

DIRECT VENT GAS FIREPLACE
with Intermittent Pilot Ignition (IPI)
For use with natural gas (NG) or propane (LPG)
OPERATION & INSTALLATION MANUAL





PFS report#: F21-666

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

Installer: Please complete the details on the back cover and leave this manual with the homeowner.

Homeowner: Please keep these instructions for future reference.

Date Installed:	
	_
Serial No.:	

Pour la version française de nos manuels . vous référez à notre site web: www.blazeking.com

# **MARNING**

# FIRE OR EXPLOSION HAZARD Failure to follow safety warnings exactly could result in serious injury, death, or property damage.

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

#### WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Leave the premises.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

# **A** DANGER



**HOT GLASS** WILL CAUSE BURNS.

**DO NOT TOUCH** GLASS UNTIL COOLED.

**NEVER** ALLOW CHILDREN TO TOUCH GLASS.

A safety screen designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed for the protection of children and other at-risk individuals. If the safety screen becomes damaged, the safety screen shall be replaced with the manufacturer's safety screen for this appliance.

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 may be installed in an OEM Installation in a manufactured home (USA only) or mobile home and must be installed in accordance with the manufacturer's instructions and the Manufactured Home Construction and Safety Standard, Tittle 24 CRF, Part 3280, in the United States, or the Standard for Installation in Mobile Homes, CAN/CSA Z240 MH Series, in Canada.

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 OEM kit is used.

Massachusetts installations (Warning): This product must be installed by a licensed plumber or gas fitter when installed within the Commonwealth of Massachusetts. Other Massachusetts code requirements: Flexible connector must not be longer than 36in., a shut off valve must be installed; only direct vent sealed combustion products are approved for bedrooms/bathrooms. A carbon monoxide detector is required in all rooms containing gas fireddirectventappliances.

# **SAFETY PRECAUTIONS**

**NOTE:** Failure to follow these instructions could cause a malfunction of the appliance, which could result in death, serious bodily injury, and/or property damage.

#### **GENERAL**

- Installation and repair should be done by a qualified service person. The appliance should be inspected before the first use and, at least, annually by a qualified service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative the control compartments, burners, and circulating air passageways of the appliance be kept clean.
- If the appliance is pulled out of its installation and the vent-air intake pipes is disconnected for any reason, ensure that the vent-air intake pipes are reconnected and re-sealed in accordance to the instructions.
- Due to high temperatures, the appliance should be located out of high traffic areas and away from furniture and draperies.

# Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burn or clothing ignition.

- Young children should be carefully supervised when in the same room as the appliance. Toddlers, young children and others may be susceptible to accidental contact burns. A physical barrier (safety screen) is required if there are at risk individuals in the house. To restrict access to a appliance or appliance install an adjustable safety gate to keep toddlers, young children and other at risk individuals out of the room and away from hot surfaces. Any safety screen, guard, or barrier removed for servicing an appliance must be replaced prior to operating the appliance.
- Clothing or other flammable materials should not be placed on or near the appliance.

# YOUR SAFETY

- Have the venting system inspected annually by a qualified installer for blockage and signs of deterioration.
- To prevent injury, do not allow anyone who is unfamiliar with the appliance to operate it.
- To prevent injury, if the pilot or pilot and burners have gone out on their own, open the glass door and wait 5 minutes to air out before attempting to relight the appliance.
- Always keep the area around these appliances clear of combustible material, gasoline and other flammable liquids and vapors.
- These appliances should not be used as a drying rack for clothing or for hanging Christmas stockings/ decorations.
- Due to the paint curing on the appliance, a faint odor and slight smoking will likely be noticed when the appliance is first used. Open a window until the smoking stops.
- 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.
- Do not abuse the glass by striking it or slamming the door shut.

# **MARNING**

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

# **SAFETY PRECAUTIONS**

# **INSTALLATION**

- Installation and service must be performed by a qualified installer, service agency or gas supplier
- Only doors certified with the appliance shall be used. (see door part numbers in "PARTS LIST")
- This installation must conform to local codes or, in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1 / NFPA 54 in the US, or the Natural Gas and Propane Installation Code, CSA B149.1 in Canada.
- A manufactured home (USA only) or mobile home OEM installation must conform with the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280, or, when such a standard is not applicable, the Standard for Manufactured Home Installations, ANSI / NCSBCS A225.1, or Standard for Gas Equipped Recreational Vehicles and Mobile Housing, CSA Z240.4.
- Always connect this gas appliance to a vent system and vent to the outside of the building envelope.
   Never vent to another room or inside the building. Make sure the specified vent pipe is used, properly sized and of adequate height to provide sufficient draft.
- The flow of combustion and ventilation air must not be obstructed .
- 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).
- This gas appliance must not be connected to a chimney flue serving a separate solid-fuel burning appliance.
- The appliance, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, with the National Electrical Code, ANSI / NFPA 70, in the US, or the Canadian Electrical Code, CSA C22.1, in Canada.
- **Caution:** Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

# **MARNING**

FAILURE TO POSITION THE PARTS IN ACCORDANCE WITH THE DIAGRAMS IN THIS BOOKLET, OR FAILURE TO USE ONLY PARTS SPECIFICALLY APPROVED WITH THIS APPLIANCE, MAY RESULT IN PROPERTY DAMAGE OR PERSONAL INJURY.

# **CALIFORNIA PROPOSITION 65**

**WARNING:** This product can expose you to chemicals including benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information:

www.P65Warnings.ca.gov

# **Manufactured By**

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S.ZPFC	PROFLAME CONNECT WIFI KIT		
S.Z5613	HEAT DUCT EXTENSION - 16"		
S.Z5614	HEAT DUCT EXTENSION - 28"		
S.Z5654	ILLUMINATED MOUNTAINSCAPE ARTWORK w/ SIDE GLASS - CL4416		

# **GENERAL INFORMATION**

#### **APPLIANCE CERTIFICATION**

This appliance is tested and certified to the following US and Canadian gas appliance standards:

- ANSI Z21.88 2017 / CSA 2.33 2017 Vented Gas Fireplace Heaters,
- CSA 2.17 2017 High Altitude (Canada)
- CAN/CSA P.4.1-15 Efficiency Requirements for Canada

STEADY STATE EFFICIENCY				
Natural Gas (NG) Propa				
Steady State Efficiency - High	Effy <sub>ss.H</sub>	69.61%	71.30%	
Annual Fireplace Efficiency	FE	65.64%	68.29%	

#### **INSTALLATION CODES**

This appliance must be installed by a qualified gas appliance installer. This appliance is certified for installation in a bedroom or a bedsitting room. This appliance is only for use with the type of gas indicated on the rating plate and may be installed in an aftermarket, permanently located, manufactured (mobile) home where not prohibited by local codes. This appliance is not convertible for use with other gases, unless a certified OEM kit is used. Only for direct discharge without duct connection. This appliance must be direct vented using listed and approved M&G Dura-Vent, ICC, Selkirk, Amerivent, and Olympia.

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



# **SPECIFICATIONS**

MODEL CL4416	Natural Gas (NG)	Propane (LP)
Manifold Pressure	3.8 in. w.c. (0.95kPa)	11.0 in. w.c. (2.74 kPa)
Min. Supply Pressure for Purpose of Input Adjustment	7 in. w.c. (1.74 kPa)	13.0 in. w.c. (3.23 kPa)
Orifice Size	DMS #48 Main / #43 Splitflow	DMS #56 Main / #55 Splitflow
Nominal Input Rating	40,000 BTU/hr, 11.72 kWh	36,000 BTU/hr, 10.55 kWh
Minimum Input Rating	10,500 BTU/hr, 3.08 kWh	9,500 BTU/hr, 2.78 kWh
Altitude	0 - 4,500 ft. (0 - 1372 m)	0 - 4,500 ft. (0 - 1372 m)
Primary Air Opening	1/8" (Minimum)	1/4"
Electrical Rating	120 V.A.C. System	120 V.A.C. System

#### HIGH ALTITUDE INSTALLATION

**In the USA:** The appliance may be installed at higher altitudes. Please refer to your American Gas Association guidelines which state: the sea level rated input of Gas Designed Appliances installed at elevations above 2000 (610 m) feet is to be reduced 4% for each 1000 feet (305 m) above sea level. Refer also to local authorities or codes which have jurisdiction in your area regarding the de-rate guidelines.

**In Canada:** When the appliance is installed at elevations above 4500 feet (1372 m), the certified high altitude rating shall be reduced at the rate of 4% for each additional 1000 feet (305 m).

# **CERTIFICATION LABEL**



PFS report#: F21-666

#### **CLARITY CL4416**

**SN - 31** 

Listed vented gas fireplace heater / Poêle certifié au gaz avec évacuation

MODEL / MODÈLE: Clarity CL4416 top venting appliance / Clarity CL4416 appareil ventilé vers le haut

US This stove is factory equipped for 0-1372 m (0-4500 ft) / Ce poêle est manufacturé et équipé pour 0-1372 m (0-4500 pied) UNITED STATES AND CANADA / ÉTATS-UNIS ET LE CANADA: Conforms to ANSI Z21.88-2017; Certified to CSA 2.33-2017 Vented Gas Fireplace Heater, CGA 2.17-M91(R2014), Gas Fireplaces For Use At High Altitudes. Conforme à ANSI Z21.88-2017; Certifié CSA 2.33-2017 Poêle au gaz avec évent et CGA 2.17-M91(R2014) Appareils de chauffage au gaz utilisés en hautes altitudes.

Model: Clarity CL4416 top vent appliance / Modèle: Clarity CL4416 appareil de ventilation vers le haut	□ NG	□ LP
Orifice (DMS) 0-1372 m	48 / 43	56 / 55
Input rating / Puissance d'entrée (BTU/hr / kWh ) 0-1370m 0-4,500 ft Alt.	40,000 / 11.72	36,000 / 10.55
Minimum Input / Entrée Minimum (BTU/hr / kWh)	10,500 / 3.08	9,500 / 2.78
Manifold Pressure High setting / Manifold Pression réglé à High (In w.c. / kPa)	3.8 / 0.95	11.0 / 2.74
Manifold Pressure Lo setting / Manifold Pression réglé à Lo (In w.c. / kPa)	1.1 / 0.27	2.9 /0.72
Minimum Inlet Pressure / Pression minimum d'admission (In w.c. / kPa)	7.0 / 1.74	13.0 / 3.23

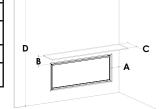
This appliance must be installed in accordance with local codes, if any; if none, follow the National Fuel Gas Code, ANSI Z223.1 / NFPA 54, or the Natural Gas and Propane Installation Code, CSA B149.1.

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage Refer to the owner's manual provided with this appliance. For assistance or additional information consult a qualified installer, service agency, or the gas supplier. Hot while in operation. Do not touch. Keep children, clothing, furniture, gasoline and other liquids having flammable vapors away. Keep burner and control compartment clean. See installation and operating instructions accompanying appliance. VENTED GAS FIREPLACE HEATER —NOT FOR USE WITH SOLID FUEL. For use with glass doors certified with the appliance only. Do not operate this appliance with glass removed, cracked or broken. Replacement of the panel(s) should only be done by a qualified person. For use only with barrier Part No. Z1745. Also for use in OEM / mobile(manufactured) homes after home is on site. Convertible for use with natural gas or propane as follows: For natural gas when equipped with orifice #48 main, #43 split flow; For propane when equipped with orifice #56 main, #55 splitflow. Optional outside heat transfer kit may be used. May be installed in a bedroom or sitting room when installed with a listed thermostat control in Canada.

Cet appareil doit être installé selon les codes locaux, s'il y en a: sinon suivez l'actuel ANSI Z223.1 / NFPA 54 ou Gaz Naturel et Propane Codes, CSA

MISE EN GARDE: Une mauvaise installation, un ajustement, une altération, service ou entretien peuvent causer des blessures ou des dommages à la propriété. Consultez le manuel du propriétaire fourni avec cet appareil. Pour assistance ou information additionnelle, consultez un installateur qualifié, agence de service ou votre fournisseur de gaz. Chaud lorsque l'appareil fonctionne. Ne pas toucher. Tenir loin des enfants, vêtements, meubles, essence et autres liquides ayant des vapeurs inflammables. Tenir le compartiment du brûleur et de contrôle propre. Voir les instructions de l'installation et du fonctionnement accompagnant cet appareil. FOYER AU GAZ AVEC ÉVENT —NE PAS UTILISER AVEC DU COMBUSTIBLE SOLIDE. Utiliser seulement avec des portes vitrées certifiées pour cet appareil. Ne pas opérer cet appareil, si la vitre est manquante, craquée, ou brisée. Le remplacement des panneaux de verre seulement être fait par une personne qualifiée. À utiliser uniquement avec le numéro de pièce de barrière Z1745. Aussi pour l'usage dans les maisons mobiles (manufacturées) après que la maison soit installée sur le site. Pouvant être converti pour usage avec le gaz naturel ou le propane comme suit: Pour le gaz naturel une fois équipé d'un orifice #48 principale, #43 flux divisé.; Pour le propane une fois équipé de l'orifice #56 principale, #55 flux divisé. Un kit de transfert de chaleur externe optionnel peut être utilisé. Peut être installé dans une chambre à coucher ou un salon une fois installé avec un thermostat approuvé au Canada.

	MINIMUM CLEARANCES TO COMBUSTIBLES / DÉGAGEMENTS MINIMUM REQUIS ENTRE L'APPAREIL ET DES MATÉRIAUX COMBUSTIBLES			
Α	Unit to sidewall / De l'unité au mur latéral	2.5" (64 mm)		
В	From the finishing flange to the underside of a maximum 12" (305 mm) deep mantle. / De la bride de finition au dessous d'un manteau de 12 "de profondeur maximum.	6" (153 mm)		
С	Maximum mantle depth. / Profondeur maximale du manteau.	12" (305 mm)		
D	Minimum ceiling clearance from bottom of unit. / Dégagement minimum au plafond du bas de l'appareil.	79.625" (2023 mm)		



NOTE: CHECK LOCAL CODES FOR FLOOR REQUIREMENTS. THIS FIREPLACE IS SUITABLE ONLY FOR INSTALLATION IN A MASONRY OR ZERO CLEARANCE FIREPLACE. / VÉRIFIER LES CODES LOCAUX POUR ÉQUIPEMENT DE SURFACE DE PLANCHER. CE FOYER CONVIENT UNIQUEMENT POUR UNE INSTALLATION DANS UN FOYER DE MAÇONNERIE OU UN FOYER À DÉGAGEMENT ZÉRO.

Electrical Rating: 115 Volts, 0.7 Amp, 60 Hz

DANGER: Risk of electrical shock. Disconnect power before servicing unit. Do not route power cord beneath heater. This appliance must be installed in accordance with the Standard CAN/CSA Z240 MH, Mobile Housing, in Canada, or with the Manufactured Home Construction and Safety Standard, Title 24CFR, Part 3280, in the United States, or when such a standard is not applicable, ANSI / NCSBCSA 225.1 / NFPA501A, Manufactured Home Installations Standard. This appliance is only for use with the type of gas indicated on the rating plate and may be installed in an aftermarket, permanently located, manufactured(mobile) home where not prohibited by local codes. See owners manual for details. This appliance is not convertible for use with other gases unless a certified kit is used. This vented gas fireplace is not for use with air filters.

Caractéristiques électriques: 115 Volts, 0,7 Amp, 60 Hz

DANGER: Risque d'électrocution. Débrancher le courant avant de réparer l'unité. Ne pas mettre le cordon d'alimentation en dessous de l'appareil de chauffage. Cet appareil doit être installé selon les codes CAN/CSA Z240 MH, maisons mobiles (manufacturées), au Canada, sinon applicable, utilisez ANSI / NCSBCS A225.1/NFPA 501 A, Installation d'une maison mobile standard.

Cet appareil peut être utilisé seulement avec le type de gaz indiqué sur la plaque de contrôle et peut être installé dans un marché des accessoires, maison (mobile) de manière permanente placée et manufacturée où ils ne sont pas interdit par des codes. Voir le manuel d'installation pour des détails. Cet appareil ne peut pas être converti pour l'usage avec d'autres gaz à moins qu'un kit de conversion certifié soit employé. Ce foyer au gaz à évacuation ne pas être utilisé avec des filtres à air.

