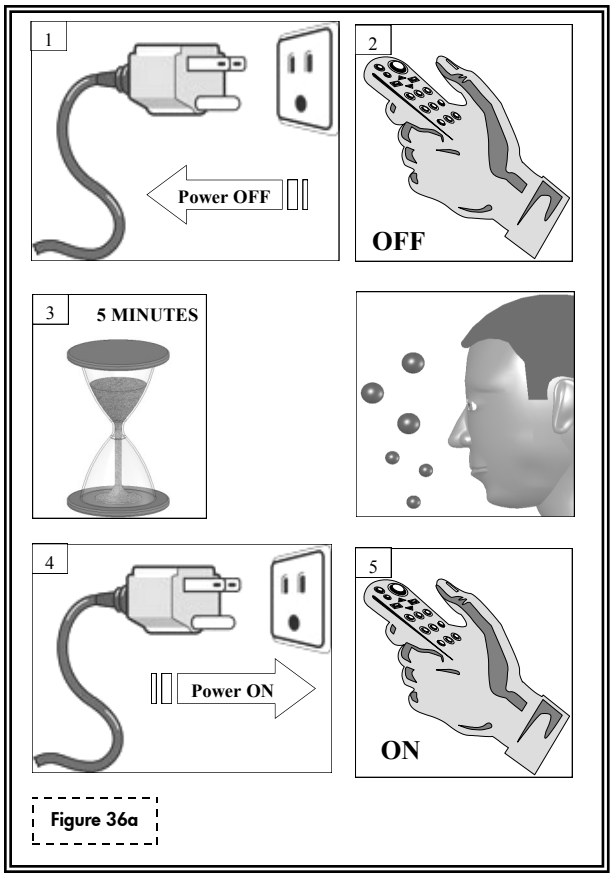


Figure 36a

TURNING OFF GAS TO FIREPLACE

1. Press hand held remote **MODE** button to **OFF**.

2. Turn OFF all electrical power to fireplace if service is required.

3. Turn manual shut-off valve to **OFF**.

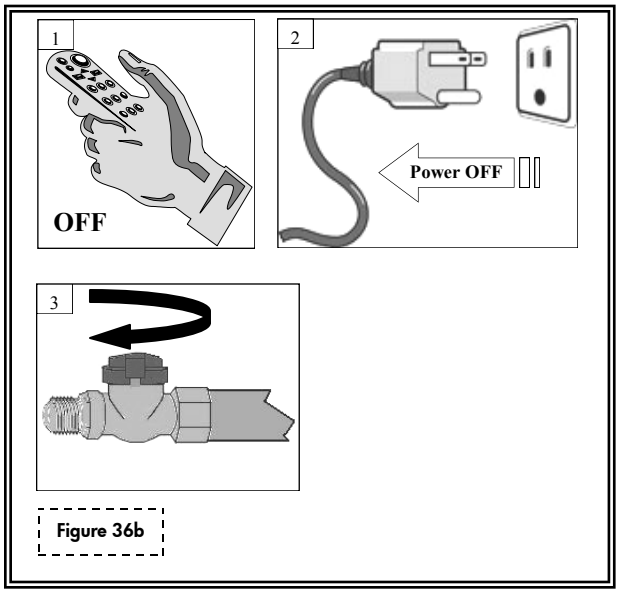


Figure 36b

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 (3.5kPa).

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 1/4" I.D. hose.
3. Light fireplace using hand held remote control. Note manometer reading.
4. Turn fireplace off using hand held remote control.
5. Disconnect hose and tighten screw (clockwise). Screw should be snug, do not over tighten.
9. Relight fireplace using hand held remote control. Reattach manometer to inlet pressure tap to verify it is completely sealed. Manometer should read no pressure.

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.

