

## INSTALLATION MANUAL

# CHASKA-25

**Model: #CSK-25**

**DIRECT VENT FIREPLACE INSERT**



**IMPORTANT:** This installation manual is to be used in conjunction with SUPPLEMENTAL INSTALLATION AND HOMEOWNER INFORMATION MANUAL. Read both manuals before installing and operating appliance.

**INSTALLER:** Leave this manual with the appliance.  
**CONSUMER:** Retain this manual for future reference.

**English and French Installation Manuals  
Available Through Your Local Dealer or  
Visit Our Website at [www.kozyheat.com](http://www.kozyheat.com)**

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

— Installation and service must be performed by a qualified installer, service agency or the gas supplier.



## WARNING



**HOT GLASS WILL CAUSE BURNS.  
DO NOT TOUCH GLASS UNTIL COOLED.  
NEVER ALLOW CHILDREN TO TOUCH GLASS.**



SEPT. 2012  
CSK-25-REV-01

# 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 by OMNI-Test Laboratories, Portland, Oregon and complies with:

ANSI Z21.88-2009/CSA 2.33-2009, "Standard for Vented Gas Fireplace Heaters."

CAN 2.14-M91 (R2009), "Gas-Fired for Use at High Altitudes."

CAN/CSA P.4.1-09, "Testing Method for Measuring Annual Efficiency".

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

- Installation and repair should be done only by a qualified service person. The appliance should be inspected by a qualified service person before use. Annual inspection by a qualified service person is required to maintain warranty. More frequent cleaning may be required due to excessive lint from carpeting, bedding materials, etc. It is imperative that control compartments, burners and circulation air passageways of the appliance be kept clean.
- This fireplace insert is to be installed into a solid fuel masonry or factory built non-combustible fireplace that has been installed in accordance with the National, Provincial, State and local building codes.
- Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns or clothing ignition.
- Young children should be carefully supervised when they are in the same room as the appliance. Toddlers, young children and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at risk individuals in the house. To restrict access to a fireplace or stove, install an adjustable safety gate to keep toddlers, young children and other at risk individuals out of the room and away from hot surfaces.
- Clothing or other flammable material should not be placed on or near the appliance.
- 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.
- **WARNING: DO NOT OPERATE APPLIANCE WITH THE GLASS/FRAME ASSEMBLY REMOVED, CRACKED OR BROKEN. REPLACEMENT OF THE GLASS SHOULD ONLY BE PERFORMED BY A LICENSED OR QUALIFIED SERVICE PERSON.**
- The glass assembly, Part #CXS-057T, shall only be replaced as a complete unit, as supplied by Hussong Mfg. Co., Inc. 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.

# 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;

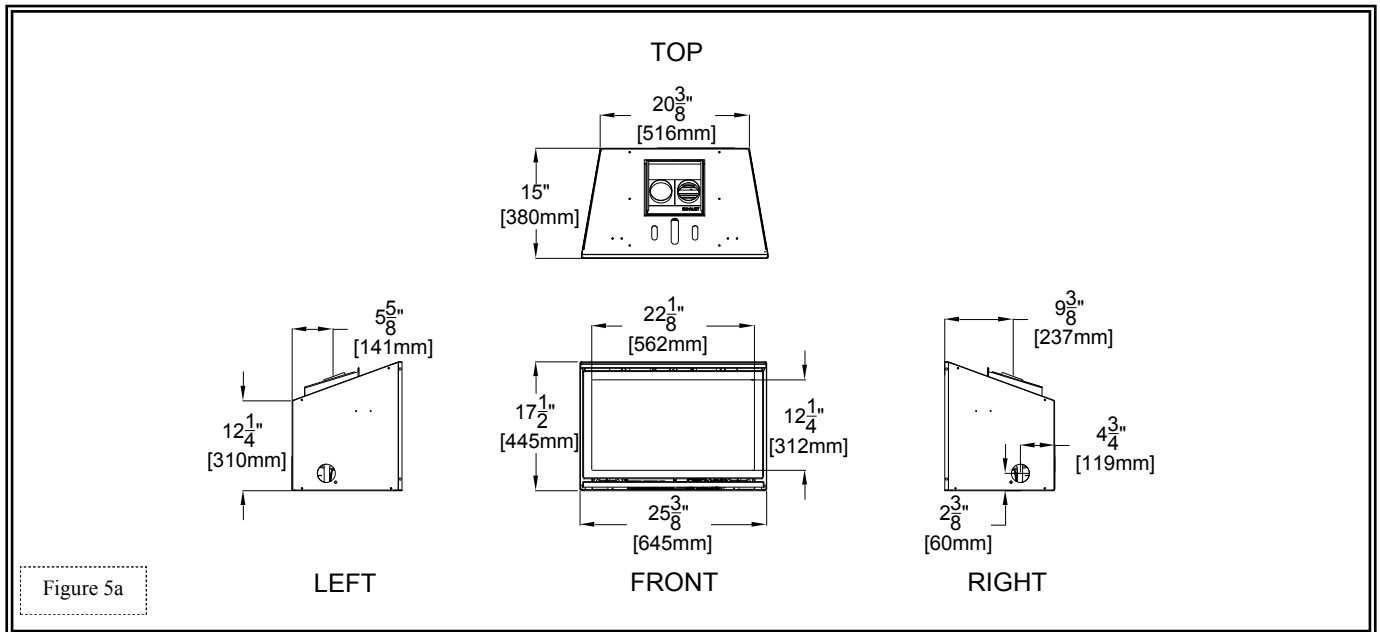
The “special venting systems” shall be Product Approved by the Board, and the instructions for that system shall include a parts list and detailed installation instructions.

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

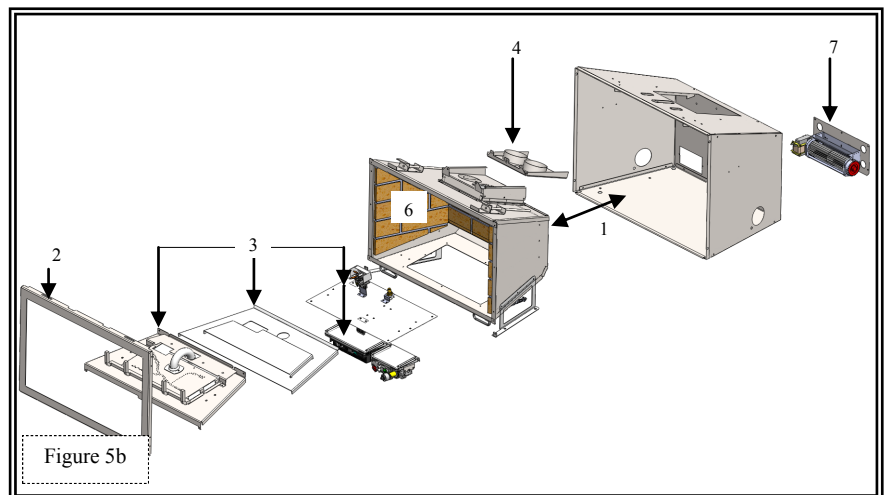
	DESCRIPTION	Height	Width	Back Width	Depth	Back Height	Back to Gas Line Access	Front to Vent Center	Back to Vent Center
FIREPLACE DIMENSIONS	INCHES	17-1/2	25-3/8	20-3/8	15	12-1/4	4-3/4	9-3/8	5-5/8
	MILLIMETERS	445	645	516	380	310	119	237	141



### WARNING

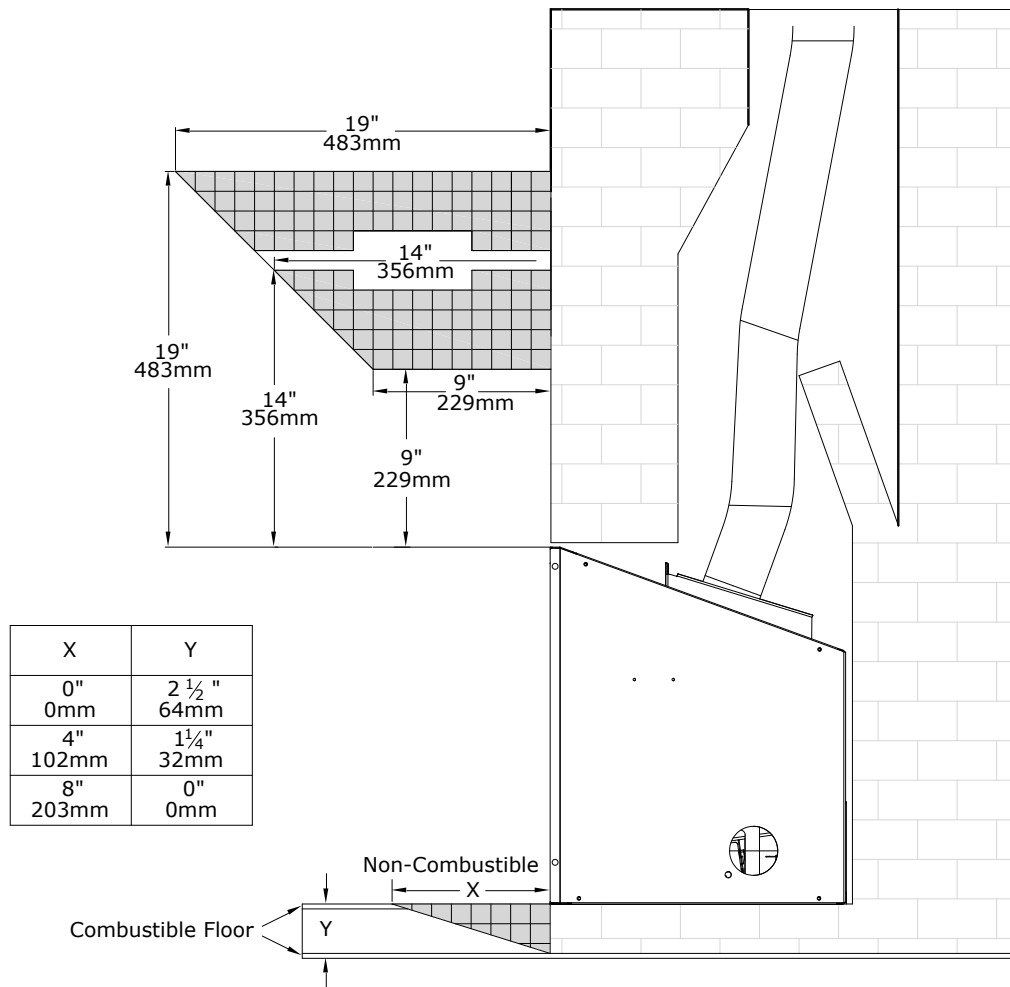
Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

1. Fireplace insert
2. Spring-loaded latch glass assembly
3. Control board with burner cover
4. Co-linear air duct
5. Log set (see page 14)
6. Refractory panels
7. Fan Kit



# SPECIFICATIONS

## MINIMUM CLEARANCES TO COMBUSTIBLES



### WARNING

Chart above shows minimum clearances from top surface of combustible flooring (carpeting, tile, etc.). These clearances must be maintained.

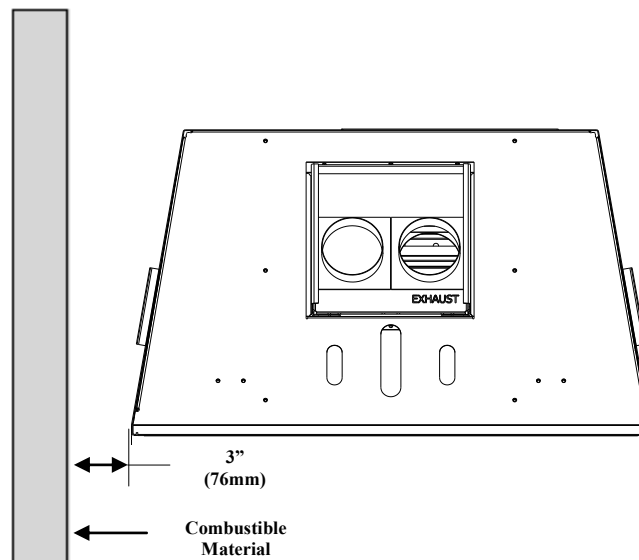


Figure 6a

# SPECIFICATIONS

## ADDITIONAL COMPONENTS REQUIRED

**Vent System;** Part #816-CL: For use with minimum 6" x 8" I.D. masonry or 7" I.D. Class A metal chimneys - Includes 12 ft. (3.66 m) compressed, expandable co-linear 3" x 3" flexible chimney, and termination cap.

**Other approved venting:** ICC, Selkirk, AmeriVent /American Metals, Simpson Dura-Vent

**Shrouds - 3 pc & 4 pc.:** Standard shrouds are available for this insert and will fit most applications. Custom shrouds may be ordered on a non-returnable basis. When ordering a custom shroud, please specify the existing fireplace front opening height and width. An upper hood and lower grill are included with fireplace.

**or**

**Blank Shrouds - 3 & 4 pc.:** Blank shrouds are available for on-site custom fit applications and are sized to the opening after the insert has been installed. The interior perimeter is properly sized to fit onto the insert. The outer perimeter must be cut, formed and finished (painted). An upper hood and lower grill are included with fireplace.