CSA P.4.1-15 Fireplace Efficiency (FE) / Efficacité énergetique des foyer (EEF) CSA P.4.1-15: CL4416 Natural Gas / Gaz naturel 65.64%, Propane Gas / Gaz Propane 68.29%

### MANUFACTURE DATE

JAN 

FEB 

MAR 

APR 

MAY 

JUN JUL 

AUG 

SEP 

OCT 

NOV 

DEC

2021 🗆 2022 🗆 2023 🗆 2024 🗆 2025 🗆 2026 🗆

170-0245 [04 21]

#### MANUFACTURED IN:

- □ USA: Blaze King Industries 146A Street, Walla Walla, WA. 99362
- □ CANADA: Valley Comfort Systems 1290 Commercial Way, Penticton, B.C. V2A 3H5

#### **RATING LABEL LOCATION**

To access the rating label and lighting instructions remove the safety screen by lifting the hooks up and off of the round spacers. The rating label and lighting instructions are located below the valve access cover beneath the door, on the righthand side, near the front. The labels are affixed to metal sheets that are chained to the appliance and are never to be tampered with or removed. All important information for your appliance is on this label as well of the model specific serial number which you will need for warranty information.

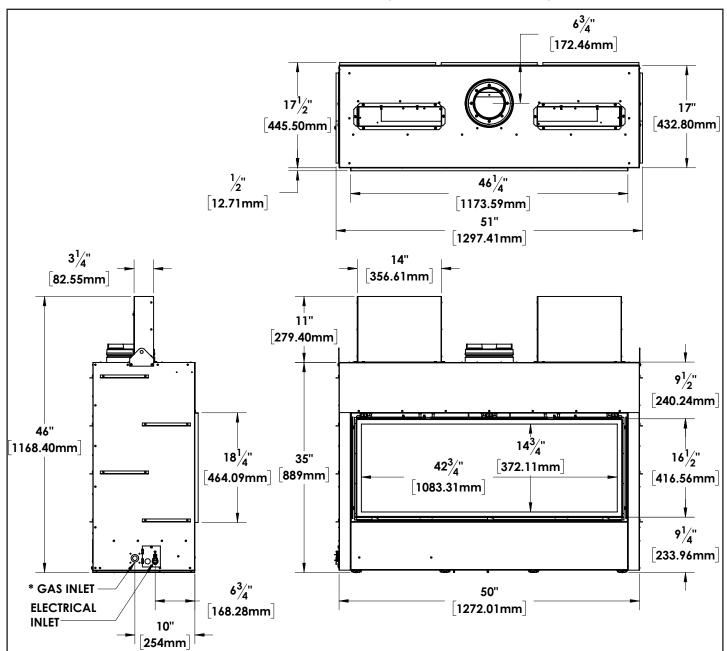


Fig. 1 Unit Dimensions

NOTE: TURNING ON YOUR APPLIANCE WHEN IT HAS BEEN OFF FOR A WHILE MAY CAUSE TEMPORARY CONDENSATION TO APPEAR ON THE GLASS. THIS IS A NORMAL OCCURRENCE AS YOUR APPLIANCE HEATS UP.

<sup>\*</sup> THERE IS AN OPTIONAL GAS INLET ON THE OPPOSITE SIDE OF THE APPLIANCE.

#### INTRODUCTION

# **MARNING**

THIS APPLIANCE SHALL BE INSTALLED BY A QUALIFIED SERVICE AGENCY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND ALL APPLICABLE CODES AND REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.

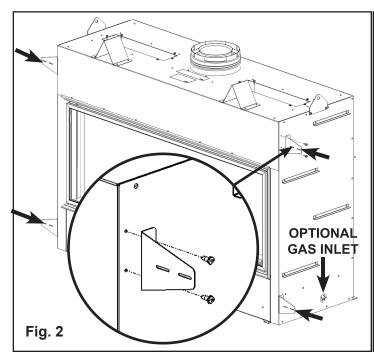
This section of the owner's manual is for the use of qualified technicians only. Gas connections, clearances to combustibles, minimum appliance dimensions, electrical systems, initial setup, and venting will be covered. Please read "SAFETY PRECAUTIONS" at the front of this manual.

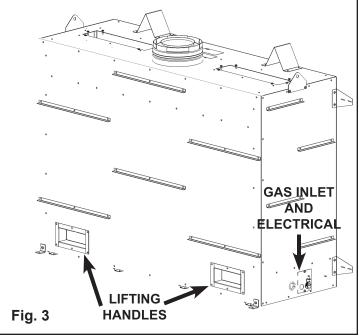
- This appliance needs fresh air for safe operation and must be installed so there are provisions for adequate ventilation air. Provide adequate clearance around air openings of the appliance. Never obstruct front openings.
- Provide adequate clearances for proper operation and servicing of the appliance.
- This appliance must be properly connected to a venting system.
- The venting of this appliance must be installed in a location that is free of plumbing, electrical wiring and heating or air conditioning ducts.
- Remove the crate from the appliance, replace any screws that were unfastened when brackets were removed. Check over the appliance to ensure there is no damage. If damage is found please report it to both the carrier and your dealer as soon as possible.
- Locate a position where the flue system of the appliance can be properly installed without damaging the integrity of the building; e.g. cutting a wall stud or ceiling joist.
- · Check appliance and flue system clearance requirements.
- Locate the appliance in a position so a gas supply line can be run to it.
- The appliance will need an electrical connection in order to operate.

#### INITIAL PREPARATION

Take some time to familiarize yourself with the appliance (Fig. 2, 3, & 4).

• Four nailing flanges are provided in the manual kit. Screw the four nailing flanges to the appliance as shown below. (Fig. 2)

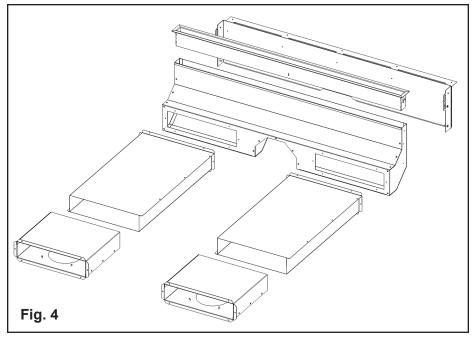




# **INITIAL INSTALLATION**

The heat distribution plenum venting comes pre-assembled in the crate to protect parts and to ensure proper fitment. Some disassembly is required before installation.

 Once the appliance is ready to go into the framing the plenum assembly can be separated into seven individual components, until then the assembly can be kept together to protect parts. Keep all hardware together. (Fig. 4)



# **GAS LINE CONNECTION**

The gas line can run to either side of the appliance. See previous page for gas inlet locations, see "**DIMENSIONS**" for exact location. Have your gas supplier or a qualified gas fitter run a gas supply line to the gas appliance. The line must be properly sized and fitted according to the installation codes with a manual shutoff ball valve. The inlet has a 3/4" female pipe thread. Before connecting the appliance to the gas supply line, double check that the appliance you have purchased is designed for the gas type you are using. The gas type markings are located on the certification label and also on the appliance's gas valve. Adequate clearance for proper installation and checking of the gas connections must be provided. All gas connections must be checked for gas leaks. **NEVER USE AN OPEN FLAME FOR LEAK TESTING.** 

# **MARNING**

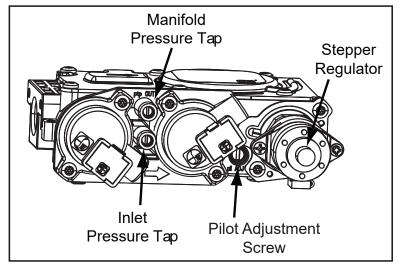
THE APPLIANCE AND ITS INDIVIDUAL SHUTOFF VALVE MUST BE DISCONNECTED FROM THE GAS SUPPLY PIPING SYSTEM DURING ANY PRESSURE-TESTING OF THAT SYSTEM AT TEST PRESSURES IN EXCESS OF 1/2 PSI (3.5 KPA). THE APPLIANCE MUST BE ISOLATED FROM THE GAS SUPPLY PIPING SYSTEM BY CLOSING ITS INDIVIDUAL MANUAL SHUTOFF VALVE DURING ANY PRESSURE-TESTING OF THE GAS SUPPLY PIPING SYSTEM AT TEST PRESSURES EQUAL TO OR LESS THAN 1/2 PSIG (3.5 KPA). FAILURE TO DO SO WILL DAMAGE THE APPLIANCE'S GAS VALVE. SUCH DAMAGE IS NOT COVERED BY THE MANUFACTURER'S WARRANTY.

• The location of pressure taps are shown in the valve diagram to the right. Check for proper gas supply pressure. Rotate the set screw 1 turn

counter clockwise to loosen.

 Place 5/16" (8 mm) I.D. hose over the pressure tap.

- Check pressures using a manometer. See "SPECIFICATIONS" for pressures and BTU information.
- The minimum permissible gas supply pressure is 7.0 in. w.c. (1.74 kPa) for natural gas and 13.0 in. w.c. (3.23 kPa) for propane. Maximum gas supply pressure should never exceed 14.0 in. w.c. (3.48 kPa) or 1/2 psi. for both natural gas and propane.



BE SURE TO TIGHTEN THE PRESSURE TAP SET SCREW AFTER CHECKING THE PRESSURE.

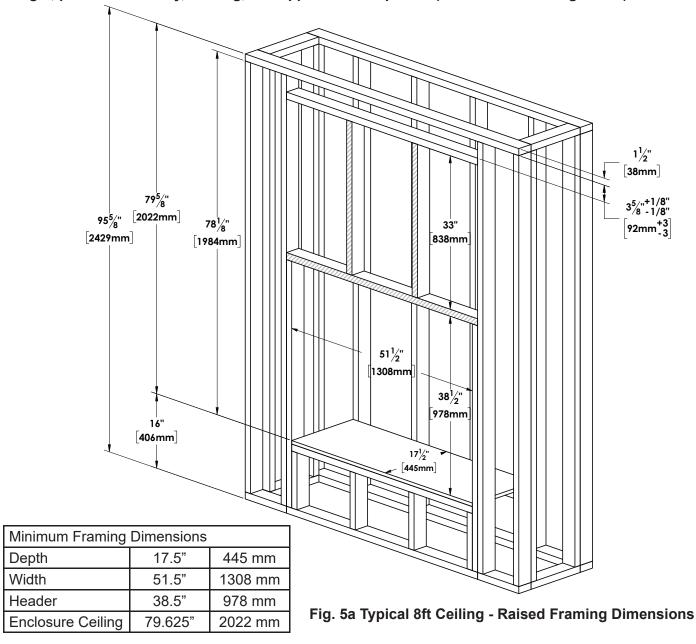
# INITIAL INSTALLATION

#### **CLEARANCES & NON-COMBUSTIBLE FACING**

As the heat distribution plenum comes standard with the CL4416, no non-combustible facing material is required around the firebox finishing flange. As well, drywall can be installed right up to the firebox and heat distribution plenum finishing flanges. The appliance trim frames can accommodate non-combustible facing material that is 1/2" (13 mm) to 1 1/4" (32 mm) thick.

# **PLACEMENT AND FRAMING**

The minimum appliance dimensions for this appliance are in the following diagrams and charts. **NOTE:** If possible, it is easier to install the framing between the appliance and the plenum after the plenum hanger, plenum assembly, venting, and appliance is in place. (see shaded framing below)



The appliance can be installed at floor level, raised above floor level, or a corner. Refer to the specific framing diagrams for each orientation. The basic rough openings should have the dimensions as shown in **Fig. 5a**. The appliance must have a strong level base to sit on and it should be made of wood or non-combustible material.

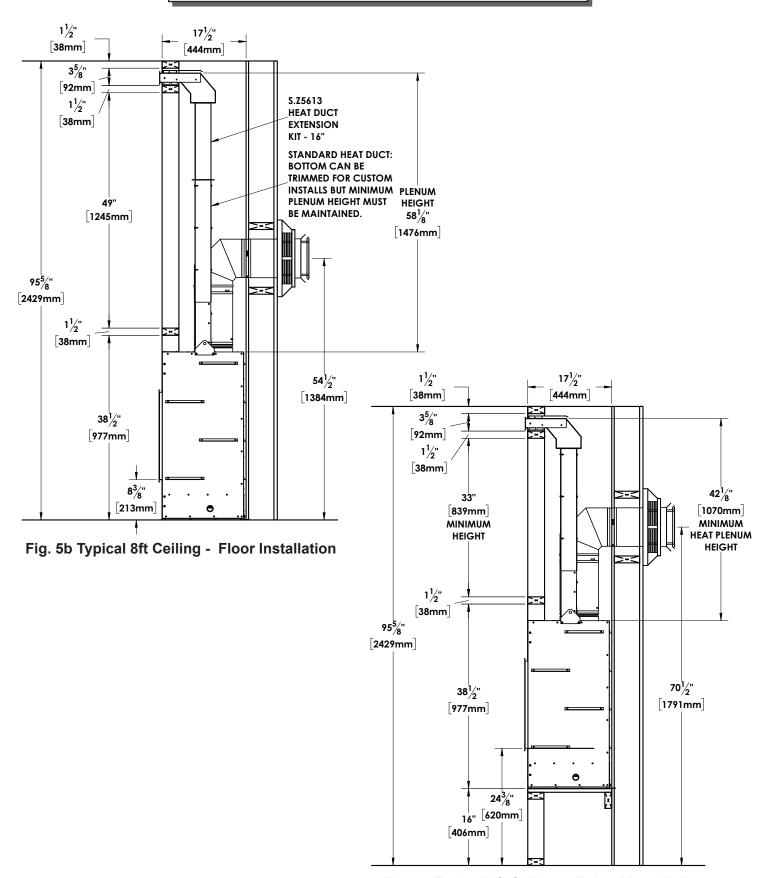
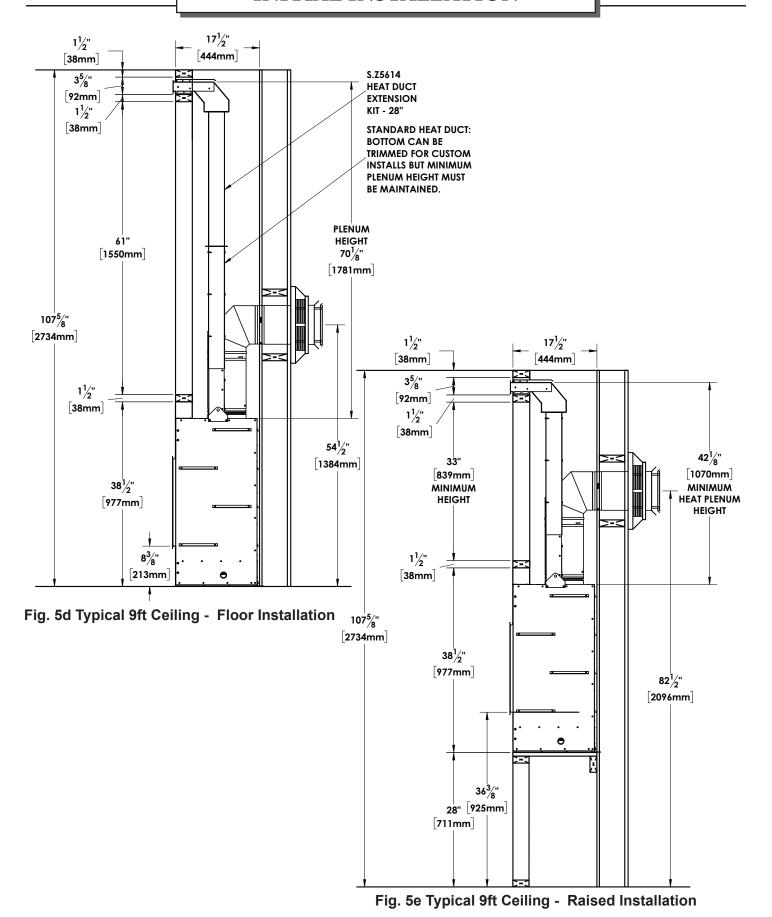


Fig. 5c Typical 8ft Ceiling - Raised Installation

# **INITIAL INSTALLATION**



# **VENT TERMINATION LOCATION**

- In heavy snowfall areas make sure vent termination is located where it will not be blocked by snowfall or snow from snow removal equipment.
- Locate vent termination away from plants, bushes, or any other object on or near the vent termination that will interfere or obstruct the air flow around it.