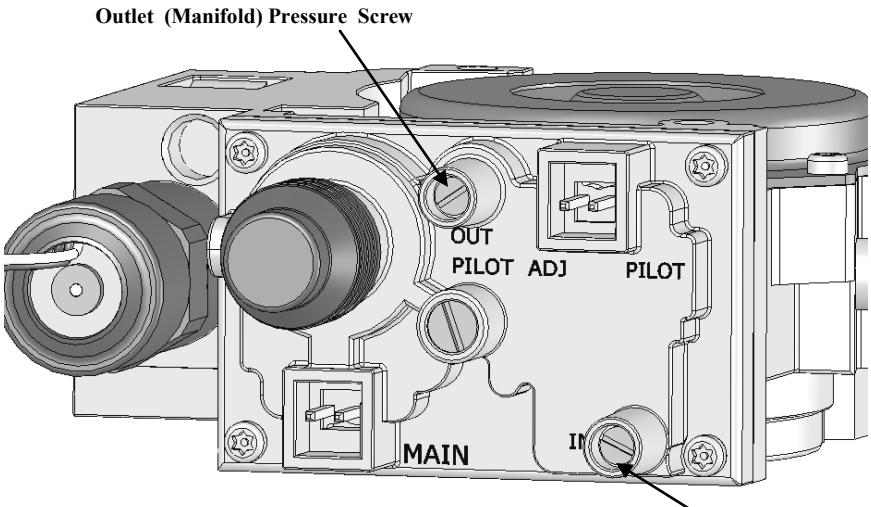


Figure 37a

ERROR CODES

IGNITION SAFETY: Protection for Ignition System

Error Code: One beep every one second.

Description of Fault: Warns users if pilot is not successfully ignited in 60 seconds.

How to Clear: Press MODE button to OFF then to ON to re-attempt ignition.

What to Check:

- Ensure gas supply is turned on.
- Ensure black cap leads marked PILOT from module are plugged into PILOT connection on valve body.
- Verify lead from igniter on pilot assembly is connected to 'I' terminal on main control module. (Clicking sound will also be heard).
- Verify lead from flame sensor on pilot assembly is connected to 'S' terminal on main control module. (Pilot will light but main burner will not. Pilot will extinguish after 60 seconds and error code will alarm).
- Verify black ground lead is connected to tab extending from valve bracket.

SENSOR SAFETY: Protection for Flame Sensor

Error Code: Four beeps every one second.

Description of Fault: Warns users pilot flame senor detects a pilot flame already present when ignition sequence is initiated. This fault will also occur if pilot flame senor on main control module is shorted to ground.

How to Clear: Press MODE button to OFF then to ON to re-attempt ignition.

What to Check:

- Check if pilot flame is actually present when valve is turned OFF (if yes, replace valve).
- Replace pilot assembly.
- Replace module.

THERMAL SAFETY: Overheat Protection

Error Code: Four beeps every two seconds.

Description of Fault: Warns users that module's internal temperatures have exceeded 170˚F (77˚C).

How to Clear: Module's internal temperatures must cool to below 160˚F (71˚C) and then press ON button.

What to Check:

- Are modules located in an unapproved location. Move to cooler location.

COMMUNICATION SAFETY: Protection for Ignition System

Error Code: One beep every four seconds.

Description of Fault: Warns users the hand held remote and main control module are not communicating properly. This safety feature is active in both manual and thermo modes. The remote control sends a communication safety signal every 15 minutes. If the main control module does not receive this signal, it begins a 2-hour countdown. If no communication safety signal is received at the end of this countdown, the system will enter communication safety shutdown which turns system OFF and emits the error code.

What to Check:

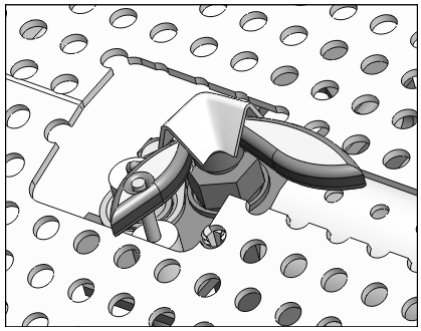
- Verify batteries in hand held remote control are new.
- Ensure remote control is located within 20ft. (6m) of main control module.
- Ensure remote control is not placed directly on top of or inside a metal enclosure as this can interfere with transmission.

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.