**or**

**Full Door Shrouds:** Full door decorative shrouds are available for this insert and are used in place of a standard or blank shroud. An upper hood and lower grill are included with fireplace.

## PLACEMENT CLEARANCE REQUIREMENTS

- This fireplace must be installed on a level surface capable of supporting the fireplace and venting.
- This fireplace insert is to be installed into a solid fuel masonry or factory built non-combustible fireplace that has been installed in accordance with the National, Provincial, State and local building codes.
- 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.

## EXISTING FIREPLACE SPECIFICATIONS

**THIS INSERT IS APPROVED FOR INSTALLATION IN MASONRY AND FACTORY-BUILT SOLID FUEL BURNING FIREPLACES.**

### EXISTING FIREPLACE REQUIREMENTS

The existing fireplace & chimney must be clean and in good working order and constructed of non-combustible materials.

A gas line must be able to be installed to the insert.

Provisions made to provide electrical power for operation.

Any chimney clean-outs must fit properly.

Existing Chimney must be comprised of one of the following: Factory built solid fuel chimney: 7" minimum inside diameter.

Masonry chimney: 6" x 8" minimum inside diameter.

Existing Chimney Height: Minimum: 10ft. (3.05m)  
Maximum: 35ft. (10.67m)

### DETERMINE LENGTH OF EXISTING CHIMNEY

1. Remove and discard existing chimney cap.

#### NOTE

It is helpful to have two people complete next step to determine chimney height.

2. Position one person at fireplace and another person at top of chimney.  
Measure from fireplace base to top of chimney.  
Subtract 17-1/2" (445mm) (height of insert).  
This is the total length of co-linear flexible aluminum you will require.

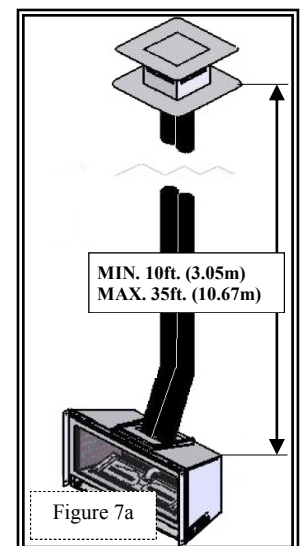
**MEASUREMENT FROM FIREPLACE BASE TO TOP OF CHIMNEY:** \_\_\_\_\_

**LESS 17-1/2" (445mm) (HEIGHT OF INSERT):** \_\_\_\_\_

**TOTAL CHIMNEY LENGTH REQUIRED:** \_\_\_\_\_

#### CAUTION

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



# PREPARE EXISTING FIREPLACE

## EXISTING FIREPLACE MINIMUM OPENING REQUIREMENTS

### Minimum Requirements

- (A) Height:.....17-5/8" (454mm)  
 (B) Front Width:..... 25- 7/8" (657mm)  
 (C) Depth:.....15-1/4" (387mm)  
 (D) Back Width:.....20-5/8" (530mm)

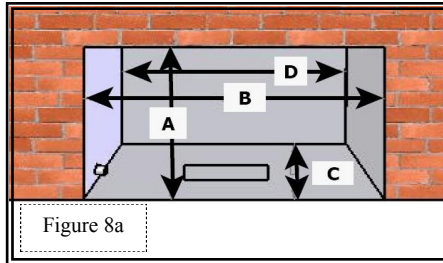


Figure 8a

## PREPARE EXISTING FIREPLACE

**ATTENTION** Any removed parts must be capable of reinstallation if this insert is ever removed (removal of rivets or screws is acceptable).

Any removed parts must be capable of reinstallation if this insert is ever removed (removal of rivets or screws is acceptable). The refractory, glass doors, screen rails, screen mesh and log grates may be removed from existing fireplace before installing this gas fireplace insert. Any smoke shelves, shields and baffles may be removed if attached by mechanical fasteners. If necessary, remove firebrick to obtain at least minimum opening requirements.

The fireplace flue damper can be fully blocked open or removed for installation of this gas fireplace insert. Remove existing chimney cap. Clean chimney and inside of fireplace to prevent creosote smell from entering the home.

Cutting of any sheet metal parts is prohibited, except the metal floor. If metal floor is removed, the insert must be placed directly on metal base of metal fireplace. Mechanically attach 'THIS UNIT HAS BEEN MODIFIED' label at bottom of existing firebox so it will be visible if this gas fireplace insert is removed. Run any necessary electrical wiring to insert.

**IMPORTANT** If the factory-built fireplace has no gas access hole(s) provided, an access hole of 1-1/2" (37.5 mm) or less may be drilled through the lower sides or bottom of the firebox in a proper workmanship like manner. The access hole must be plugged with non-combustible insulation after the gas supply line has been installed.

**CAUTION** Trim panels or surrounds must not seal ventilation openings in existing fireplace that this appliance is installed in.

# ELECTRICAL WIRING

**ATTENTION** Electrical wiring must be installed by a licensed electrician.

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

**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. Do not allow excess cord to touch fireplace.

# GLASS FRAME ASSEMBLY

## WARNING

DO NOT OPERATE THIS FIREPLACE WITH GLASS REMOVED, CRACKED OR BROKEN. REPLACEMENT OF GLASS FRAME ASSEMBLY, #CXS-057T SHOULD BE DONE BY A LICENSED OR QUALIFIED SERVICE PERSON.

DO NOT REMOVE GLASS ASSEMBLY WHEN HOT!

## REMOVE GLASS FRAME ASSEMBLY

- Locate spring-loaded latches securing glass frame assembly at bottom of firebox.
- Pull bottom latches out and down to release glass frame assembly bottom.
- Lift glass frame assembly up off tabs located at top of firebox.

## INSTALL GLASS FRAME ASSEMBLY

- Align slots at top of glass frame assembly over tabs at top of firebox while lowering bottom of glass frame assembly into position.
- Pull bottom latches out and up to secure glass frame assembly bottom.

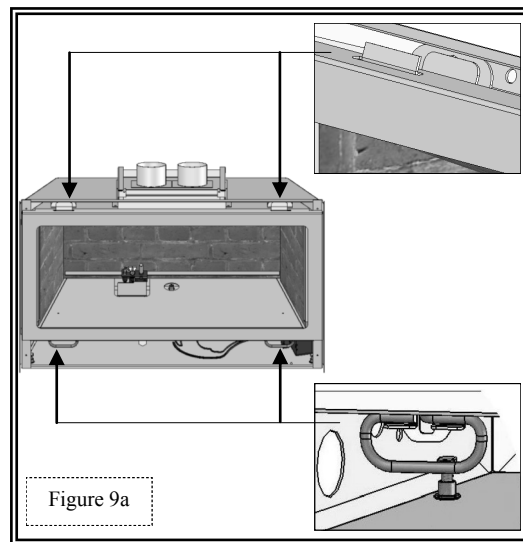


Figure 9a

# INSTALLATION

## ATTENTION

All steps as outlined in 'PREPARE EXISTING FIREPLACE' must be completed before continuing with this installation.

## APPROVED VENTING

**Kozy Heat #816-CL Co-Linear Vent System.** Follow instructions on following pages.

**ICC**

**Selkirk**

**AmeriVent /American Metals**

**Simpson Dura-Vent**

Follow instructions included from vent pipe manufacturer as well as venting requirements as outlined in this installation manual.

## COMBUSTION AIR VENTING OPTIONS

**OPTION 1: FULL CONNECTION:** Combustion air intake pipe is run entire chimney length and connected to termination cap.

**OPTION 2: STUB VENTING:** Combustion air intake pipe is extended a minimum of 4 ft. (1.22 m) past damper opening into existing chimney. It is not connected to termination cap.

## AIR DUCT REMOVAL

Remove air duct at top of insert, sliding backwards out of channel.  
Refer to instructions on following pages for vent system attachment to air duct.

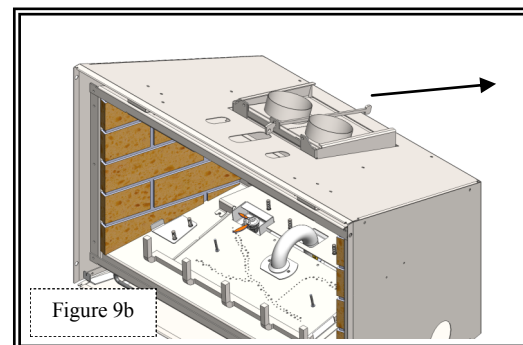


Figure 9b

# KOZY HEAT #816-CL CO-LINEAR VENT SYSTEM

## IMPORTANT

**IDENTIFICATION:** Exhaust Pipe: red marking.

Proper operation of this insert requires exhaust and combustion air pipes be connected to correct collars on termination kit and insert air duct.

- A. Carefully extend exhaust and combustion air intake pipes to equal total chimney length required.

## NOTE

If using stub method for combustion air pipe, extending it is not necessary. Determine length needed from air duct on insert (4ft. (1.22m) minimum) to above damper opening in existing chimney. Remove excess combustion air pipe from end without a collar. Continue with Step B. #2 below.

**Full Connection Method:** Slide intake pipe (end without collar) over termination cap collar. Secure with 3 self-tapping screws (provided).

- B. Place bead of sealant around inner edge at end of exhaust pipe (without collar / red marking) and slide onto corresponding collar on termination cap (collar with label). Secure with 3 self-tapping screws (provided). Apply additional sealant around joint to ensure a proper seal.

## IMPORTANT

EXHAUST COLLAR ON FIREPLACE AIR DUCT IS ON RIGHT SIDE. INSTALL TERMINATION CAP WITH EXHAUST COLLAR ON RIGHT SIDE.

EXHAUST COLLAR  
(Extends through middle divider plate)

TERMINATION CAP

INTAKE COLLAR  
(Extends through bottom plate)

SHEET METAL SCREWS (3 TOTAL)

SEALANT

SEALANT

Your vent cap may look slightly different than one shown.

Figure 10a

# RUN VENT SYSTEM THROUGH EXISTING CHIMNEY

We strongly suggest wrapping first 3ft. (914mm) of vent system below termination cap with non-faced fiberglass insulation (secure with wire) before running it through existing chimney. This will prevent cold air from coming down existing chimney.

**DO NOT USE THIS METHOD IF YOU ARE STUBBING COMBUSTION AIR PIPE FROM BOTTOM OF EXISTING CHIMNEY.**

## NOTE

If offsets are present in existing chimney, place a weighted rope around pipe ends to guide them through chimney.  
**DO NOT ATTEMPT TO TIE ONE ROPE AROUND BOTH PIPES.**

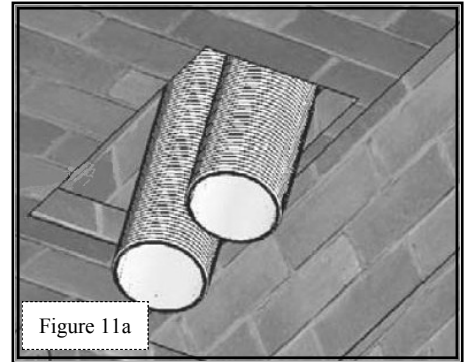


Figure 11a

1. Guide rope, if used, and flexible pipe(s) down existing chimney. See illustration at lower left.
2. To secure chimney termination cap to existing chimney, apply a liberal bead of sealant (provided) around top of existing chimney. Set termination cap into position as instructed in installation manual included with chosen vent system .

**OPTIONAL: #816-CL kits** - Secure termination cap to existing chimney with 2" self-tapping screws and anchor straps (provided) through pilot holes located at sides of termination cap.

3. From inside existing fireplace, CAREFULLY pull ropes down until exhaust pipe and combustion air intake (if using full connection method), are into existing fireplace.

**STUB VENTING:** From inside existing fireplace, insert a minimum of 4 ft. (1.22m) of combustion air pipe (end without collar) past the damper opening and into existing fireplace. See illustration at lower right.

4. We strongly suggested placing non-faced fiberglass insulation between vent pipes and existing chimney to prevent heat loss up chimney, being careful not to block pipe end if using stub method.