#### **VENT TERMINATION FRAMING**

Minimum venting is shown in Fig. 6. The framing height from the bottom of the appliance to the center of the wall thimble is 54 1/2" (1385 mm). Minimum venting must include a 12" (305 mm) vertical section a 90 degree elbow, and a 6" horizontal section, which is then terminated horizontally.

For vertical termination please follow the vent pipe manufacturer's installation instructions for vertical vent termination framing.

A minimum of 1" (25 mm) clearance on all sides of the vertical vent pipe must be maintained.

For every 12" (305 mm) of horizontal run there must be a 1/4" (6.4 mm) of rise.

1" (25 mm) of clearance between framing and venting must be maintained at all times. 3" (76 mm) above the venting and 3" (76 mm) above an elbow.

Please refer to vent cap clearances "VENT TERMINATION CLEARANCES", as well as local building and fire codes.

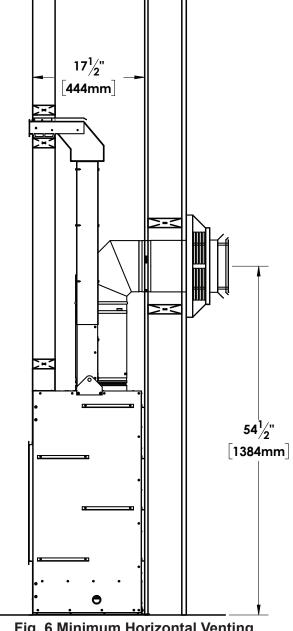


Fig. 6 Minimum Horizontal Venting

# **INITIAL INSTALLATION**

# **FLOOR PROTECTION**

This appliance may be installed on a combustible floor. If the appliance is to be installed directly on carpeting, tile, or other combustible materials other than wood flooring, then a metal or wood panel extending the full width and depth of the appliance must be installed.

Rasied installations: A solid, continuous platform must be constructed below the appliance which is at least 51 1/2" (1308 mm) wide x 17.5" (445 mm) deep.

# MINIMUM MANTEL AND CEILING / ALCOVE REQUIREMENTS

If installing a mantel above the appliance then note the minimum dimensions that were determined during certification and testing. **Fig. 7** shows minimum distances from the top finishing edge flange and bottom of the appliance to a 12" max. combustible mantel. If you are installing a TV above the appliance refer to "TV INSTALLATION AND TV RECESS"

Also note minimum height from the bottom of the unit to ceiling or alcove.

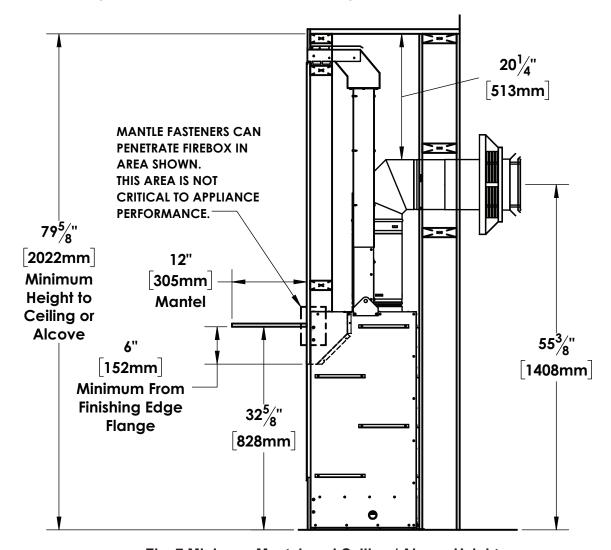


Fig. 7 Minimum Mantel and Ceiling / Alcove Heights

# **CORNER INSTALLATION**

Shown below are the minimum clearances in **Fig. 8**. Do not interfere with the structural integrity of wall construction.

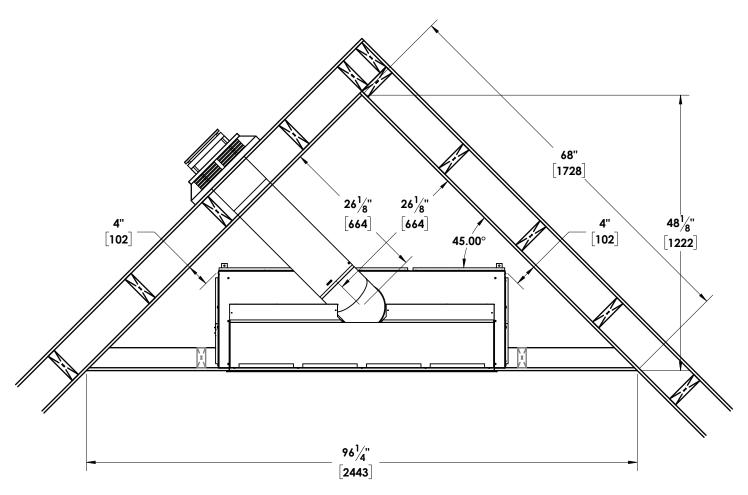


Fig. 8 Dimensions for a Corner Installation

# **FLEX VENTING**

This appliance is certified to work with aluminum co-axial flex venting; figure out your venting configuration to determine which option is correct for your particular setup, see "APPROVED CO-AXIAL VENT CONFIGURATIONS". WARNING: Adhere to all rigid venting safety measures and clearances.

Note: Flex venting can be used for any configuration that rigid is approved for.

# **Important Information:**

- -Do not bend horizontal vent over 90 degrees.
- -All horizontal runs should have a minimum 1/4" (6.4 mm) rise per foot for optimal performance.
- -Do not allow the inner flex pipe to contact the outer pipe, keep it pulled tight.
- -Do not add any extensions to the preset kits, if more length is required, use rigid pipe.
- -No need for liquid sealant; secure flex venting with aluminum vent tape and apply sufficient selftapping screws.

# Approved flex venting options:

5X8 Duravent 4ft length [58DVA-48FF]:

Flexible solution to an otherwise rigid vent run (DuraVent Pro systems ONLY, order through dealer).

5X8 Duravent 10ft length [58DVA-120FF]: Flexible solution to an otherwise rigid vent run (DuraVent Pro systems ONLY, order through dealer)

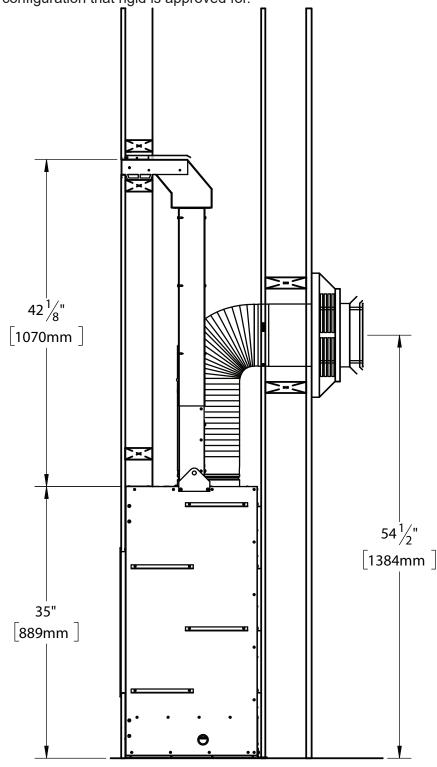


Fig. 9 Flex Venting Installation

# TV INSTALLATION AND TV RECESS

If mounting a TV above the appliance some considerations must be made to ensure it is protected from the heat. Make sure there is 2" (51 mm) of clearance around the sides and top of the TV to allow for airflow. A mantel extending 2 1/2" (64 mm) past the front of the TV screen is the best option for heat reduction (see "MANTEL REQUIREMENTS", a minimum 8" (204 mm) mantel is recommended), or maintain the clearance from the finishing edge (Fig. 10), a recess can also be built into the framing to house the TV. (Fig. 11)

**During testing the temperatures did not exceed 150°F (65°C) on the bottom edge of the TV.** There is no guarantee that these temperatures will not harm the longevity of your TV. Make sure to consult your TV manufacture's specifications to find the maximum allowable operating temperature. Since every home and installation is unique, temperatures should be verified at the time of install if possible. A TV should not be installed if temperatures exceed the manufacturers maximum allowable temperature.

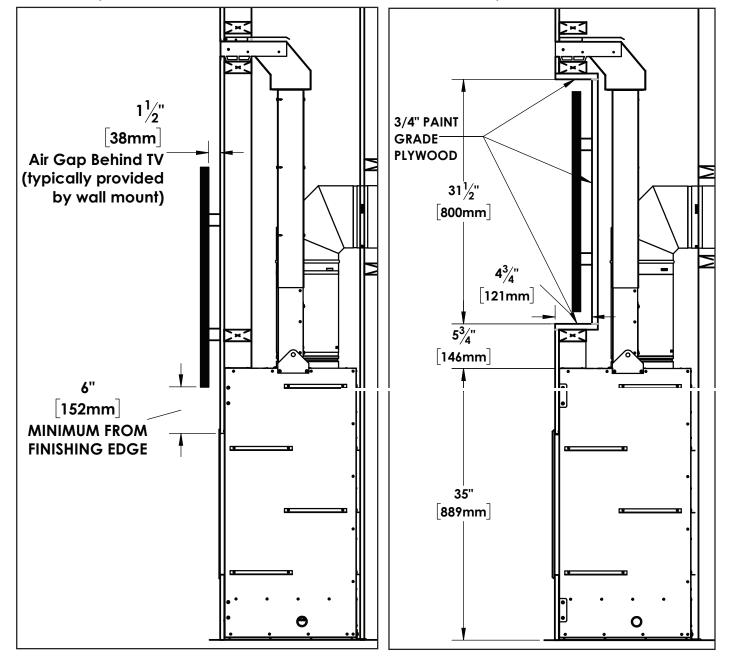
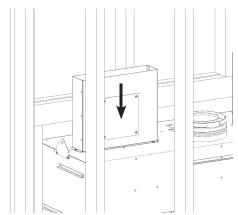


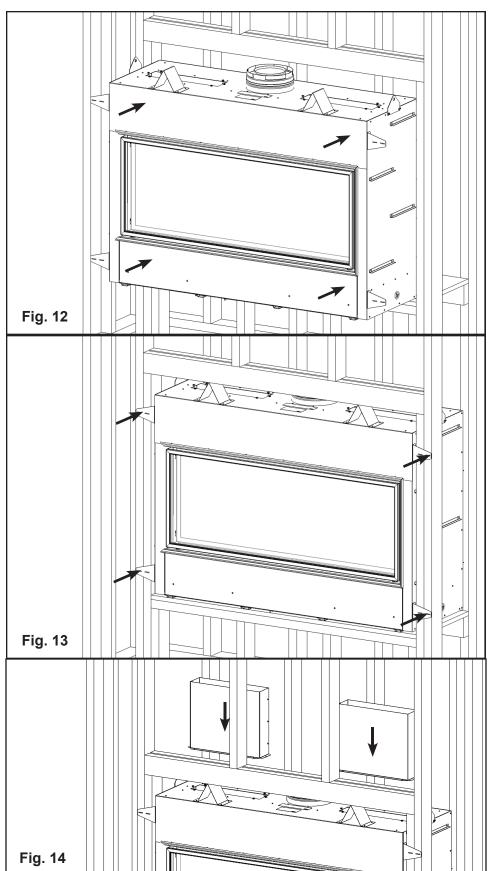
Fig. 10 TV Installation

Fig. 11 TV Installation with Recess

# **APPLIANCE INSTALLATION**

- 1. Slide the appliance into the framing. (**Fig. 12**)
- 2. Secure the appliance to the framing using the four nailing flanges (hardware not provided). (Fig. 13)
- 3. Secure the two plenum ducts to the appliance using 12 screws (from manual kit). (**Fig. 14**) Ensure square exhaust panels face the rear, see image below.

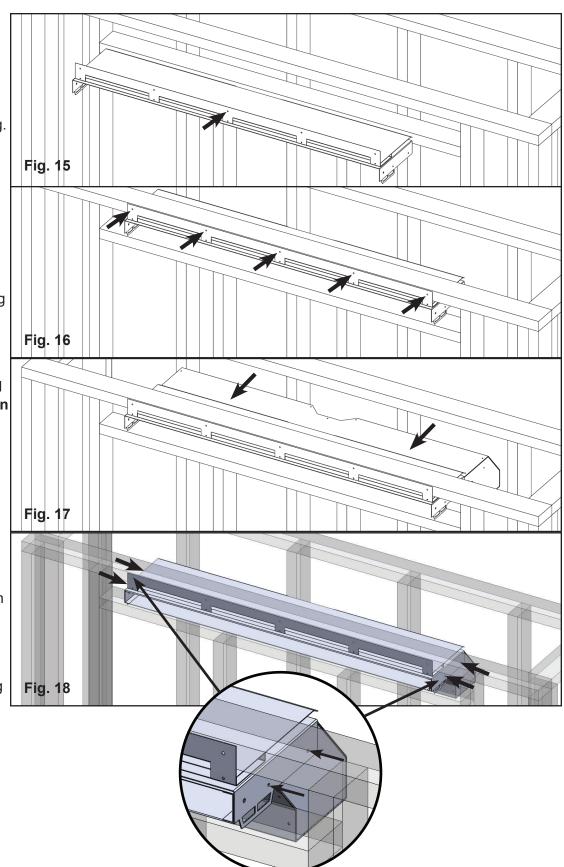




# HEAT PLENUM INSTALLATION

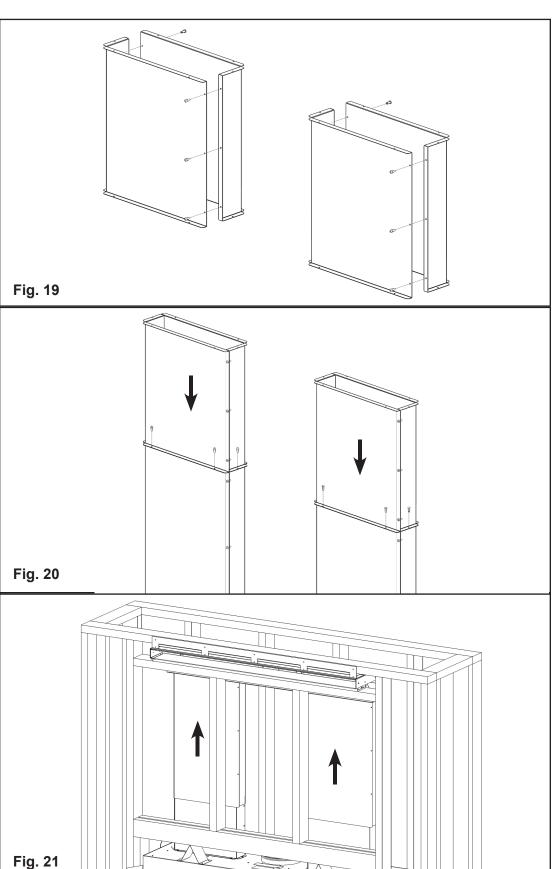
If the plenum assembly has not being disassembled for installation then see Fig. 4 before proceeding.

- 1. Slide the plenum hanger into the framing, use the middle hole to align the hanger to the center. (Fig. 15)
- Nail the plenum hanger to the framing (5 framing nails / not supplied). (Fig. 16)
- 3. NOTE: If possible, it is easier to install the framing between the appliance and the plenum after the plenum hanger, plenum assembly, venting, and appliance is in place. Slide the plenum assembly in from behind until the front edges are flush with the plenum hanger. (Fig. 17)
- 4. Secure the plenum assembly to the plenum hanger using two screws per side. (Fig. 18)



# **INITIAL INSTALLATION**

- 5. If adding additional Heat Duct Extension Kits S.Z5613 and/or S.Z5614, then do the following otherwise go to step 7.
  Screw the extension ducts together using screws supplied with the kit (12 screws).
  (Fig. 19)
- 6. Screw the extension duct assemblies to the appliance plenum ducts using screws supplied with the kit (12 screws). (Fig. 20)
- 7. Slide plenum ducts over appliance ducts, slide up to plenum assembly, screw to plenum assembly using screws supplied with the appliance (12 screws). (Fig. 21)



#### **DIRECT VENT**

# **MARNING**

THIS APPLIANCE HAS BEEN DESIGNED TO DRAW ROOM AIR AND DISCHARGE HEATED AIR FROM THE OPENINGS AROUND THE FINISHING EDGE. BLOCKING OR MODIFYING THESE OPENINGS IN ANY WAY CAN CREATE HAZARDOUS SITUATIONS. ONLY APPROVED DIRECT VENT MAY BE USED FOR INSTALLATION OF THIS APPLIANCE.