Correct pilot flame

Figure 39a

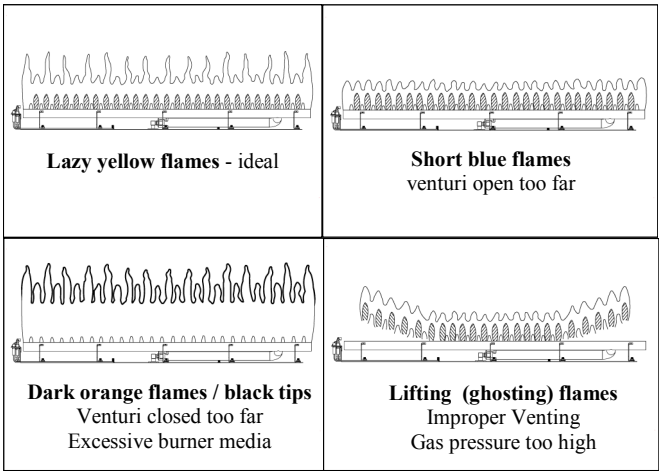


Figure 39b

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

FACTORY SET BURNER TUBE VENTURI SETTINGS (ADJUST AS NECESSARY FOR YOUR INSTALLATION)	
NATURAL GAS	**LP (PROPANE) GAS**
1/8" (3mm) OPEN	**5/8" (16mm)**

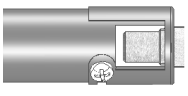
BURNER TUBE VENTURI ADJUSTMENT GUIDELINES		
VENTURI POSITION	**FLAME COLOR**	**VENTURI ADJUSTMENT**
Closed too far	**Dark orange flame with black tips**	**Open venturi setting slightly**
Open too far	**Blue flames**	**Close venturi setting slightly**

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.

TO ADJUST VENTURI:

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

1. Remove glass frame assembly, glass media, burner cover and burner from fireplace.
2. Loosen burner venturi screw, make adjustment, retighten screw.
3. Re-install burner, making sure venturi is positioned over burner orifice.
4. Reinstall burner cover, glass media, and glass frame assembly.
5. Light fireplace. Wait at least 15 minutes before determining if any further adjustments are necessary.



BURNER VENTURI

Figure 39c

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), a restrictor may be necessary.
If flames indicate insufficient draft (lifting or ghosting flames), a previously installed restrictor may need to be modified or removed.

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 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 is installed, access can be reached through the fireplace baffle.

1. Remove (2) screws securing termination access panel. Release panel tabs from slots in baffle.
2. Depending on your specific needs, determined by 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. Reinstall termination access panel, inserting tabs in panel into slots in baffle. Secure with (2) screws previously removed.
6. Reinstall log set and optional refractory kit (if installed).
7. Attach glass frame assembly and light fireplace. Wait 15 minutes before determining if any further modifications are necessary.