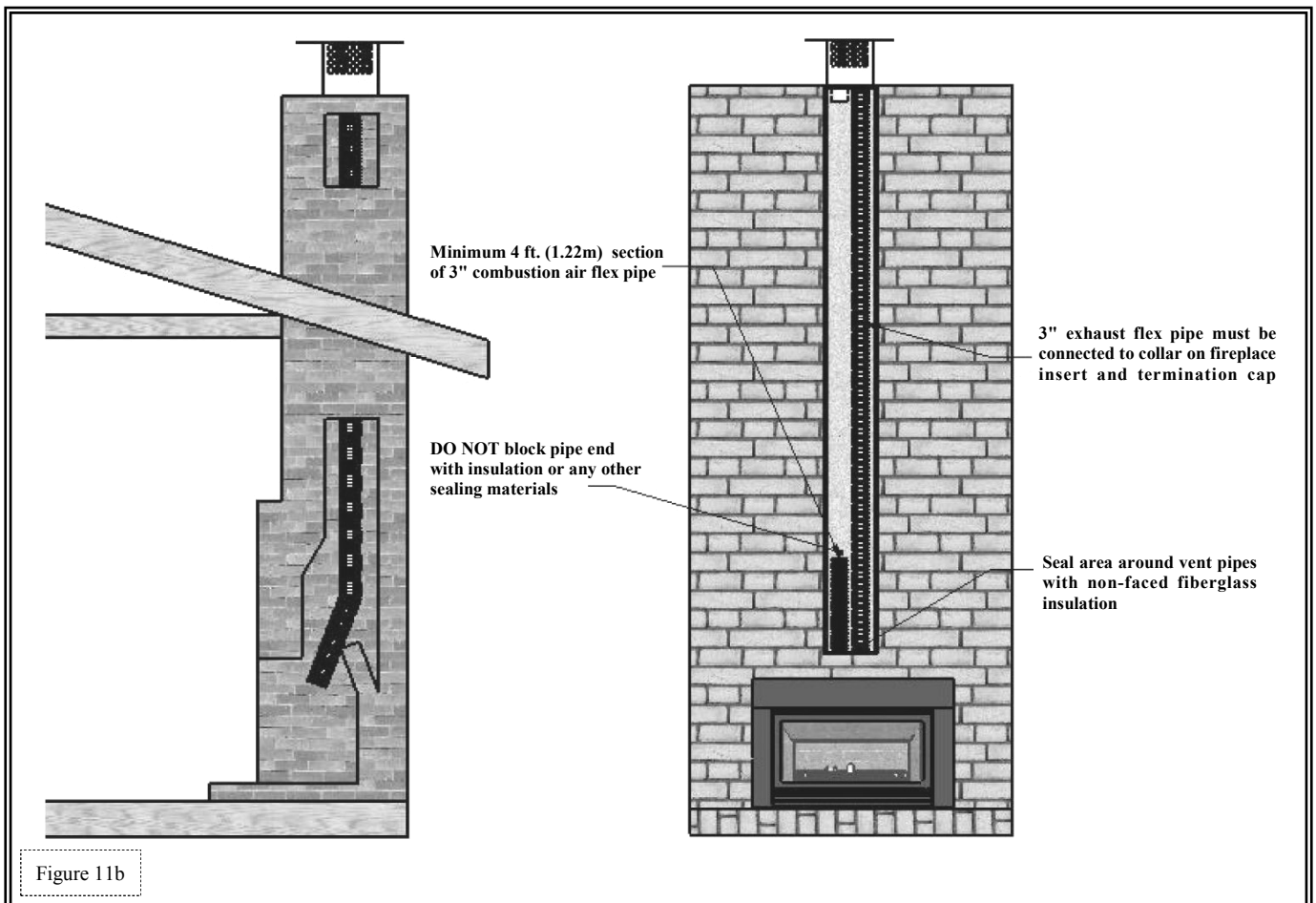
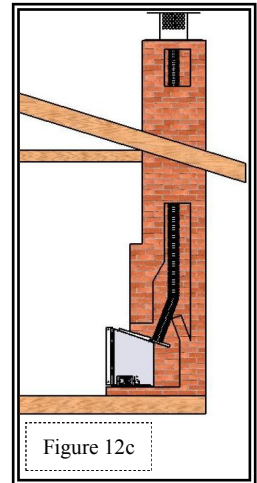
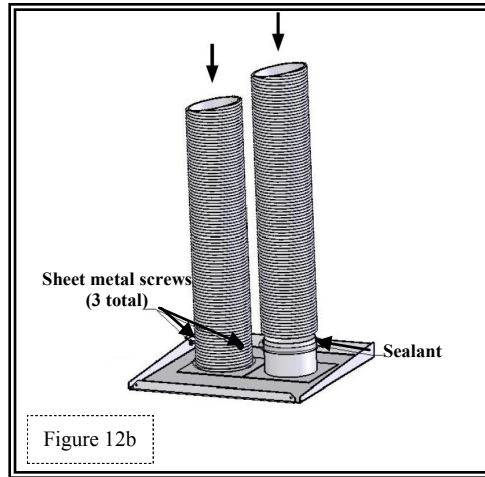
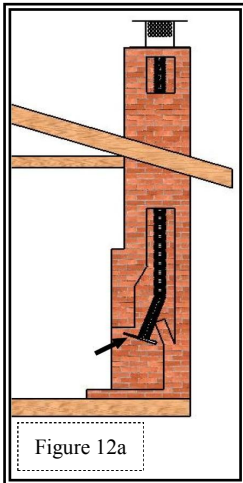
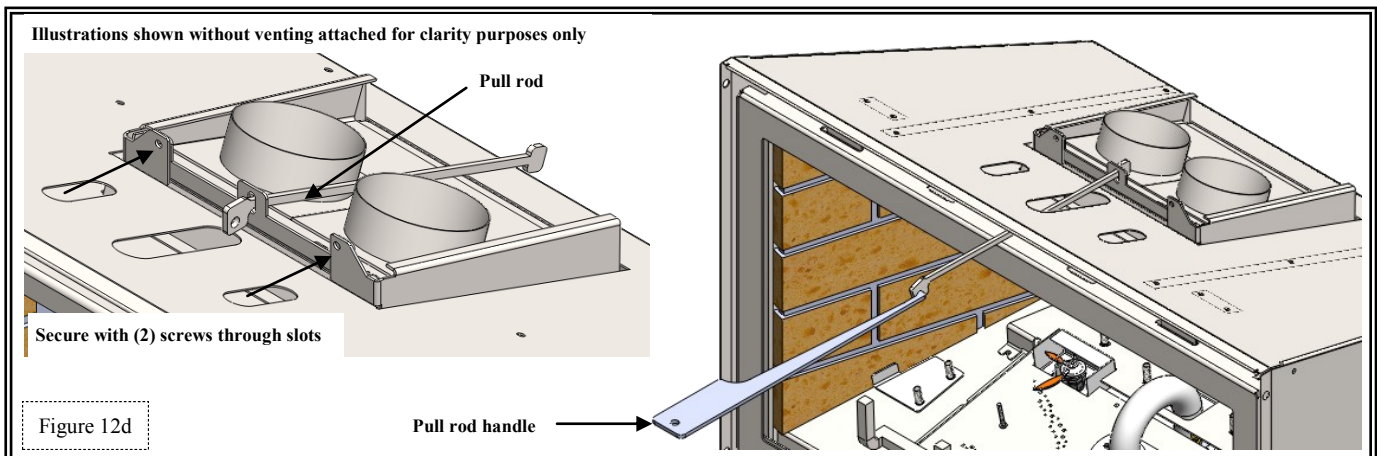


Figure 11b

# VENT SYSTEM CONNECTION



1. Place air duct (previously removed, page 9) into existing fireplace opening.
2. Place a bead of sealant (provided) around exhaust pipe (red marking). Slide exhaust pipe inside collar marked 'Exhaust' on air duct. Secure with (3) ½" self-tapping screws, provided. Apply additional sealant around joint to ensure an air tight seal.
3. Apply a liberal bead of sealant (provided) around collar on air duct. Slide combustion intake pipe over collar. Secure with (3) ½" self-tapping screws, provided. To ensure an air-tight seal, apply additional sealant around joint.
4. Slide insert into fireplace opening far enough to align air duct with channels at top of insert..



5. Insert air duct pull handle through access slot at top of insert, placing hook through hole in pull rod. Simultaneously pull air duct forward until seated while pushing insert backwards into fireplace opening until properly positioned. Use slots at top of fireplace to secure air duct to insert with (2) 1/2" sheet metal screws (included in components packet).
6. Use pull rod handle to slide pull rod back to starting position. Remove pull rod handle.
7. If necessary, level insert by threading leveling bolts (included in components packet) into nuts at bottom of insert - 2 each side.

# GAS LINE CONNECTION

## GAS CONVERSION

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

### 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 Z223.1.

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

### NOTE

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

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.

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 1/2 psi (3.5 kPa).

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 1/2 psi (3.5 kPa).

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.

Run gas line into fireplace, preferably through left or right gas line holes provided.

### NOTE

If installing this insert into minimum opening dimensions, the gas line may need to be run after placement due to space limitations.

If installing this gas fireplace insert into a factory-built fireplace and the factory-built fireplace has no access hole provided, an access hole of 1 1/2"(38 mm) or less may be drilled through the lower sides or bottom of the firebox in a proper workmanship like manner. This access hole must be plugged with non-combustible insulation after the gas supply line has been installed.

### IMPORTANT

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

	<u>NATURAL GAS</u>	<u>LP GAS</u>
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)

# ZC SHROUD ASSEMBLY AND INSTALLATION

## NOTE

If installing a Full Door Shroud, follow instructions included with component.

Shroud assembly includes: (3 pc.) ZC Shroud (top, left & right leg)  
(8) sheet metal screws  
(2) shroud extensions  
(4) truss head screws  
You will also need upper hood and lower louver (included with fireplace).

1. Remove glass assembly from fireplace.
2. Lay shroud sections face down on a protective surface to assemble. Attach leg sections to top section by aligning holes (2 ea. side) in top section with holes in leg sections. Secure with sheet metal screws (2 ea. side).

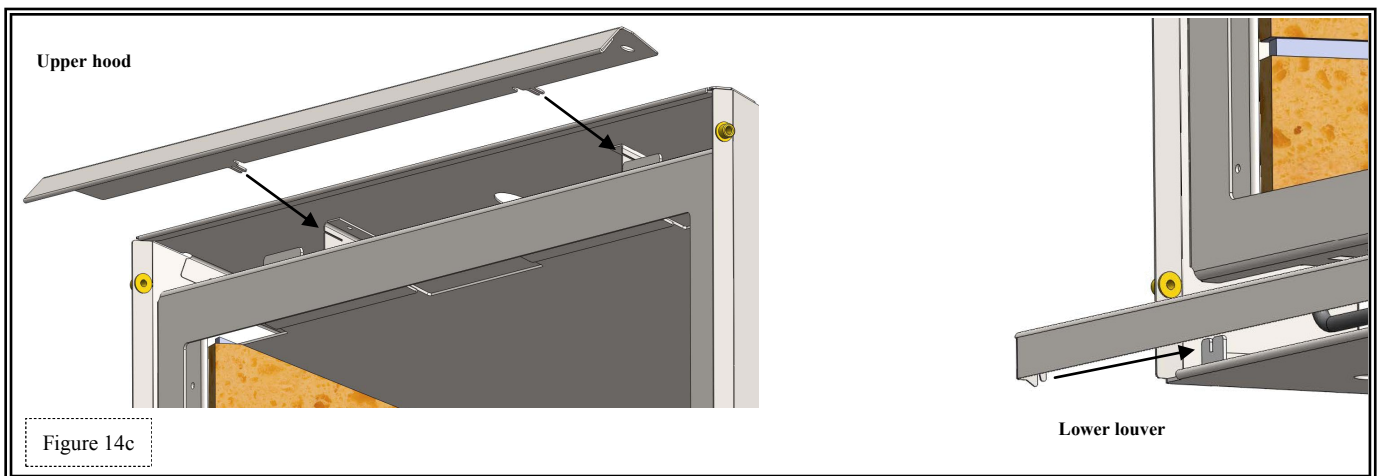
## OPTIONAL

Attach shroud extensions by aligning slots in shroud with desired hole in shroud extension. Secure with sheet metal screws.

3. Align mounting holes in leg sections to corresponding mounting nuts on sides of insert opening. Secure with (4) truss head screws.
4. Reinstall glass frame assembly.
5. Install upper hood and lower louver.

## UPPER HOOD / LOWER LOUVER INSTALLATION

1. Install upper hood by aligning slots in hood with slots in mounting flanges at top of insert, push backwards into position.
2. Install lower louver by aligning slots in louver to corresponding slots in mounting brackets at bottom of insert. Set down into position.



# #CXS-500 LOG SET INSTALLATION

**ATTENTION** If converting to LP (propane) gas, do so now before installing log set. Follow instructions included with conversion kit.