The minimum vent installation for this appliance must include a 12" vertical section and 90° elbow before being horizontally vented. Maximum vertical venting is 40' (12.2 m). This appliance is vented with co-axial (5" exhaust, 8" intake) aluminum or stainless steel approved rigid vent leading into a vertical or horizontal termination cap. The flue collar of this model will fit inside of a standard 5"x 8" vent and must be either correctly interlocked or fastened with three screws directly to the vent collar.

Check periodically that the vents are unrestricted. Also ensure that all direct vent pipes have been properly sealed and installed after routine inspection or cleaning. The air intake and exhaust pipes must be installed in the correct locations on the top of the appliance.

# **VENTING CLEARANCES**

A 1" (25 mm) clearance to combustibles must be maintained around any vertical vent pipe. Around a horizontal vent pipe, the clearance to combustibles should be 3" (76 mm) above and 1" (25 mm) on the sides and bottom. When combustible materials are directly above a 90° elbow, 3" (76 mm) of clearance is necessary.

	Vent Pipe Minimum Clearances					
Vertical Pipe to the Side Walls Horizontal Pipe to the Side Side Walls Horizontal Pipe to the Sides & Bottom Above the Unit Above the Unit Above the Unit Vent Pipe (203mm) or less						
Hard Pipe	1" (25.4 mm)	1" (25.4 mm)	3" (76.2 mm)	3" (76.2 mm)	3" (76.2 mm)	Thimble Specific

See certified thimbles in venting section and frame accordingly (**Fig. 22**). This will assure the proper support and spacing for the vent pipe as it passes through the wall. Installations in Canada require that a wall thimble be used for passing through walls and ceilings. All sealing and vapour barriers must comply with local building codes.

The configuration of the venting pipes depends on the locations of walls, ceilings, and studs. However, the pipes cannot be of arbitrary length and arrangement. Because the length of the vertical and horizontal sections dramatically affects the burning efficiency of the appliance, certain guidelines have been set in Initial Installation - "ALLOWABLE CO-AXIAL VENT CONFIGURATIONS". Venting terminations can not be recessed into a wall or siding.

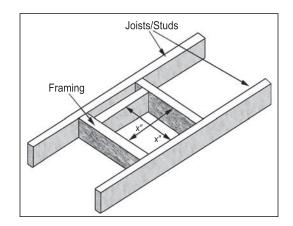


Fig. 22 Vent Framing for Wall or Ceiling

# **MARNING**

THIS GAS APPLIANCE MUST NOT BE CONNECTED TO A CHIMNEY FLUE SERVING A SEPARATE SOLID-BURNING APPLIANCES.

#### **VENT TERMINATION RESTRICTIONS**

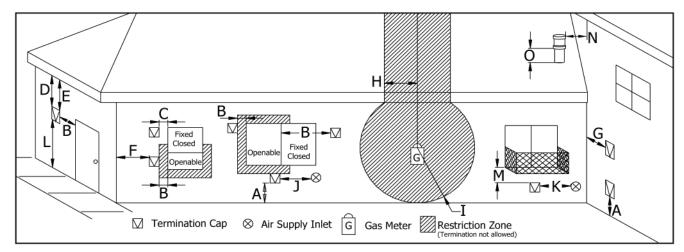


Fig. 23 Vent Termination Restrictions, refer to Table 1

**Table 1 Vent Termination Clearances** 

Letter	Canadian Installation <sup>1</sup>	US Installation <sup>2</sup>	Description
Α	12 in (30 cm)		Clearance above grade, verandah, porch, deck, or balcony.
В	12 in (30 cm)	9 in (23 cm)	Clearance from window or door that may be opened.
С	12 in (.	30 cm)*	Clearance from permanently closed window (to prevent condensation).
D	24 in (60 cm)*		Vertical clearance to ventilated soffit located above the terminal, within a horizontal distance of 2 ft (60 cm) from center line of terminal.
Е	12 in (30.5 cm	) to 24" (61 cm)	Clearance to unventilated soffit.
F	12 in (	30 cm)*	Clearance to outside corner.
G	12 in (	30 cm)*	Clearance to inside corner.
Н	3 ft (91 cm) within a height of 15 ft (4.5 m) above the meter/ regulator assembly	3 ft (91 cm) within a height of 15 ft (4.5 m) above the meter/ regulator assembly*	Clearance to each side of center line extended above meter/regulator assembly.
I	3 ft (91 cm)	3 ft (91 cm)*	Radial clearance around service regulator vent outlet.
J	12 in (30 cm)	9 in (23 cm)	Clearance to non-mechanical air supply inlet to building, or the combustion air inlet to any other appliance.
К	6 ft (1.83 m)	3 ft (91 cm) above if within 10 ft (3 m) horizontally	Clearance to mechanical air supply inlet.
L	7 ft (2.13 m <sup>)t</sup>	7 ft (2.13 m) <sup>*t</sup>	Clearance above paved sidewalk or paved driveway located on public property.
М	12 in / 30 cm <sup>+</sup>	12 in / 30 cm* <sup>+</sup>	Clearance under verandah, porch, deck, or balcony.
N	12 in (30 cm)*		Clearance horizontally to any surface (such as an exterior wall) for vertical terminations.
0	12 in (30 cm)		Clearance above roof line for vertical terminations.

 $<sup>^1</sup>$  In accordance with the current CSA B149, Natural Gas and Propane Installation Code.  $^2$  In accordance with the current ANSI Z223.1 NFPA 54, National Fuel Gas Code.

Clearances are in accordance with local installation codes and the requirements of the gas supplier.

# NOTE: Venting terminals shall not be recessed into walls or siding.

<sup>\*</sup> These numbers are only estimates.

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

Permitted only if verandah, porch, deck, or balcony is fully open on a minimum of two sides beneath the floor.

# **APPROVED VENTING PARTS**

The appliance has been tested and certified for use with M&G DuraVent DirectVent Pro, ICC EXCELDirect, Selkirk Direct-Temp, Amerivent AMP DV, and Olympia Ventis DV venting systems. Refer to the table below for part numbers of commonly used parts for both venting systems. For more venting parts please visit the respective manufacturers' websites. **DO NOT MIX PARTS FROM DIFFERENT VENT MANUFACTURERS' SYSTEMS** 

Table 2: Vent Part Numbers (specify galvanized or black)					
M&G Dura-Vent DirectVent Pro	ICC EXCELDirect	Selkirk Direct-Temp	Amerivent AMP DV	Olympia Ventis DV	5" - 8" DESCRIPTION
58DVA-06	5DL6	5DT-06		VDV-0506	6" pipe length
	$\bigvee$	$\bigvee$	5D7	$\searrow$	7" pipe length
58DVA-09	5DL9	5DT-09	$\searrow \searrow$	VDV-0509	9" pipe length
58DVA-12	5DL1	5DT-12	5D2	VDV-0512	12" pipe length
58DVA-18	$\mathbb{N}$	5DT-18	$\searrow \searrow$	VDV-0518	18" pipe length
58DVA-24	5DL2	5DT-24	$\searrow$	VDV-0524	24" pipe length
58DVA-36	5DL3	5DT-36	5D3	VDV-0536	36" pipe length
58DVA-48	5DL4	5DT-48	5D4	VDV-0548	48" pipe length
58DVA-60	$\mathbb{N}$	$\bigg \backslash \bigg \backslash$	$\searrow \searrow$	$\searrow$	60" pipe length
58DVA-E30	$\bigvee$	$\bigvee$	$\searrow$	$\searrow$	30° elbow
58DVA-E45	5DE45	5DT-EL45	5D45L	VDV-EL0545	45° elbow
58DVA-E60					
58DVA-E90	5DE90	5DT-EL90	5D90L	VDV-EL0590	90° elbow
58DVA-VSS, DVA-BVS	VSS	5DT-VS. VSK	5DHVS, DVSK	VDV-SSO5	Vinyl siding standoff/sheild
58DVA-WT. 58DVA-WTU	5WT	5DT-WT	5DWT	VDV-WPT05	Wall thimble
58DVA-SC	SQSC, SC	5DT-SC	5DSC	VDV-SC05	Storm collar
58DVA-WFS	$\bigg \backslash \! \bigg \backslash$	5DT-FS		VDV-FS05	Wall Fire stop
58DVA-FS	5CS	5DT-FS	5DFSP	VDV-FS05	Ceiling Fire stop
58DVA-IS	5AS	5DT-AIS	5DAIS12, AIS36	VDV-AIS05	Attic Insulation Shield
58DVA-WS	5WS	5DT-WS/B	5DWS	VDV-WS05	Wall strap/support/band
58DVA-HC	5HT	5DT-HC	5DHCS	VDV-HC05	Square Horizontal Cap
58DVA-VCH	5SVT	5DT-VT	5DVC	VDV-VCH05	High wind vertical termination
58DVA-17TA	$\bigg \backslash \bigg \backslash$	$\bigvee$		$\bigvee \!$	11" to 17" pipe, adjustable
58DVA-24TA	$ \bigvee $	$\bigvee$		$\searrow \searrow$	17" to 24" pipe, adjustable
	5DLA30	$\nearrow \nearrow$		>>	16.5" to 29" pipe , adjustable
	5DLS1	$\nearrow \nearrow$		>>	1 7/8" to 9" slip length pipe
	5DLS2	$\nearrow$		>>	1 7/8" to 21" slip length pipe
58DVA-F6	6EFA	5DT-AF6	5DF	VDV-F0506	Flashing, 0/12 to 6/12 roof pitch
58DVA-F12	6EFB	5DT-AF12	5DF12	VDV-F0512	Flashing, 7/12 to 12/12 roof pitch
58DVA-FF	6EF	$\bigvee$		VDV-F05F	Flat Roof Flashings
58DVA-CFK	4MF	>>		>>	Masonary Flashing

#### **ALLOWABLE CO-AXIAL CONFIGURATIONS**

The figure below shows the range of venting options using either vertical or horizontal terminations; any layout that remains within the shaded area is acceptable. Having the fewest number of elbows is ideal as they tend

to restrict air flow. The total length of horizontal vent pipe can not exceed 20ft (6.1 m) and the total vent length can not exceed 40ft (12.2 m). Any combination of rise and run can be used as long as it lays within the shaded area (a total of two (2) 90° elbows or four (4) 45° elbows can be used. In addition to what is shown, if a 90° elbow is used in the horizontal plane, 3ft (91.5 cm) must be subtracted from the allowable horizontal run (for each 45° elbow, 1½ft (45.8 cm) must be subtracted).

Note: The appliance has two sliding restrictor plates with a guide gauge on either side of the flue. The restrictor plates can be slid towards the flue to restrict exhaust, or away from the flue to open exhaust, depending on the vent configuration. This must be adjusted in order to achieve proper efficiency and flame appearence. For flame appearence, pin point on the graph where your vent configuration will lay. Remember to consider that elbows in the HORIZONTAL plane account for horizontal distance as stated above. Use the corresponding exhaust restrictor plate setting accorinding to the graph. See the following section "EXHAUST RESTRICTOR SETTING" on the next page for installation details. Your climate and altitude may alter what restriction is required for your particular

If your flame is low, flickery, and more blue than yellow, move the restrictor plates towards the flue to reduce air flow. If your flame is tall, thin, and lazy, slide the restrictor plates away from the flue to increase air flow. Use your judgement after the appliance has been running for about 20 minutes.

application.

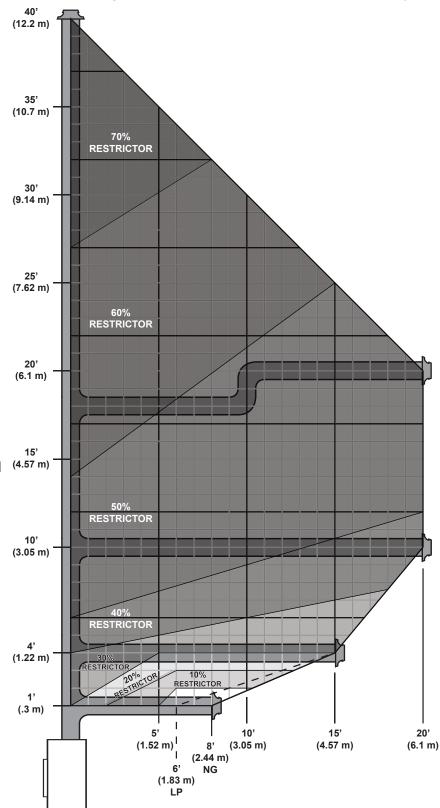


Fig. 24 Venting Graph

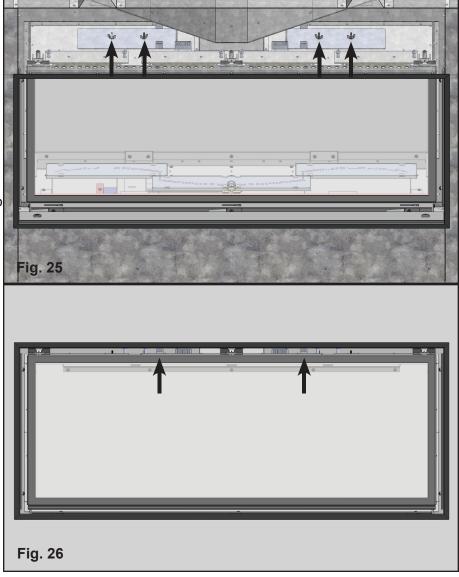
# **EXHAUST RESTRICTOR SETTING**

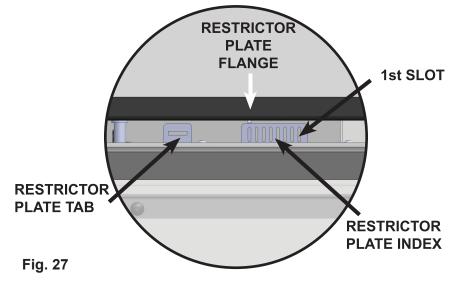
When installing this appliance it may be necessary to adjust the restrictor in the firebox to control the combustion and flame appearance. The appliance factory setting is the 1st slot (0%) as shown in **Fig. 27**.

- Remove the safety screen as shown in "SAFETY SCREEN REMOVAL / INSTALLATION"
- There are two restrictor plates on top of the firebox, one on either side of the exhaust stack. Loosen the four wing nuts just enough so that the plates can slide. See transparent appliance picture in Fig. 25.
- Use a screwdriver in the slot of the restrictor plate tab to slide the restrictor plate open or closed. (Fig. 26 & 27)
- 4. Moving the restrictor plate on each side one open slot at a time on the restrictor plate index closes off 10% of the exhaust. (Fig. 27):

= 0% 1st 2nd = 10% 3rd = 20% 4th = 30% = 40% 5th 6th = 50% 7th = 60% 8th = 70%

Once the desired flame is achieved, tighten the wing nuts to hold the restrictor plates in position.





#### HORIZONTAL TERMINATION

NOTE: Any wall or ceiling penetrations shall follow building code and or pipe manufactures requirements for insulation and vapor barrier installation.

- A MINIMUM OF 12" [305 mm]
   VERTICAL RISE PLUS AN
   ELBOW IS REQUIRED WHEN
   HORIZONTALLY TERMINATING
   WITH AN APPROVED VENT CAP.
- HorizontaL vent pipes must not be level. For every 12" (305 mm) of horizontal travel (away from the appliance), there should be at least ¼" (6.4 mm) of vertical rise. Never allow the vent pipe to run downward, as this could cause high temperatures or even present the possibility of a fire.
- The exterior of the horizontal vent termination must not be blocked or obstructed.
- If the vent termination is not being attached to wood, the four wood screws provided should be replaced with material specific fasteners.