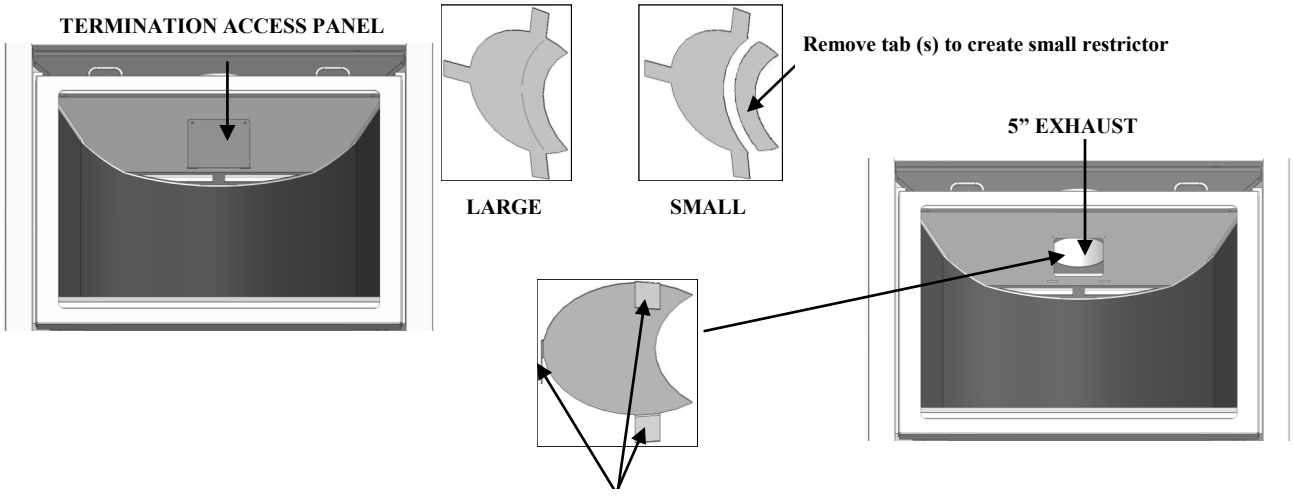


Figure 40a

MAINTENANCE

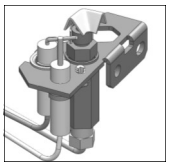
The appliance is required to be inspected at least once a year by a professional service person.

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 that the burner be cleaned once a year.

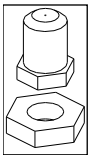
NOTE: INSTALLATION AND REPAIR SHOULD BE DONE ONLY BY QUALIFIED SERVICE PERSON. THE APPLIANCE SHOULD BE INSPECTED BEFORE USE AND ANNUALLY BY A QUALIFIED SERVICE PERSON. MORE FREQUENT CLEANING MAY BE REQUIRED DUE TO EXCESSIVE LINT FROM CARPETING, BEDDING MATERIALS, ETC. IT IS IMPERATIVE THAT CONTROL COMPARTMENTS, 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 27 in this installation manual for complete instruction on removing & reinstalling the burner assembly.**
- **Visually check for blocked port holes, especially near the pilot. Blocked port holes may cause delayed ignition.**
- **Reinstall burner assembly following instructions on page 27 of this installation manual.**
- **Visually check pilot light and burner when in operation. The flames should be steady, not lifting or floating.**



DEL-36 Pilot



Burner Orifice

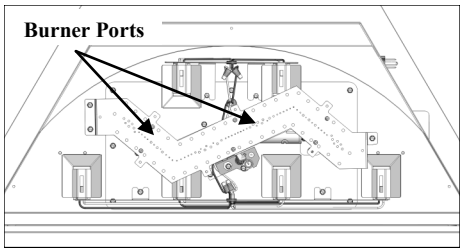


Figure 41a

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 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 #DSL-057T, shall only be replaced as a complete unit, as supplied by Hussong Mfg. Co., Inc.**
- **Replacement of glass & frame assembly, part #DSL-057T, 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.

TROUBLESHOOTING

MAIN CONTROL MODULE WILL NOT LEARN TRANSMITTER

- Ensure REMOTE/OFF switch on side of main control module is set to REMOTE.
- Make sure batteries in both the hand held remote and backup battery pack are installed in the proper direction and are not drained.
- Verify hand held remote indicates a signal is being sent. The LCD display should indicate ON or OFF depending on which button is being pressed. The LED indicator should illuminate on wall transmitters and on/off transmitters. Buttons should be pressed and held for 1 to 2 seconds to ensure a complete signal is sent.
- Ensure 4-pin lead-set is securely connected from battery pack to main control module's AUX connection. If the A/C adapter is used, check that leads from adapter are securely connected to POWER terminals on main control module.
- Press and hold LEARN button on main control module for approximately 10 seconds to clear memory (you should hear a series of beeps from the receiver), immediately press either the ON or OFF button on hand held remote (you should hear a series of beeps indicating the transmitter code has been learned).