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

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

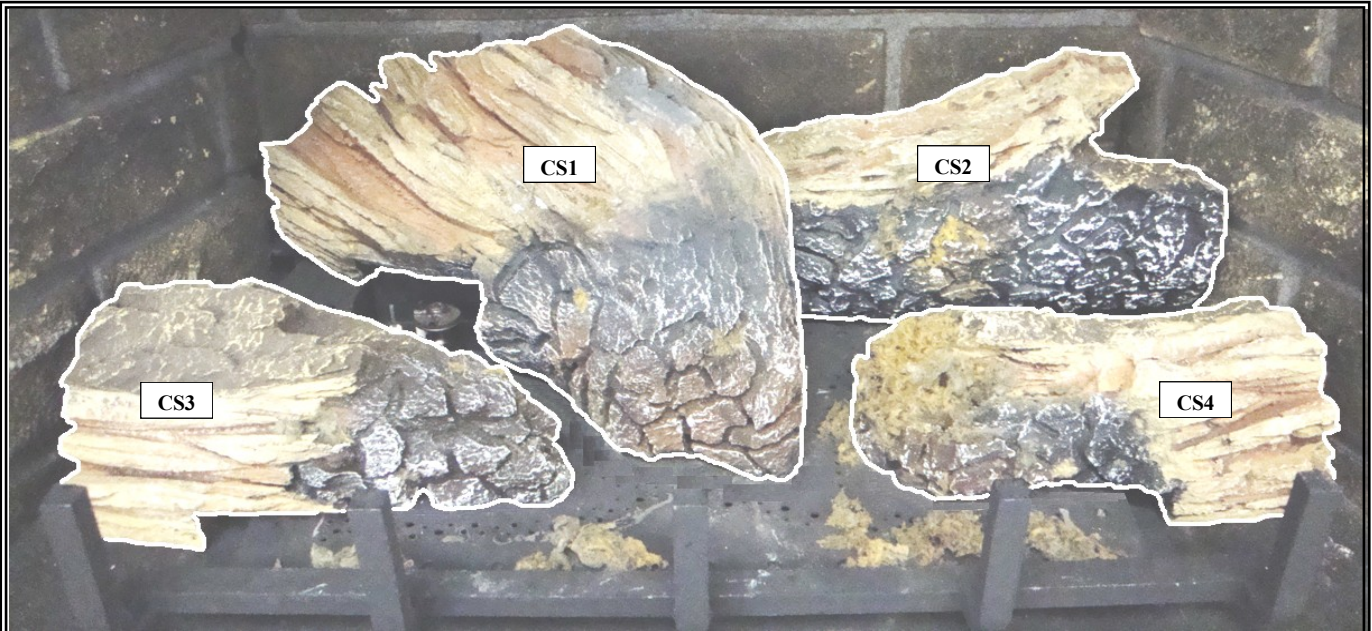


Figure 15a

Position CS1 log over pilot shield as shown above.  
Align holes in bottom of base logs CS2,- CS4 to mounting pins on burner. Push logs down onto pins to seat.

Install CS5 - CS8 logs, aligning with notches in base logs.



Figure 15b

Randomly place Klinkers in this area. Do not place directly over burner ports.  
Use a steel or stiff bristle nylon brush to distribute Rock Wool Embers onto logs and burner.

# 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.

## NOTE

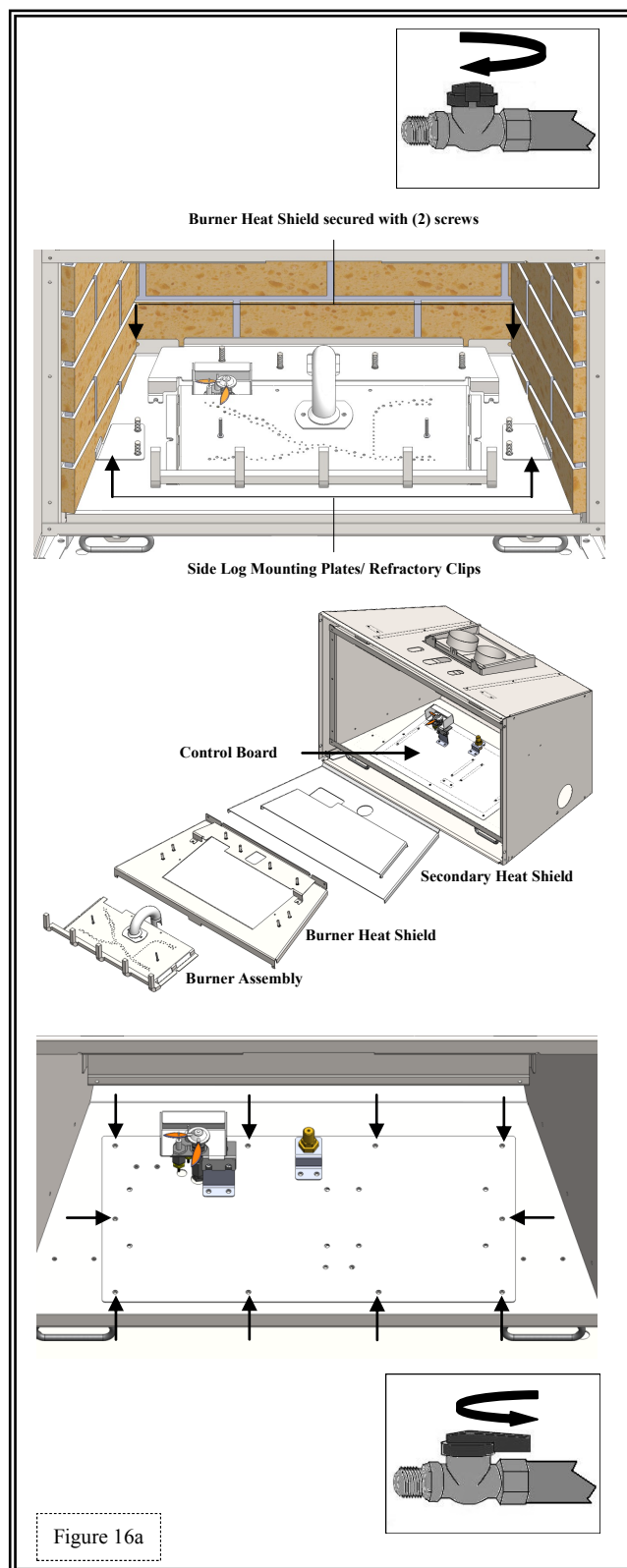
Your components may look slightly different than ones shown.

## REMOVAL

1. Turn fireplace off.
2. Shut off gas supply at manual shut-off valve.
3. Disconnect all components from electrical outlet.
4. Disconnect gas line flex tube from manual shut-off valve.
5. Disconnect all wiring harnesses attached to gas valve.
6. Remove glass assembly and logs.
7. Remove burner assembly. (Secured with (2) screws).
8. Remove side log mounting stands/refractory clips and refractory panels.
9. Remove burner heat shield (secured at back corners - 2 screws).
10. Remove secondary burner heat shield resting on control board.
11. Remove (10) screws securing control board. Remove control board.

## INSTALLATION

1. Place control board in firebox, aligning holes in board with mounting studs in firebox bottom. **MAKE SURE SEALING GASKET IS IN PLACE ON FIREBOX BOTTOM!** Secure board with screws previously removed.
2. Re-install secondary burner heat shield, placing on top of control board. Re-install burner heat shield, positioning cut-outs over pilot assembly and burner orifice, centering from side to side and as far back as possible.
3. Reinstall burner heat shield, securing with screws previously removed.
4. Reinstall refractory. Reinstall side log mounting plates/refractory clips.
5. Re-install burner assembly, making sure burner tube is positioned over burner orifice. Secure with screws previously removed.
6. Reinstall log set.
7. Reconnect gas line to manual shut-off valve.
8. Reconnect all wiring harnesses to gas valve. Plug all components into electrical outlet.
9. Reinstall glass frame assembly.
10. Turn gas on.
11. Verify proper log placement, operation of fireplace, and any electrical components.



## CAUTION

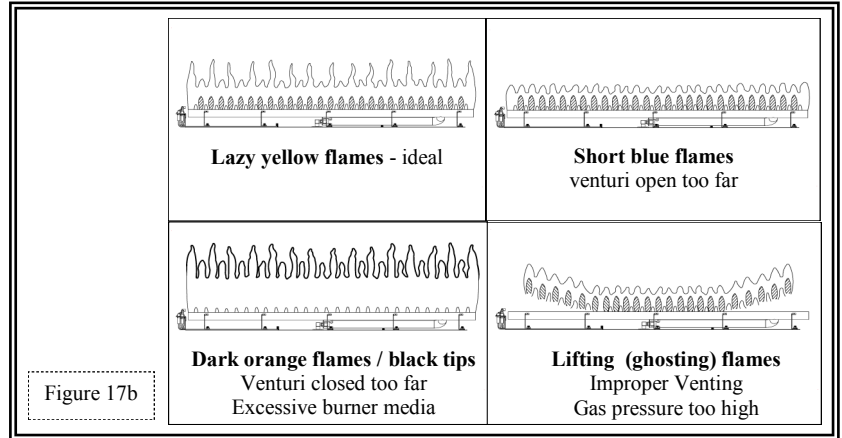
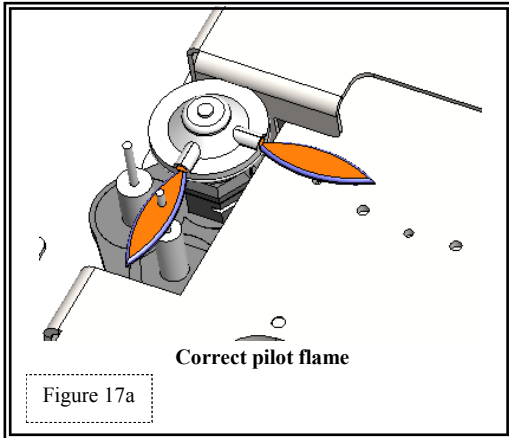
CHECK ALL CONNECTIONS FOR LEAKS WITH SOAPY WATER, WHETHER FIELD OR FACTORY MADE.

# 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.



### FACTORY SET BURNER TUBE VENTURI SETTINGS (ADJUST AS NECESSARY FOR YOUR INSTALLATION)

NATURAL GAS	LP (PROPANE) GAS
1/16" (2mm) OPEN	5/8" (16mm) OPEN

### BURNER TUBE VENTURI ADJUSTMENT GUIDELINES

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

#### NOTE

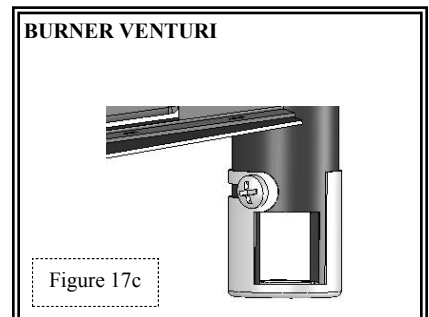
If soot is present, check log positioning before adjusting burner venturi. Logs must not block burner ports.

#### 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:

1. Remove glass frame assembly.
2. Remove log set.
3. Remove burner assembly.
4. Loosen screw on burner venturi and adjust as necessary. Tighten screw.
5. Reinstall all components previously removed.
6. Light fireplace and wait 15 minutes before determining if any further adjustments are needed.



# MAINTENANCE

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

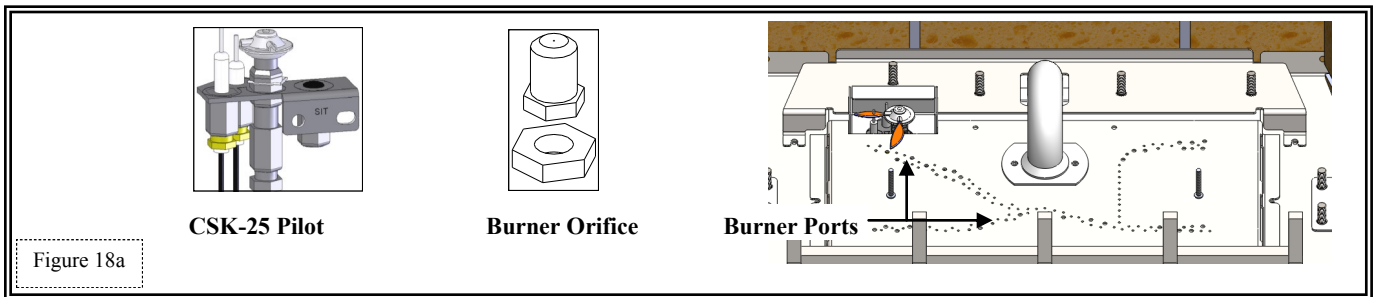
The compartment below firebox must be cleaned at least once a year, more frequent cleaning may be required due to excessive lint from carpeting, bedding materials, or other fibrous materials. Use a vacuum to clean all components at least once a year.

## NOTE

INSTALLATION AND REPAIR SHOULD BE DONE ONLY BY A QUALIFIED SERVICE PERSON. THE APPLIANCE SHOULD BE INSPECTED BEFORE USE AND AT LEAST ANNUALLY BY A PROFESSIONAL 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 CIRCULATING AIR PASSAGeways OF THE APPLIANCE BE KEPT CLEAN.

## CONTROL BOARD SYSTEM

- Annual cleaning of burner system is required. Vacuum all components thoroughly.
- Visually check for blocked port holes, especially near the pilot. Blocked port holes may cause delayed ignition.
- Visually check pilot light and burner when in operation. Flames should be steady, not lifting or floating.



## 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.  
WARNING: DO NOT OPERATE APPLIANCE WITH GLASS/FRAME ASSEMBLY REMOVED, CRACKED OR BROKEN. REPLACEMENT OF THE GLASS SHOULD ONLY BE PERFORMED BY A LICENSED OR QUALIFIED SERVICE PERSON.
- Use protective gloves to handle any broken or damaged glass assembly components.
- The glass assembly, part #CSX-057T, shall only be replaced as a complete unit, as supplied by Hussong Mfg. Co., Inc.
- Replacement of glass & frame assembly, part #CSX-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.

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

# LIMITED WARRANTY

## KOZY HEAT LIMITED 10 YEAR WARRANTY

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. warrants 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 of 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.

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 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. Remote controls and all optional accessories are covered for 1 year from date of purchase.
6. This warranty does not offer coverage for Light Bulbs or Batteries (whether factory, dealer or installer supplied). This includes any damage stemming from either component's nonuse.
7. 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.
8. This warranty does not cover any part of the fireplace or any components which have been exposed to or submerged under water.
9. Hussong Manufacturing Co., Inc. must be notified by the dealer the fireplace was purchased from or a qualified installer/service technician of the defect.
10. 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).
11. 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

## 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 Co., Inc. warrants to the original purchaser that the firebox, heat exchanger, fiber logs, burner tube and glass panel 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 and 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 cost 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 of merchantability and fitness for a particular purpose. This lifetime warranty replace 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.