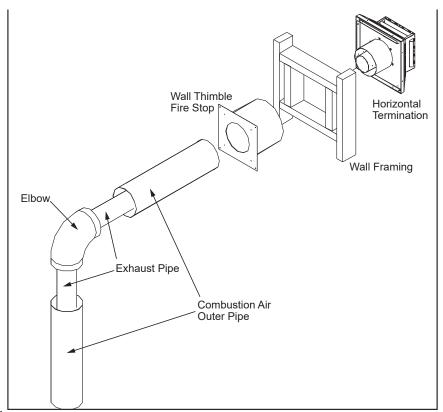


Fig. 28 Horizontal Vent Termination

- For buildings with vinyl siding, a vinyl standoff should be installed between the vent cap and the exterior wall. Attach the vinyl siding standoff to the horizontal termination. Note that the termination bolts onto the flat portion of the standoff, providing an air space between the wall and the vent termination. The air gap prevents excessive heat from possibly melting the vinyl siding.
- Horizontal vent pipes must be supported every 3ft (914 mm). Plumber's all round strap will suffice.
- When running horizontal vent pipe, clearances to combustibles must be maintained 1" (25 mm) sides, 1" (25 mm) bottom, and 3" (76 mm) top.
- 1. Set the appliance in the desired location. Check to determine if wall studs will be in the way when the venting system is attached. If this is the case, the location of the appliance may have to be adjusted or the venting may have to be offset.
- 2. Direct vent pipe sections are designed with special twist-lock connections. Dry fit the desired combination of pipe and elbows to the appliance adaptor.
- 3. With the vent pipe in the correct position and attached to the appliance, mark the wall for a hole as directed by specified wall thimble dimensions. Cut and frame the hole in the exterior wall where the vent pipe will be terminated. If the wall being penetrated is made of a non-combustible material (i.e. masonry or concrete) a 8 1/2" (21.6 cm) hole is acceptable.

# **INITIAL INSTALLATION**

- 4. With the hole now framed, the wall thimble installed, and the vent pipe extending into the wall, proceed to the outside. Attach the termination to the vent pipe using RTV and Mil-Pac or Rutland No 78 Stove and Gasket Cement to seal joints. The vent pipe must extend into the vent cap at least 1¼ inches (3.2 cm). Secure the connection between the vent cap and the vent pipe by attaching the two (2) sheet metal straps, which extend from the vent cap assembly to the outer wall of the vent pipe. Bend any remaining portion of the strap back towards the vent cap. Security Secure Vent uses a twist lock cap.
- 5. Position the horizontal vent termination in the center of the 10" (25.4 cm) square hole and attach to the exterior wall with the four screws provided. The arrow on the vent termination should be pointing up. Run a bead of non-hardening mastic around the edges of the vent cap, to make a seal with the wall. Ensure the proper clearances to combustibles have been maintained.

#### **VERTICAL TERMINATION**

NOTE: Any wall or ceiling penetrations shall follow building code and or pipe manufactures requirements for insulation and vapor barrier installation.

- 1. Check the instructions for required clearances (air spaces) to combustibles when passing through ceilings, walls, roofs, enclosures, attic rafters, or other nearby combustible surfaces.
- 2. Set the appliance in the desired location. Drop a plumb bob down from the ceiling to the position of the appliance flue exit and mark the location where the vent will penetrate the ceiling. Drill a small hole at this point. Next, drop a plumb bob from the roof to the hole previously drilled in the ceiling, mark the spot where the vent will penetrate the roof. Determine if ceiling joists, roof rafters, or other framing will obstruct the venting system. You may wish to relocate the appliance, or to offset, to avoid cutting load bearing members.
- 3. To install the Round Support Box/Wall Thimble in a flat ceiling, cut a 10" (25.4 cm) square hole in the ceiling, centered in the hole drilled in Step 2. Frame the hole as shown in **Fig. 20**.
- 4. Assemble the desired lengths of vent pipe and elbows necessary to reach from the appliance adapter up through the Round Support Box. Insure that all vent pipe and elbow connections are in their fully twist-locked position.
- Cut a hole in the roof centered on the small hole placed in the roof from Step
   The hole should be of sufficient size to meet minimum requirements for "CLEARANCE TO COMBUSTIBLES", as specified. Continue to assemble lengths of vent pipe and elbows

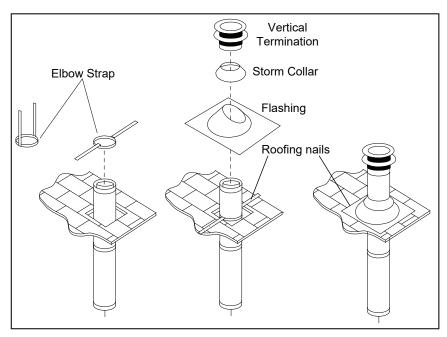


Fig. 29 Vertical Vent Termination

necessary to reach from the ceiling support box up through the roof line. Galvanized vent pipe and elbows may be utilized in the attic, as well as above the roof line. The galvanized finish is desirable above the roof line, due to its higher corrosion resistance.

# **INITIAL INSTALLATION**

- 6. Once the vent pipe sections have been joined and extended up through the hole in the roof, slip an elbow strap over the exposed sections, bend the support straps outwards, and push the elbow strap down to the roof level, as shown in **Fig. 27**. Tighten the clamp around the pipe section. Use a level to make sure the pipe is truly vertical. With roofing nails, secure the support straps to the roof. Seal the nails holes heads with non-hardening mastic. Trim the excess length of the support straps that extend out beyond the edge of the flashing.
- 7. Slip the flashing over the pipe section protruding through the roof. Secure the base of the flashing to the roof with roofing nails. Use a non-hardening sealant between the uphill edge of the flashing and the roof. Insure the roofing material overlaps the top edge of the flashing. Verify that you have at least the minimum clearance to combustibles at the roof line.
- 8. Continue to add vent pipe sections until the height of the vent cap meets the minimum code requirements. Refer to **Fig. 28** and **Table 3**. Note that for steep roof pitches, the vent height must be increased. High wind conditions, nearby trees, adjoining roof lines, steep pitched roofs, and other similar factors can result in poor draft or down drafting. In these cases, increasing the vent height may solve the problem.
- 9. Slip the storm collar over the pipe, and push it down to the top of the roof flashing as shown in **Fig. 27**. Use the non-hardening sealant around the joint between the pipe and the storm collar.
- 10. Twist-lock the vent cap.

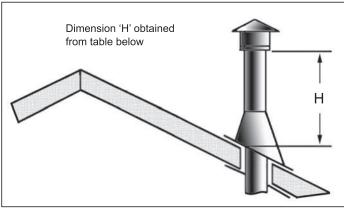
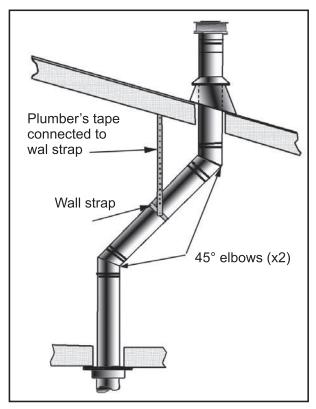


Fig. 28 Height of Vertical Termination; Reference Table 3

Table 3: Minimum "H" for Fig. 67

Roof Pitch	Minimum	Height (H)
ROOI PILCII	Feet	Meters
Flat to 7/12	1	0.3
Over 7/12 to 8/12	1.5	0.46
Over 8/12 to 9/12	2	0.61
Over 9/12 to 10/12	2.5	0.76
Over 10/12 to 11/12	3.25	0.99
Over 11/12 to 12/12	4	1.22
Over 12/12 to 14/12	5	1.52
Over 14/12 to 16/12	6	1.83
Over 16/12 to 18/12	7	2.13
Over 18/12 to 20/12	7.5	2.29
Over 20/12 to 21/12	8	2.44



# Fig. 31 Use of Wall Straps

4. Any occupied areas above the first floor, including closets and storage spaces, which the vertical vent passes through must be enclosed. The enclosure may be framed and sheet-rocked with standard building materials. However, consult the appliance manufactures installation instructions for the minimum allowable clearance between the outside of the vent pipe, and the combustible surfaces of the enclosure. Do not fill any required air spaces with insulation.

#### **NOTES:**

- 1. If an offset is necessary in the attic to avoid obstructions, it is important to support the vent pipe every 3' (914 mm) to avoid excessive stress on the elbows, and possible separation. Wall straps are available for this purpose (**Fig. 31**).
- 2. When ever possible, use 45° degree elbows instead of 90° degree elbows. The 45° degree elbow offers less restriction to the flow of flue gases and intake air.
- 3. For multi story installations; a ceiling firestop is required at the second floor and any subsequent floors (**Fig. 32**). The opening should be framed to 10" (254 mm) x 10" (254 mm) inside dimensions, in the same manner as shown in **Fig. 22**.

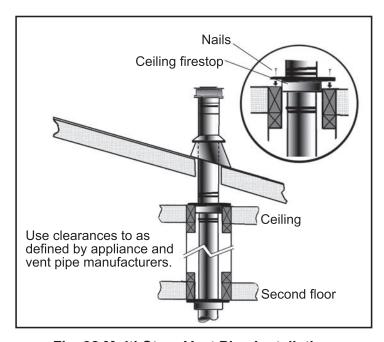


Fig. 32 Multi-Story Vent Pipe Installation

# **ELECTRICAL REQUIREMENTS**

The appliance must be electrically connected and grounded in accordance with local codes or, in the absence of local codes, with the current CSA C22.1 Canadian Electrical Code Part 1, Safety Standards For Electrical Installations, or The National Electrical Code ANSI / NFPA 70 in the US.

# **MARNING**

### **ELECTRICAL GROUNDING INSTRUCTIONS**

THIS APPLIANCE IS EQUIPPED WITH A GROUND SCREW FOR YOUR PROTECTION AGAINST SHOCK HAZARD. ENSURE PROPER GROUNDED WIRING IS SUPPLIED AND CONNECTED TO THIS APPLIANCE.

LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS. WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION.

VERIFY PROPER OPERATION AFTER SERVICING.

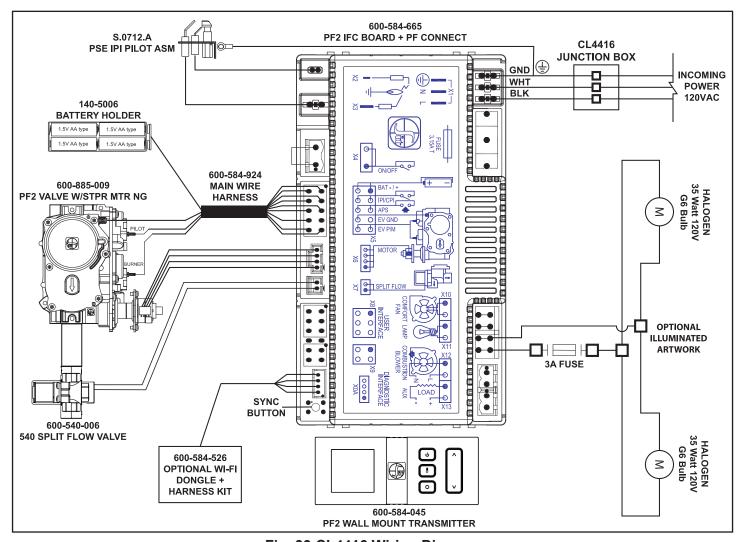


Fig. 33 CL4416 Wiring Diagram

This appliance needs a hardwired power connection in order for the unit to operate. There is also a battery pack that requires four AA batteries in the event of a loss of power.

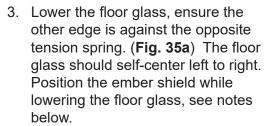
# ALL ELECTRICAL CONNECTIONS MUST BE MADE BY A CERTIFIED ELECTRICIAN.

The electrical cover and box is at the bottom left hand side of the appliance, see "**DIMENSIONS**" for exact location. The power wire connection is to be made inside the electrical box. There is a strain relief on the outside of the appliance to secure the wiring in place. Unscrew the two screws securing the electrical cover to the appliance. Feed the supply line through the straing relief until there is at least 6" (153 mm) exposed then tighten the strain relief. Connect the wires as shown in **Fig.61**, strip the solid copper wires on the supply line to 3/8" (10 mm), push wires straight into the push wire connectors, no twisting is required.

NOTE: PUSH WIRE CONNECTORS CAN BE DISCONNECTED BY HOLDING THE WIRE FIRMLY WITH PLIERS, THEN PULL STRAIGHT OUT WITH A TWISTING MOTION

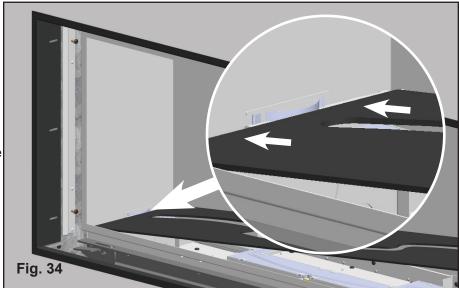
#### FLOOR GLASS INSTALLATION

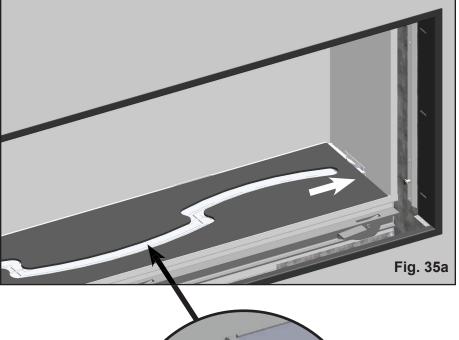
- Unpack the floor glass. Handle the floor glass by the edges to prevent smudges, wear clean vinyl gloves if possible.
- Position the floor glass into the firebox at an angle, shiny side up, with the center burner curve in front. Slide one end tight against the tension spring. (Fig. 34)

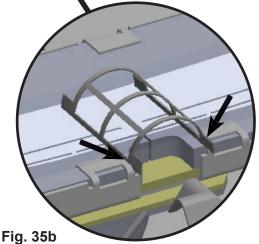


IMPORTANT: An ember shield is included in the manual kit for this appliance. DO NOT OPERATE THIS APPLIANCE WITHOUT THE EMBER SHIELD IN PLACE. The ember shield protects the pilot flame.

There should be no media embers in this protected pilot area. Flex the ember shield until it fits snuggly between the two burner tabs. (**Fig. 35b**) The ember shield sits on the front center burner and is centered by the front burner curve between the glass edges.

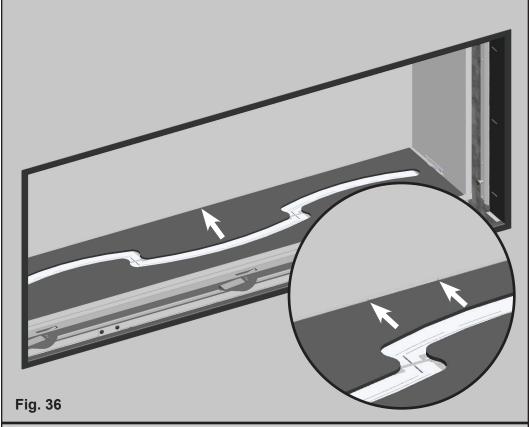






4. Push the floor glass against the stops on the two rear floor glass support brackets. (Fig. 36)

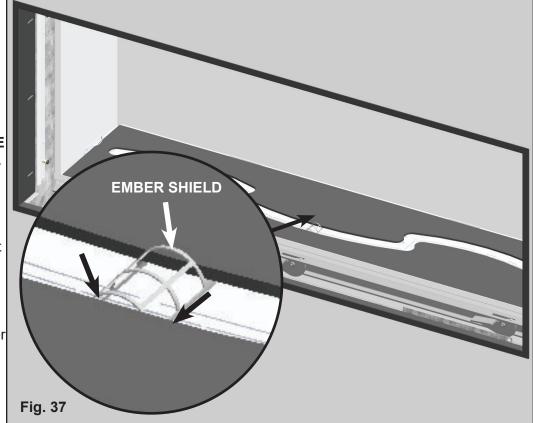
The ceramic floor glass should now be centered in the firebox with an equal gap on either end, and tight against the stops on the two rear glass support brackets.