PILOT WILL NOT LIGHT / STAY LIT

- Verify gas supply is turned on.
- Verify main control module is receiving signal from hand held remote by listening for a beep from receiver when ON is pressed on hand held remote. If you do not hear a beep, ensure main control module has learned the hand held remote. (See above).
- Ensure black lead from pilot assembly igniter is securely connected to terminal labeled 'I' and red lead from flame rectification sensor is securely connected terminal labeled 'S' on main control module.
- Make sure black cap leads marked PILOT from main control module are securely connected to terminals labeled PILOT on valve body.
- Ensure black GROUND wire is securely connected to tab located next to ON/OFF toggle switch. **A proper ground is essential to spark igniter operation.**
- Make sure pilot flame is in contact with flame rectification sensor on pilot assembly. This valve is equipped with a pilot flame adjustment screw. If pilot flame is too small it will not contact flame rectification sensor and will not complete the safety circuit.
- Check continuity of pilot on valve. Remove wire connector. If there is no continuity on pin terminals, replace valve.

PILOT FLAME ALWAYS ON / WILL NOT EXTINGUISH

- Ensure continuous pilot icon is not present in LCD screen. If icon is present, press PILOT button. This will de-activate the continuous pilot feature and the icon will disappear from LCD screen.

PILOT BURNING BUT IGNITER CONTINUES TO SPARK

- Check that flame sensor is fully impinged by pilot flame. If needed, adjust pilot.
- Check end-to-end continuity of sensor. If sensor has continuity, replace module.

TROUBLESHOOTING

MAIN FLAME WILL NOT LIGHT

- Verify gas supply is turned on.
- Ensure pilot flame will ignite. If not, see pilot flame troubleshooting on previous page.
- Make sure white cap leads marked MAIN from module are securely connected to terminals marked MAIN on valve body.
- Make certain pilot flame is in contact with flame rectification sensor on pilot assembly. This valve is equipped with a pilot flame adjustment screw. If pilot flame is too small it will not contact flame rectification sensor and will not complete the safety circuit.
- Ensure pilot flame is properly located to ignite main flame.
- Does hand held remote show CP in the display? If yes, childproof is on. De-activate by pushing PROG/TIME & UP keys at same time for more than 5 seconds.
- Check continuity of main burner coil on gas valve. Remove wire connector. If there is no continuity on pin terminals, replace valve.

FLAME HEIGHT ADJUSTMENT NOT WORKING / WORKS BACKWARDS

- Ensure '+' (white dotted wire) and '—' (black wire) leads from battery pack or module are securely connected to '+' (white dotted wire) and '—' (black wire) leads from main control module ('+' to '+', '—' to '—').
- Check functionality with all transmitters to determine if there is an issue with the main control system or an individual transmitter. If the issue is with an individual transmitter, make sure batteries in hand held remote and backup battery pack are installed properly and are not drained.

ROOM TEMP. DISPLAYED ON HANDHELD REMOTE NOT CORRECT

- Ensure transmitter was not recently stored in a different location (air-conditioned, heated) from that in which the hand held remote was tested. It may take up to 3 hours for the temperature inside a packaged transmitter, and several minutes for an unpackaged transmitter to equalize with room temperature.

FIREPLACE WILL NOT RESPOND IN "THERMO" MODE

- Ensure hand held remote is within 20ft. (6.096m) operational range.
- Make sure an ON or OFF command was not last sent from another transmitter. These commands will override thermal commands from the handheld remote control. To return system to THERMO mode, press either ON or OFF on hand held remote, then press MODE button to put system in THERMO mode. Press and hold SET button to change set temperature.
- Verify set temperature on hand held remote is at least 2˚F (1˚C) above or below room temperature. The system will not react to temperatures within 2˚F (1˚C) of set temperature.

CONVERSION KIT INSTRUCTIONS

#OCK-A42N-I-DEL-PSE NAT GAS CONVERSION KIT / #OCK-A54L-I-DEL-PSE 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 manufacturer's 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) Gas Type Label (1) Burner Orifice: NAT #42 / LP #54 (1) Pilot Orifice: NAT #.018 / LP #.012 (1) Low Limit Screw: NAT #53 / LP #60

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

PREPARE THE FIREPLACE:

Remove screen front, glass frame assembly, glass media and burner cover 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: #42 orifice
L.P. GAS: #54 orifice

CONVERT PILOT ASSEMBLY:

1. Remove (2) screws securing pilot assembly to pilot bracket. Place 7/16" wrench on upper fitting and 1/2" wrench onto lower fitting, turn pilot hood nut counter-clockwise to remove pilot hood.
2. Remove pilot orifice located inside lower fitting and replace with one included with kit.
3. Re-attach pilot hood. Tighten with wrenches, making sure pilot hood is positioned as shown in Figure 44d. Final alignment of sensor and hood outlet is critical for proper ignition.
4. Attach pilot assembly to pilot bracket with screws previously removed.