**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 to the following address:**

***Hussong Manufacturing Co., Inc.  
P.O. Box 577  
204 Industrial Park Drive  
Lakefield, MN 56150-0577***

Sept. 2011

..... CUT ALONG DOTTED LINE .....

**PURCHASER NAME:** \_\_\_\_\_  
**ADDRESS:** \_\_\_\_\_  
\_\_\_\_\_  
**TELEPHONE:** \_\_\_\_\_

**INSTALLATION DATE:** \_\_\_\_\_  
**MODEL #:** \_\_\_\_\_  
**SERIAL #:** \_\_\_\_\_

**INSTALLER NAME:** \_\_\_\_\_  
**ADDRESS:** \_\_\_\_\_  
\_\_\_\_\_  
**TELEPHONE:** \_\_\_\_\_



# Supplemental Installation and Homeowner Information Manual for CHASKA-25:



# #CSK-25

## DIRECT VENT GAS FIREPLACE INSERT

**IMPORTANT:** This supplemental installation and homeowner manual is to be used in conjunction with CHASKA-25 INSTALLATION MANUAL. Read both manuals before installing and operating appliance.

INSTALLER: Leave this manual with the appliance.  
CONSUMER: Retain this manual for future reference.

English and French Installation Manuals  
Available Through Your Local Dealer or  
Visit Our Website at [www.kozyheat.com](http://www.kozyheat.com)

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

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

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

### WHAT TO DO IF YOU SMELL GAS:

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

— Installation and service must be performed by a qualified installer, service agency or the gas supplier.



# WARN-



**HOT GLASS WILL CAUSE BURNS.  
DO NOT TOUCH GLASS UNTIL  
COOLED.**



Report No. 216-S-38-6.5

SEPT. 2012  
CSK-25-SUP-REV-01

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# SAFETY INFORMATION

This fireplace has been tested by OMNI-Test Laboratories, Portland, Oregon and complies with:

ANSI Z21.88-2009/CSA 2.33-2009, "Standard for Vented Gas Fireplace Heaters."

CAN 2.14-M91 (R2009), "Gas-Fired for Use at High Altitudes."

CAN/CSA P.4.1-09, "Testing Method for Measuring Annual Efficiency".

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

- 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 placed 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.
- **WARNING: DO NOT OPERATE APPLIANCE WITH THE GLASS/FRAME ASSEMBLY REMOVED, CRACKED OR BROKEN. REPLACEMENT OF THE GLASS SHOULD ONLY BE PERFORMED BY A LICENSED OR QUALIFIED SERVICE PERSON.**
- The glass assembly, Part #CXS-057T, shall only be replaced as a complete unit, as supplied by Hussong Mfg. Co., Inc. 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.

# SPECIFICATIONS

## CSK-25 COMPONENTS LIST

PART NUMBER	DESCRIPTION
CXS-150	Control Board Assembly
700-203	Manual Gas Shut-off Valve
CXS-135	Burner Assembly
CXS-G900	Firebrick Refractory Set
CXS-500	Log Package
CXS-057T	Glass Frame Assembly
CXS-028	Fan Kit (1)-75 CFM
500-CXS	Grill Assembly
700-408	Remote Control

	<u>CSK-25</u>	
	<u>NATURAL GAS</u>	<u>LP GAS</u>
MINIMUM INLET GAS PRESSURE	5" WC (1.25 kPa) (7" WC (1.74 kPa) recommended)	12" WC (2.99 kPa) (recommended)
MAXIMUM INLET GAS PRESSURE	10.5" WC (2.62 kPa)	13" WC (3.24 kPa)
MANIFOLD PRESSURE (HI)	3.8" WC (.95 kPa)	11" WC (2.74 kPa)
MANIFOLD PRESSURE (LO)	1.1" WC (.27 kPa)	2.9" WC (.72 kPa)
ORIFICE SIZE	#44	#54
INPUT BTU/hr. (kW)	26,000 BTU/hr (7.62 kW)	25,500 BTU/hr (7.47 kW)
MINIMUM INPUT BTU/hr. (kW)	13,500 BTU/hr (3.96 kW)	13,000 BTU/hr (3.81 kW)

# WIRING SCHEMATICS

## IMPORTANT

THIS SYSTEM REQUIRES ELECTRICITY (120V) 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.

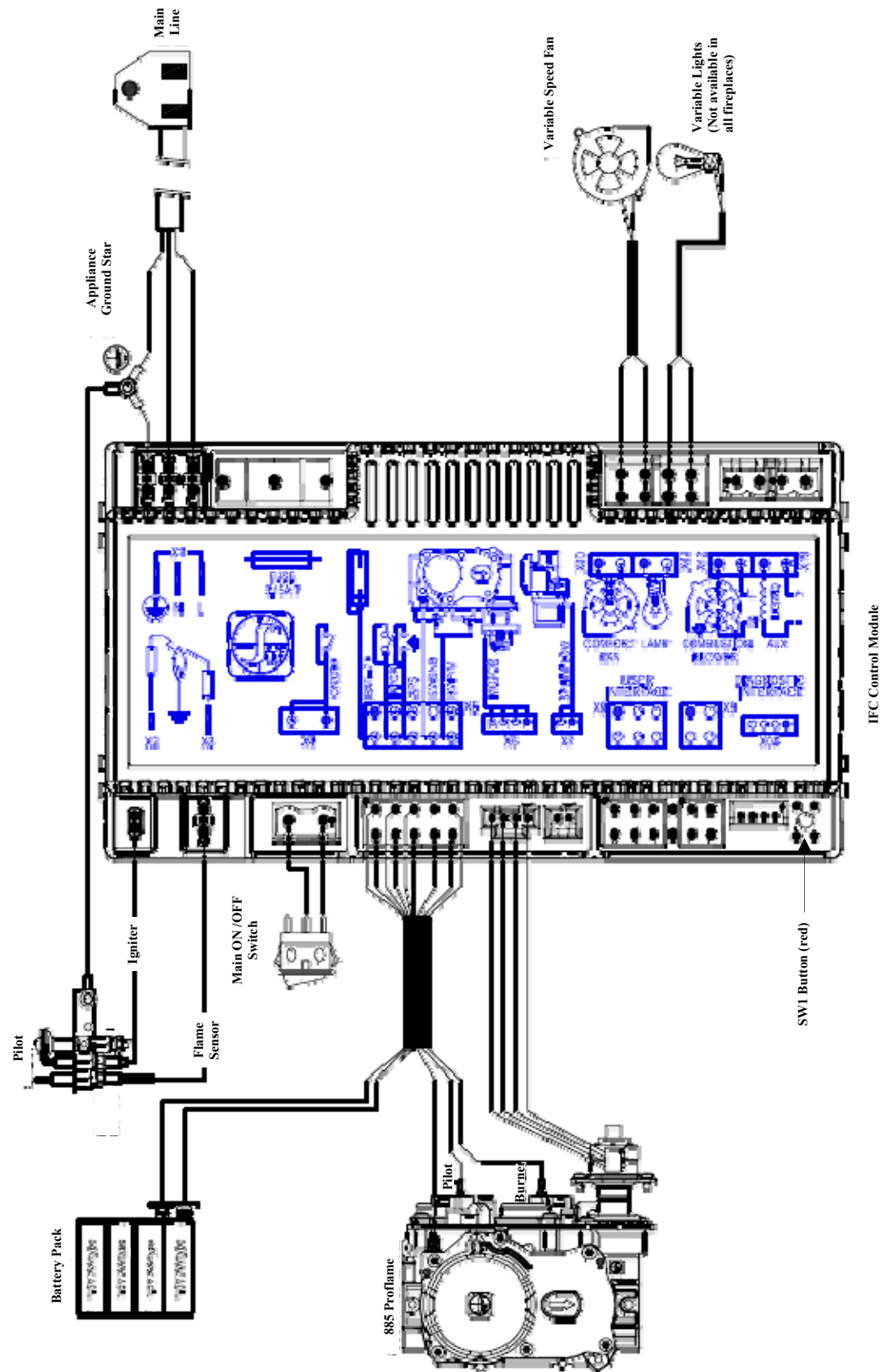
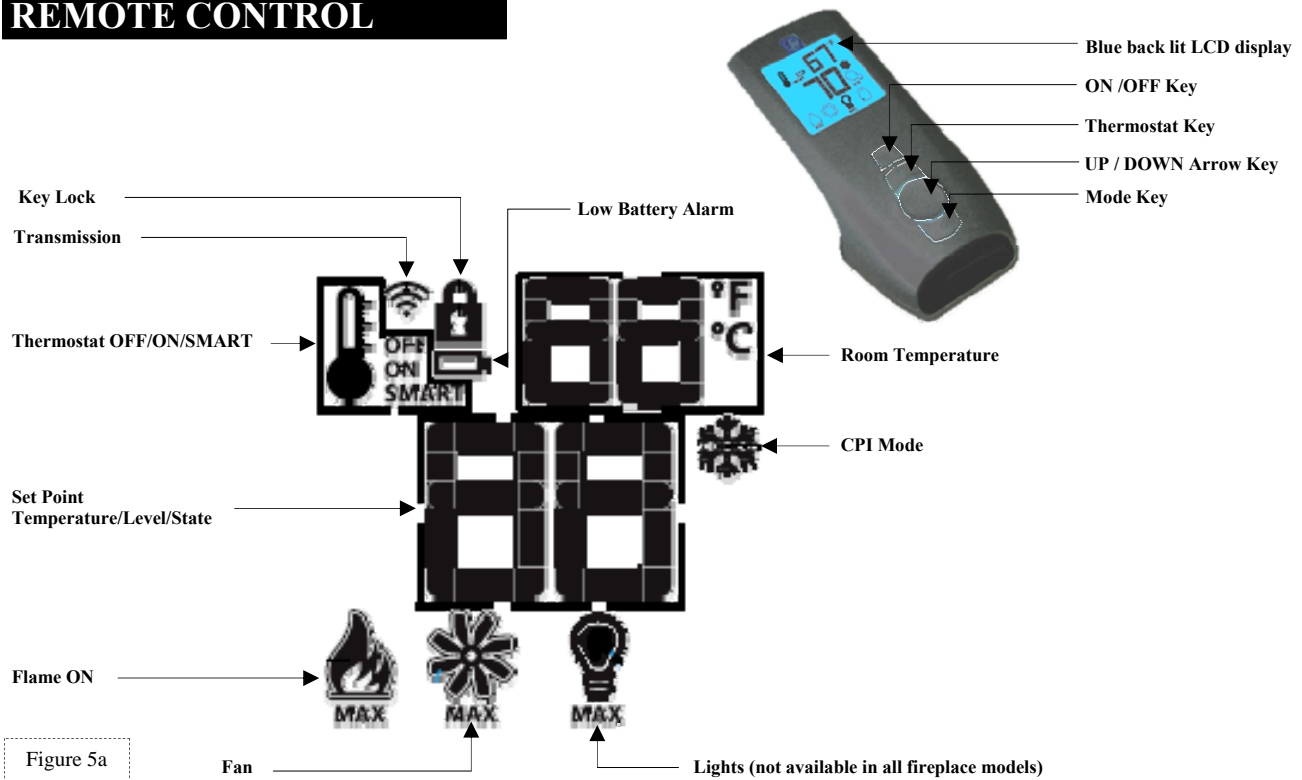


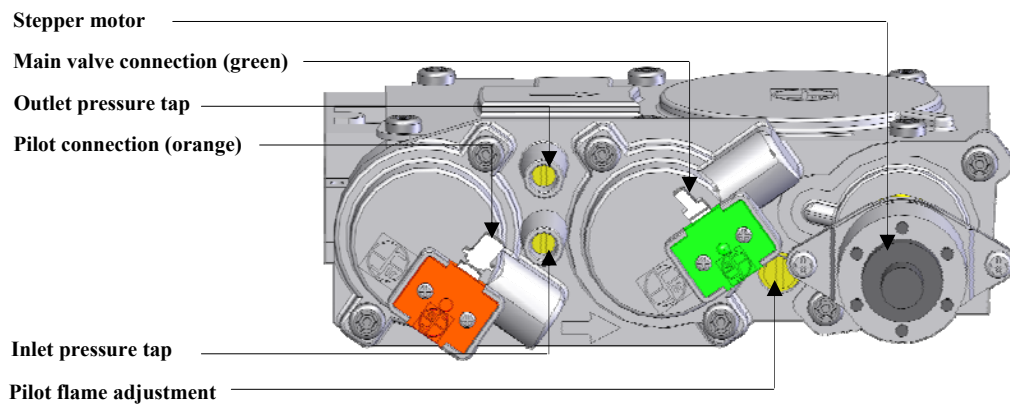
Figure 4a

# CONTROL SYSTEM COMPONENTS

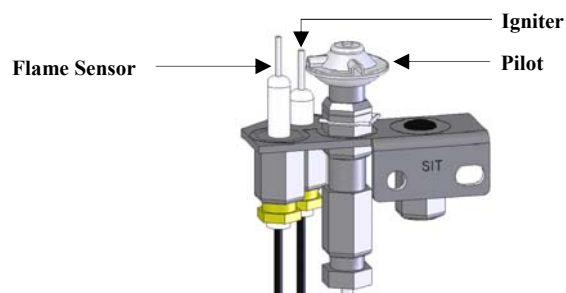
## REMOTE CONTROL



## GAS VALVE



## PILOT ASSEMBLY



# SYSTEM OPERATION

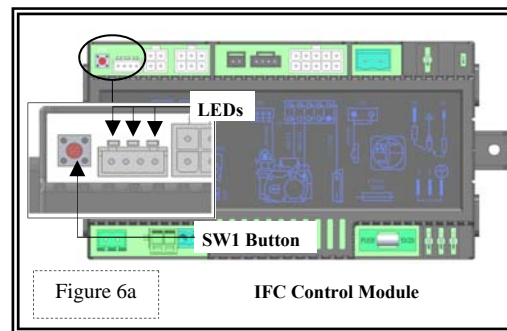
## INITIALIZING THE SYSTEM FOR THE FIRST TIME

1. Set ON/OFF rocker switch to OFF position.
2. Install 4 AA batteries (included in components packet) into battery backup holder.
3. Connect IFC Control Module to AC power supply.
4. Install 3 AAA batteries (included in components packet) into remote control battery bay (located on base of remote control).