# EMBER SHIELD INSTALLATION

IMPORTANT: An ember shield is included in the manual kit for this appliance.
DO NOT OPERATE THE APPLIANCE WITHOUT THE EMBER SHIELD IN PLACE. The ember shield protects the pilot flame.

There should be no media embers in this protected pilot area. Flex the ember shield until it fits snuggly between the two burner tabs. (Fig. 35b & 37) The ember shield sits on the front center burner between the glass edges.



# SECONDARY INSTALLATION

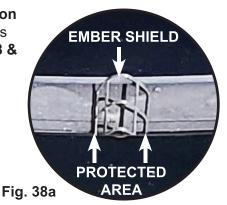
#### **EMBER MEDIA INSTALLATION**

# **MARNING**

ENSURE THERE IS NO MEDIA IN THE PROTECTED PILOT AREA OF THE BURNER. SEE "EMBER SHIELD INSTALLATION" ON THE PREVIOUS PAGE.



Ensure that the ember shield is in place before spreading the embers on the burner plates, see "EMBER SHIELD INSTALLATION" on the previous page. There should be no ember media in the protected pilot area. (Fig. 38 & 38a)The ember shield sits on the burner between the glass edges.





There is a precise amount of burner ember media is provided to cover up the burners in the open area of the floor glass. Distribute the embers evenly on either side of the ember shield until all the burners are covered. (Fig. 39 & 39a)



# PLENUM TRIM FRAME INSTALLATION

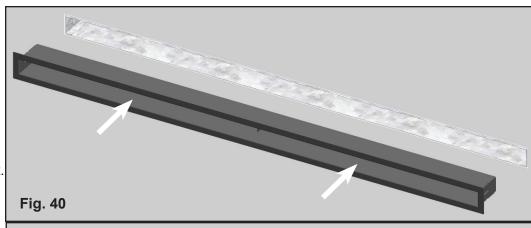
The plenum trim frame is adjustible and can accomodate facing thicknesses from .5" (13mm) to 1.25" (32 mm). The plenum trim frame may be painted to match the wall color using a high temp paint.

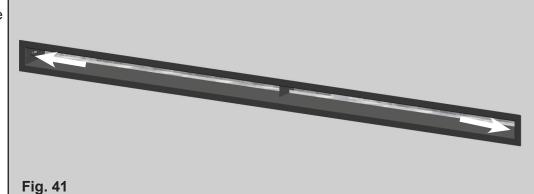
- Once the facing is installed the plenum trim frame can be slid into the heat plenum. (Fig. 40)
- 2. Secure the plenum trim frame using one screw per side and a long robertson bit. (Fig. 41)

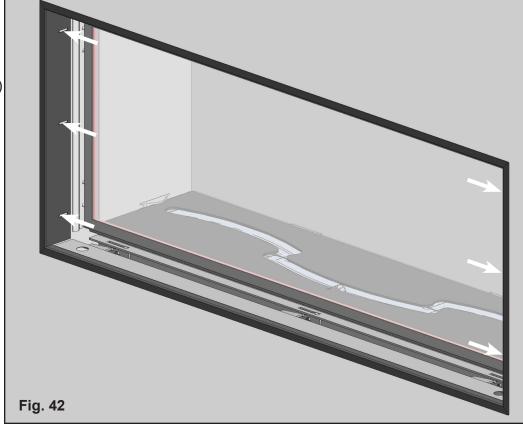


The appliance trim frame is adjustible and can accomodate facing thicknesses from .5" (13 mm) to 1.25" (32 mm).

- Once the finished facing is installed the appliance trim frame can be slid into the appliance case. (Fig. 42)
- 2. Secure the plenum trim frame using three screws per side.







# **OPTIONAL INSTALLATIONS**

# OPTIONAL REAR GLASS INSTALLATION

- If applicable, turn off the appliance and electrical power. Allow the appliance to cool down completely.
- 2. If applicable, remove the safety screen and glass door.
- If applicable, remove log pieces and set aside.
   Note log positions, refer to log installation manual for clarification.
- Back off the two screws holding the rear glass clips, slide the clips out of the key hole and set aside. (Fig. 43)
- 5. Handle the rear glass by the edges to prevent smudging, wear clean vinyl gloves if possible. Position the glass into the firebox. Rest the glass on the rear ledge behind the floor glass support brackets. (Fig. 44 & 45)
- 6. Push the glass back against the rear wall of the firebox, centering it left to right. While holding the glass in position re-insert the rear glass clips from **STEP 4**, push them firmly against the glass and tighten the screws. (**Fig. 45**)

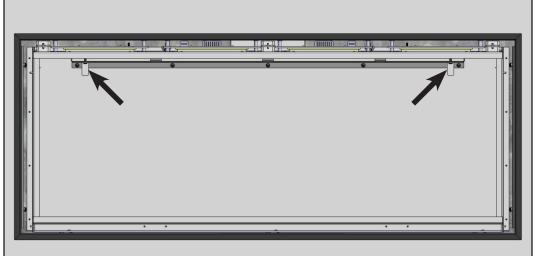
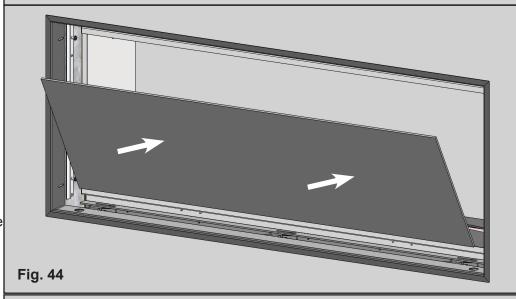
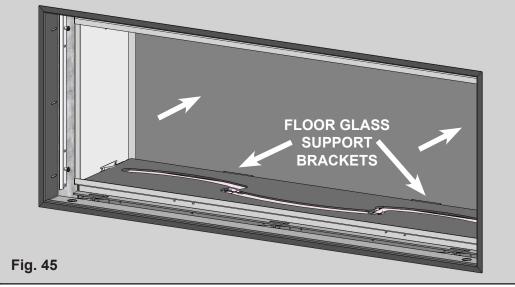


Fig. 43

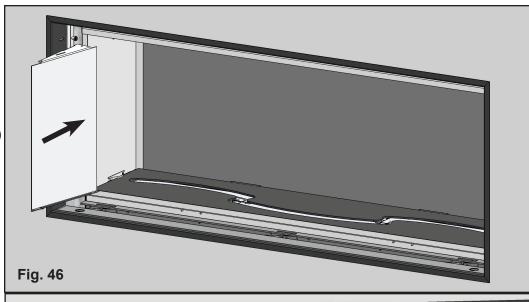




# OPTIONAL SIDE GLASS INSTALLATION

- Position the side glass support in the firebox.
   (Fig. 46)
   Hang the side glass support onto the glass support bracket. (Fig. 47)
- 2. Handle the side glass by the edges to prevent smudging, wear clean vinyl gloves if possible. Seat the side glass on the side glass support, the back edge should make contact with the rear glass. (Fig. 48)

  NOTE: THE SIDE WITH THE LABEL SHOULD FACE OUT, REMOVE THE LABEL BEFORE FIRING.
- Insert the side glass clips to hold the side glass in place. (Fig. 49)
- 4. Repeat previous steps for side glass on opposite side.



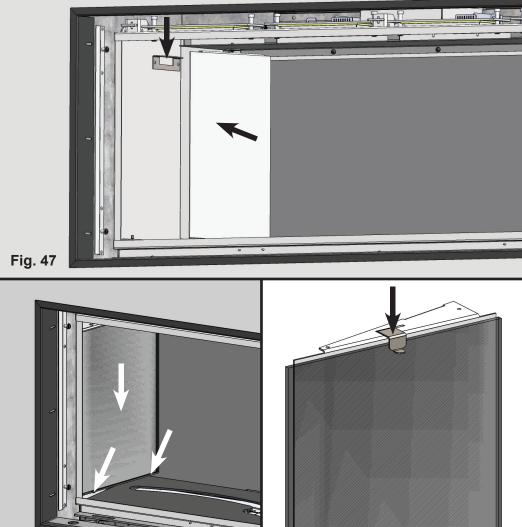


Fig. 49

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Fig. 48

#### LIGHTING INSTRUCTIONS

#### FOR YOUR SAFETY, READ BEFORE LIGHTING

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

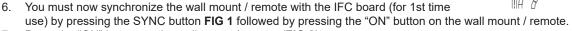
- A. This appliance is equipped with an ignition device which automatically lights the pilot. Do not try to light the pilot by hand.
- B. BEFORE LIGHTING, smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

#### WHAT TO DO IF YOU SMELL GAS:

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

#### **LIGHTING INSTRUCTIONS**

- 1. STOP! Read the safety information above.
- 2. Set the thermostat to the lowest setting.
- 3. Turn off all electric power to the appliance.
- 4. Do not attempt to light the pilot by hand.
- 5. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, **STOP!** Follow "**B**" in the safety information above. If you don't smell gas, go to the next step.



7. Press the "ON" button on the wall mount / remote.(FIG 2)

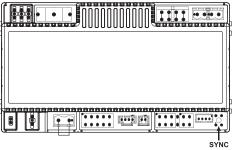
8. If the appliance will not operate, follow the instructions "To Turn Off Gas To Appliance" and call your service technician or gas supplier.

#### TO TURN OFF GAS TO THE APPLIANCE

- 1. Press the "OFF" button on the wall mount / remote.(FIG 1)
- 2. Turn off all electric power to the appliance.

#### WARNING

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the owner's information manual provided with this appliance. For assistance or additional information, consult a qualified installer, service agency or your gas supplier.





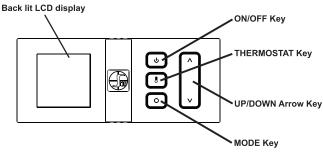


FIG 2: WALL MOUNT / REMOTE

170-0359 [03 18]

Fig. 50 Lighting Instructions

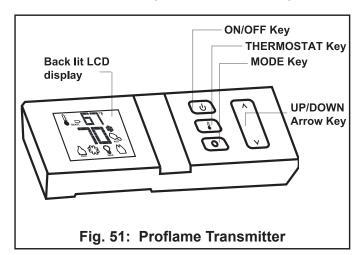
# PROFLAME 2 WALL TRANSMITTER / REMOTE OPERATION Intermittent Pilot Ignition (IPI)

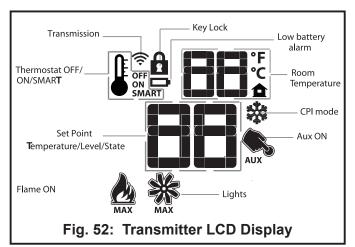
Only included and used for the CL4416. The Proflame 2 Wall Transmitter is an integrated part of the Proflame 2 System, which consists of these elements:

A Proflame 2 wall mount transmitter / remote, and an Integrated Fireplace Controller (IFC) with a wiring harness that connects to the gas valve and stepper motor. The Proflame Transmitter provides for controlling the following hearth appliance functions:

- 1. Main Burner On/Off
- 2. Main Burner flame modulation (6 levels)
- 3. Choice of standing or intermittent pilot (CPI/IPI)
- 4. Thermostat and Smart thermostat functions
- 5. Accent light modulation (6 levels)
- 6. Split flow for front center burner only, or front and rear burner combined.

The Proflame Transmitter uses a streamline design with a simple button layout and informative LCD display (**Fig. 51**). A Mode Key is provided to index between the features and a Thermostat Key is used to turn on/off or index through Thermostat functions (**Fig. 51 & 52**). Additionally, a Key Lock feature is provided (**Fig. 75**). An optional kit (**S.PFC Proflame Connect**) is available to allow the unit to be controlled via a cellphone app. It includes a wireless dongle, harness, and upgraded proflame connect wall mount transmitter / remote.





# **MARNING**

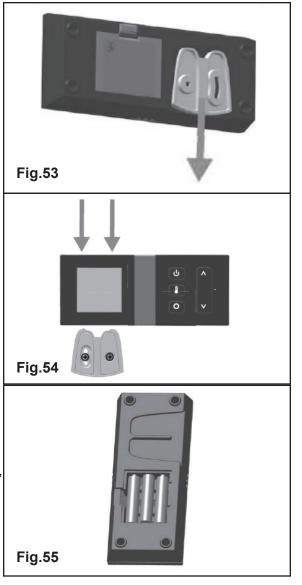
- THE TRANSMITTER AND RECEIVER ARE RADIO FREQUENCY DEVICES. PLACING THE TRANSMITTER IN OR NEAR METAL MAY SEVERELY REDUCE THE SIGNAL RANGE.
   METALLIC STRUCTURES OR RADIO INTERFERENCES CAN REDUCE THE OPERATIVE DISTANCE OF THE DEVICE DEPENDING ON TYPE OF APPLIANCE, INSTALLATION AND ENVIRONMENT.
- TURN "OFF" THE MAIN GAS SUPPLY OF THE APPLIANCE DURING INSTALLATION OR MAINTENANCE OF THE RECEIVER DEVICE.
- TURN "OFF" MAIN GAS SUPPLY TO THE APPLIANCE PRIOR TO REMOVING OR REINSERTING THE BATTERIES IN THE BATTERY HOLDER.
- IN CASE OF REMOTE CONTROL MALFUNCTION TURN OFF THE IFC DEVICE USING THE "ON/OFF" MAIN SWITCH.
- THE DEVICE IS NOT SUITABLE FOR THE USE OF RECHARGEABLE BATTERIES AND ITS OPERATIVE DISTANCE IS REDUCED WITH LOW BATTERY LEVEL.

#### WALL MOUNTING

The Proflame remote control is supplied with an adapter for wall mounting. Install the controller 1.5 m above floor level, well away from heat sources, kitchens, doors or windows. Metallic structures or radio interferences can reduce the operative distance of the device. Make sure to attach the adapter in a level plane without any distortion.

#### Proceed as below:

- Detach the adapter from the body of the remote control wall transmitter. (Fig. 53)
- Position the adapter on the wall, mark the points for the fixing holes and drill into the wall.
- Fix the adapter on the wall using the mounting hardware supplied with the remote control.
- Insert the remote control onto the adapter. (Fig. 54)



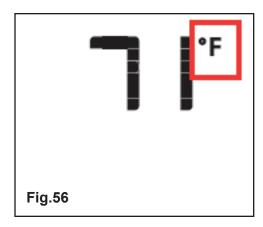
#### **OPERATING PROCEDURE**

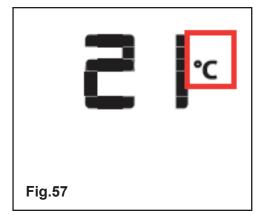
#### Initializing the System for the first time

Power the IFC control. Install the 3 AAA type batteries in the Transmitter battery bay located on the base of the Transmitter. (**Fig. 55**) With the batteries already installed in the Transmitter, push the red "sync" button on the IFC control. Next push the "**ON**" button on the Transmitter. The IFC control will "beep" to indicate the Transmitter's command is accepted and sets to the particular code of that Transmitter. The system is now initialized.

#### **Temperature Indication Display**

With the system in the "**OFF**" position, press the Thermostat Key and the Mode Key at the same time. Look at the LCD screen on the Transmitter to verify that a "**C**" or "**F**" is visible to the right of the Room Temperature display. (**Fig. 56 & 57**)



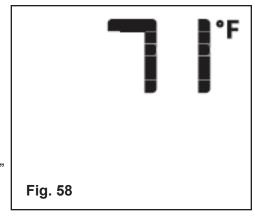


#### Turn on the Appliance

With the system OFF, press the ON/OFF Key on the Transmitter. The Transmitter display will show some other active Icons on the screen. At the same time the Receiver will activate the appliance. A single "beep" from the Receiver will confirm reception of the command.

#### **Turn off the Appliance**

With the system ON, press the ON/OFF Key on the Transmitter. The Transmitter LCD display will only show the room temperature (**Fig. 58**). At the same time the Receiver will turn off the appliance. A single "**beep**" from the Receiver confirms reception of the command.