GAS TYPE CONVERSION:

Press and hold Learn Button on Main Control Module for 20 seconds (access hole on right hand side of outer wrap). A beep will be heard letting you know the procedure has been completed.

If converting from NAT to LP gas: one (1) second long beep

If converting from LP to Nat gas: three (3) second long beep

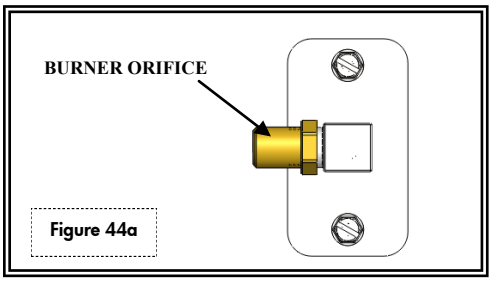


Figure 44a

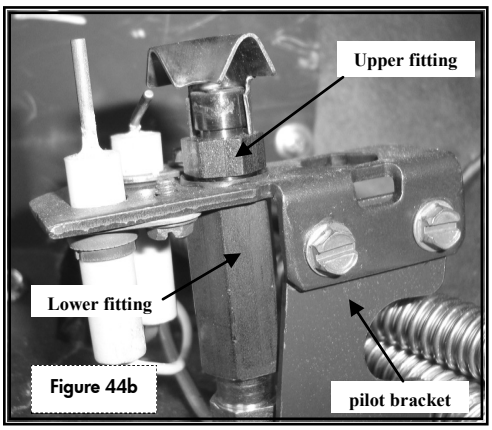


Figure 44b

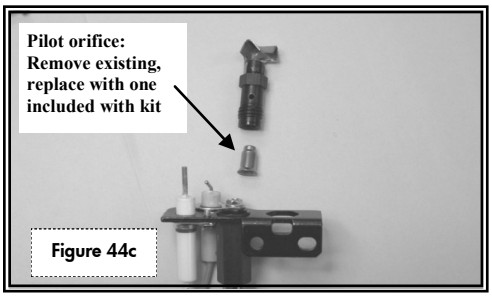


Figure 44c

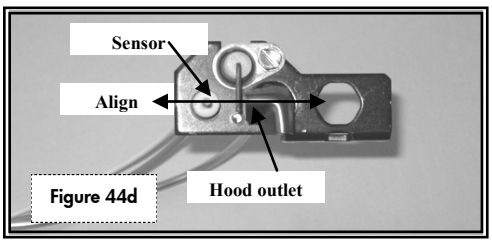


Figure 44d

CONVERSION KIT INSTRUCTIONS

CONVERT THE GAS CONTROL VALVE:

1. Remove cap covering the pressure regulator.
2. Press down on pressure regulator tube and rotate 90˚. The shaft should pop out and point to chosen gas. Re-attach cap.
3. Remove low limit screw (above valve motor; see page 28). Replace with one included in kit.