**NOTE:** Performing the next step will initiate Pilot Start-up in Manual Mode:  
Pilot igniter will spark repeatedly.

Pilot will ignite if gas is supplied to the fireplace.

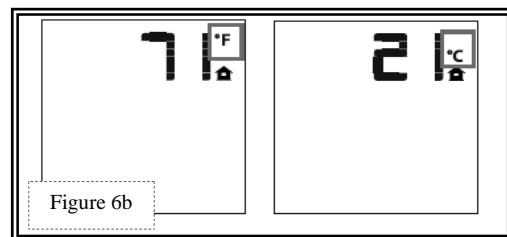
**Remove all packaging / combustible material from fireplace before proceeding.**



5. Press red SW1 button on IFC control module until module beeps three (3) times and/or an amber LED is illuminated indicating the IFC control module is ready to synchronize with the remote control .
6. Within ten (10) seconds push remote control **ON/OFF** button. The IFC control module will beep (4) times to indicate the remote control's command is accepted and set to the particular code of that remote control. Press remote control **ON/OFF** button again. The pilot will shut down indicating the remote has taken over. The system is now initialized.
7. Setting ON/OFF rocker switch to ON position will allow you to operate fireplace with remote control.

## TEMPERATURE DISPLAY

With the system in **OFF** position, press Thermostat Key and Mode Key at the same time to change from degrees F to C. Look at remote control LCD screen to verify that C or F is visible on right side of Room Temperature display.



## TURN ON THE APPLIANCE

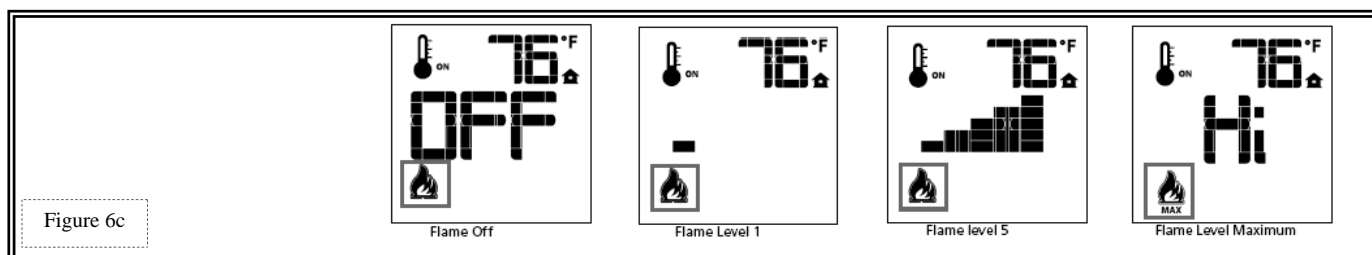
Press **ON/OFF** key on remote control. The display will show all active icons on the screen. A single 'beep' from IFC Control Module will Confirm reception of the command.

## TURN OFF THE APPLIANCE

Press **ON/OFF** key on remote control. The display will show only room temperature and icon on the screen. A single 'beep' from IFC control module will confirm reception of the command.

## MANUALLY CONTROL FLAME WITH REMOTE CONTROL

The remote control has six (6) flame levels. With system ON and flame level at maximum, press Down Arrow Key once to reduce flame height by one step until flame is turned off. The Up Arrow Key will increase flame height on step each time it is pressed. If Up Arrow Key is pressed while system is on but flame is off, the flame will come on in High position. A single 'beep' will confirm reception of the command. When SMART Thermostat is activated, manual flame height adjustment is disabled.

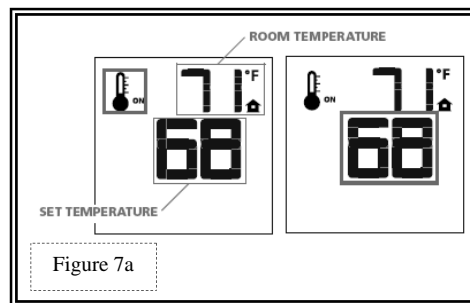


# SYSTEM OPERATION

## ROOM THERMOSTAT (Remote Control Operation)

The remote control can operate as a room thermostat. The thermostat can be set to desired temperature to control a rooms comfort level.

To activate this function, press the Thermostat Key. The LCD display will change to show the room thermostat is ON and set temperature is now displayed. To adjust set temperature, press Up or Down arrow keys until desired set temperature is display on LCD screen.

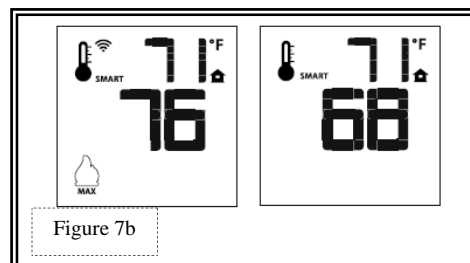


## SMART THERMOSTAT (Remote Control Operation)

The Smart Thermostat function adjusts flame height based on set temperature and actual room temperature. As room temperature gets closer to set point the Smart Function will automatically adjust flame down.

1. Press Thermostat key until word SMART appears on right side of temperature bulb graphic.
2. To adjust set temperature, press Up/Down arrow keys until desired set temperature is displayed on LCD screen.

When SMART Thermostat is activated, manual flame height adjustment is disabled.

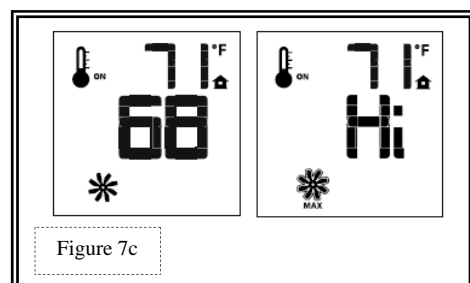


## FAN SPEED CONTROL

Fan speed can be adjusted through six (6) speeds. To activate this function use Mode Key to index to fan control icon. Use Up/Down Arrow Keys to turn on, off or adjust fan speed. A single 'beep' will confirm reception of the command.

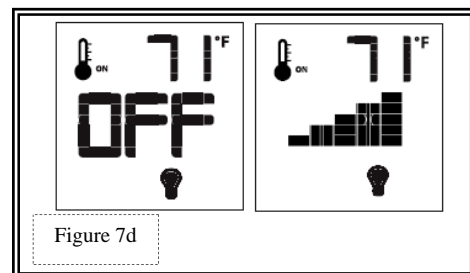
**In Thermostat Mode:** Fan(s) have a five (5) minute delay time when fireplace is lit, allowing time for heat to build in fireplace before operating, and will continue operating for approximately twelve (12) minutes after fireplace has been turned off.

**In Manual Mode:** Fan (s) will operate at previous setting. There is no delay in start up or stop time.



## ACCENT LIGHT KIT (not available in all fireplace models)

1. Use MODE key to guide you to LIGHT icon.
2. The light intensity can be adjusted through six (6) levels. Use UP/DOWN Arrow Keys to adjust intensity level. A single beep will confirm reception of the command.

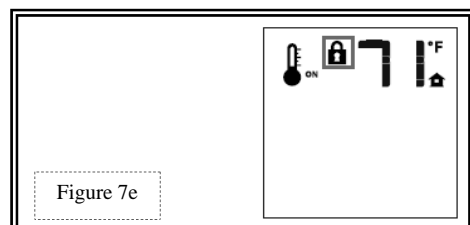


## KEY LOCK

This function locks the keys to avoid unsupervised operation.

To Activate: Press MODE and UP keys at same time.

To De-activate: Press MODE and UP keys at same time.

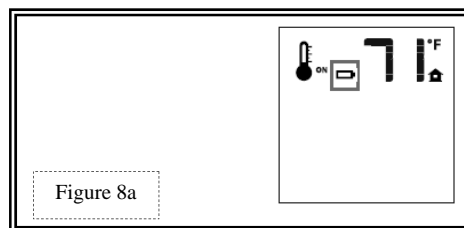


# SYSTEM OPERATION

## LOW BATTERY DETECTION

**REMOTE CONTROL:** Remote control battery lifespan depends on various factors including battery quality, number of ignitions, changes to room thermostat set point, etc. When remote control batteries are low, a Battery Icon will appear on the LCD display before all battery power is lost. When batteries are replaced this icon will disappear.

**BACKUP BATTERY PACK (used when electrical power is interrupted):** Backup batteries lifespan depends on various factors including battery quality, number of ignitions, changes to room thermostat set point, etc. When backup batteries are low, a double-beep will be emitted from the IFC control module when it receives an ON/OFF command from the remote control. This is an alert for a low battery condition of the backup batteries and after this double-beep warning, no commands will be accepted until batteries are replaced. When batteries are replaced a beep will be emitted from IFC control module as soon as powered.



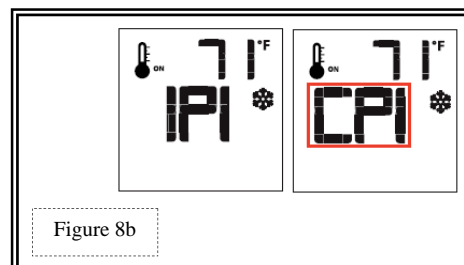
## CONTINUOUS PILOT / INTERMITTENT PILOT (CPI/IPI)

This 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.

With system in OFF position, press Mode Key to index to CPI mode icon. Pressing the UP Arrow Key will activate the Continuous Pilot Ignition Mode (CPI). Pressing the Down Arrow Key will return to IPI. A single beep will confirm the reception of the command.

A snowflake icon will be visible during setup of either IPI or CPI modes. In IPI mode the snowflake is not visible on LCD screen.

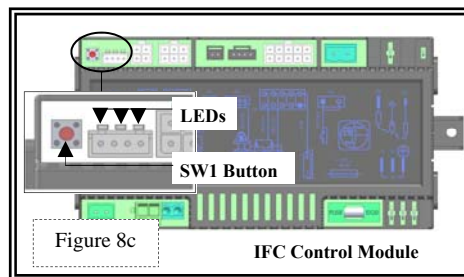
In CPI mode the snowflake will remain visible on LCD screen.



## RESETTING SYSTEM FOR MANUAL OPERATION

1. Put ON/OFF switch in OFF position.
2. Press red SW1 button on IFC control module until the IFC control module emits three (3) beeps and an amber LED is illuminated, indicating the IFC control module is ready to synchronize with remote control. Within ten (10) seconds press the red SW1 button on IFC control module again. The pilot will automatically light.
3. Turn main burner on by pressing ON/OFF switch to ON position, turn off by pressing ON/OFF switch to OFF position. Pilot will remain lit even if burner is turned off.

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



## AUTOMATIC SAFETY RESTART

This system will execute an automatic turn OFF command within (24) hours of a continued pilot flame ignition. This allows the system to verify correct safety functions. After turn OFF sequence is completed, the IFC control module will re-execute the latest command.

# SYSTEM OPERATION

## S.I.T. PROFLAME 2 IFC IGNITION AND RESET INFORMATION

### IGNITION SEQUENCE

Starting from OFF, press remote control ON button. Approximately (4) seconds after ON/OFF button is pushed, the IFC control module will start the spark. First ignition try will last approximately (60) seconds.

If there is no flame ignition (rectification) during the first try for ignition, the IFC control module will stop sparking for approximately (35) seconds. After this wait time, the IFC control module will start the second try for ignition by sparking for approximately (60) seconds. If ignition is successful on third ignition attempt, there will be a (60) second delay before the main burner lights.

If after this third attempt there is still no positive ignition, the IFC control module will go into LOCK OUT and the red LED will blink (3) times in intervals until the system is reset.

**LED Indicator Location:** Corner of IFC control module. (IFC control module location determined by fireplace model and design. May be located in component housing behind lower grill, or behind left side access panel).