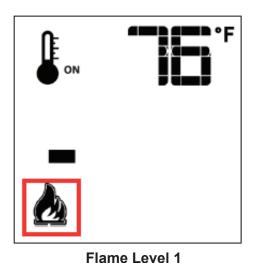


#### **Remote-Flame Control**

The proflame has six (6) flame levels. With the system on, and the flame level at the maximum in the appliance, pressing the Down Arrow Key once will reduce the flame height by one step until the flame is turned off. The Up Arrow Key will increase the flame height each time it is pressed. If the Up Arrow Key is pressed while the system is on but the flame is off, the flame will come on in the high position. (**Fig. 59 & 60**) A single "beep" will confirm reception of the command.







ON III

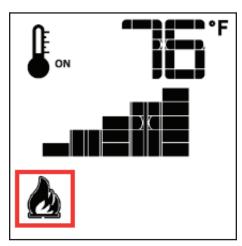
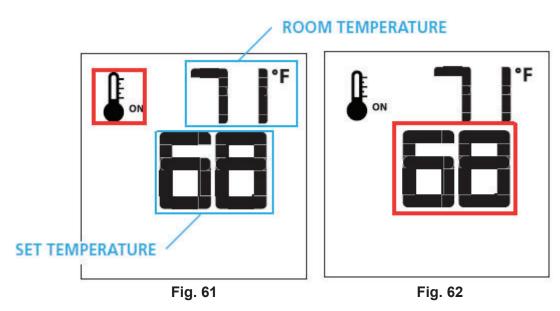


Fig. 60 Flame Level 5

Flame Level Maximum

#### **Room Thermostat (Transmitter Operation)**

The Remote Control can operate as a room thermostat. The thermostat can be set to a desired temperature to control the comfort level in a room. To activate this function, press the Thermostat Key (**Fig. 51**). The LCD display on the Transmitter will change to show that the room thermostat is "**ON**" and the set temperature is now displayed (**Fig. 61**). To adjust the set temperature, press the Up or Down Arrow Keys until the desired set temperature is displayed on the LCD screen of the Transmitter.



#### **Smart Thermostat (Transmitter Operation)**

The Smart Thermostat function adjusts the flame height in accordance to the difference between the set point temperature and the actual room temperatures. As the room temperature gets closer to the set point the Smart Function will modulate the flame down. To activate this function, press the Thermostat Key (**Fig. 51**) until the word "**SMART**" appears to the right of the temperature bulb graphic (**Fig. 63**). To adjust the set temperature, press the Up or Down Arrow Keys until the desired set temperature is displayed on the LCD screen of the Transmitter (**Fig. 64**).

Note: When Smart Thermostat is activated, manual flame height adjustment is disabled.

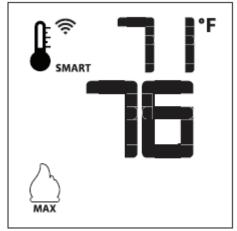






Fig. 64

#### **Blower Speed Control** (If the appliance is equipped with a blower.)

The speed of the blower can be controlled by the Proflame system. The blower speed can be adjusted through six (6) speeds. To activate this function use the Mode Key (Fig. 51) to index to the blower control icon (Fig. 65). Use the Up/Down Arrow Keys (Fig. 51) to turn on, off or adjust the blower speed (Fig. 66). A single "beep" will confirm reception of the command.



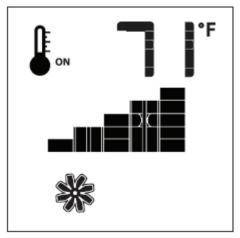


Fig. 65

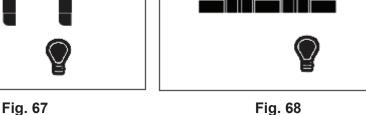
Fig. 66

#### **Remote Dimmer Control (Light)**

The auxiliary function controls the AUX power outlet by the dimmable light control. To activate this function use the Mode Key (Fig. 51) to index to the AUX icon (Fig. 67 & 68). The intensity of the output can be adjusted through six (6) levels. Use the Up/Down Arrow Keys (Fig. 51) to adjust the output level (Fig. 68). A single "beep" will confirm reception of the command.

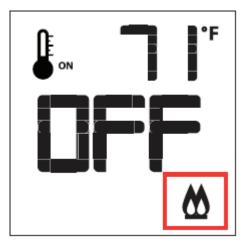
Note: This function is available only with the IFC Control Module.





#### **Split Flow Control**

The secondary burner is controlled by the Split Flow. To activate this function use the Mode Key (**Fig. 51**) to index to the SPLIT FLOW mode icon (**Fig. 69 & 70**). Pressing the Up Arrow Key will activate the secondary burner. Pressing the Down Arrow Key will turn the secondary burner off. A single "**beep**" will confirm the reception of the command.



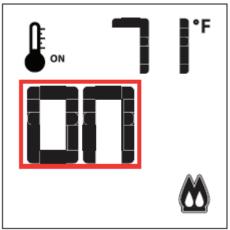


Fig. 69

Fig. 70

### **Remote Auxiliary Relay Control**

The auxiliary function controls the AUX relay outlet. To activate this function use the Mode Key (**Fig. 51**) to index to the AUX icon (**Fig. 71 & 72**). Pressing the Up Arrow Key will activate the outlet. Pressing the Down Arrow Key will turn the outlet off. A single "beep" will confirm the reception of the command.



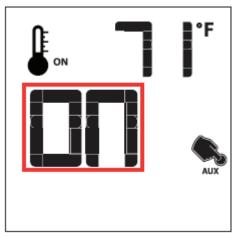


Fig. 71

Fig. 72

#### Continuous Pilot/Intermittent Pilot (CPI/IPI) selection

With the system in "OFF" position press the Mode Key (Fig. 51) to index to the CPI mode icon (Fig. 73 & 74). When enabled it will act as a standing pilot unit with an automatic shutoff timer that will turn the pilot off after 7 days. 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.

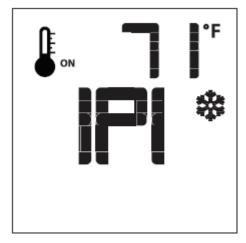
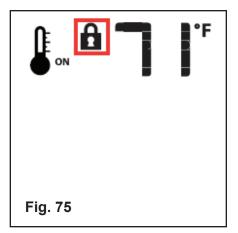




Fig. 73 Fig. 74

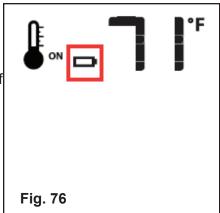
### **Key Lock**

This function will lock the keys to avoid unsupervised operation. To activate this function, press the MODE and UP Keys at the same time (**Fig. 75**). To de-activate this function, press the MODE and UP Keys at the same time.



#### **Low Battery Power Detection**

The life span of the remote control batteries depends on various factors: quality of the batteries used, the number of ignitions of the appliance, the number of changes to the room thermostat set point, etc. When the Transmitter batteries are low, a Battery Icon will appear on the LCD display of the Transmitter (**Fig. 76**) before all battery power is lost. When the batteries are replaced this Icon will disappear.



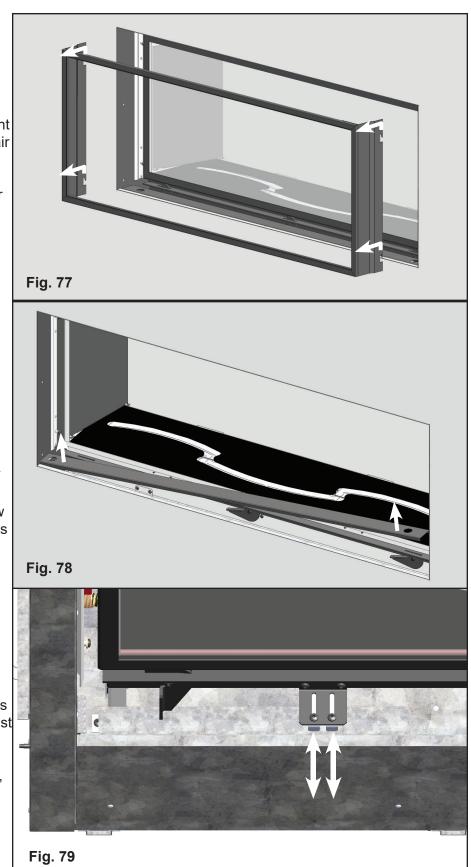
#### **AIR SHUTTER**

The air shutter plays an important role in flame appearance and combustion quality. The shutter adjusts how much air gets mixed with the gas before it ignites. Adjustments can be made to accommodate various climates and vent configurations. To gain access to the air shutter:

- Remove the safety screen by lifting the frame up so the hooks are clear of the round spacers, then pull the screen straight out. (Fig. 77).
- Remove the valve access cover using the finger holes at each end, set it aside. (Fig. 78)
- 3. There are two levers underneath the firebox as shown in (Fig. 79), loosen the screws on the levers for adjustment. The lever on the left controls the front / center burner flame appearance, the lever on the right controls the two rear burner flame appearances. Sliding either lever towards the front will close off the air mixing with the gas and will make the flame appear more yellow and tall. Sliding either lever towards the back will open up the shutter allowing more air to be mixed with the incoming gas; this will make the flames appear more blue and short. Typically natural gas flames will require the shutter to be more closed, while propane will be the opposite.

Note: If you cannot attain the proper flame by making air shutter adjustments then you may have the incorrect exhaust restrictor setting. See "EXHAUST RESTRICTOR SETTING"

If the flame is very flickery, fast moving, and low, increase the restriction. If the flame is very tall, lazy, and dirty, decrease the restriction. More details can be found in the venting section of this manual.



# **MAINTENANCE and SERVICE**

# ROUTINE MAINTENANCE

### Regularly:

- Clean and remove any lint accumulations or debris from the grills and combustion or convection air passage ways.
- Keep the appliance area free from combustible materials, such as paper, wood, clothing, gasoline, flammable solids, liquids and vapors.
- Visually check the height and color of the burner and pilot flames. The pilot flame should be blue with little or no yellow on the tips.
- Check for unusual noises or odors during operation of the appliance.
- Check the vent terminal for any damage, or obstruction by plants or debris accumulation.

It is recommended to periodically have your appliance serviced by a qualified service technician:

- 1. Remove the glass door (see "GLASS DOOR REMOVAL" on next page) and clean the inside of the glass with a soft, non-abrasive cloth and water or a suitable, mild, non-abrasive cleaner.
- 2. Remove and clean the floor glass panel and set aside.
- 3. Remove and clean the floor panel assembly, check the burner to see if all the ports are clear and clean. Check the pilot assembly to make sure it is not blocked by anything. Use a vacuum to clean out any debris around the burner and valve.
- 4. Completely inspect the appliance and the venting system.
- 5. Check the safety system of the gas valve.

#### **CLEANING SURFACES**

Painted, powder coated, or porcelain enameled surfaces should be wiped with a damp cloth periodically. Ensure the appliance has cooled down completely before any cleaning. Do not use other cleaners as they may leave a residue which can become permanently etched into the surface.

#### **CLEANING THE GLASS**

# **MARNING**

#### DO NOT TO CLEAN THE GLASS WHILE IT IS HOT

One of the by-products of combustion and moisture in the firebox is a white film which can show up on the glass of the viewing door. Initial curing of the appliance can also leave a slight film on the glass, which is a temporary problem.

- 1. Turn off the appliance and allow it to cool down completely.
- 2. Remove the glass door from the firebox (see "GLASS DOOR REMOVAL" on next page)
- 3. Check the gasket material on the back of the glass. Ensure that it is attached and intact.
- 4. Clean the glass with a mild glass cleaner and a soft cloth (see below). Abrasive cleaners will damage the glass

Slight soiling of SCHOTT ROBAX® panels can be removed using conventional glass cleaning products, provided they are used according to instructions of use, which means cleaning on cold surfaces. The residues should be removed since chemical attack is possible on exposure to temperature. The coated ROBAX® Mirror, ROBAX® TrueView, ROBAX® IR Max and ROBAX® Energy Plus can be cleaned with a soft cloth.

NOTE: IT IS NOT RECOMMENDED TO USE SCOURING PADS, ABRASIVE CLEANSERS, OR SCOURING AGENTS AS THEY MAY CAUSE DAMAGE TO THE GLASS SURFACE. THE SCHOTT-RECOMMENDED DRY WIPER IS SUITABLE FOR USE ONLY ON UNCOATED FIRE VIEWING PANELS.

# SAFETY SCREEN REMOVAL / INSTALLATION

This appliance is supplied with a preinstalled safety screen. If the safety screen becomes damaged it must be replaced with OEM part number Z1745. For installation, cleaning, and burner removal, the safety screen and glass door must be removed:

- 1. Turn off the appliance and allow it to cool down completely.
- Lift the safety screen up so the hooks are clear of the round spacers, then pull the screen straight out. (Fig. 80)

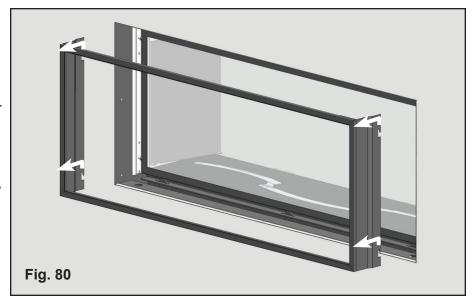
To install the safety screen, hook one side of the screen onto the round spacers between the washer and the firebox side. Next pull and / or align the other side and hook it onto the opposite round spacers. There should be a consistent 1/2" gap around the perimeter of the screen.

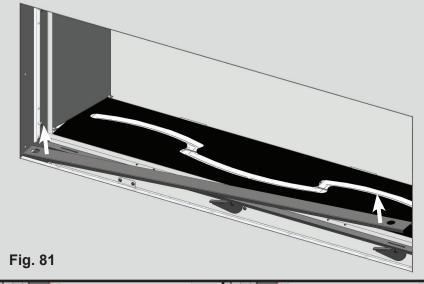
#### **GLASS DOOR REMOVAL**

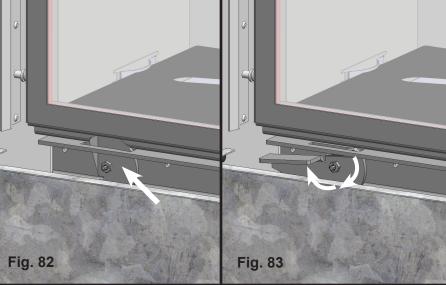
For installation, cleaning, and burner removal, the safety screen and glass door must be removed:

- 1. Turn off the appliance and allow it to cool down completely.
- 2. Remove the safety screen as shown in (**Fig. 80**)
- 3. Remove the valve access cover using the finger holes at each end, set it aside. (**Fig. 81**)

There are three latches along the bottom edge of the door (Fig. 82), rotate tabs clockwise to release the door. (Fig. 83) The door is held by three door latch mechanisms on top of the firebox. Hold the door by the sides at an angle as shown (Fig. 84, next page) Slide the door's top brackets out of the latch mechanism to free the door.

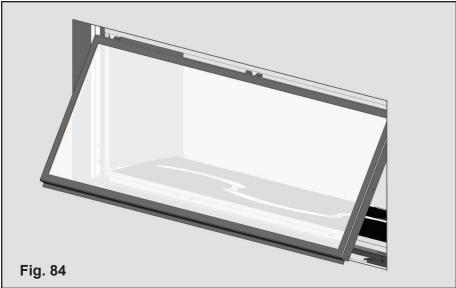






#### **GLASS DOOR REPLACEMENT**

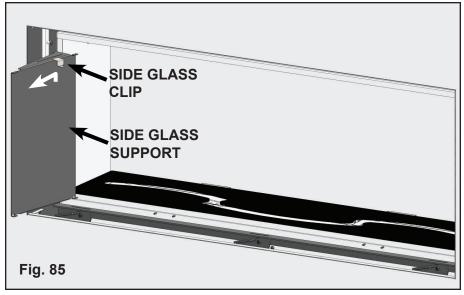
The glass in this appliance is a 5 mm anti-reflective high temperature ceramic glass that will easily withstand the heat that is produced. In the event the glass breaks or cracks, contact your dealer to arrange for your glass door to be replaced with an OEM factory replacement (see "PARTS LIST"). Do not operate this appliance with the glass door removed, cracked, or broken. Removal and replacement of the glass from the door must be done by a qualified service technician. The glass door must be purchased from a Blaze King dealer. No substitute materials are allowed.