   NAT. GAS: #53
   L.P. GAS: #60

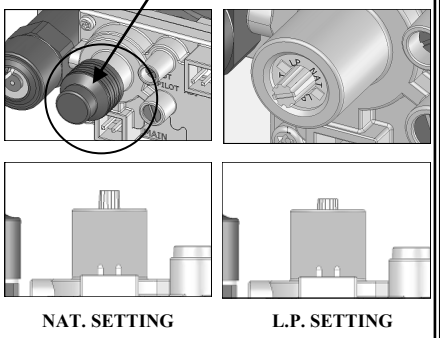


Figure 45a

COMPLETE THE CONVERSION:

1. Adjust burner tube venturi to correct setting by loosening screws adjusting cap and retightening screw.
   CORRECT SETTINGS: NAT: 1/8" (3mm) open / L.P: 5/8" (16mm) open
2. Re-install burner tube into fireplace, making sure orifice is properly seated inside burner venturi, align mounting holes in burner tube with corresponding holes in control board assembly. Secure with (3) screws previously removed.
3. Re-install burner cover, aligning mounting holes with corresponding holes in burner. Secure with (8) screws previously removed.
4. Re-install glass media, being careful not to block pilot.
5. Turn on gas and electrical supplies. Check for leaks at all connections with soapy water, whether field or factory made.
6. 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.
7. Turn fireplace off.
8. Affix gas type sticker to label.
9. Re-install glass frame and contemporary frame.
10. Verify proper ignition and operation of fireplace.
11. Complete and affix 'Gas Conversion' label close to gas valve.

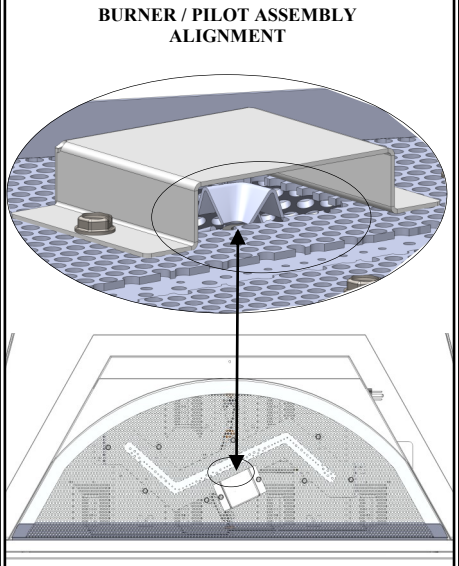


Figure 45b

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

Complete and affix as close as possible to rating plate.

Figure 45c **GAS CONVERSION LABEL (included with conversion kit)**

REPLACEMENT PARTS LIST

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

DEL-36 CONTROL BOARD AND PARTS			
DEL-600-IPI	DEL IPI Control Board - Nat Gas	700-751	Battery Back-up with (4) AA Batteries
DEL-601-IPI	DEL IPI Control Board - LP Gas	700-203	Manual Shut-off Valve
700-400-05	Main Control Module	700-213	18" Flexible Gas Line-Black
700-404-DEL	IPI Valve - Natural	700-226	Flexible Gas Line-Valve to Burner Connection
700-404-DEL-1	IPI Valve - LP	700-242	Natural Gas Orifice #42
700-201	Pilot Assembly - Natural Gas	700-254	LP Gas Orifice #54
700-201-1	Pilot Assembly - LP Gas	OCK-A42N-I-DSL-PSE	Natural Gas Conversion Kit
700-800	8-PIN Primary Wire Harness: Primary Wire Harness	OCK-A54L-I-DSL-PSE	LP Gas Conversion Kit
700-500	5-PIN Wire Harness: Main Module to Valve Step Motor	DEL-035	Burner Tube
700-120	Extension Module	DEL-350	Burner Cover
700-401	4-PIN Wire Harness: Control Module to Extension Module	700-353	NAT Low Limit Screw #53
700-750	7.5 Volt Adaptor	700-360	LP Low Limit Screw #60
700-208	IPI Remote Control	700-990	Pilot Igniter (with wire)
700-164	#.018 IPI NAT. Gas Pilot Orifice	700-991	Pilot Flame Sensor (with wire)
700-165	#.012 IPI LP Gas Pilot Orifice		

GLASS & GLASS GASKET	
DSL-005	Replacement Valance
900-006	1-1/8" Glass gasket w/ adhesive
DSL-057T	Valance with 23-3/4" x 30-1/16" glass

LIGHT KIT	
DEL-BLK	Light Kit (bottom)

**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, OR 97230

Model #DEL-36 Delano

www.kozyheat.com

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

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

(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 #** _____

_____