**LOCK OUT = LED blinks (3) times in intervals until the system is reset.**

#### In Summary:

1. The IFC control module will try (2) times for ignition.
2. Each try for ignition will last approximately (60) seconds.
3. The wait time between the two tries is approximately (35) seconds.

### RESET IFC CONTROL MODULE WHEN SYSTEM GOES INTO LOCK OUT

#### Reset Using ON/OFF Switch:

Set ON/OFF switch to OFF position. Wait approximately (2) seconds and move switch to the ON position. The ignition sequence will start again.

#### Reset Using Remote Control ON/OFF Button:

Turn the system off by pressing the remote control ON/OFF button. After approximately (2) seconds press the remote control ON/OFF button again. The IFC control module will reset and the ignition sequence will start again.

#### Reset By Cycling Flame:

In the Manual Flame Control Mode, use the Down Arrow Button to reduce flame to off (indicated by OFF displayed on Remote Control Display Screen). Wait approximately (2) seconds and press the Up Arrow Button, the ignition sequence will start.

## ADDITIONAL DIAGNOSTIC INDICATIONS INFORMATION

**Low Battery Condition (<4V) Remote Control:** Battery Icon will appear on LCD remote control display. Replace batteries.

**Low Battery Condition (<4V) Battery Backup:** Red LED Indicator will blink (1) time in intervals. Low double-beep emitted from IFC control module when it receives an ON/OFF command from the remote control. Replace Batteries.

**Pilot Flame Error Condition:** Red LED Indicator will blink (2) times in intervals. Contact your dealer if this occurs.

**System Lock Out Condition:** Red LED Indicator will blink (3) times in intervals. Make sure gas is turned on. Make sure sensor is not shorted. Follow **Reset IFC Control Module When System Goes Into Lock Out** instructions above.

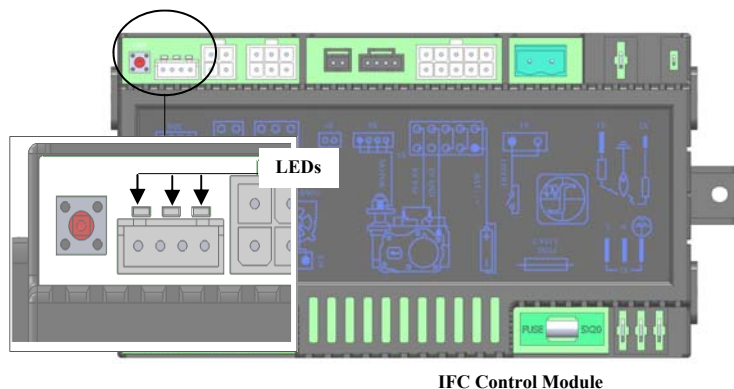


Figure 9a

# LIGHTING AND SHUTDOWN

## FOR YOUR SAFETY - READ BEFORE OPERATING

### WARNING

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

1. This appliance is equipped with an ignition device which automatically lights the pilot. **DO NOT** try to light the pilot by hand.
2. BEFORE OPERATING, smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

### WHAT TO DO IF YOU SMELL GAS:

- \* Do not try to light any appliance.
  - \* Do not touch any electrical switch; do not use any phone in your building.
  - \* Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
  - \* If you cannot reach your gas supplier, call the fire department.
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 and any gas control which has been under water.

### 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.

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

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.

**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.

# LIGHTING AND SHUTDOWN (cont.)

## OPERATING INSTRUCTIONS

### STOP!

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

1. Turn off all electric power to the appliance.

### ATTENTION

This appliance 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 **OFF** button.
3. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, **STOP!** Follow 'WHAT TO DO IF YOU SMELL GAS' below. If you don't smell gas, go to next step.

### WHAT TO DO IF YOU SMELL GAS:

- \* Do not try to light any appliance.
- \* Do not touch any electric switch; do not use any phone in your building.
- \* Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- \* If you cannot reach your gas supplier, call the fire department.

4. Turn ON all electric power to the appliance.
5. Press hand held remote **ON** button.

### CAUTION

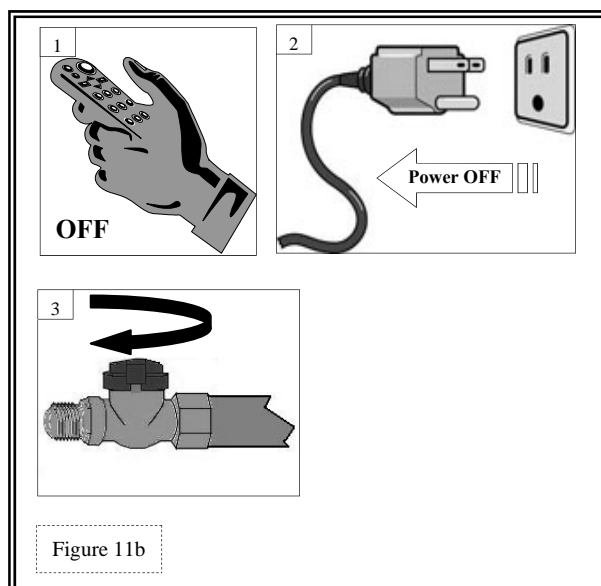
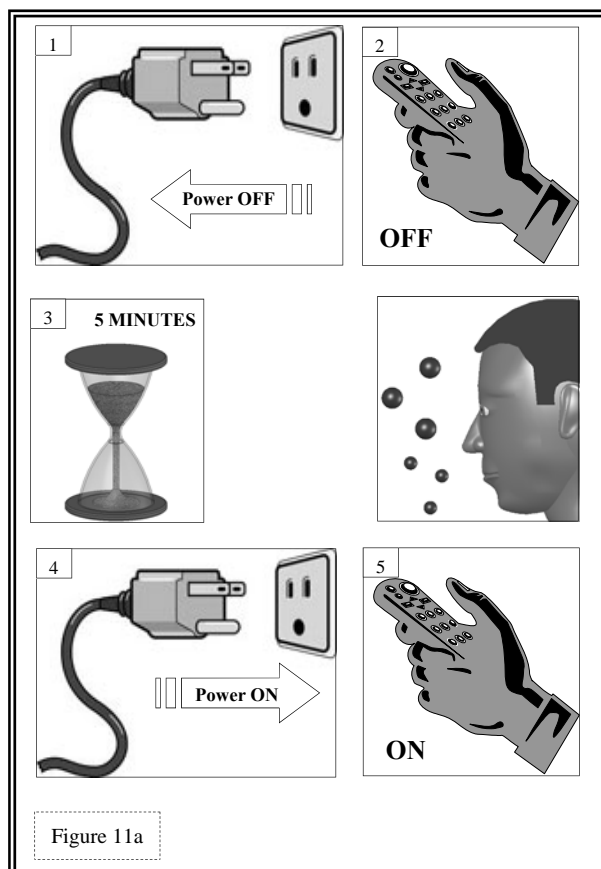
If fireplace will not operate, follow instructions **TO TURN GAS OFF TO APPLIANCE** and call your service technician or the gas supplier.

### 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.

## TO TURN GAS OFF TO APPLIANCE

1. Press hand held remote **OFF** button.
2. Turn OFF all electric power to appliance if service is to be performed.
3. Manual shut-off valve located behind lower grill. Turn manual shut-off valve to **OFF**.



# PRESSURE TESTING

## IMPORTANT

Pressure check taps for manifold (outgoing) and inlet (incoming) pressure have been incorporated into the valve. The pressure tap marked OUT measures outgoing pressure and the pressure tap marked IN measures incoming pressure. Follow instructions below for proper testing procedures. Refer to page 16 for proper NAT and LP manifold pressures.

## NOTE

The appliance and its appliance main gas valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psi (3.5 kPa). The appliance must be isolated from the gas supply piping system by closing its equipment shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 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 pilot and burner. Check pressure to ensure it is between the min. and max. recommended pressure settings.
4. Turn off burner and pilot.
5. Disconnect hose and tighten screw (clockwise). Screw should be snug, do not over tighten.
6. Relight pilot and burner. Reattach manometer to inlet pressure tap to verify that 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.

## MANIFOLD PRESSURE TEST:

1. Light pilot.
2. Loosen manifold (OUT) pressure tap screw (counter-clockwise).
3. Attach manometer to pressure tap using a 1/4" I.D. hose.
4. Light pilot and burner. Check manometer reading.
5. Turn burner and pilot off.
6. Disconnect manometer hose and tighten screw (clockwise). Screw should be snug, do not over tighten.
7. Attach manometer to manifold pressure tap to verify it is completely sealed. Manometer should read no pressure when pilot and burner are on.

Outlet (Manifold) Pressure Screw

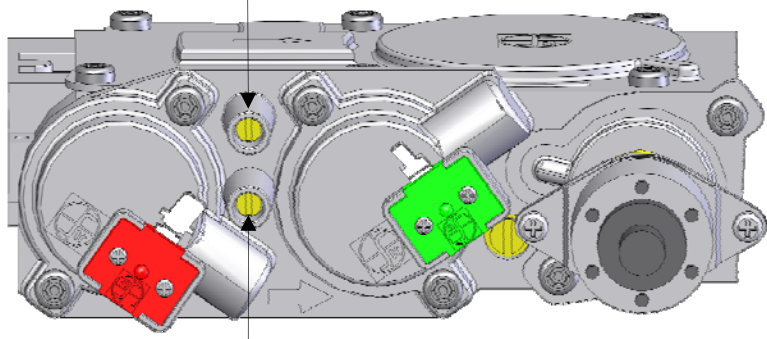


Figure 12a

Inlet Pressure Screw

# TROUBLESHOOTING

## ATTENTION

**TROUBLESHOOTING MUST BE PERFORMED BY A QUALIFIED TECHNICIAN.**

Before proceeding with the steps in the following troubleshooting guide, verify the power supply is present and receiver batteries and/or battery pack are fresh and installed with correct polarity.

Make sure all connections between wire harnesses and system components are proper and positive.

Make sure communication link between remote control and IFC control module is established.

Verify inlet pressure meets the recommended inlet pressure. If necessary adjust line pressure regulator.

## PILOT WILL NOT LIGHT / STAY LIT

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

## PILOT FLAME ALWAYS ON / WILL NOT EXTINGUISH

- System set to CPI mode. Set system to IPI mode.

## MAIN FLAME WILL NOT LIGHT

- ON/OFF rocker switch in OFF position. Switch to ON position.
- Remote not working properly. Replace batteries.
- Remote set to thermostat mode and there is no call for heat. Adjust heat setting.
- Thermostat disconnected or set too high. Set thermostat to lower temperature setting.
- Ensure pilot flame will ignite. If not, see pilot flame troubleshooting above.
- Ensure pilot flame is properly located to ignite main flame.
- Plugged main burner orifice.
- Wiring disconnection / improper wiring. Check for faulty or incorrect wiring.
- Verify gas supply is turned on.
- Low gas pressure. Low gas pressure can be caused by several situations such as a bent line, too narrow diameter pipe, or low line pressure. Consult with plumber or gas supplier.

# TROUBLESHOOTING

## PILOT AND BURNER EXTINGUISH WHILE IN OPERATION

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

## GLASS SOOTING

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

## FLAME BURNS BLUE AND LIFTS OFF BURNER

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

## NO REACTION TO COMMAND

- Backup battery pack batteries or remote control batteries low. Replace batteries.
- No communication between remote control and IFC control module. Reprogram remote control to IFC control module. Follow INITIALIZING THE SYSTEM FOR THE FIRST TIME as outlined in this manual.
- A maximum number of failed ignitions or flame restorations have been reached. Reset IFC control module.

### **Reset Using ON/OFF Switch:**

Set ON/OFF switch to OFF position. Wait approximately (2) seconds and move switch to the ON position. The ignition sequence will start again.

### **Reset Using Remote Control ON/OFF Button:**

Turn the system off by pressing the Remote Control ON/OFF button. After approximately (2) seconds press the Remote Control ON/OFF button again. The IFC control module will reset and the ignition sequence will start again.

### **Reset By Cycling Flame:**

In the Manual Flame Control Mode, use the Down Arrow Button to reduce flame to off (indicated by OFF displayed on Remote Control Display Screen). Wait approximately (2) seconds and press the Up Arrow Button, the ignition sequence will start.

# CONVERSION KIT INSTRUCTIONS

#NCK-CXS-S NAT GAS CONVERSION KIT / #LCK-CXS-S 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

THE CONVERSION SHALL BE CARRIED OUT BY A MANUFACTURER'S AUTHORIZED REPRESENTATIVE, IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER, PROVINCIAL OR TERRITIORIAL AUTHORITIES HAVING JURISDICTION AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE CAN/CGA-B149.1 OR CAN/CGA-B149.2 INSTALLATION CODES.

Kit includes: (1) Gas Conversion Label (1) Pilot Injector NAT #51 / LP #35 (1) Gas Label  
(1) Burner Orifices: NAT #44 / LP #54 (1) Step Motor Pressure Regulator

## CAUTION

THE GAS SUPPLY SHALL BE SHUT OFF PRIOR TO DISCONNECTING THE ELECTRICAL POWER, BEFORE PROCEEDING WITH THE CONVERSION.

## WARNING

SHUT OFF GAS SUPPLY AND ELECTRIC POWER TO FIREPLACE.  
SHUT OFF GAS SUPPLY BEFORE DISCONNECTING ELECTRIC POWER.

## IMPORTANT

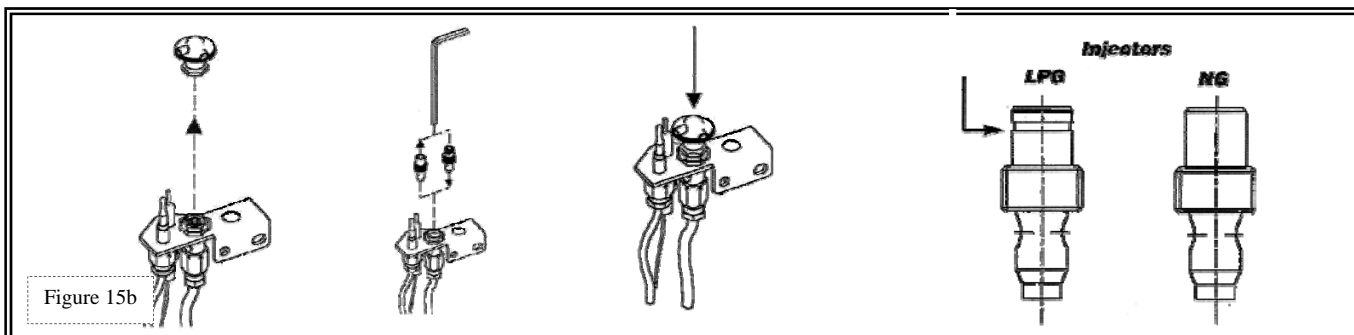
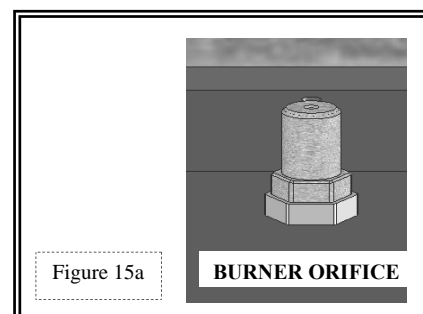
For high altitude installations: Above 2000ft. (610m) US / 4500ft. (1372m) Canada, consult the local gas distributor or authority having jurisdiction for proper de-rating methods.

### PREPARE THE FIREPLACE:

Remove glass frame assembly, burner assembly and logs from insert.

### REPLACE BURNER ORIFICE:

1. Remove burner by lifting front up and pulling towards you to release venturi from orifice.
2. Remove existing orifice cap. Replace with orifice cap included with kit, making sure to tighten cap securely. (Number stamped on orifice). NAT: #44 / LP: #54



### CONVERT PILOT ASSEMBLY:

1. Remove pilot hood by pulling it directly up from pilot bracket.
2. Insert 5/32" (4mm) hex key into hexagon key-way of injector, turn counter clockwise to remove from injector journal.
3. Place hex key into end of injector included with kit, install into injector journal, turning clockwise to a recommended torque of 9 lb-in. (1.0 Nm) is achieved. (LP injectors have groove around top, Nat injectors do not. Numbers are stamped on pilot injectors). NAT: #51 / LP: #35
4. Align tab on base of pilot hood with slot in side of pilot journal. Push hood down, directly into pilot bracket. Hood must sit squarely for proper operation.

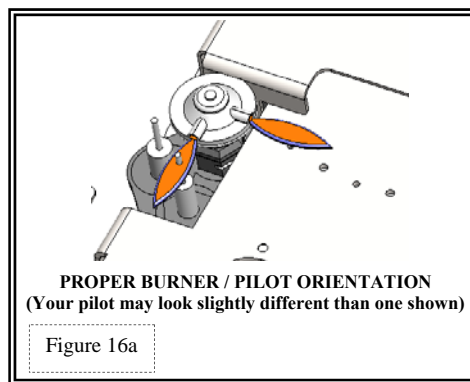
# CONVERSION KIT INSTRUCTIONS

## CONVERT THE GAS CONTROL VALVE:

Follow stepper motor pressure regulator instruction sheet included with conversion kit to convert gas valve. (LP or NAT marked on stepper motor pressure regulator).

## COMPLETE THE CONVERSION:

1. Adjust burner tube venturi to correct setting by loosening screw, adjusting cap and retightening screw.  
**CORRECT SETTINGS: NAT: 1/16" (2mm) open    LP: 5/8" (16mm) open**
2. Re-install burner into fireplace, checking to ensure burner venturi is properly seated over burner orifice.
3. Re-install logs\*.
4. Turn on gas and electrical supplies.
5. Check for leaks at all connections, 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 assembly.
10. Verify proper ignition and operation of fireplace.
11. Complete and affix 'Gas Conversion' label behind lower grill as close to gas valve as possible.



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.

**GAS CONVERSION LABEL**  
(included with conversion kit)

Figure 16b

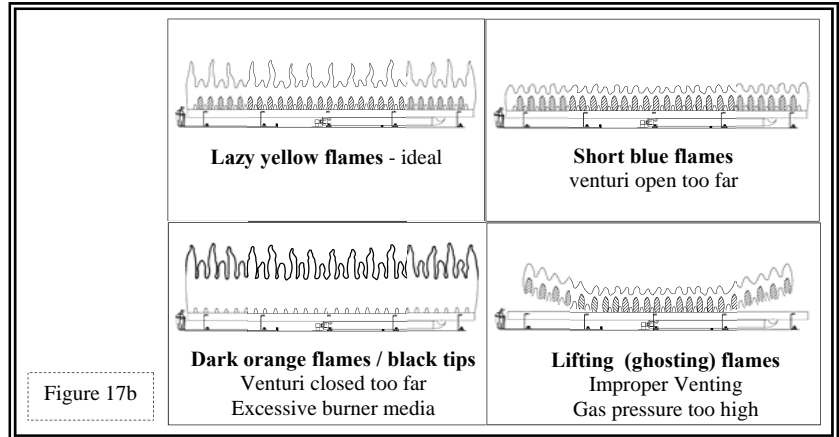
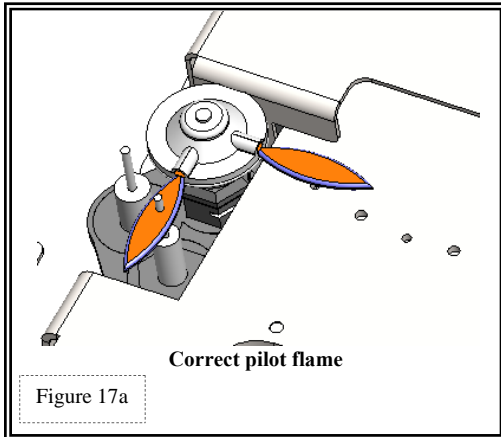
	<u>NATURAL GAS</u>	<u>LP GAS</u>
MINIMUM INLET GAS PRESSURE	5" WC (1.25 kPa) (7" WC (1.74 kPa) recommended)	12" WC (2.99 kPa) (recommended)
MAXIMUM INLET GAS PRESSURE	10.5" WC (2.62 kPa)	13" WC (3.24 kPa)
MANIFOLD PRESSURE (HI)	3.8" WC (.95 kPa)	11" WC (2.74 kPa)
MANIFOLD PRESSURE (LO)	1.1" WC (.27 kPa)	2.9 (.72 kPa)

# CONVERSION KIT INSTRUCTIONS

## FLAME APPEARANCE:

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

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



### WARNING

Burner tube adjustable venturi positioning should only be performed by a qualified professional service technician.

### FACTORY SET BURNER TUBE VENTURI SETTINGS (ADJUST AS NECESSARY FOR YOUR INSTALLATION)

NATURAL GAS	LP (PROPANE) GAS
1/16" (2 mm) OPEN	5/8" (16 mm) OPEN

### BURNER TUBE VENTURI ADJUSTMENT GUIDELINES

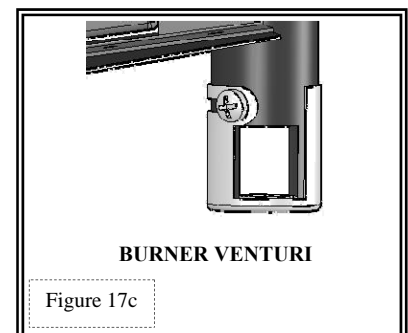
VENTURI POSITION	FLAME COLOR	VENTURI ADJUSTMENT
Closed too far	Dark orange flame with black tips	Open venturi setting slightly
Open too far	Blue flames	Close venturi setting slightly

### IMPORTANT

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

## TO ADJUST VENTURIS:

1. Remove glass frame assembly.
2. Remove log set.
3. Remove burner assembly.
4. Loosen screw on burner venturi and adjust as necessary. Tighten screw.
5. Reinstall all components previously removed.
6. Light fireplace and wait 15 minutes before determining if any further adjustments are needed.



# MAINTENANCE

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

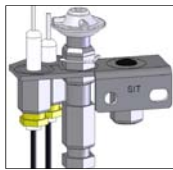
The compartment below firebox must be cleaned at least once a year, more frequent cleaning may be required due to excessive lint from carpeting, bedding materials, or other fibrous materials. Use a vacuum to clean all components at least once a year.

## NOTE

INSTALLATION AND REPAIR SHOULD BE DONE ONLY BY A QUALIFIED SERVICE PERSON. THE APPLIANCE SHOULD BE INSPECTED BEFORE USE AND AT LEAST ANNUALLY BY A PROFESSIONAL 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 CIRCULATING AIR PASSAGeways OF THE APPLIANCE BE KEPT CLEAN.

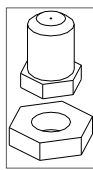
## CONTROL BOARD SYSTEM

- Annual cleaning of burner system is required. Vacuum all components thoroughly.
- Visually check for blocked port holes, especially near the pilot. Blocked port holes may cause delayed ignition.
- Visually check pilot light and burner when in operation. Flames should be steady, not lifting or floating.

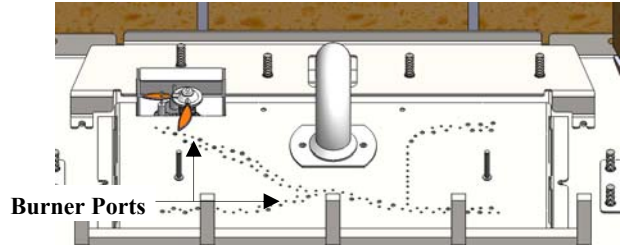


Pilot

Figure 18a



Burner Orifice



## 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.  
WARNING: DO NOT OPERATE APPLIANCE WITH GLASS/FRAME ASSEMBLY REMOVED, CRACKED OR BROKEN. REPLACEMENT OF THE GLASS SHOULD ONLY BE PERFORMED BY A LICENSED OR QUALIFIED SERVICE PERSON.
- Use protective gloves to handle any broken or damaged glass assembly components.
- The glass assembly, part #CXS-057T, shall only be replaced as a complete unit, as supplied by Hussong Mfg. Co., Inc.
- Replacement of glass & frame assembly, part #CXS-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.

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

# REPLACEMENT PARTS LIST

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

## CONTROL BOARD AND PARTS

CXS-150	Control Board - Nat Gas	700-504	Valve Step Motor - Natural Gas
CXS-151	Control Board - LP Gas	700-504-1	Valve Step Motor - LP Gas
700-567	SIT IPI Valve - Natural	700-203	Manual Shut-off Valve
700-567-1	SIT IPI Valve - LP	700-213B	18" Flexible Gas Line-Black
700-652	Proflame 2 IFC Board	700-226	Flexible Gas Line-Valve to Burner Connection
700-653	IFC Wire Harness Assembly	700-244	Natural Gas Orifice #44
700-551	Pilot Assembly - Natural Gas	700-254	LP Gas Orifice #54
700-551-1	Pilot Assembly - LP Gas	NCK-CXS-S	Natural Gas Conversion Kit
700-408	Transmitter	LCK-CXS-S	LP Gas Conversion Kit
700-165	Natural Gas Pilot Orifice	CXS-135	Burner Assembly
700-168	LP Gas Pilot Orifice		

## GRILL REPLACEMENT

CXS-200	Upper Hood (For 3 & 4 pc. Shrouds)	CXS-005	Replacement Valance
CXS-200F	Upper Hood (For Full Door Shrouds)	900-006	1-1/8" Glass Gasket w/ Adhesive
CXS-201	Lower Grill	CXS-057T	Valance with 24" x 14-1/4" glass

## GLASS & GLASS GASKET

## FAN ASSEMBLY

CXS-028-IPI	Fan Assembly	CXS-500	9 pc. Log Set
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## LOG SET

## REFRACTORY PANELS (Sandstone)

CXS-G900	(3 pc.) Refractory Panel Set	CXS-1	#CS1 Log
CXS-900B	Back Refractory Panel	CXS-2	#CS2 Log
CXS-G900L	Left Side Refractory	CXS-3	#CS3 Log
CXS-900R	Right Side Refractory	CXS-4	#CS4 Log
		CXS-5	#CS5 Log
		CXS-6	#CS6 Log
		CXS-7	#CS7 Log
		CXS-8	#CS8 Log
		900-KLK	Klinkers
		900-REMB	Rock Wool Embers

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**CSK-25**

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