#### **BURNER ASSEMBLY REPLACEMENT**

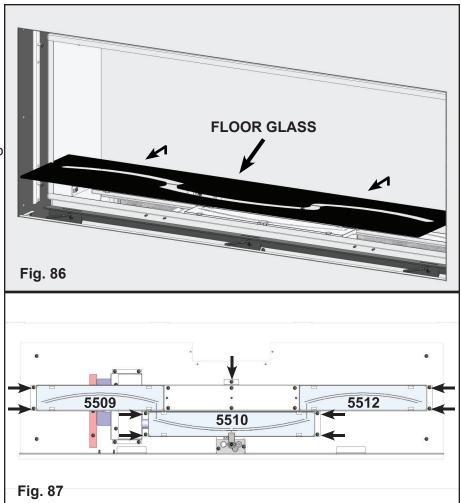
Only replace the front burner assembly with OEM part number **Z5519 FRONT BURNER ASSEMBLY** and the rear burner assembly with OEM part number **Z5529 REAR BURNER ASSEMBLY**.

- 1. Turn off the appliance and electrical power. Allow the appliance to cool down completely.
- 2. Remove the safety screen and glass door. See previous page.
- Remove any logs (note location / arrangement of any logs before removal); Carefully remove the burner ember media and set aside.
- 4. If installed, remove the left and right side glass by sliding the side glass clips out. Handle glass by the edges to prevent smudging, wear clean vinyl gloves. Set glass aside. Remove the left and right side glass supports by lifting up and off of the appliance brackets. (Fig. 85) Set the glass supports aside.



# MAINTENANCE and SERVICE

- 5. Remove the floor glass and set it aside. (**Fig. 86**)
- 6. Remove the dual rear burner assembly by removing the five screws shown in **Fig. 87**. Slide the burner assembly to the right to disengage the plenum from the primary air box. Lift the assembly up and out of the firebox.
- Remove the front burner assembly by removing the four screws. (Fig. 87). Slide the burner assembly to the right to disengage the plenum from the primary air box. Lift the assembly up and out of the firebox.
- 8. To reinstall the burner assemblies follow steps 1 to 8 in reverse.
  Ensure the plenums from the burner assemblies are seated properly inside the primary air box holes.



#### **FUEL CONVERSION**

# **MARNING**

THIS CONVERSION KIT SHALL BE INSTALLED BY A QUALIFIED SERVICE AGENCY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND ALL APPLICABLE CODES AND REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION. IF THE INFORMATION IN THESE INSTRUCTIONS IS NOT FOLLOWED EXACTLY, A FIRE, EXPLOSION OR PRODUCTION OF CARBON MONOXIDE MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE. THE QUALIFIED SERVICE AGENCY IS RESPONSIBLE FOR THE PROPER INSTALLATION OF THE KIT. THE INSTALLATION IS NOT COMPLETE UNTIL THE OPERATION OF THE CONVERTED APPLIANCE IS CHECKED AS SPECIFIED IN THE INSTRUCTION MANUAL SUPPLIED WITH THE KIT. BEFORE PERFORMING THIS OR ANY SERVICE PROCEDURE, MAKE SURE THAT THE GAS SUPPLY TO THE UNIT AND THE ELECTRICAL SUPPLY ARE SHUT OFF.

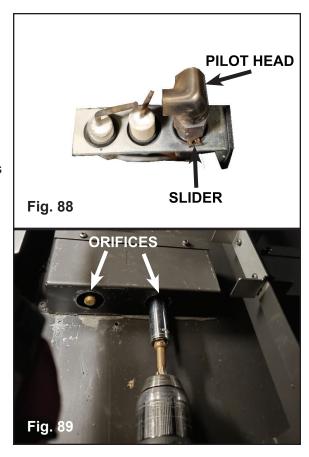
#### **CONVERSION KIT CONTENTS**

The conversion kit contains the following parts:

- S.Z0779 (NG) > 635-OR48 (#48 orifice) for the front burner, 635-OR43 (#43 orifice) for the split flow rear burner, and 600-907-023 PF2 NG Stepper Motor.
- S.Z0781 (LPG)> #635-OR56 (#56 orifice) for the front burner, #635-OR55 (#55 orifice) for the split flow rear burner, and 600-907-015 PF2 LP Stepper Motor.
- Conversion kit labels.

#### To convert from NG to LPG or reverse:

- 1. Remove the burners. (follow the steps for "BURNER REMOVAL" in this manual.
- 2. Convert the pilot injector: (**Fig. 88**)
  - a) Using a 7/16" wrench, turn the pilot head a 1/4 turn counter-clockwise.
  - b) Push the slider with your finger or a flat head screwdriver. Natural Gas is marked NAT. Propane gas is marked LP with an indicating hole between L and P.
  - c) Turn the pilot head a 1/4 turn clockwise back to its original position to lock in place.
- 3. Convert the burner orifices: (**Fig. 89**)
  - a) Remove the burner orifices with a 1/2" deep socket.
  - b) Put a bead of pipe-thread sealant onto the orifice threads, install orifices from the kit. **DO NOT OVER-TIGHTEN, ENSURE FRONT / REAR ORIFICES ARE CORRECT (see orifice numbers above)**.



## **MAINTENANCE and SERVICE**

- 4. Convert the SIT gas valve:
  - a) Use a T-20 driver to remove the two screws that hold the stepper regulator to the gas valve and disconnect the wire harness from the IFC.
  - b) Remove the rubber regulator diaphragm that is situated between the stepper regulator and the valve body. The new stepper regulator already has this diaphragm installed.
  - c) Install the LP (or NG) stepper regulator, with the new longer T-20 screws included in the kit and connect the harness to the IFC control board
- 5. Reconnect the electrical power to the appliance.

6. Use a small brush to apply a warm soapy water solution to all gas connections (use a half dish soap

**PILOT GUARD** 

and half warm water). If a gas leak is present, bubbling will occur. Gas leaks can be repaired by using an approved pipe thread sealant or approved Teflon tape. **NEVER USE AN OPEN FLAME WHEN TESTING FOR LEAKS.** 

- 7. Relight the pilot and confirm the flame appearance (see **Fig. 90**).
- Reinstall the burners, burner ember media, floor glass, and any ogs as per original installation.
   When re-installing the burner, ensure that the burner tubes slide all the way into the venturi box.

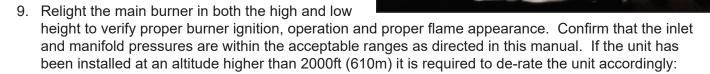


Fig. 90

**In the USA:** The appliance may be installed at higher altitudes. Please refer to your American Gas Association guidelines which state: the sea level rated input of Gas Designed Appliances installed at elevations above 2000ft (610 m) feet is to be reduced 4% for each 1000ft (305 m) above sea level. Refer also to local authorities or codes which have jurisdiction in your area regarding the de-rate guidelines.

**In Canada**: When the appliance is installed at elevations above 4500ft (1372 m), the certified high altitude rating shall be reduced at the rate of 4% for each additional 1000ft (305 m).

10. Ensure that the conversion label is installed on or close to the rating label to signify that the unit has been converted to a different fuel type.

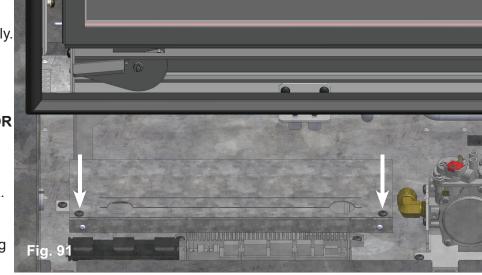
#### TO BE DONE BY QUALIFIED PERSONNEL ONLY

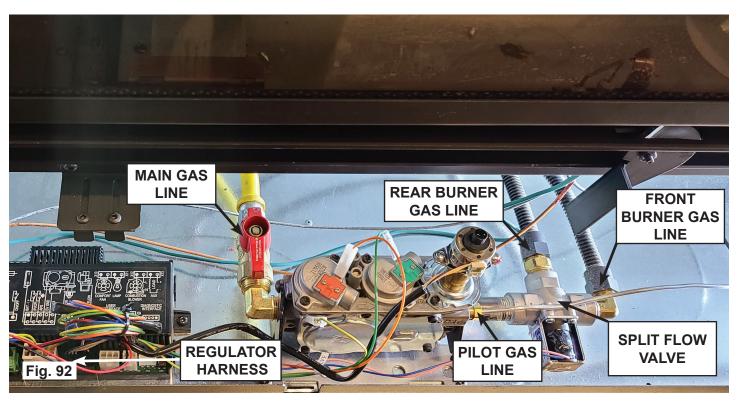
- Turn off the appliance and electrical power. Allow the appliance to cool down completely.
- Remove the safety screen as shown in "SAFETY SCREEN REMOVAL / INSTALLATION" and remove the valve access cover as shown in "GLASS DOOR REMOVAL"
- Remove the IFC HEAT SHIELD by undoing the two screws. Set the shield underneath the firebox. (Fig. 91)
- 4. Shut off the MAIN GAS LINE
- 5. Undo the **PILOT GAS LINE** using a 7/16" wrench.
- 6. Undo the MAIN, FRONT, AND REAR GAS LINES using a 3/4" wrench.



- 8. Disconnect all electrical connections to valve including ground wire.
- 9. Remove the four screws securing the valve to the appliance base and remove the valve assembly. If replacing just the valve then remove the **SPLIT FLOW VALVE** and pipe and thread onto new valve.
- 10. Installation is the reverse order of the previous steps.







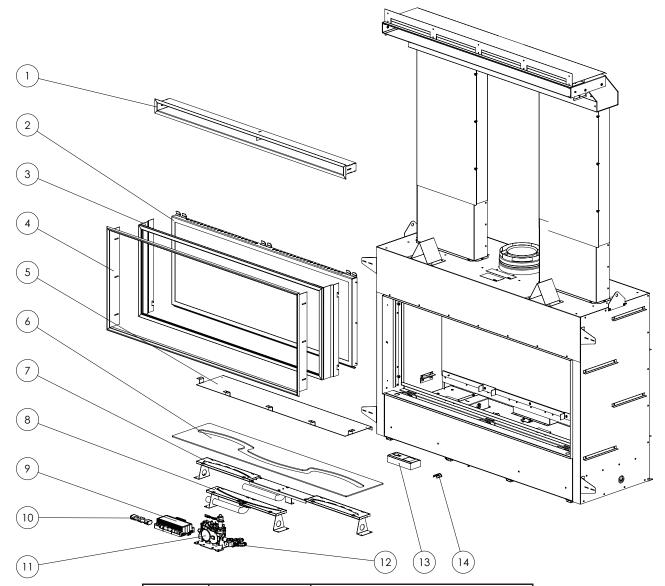


Fig. 93

ITEM NO.	PART NUMBER	DESCRIPTION	
1	Z5615	PLENUM FLUSH TRIM FRAME	
2	Z5531	DOOR ASSEMBLY	
3	Z1745	SAFETY SCREEN ASSEMBLY	
4	Z5606	FIREBOX FLUSH TRIM FRAME	
5	5580	FIREBOX BAFFLE	
6	130-0603	MAGIC BLACK FLOOR GLASS	
7	Z5529	REAR BURNER ASSEMBLY	
8	Z5519	FRONT BURNER ASSEMBLY	
9	600-584-665	IFC BOARD + PROFLAME CONNECT	
10	140-5006	BATTERY HOLDER 4-AA, 6V	
11	600-885-009	PF2 VALVE W/STPR MTR NG	
12	600-540-006	SPLIT FLOW VALVE	
13	600-584-045	PF2 WALL MOUNT TRANSMITTER	
14	5601	STAINLESS STEEL EMBER SHIELD	

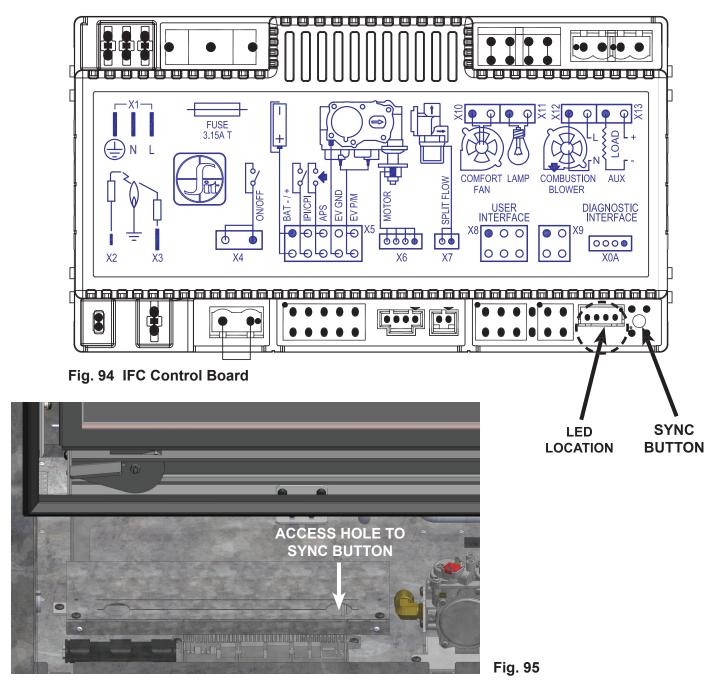
## **TROUBLESHOOTING**

#### DIAGNOSTIC FLASH CODES ON IFC CONTROL

- 1. Fail to ignite: If there is no positive ignition, the board will go into lock out and the LED will blink 3 times in intervals until the system is reset.
- 2. Low battery condition (<4V): the LED indicator will blink one (1) time in intervals.
- 3. Parasitic Pilot Flame: the LED indicator will blink two (2) times in intervals.
- 4. System Lock out: the LED indicator will blink three (3) times in intervals.

#### Additional Ignition Information

- 1. The Proflame2 IFC will try two (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



# **TROUBLESHOOTING**

Please check to make sure the instructions are followed exactly before attempting trouble shooting of the appliance.

# **MARNING**

TROUBLESHOOTING AND SERVICING OF GAS AND ELECTRICAL DEVICES OF THE APPLIANCE SHOULD ONLY BE CONDUCTED BY A QUALIFIED SERVICE TECHNICIAN.

PROBLEM	POSSIBLE CAUSE	ACTION
Thermostat does not work	The pilot flame has gone out The On/Off switch is turn to OFF	Turn it ON
	The thermostat is set too high	The thermostat is set too high
		Check pilot assembly wiring
No spark generation	Spark develops near the pilot assembly or could occur	Check for broken or poor connection from the sparker to the electrode
	onboard	Check for the spark shorting or arcing at other locations
		Check for defective sparker and spark electrode
	No spark from the igniter	See "no spark generation"
	Air in the gas line	It takes a while for all the air to purge out of the pilot before gas can reach the pilot and ignite
	Pilot gas pressure dropout upon main burner gas valve opening	Check gas mains supply and pressure
No pilot flame ignition	No gas flow out of the pilot burner	<ul> <li>Check gas valve wirings and connections to the board</li> <li>Check the pilot burner for obstruction</li> <li>Check the wirings and connections between the pilot assembly and the board</li> <li>Check the correct gas type settings on the valve and pilot burner assembly orifice</li> </ul>
	7-Days of burner inactivity	In CPI (continuous pilot ignition) mode the pilot will automatically turn off when the burner has not been used for 7 consecutive days. Re-light pilot to reset the counter.
Pilot will not remain lit	Problem with Flame Sensor circuit	Check for proper connection of the Flame Sensor to the IFC board  Check pilot for full flame impingement around Flame Sensor  If flame is too small, check gas pressure, adjust pilot rate screw, check pilot head for damage  Ensure the ground wire is properly attached to the pilot mounting bracket and that it is makes a good electrical connection.
	Restrictor setting	Use the correct restrictor setting for the venting configuration
	The pilot light has gone out	See "Pilot will not remain lit"
Remote control does not work	ntrol does not work  The remote is too far away from the heater  Use the remote closer to the heater	Use the remote closer to the heater
	One of the remote control batteries are dead	Replace the batteries

# TROUBLESHOOTING

	IFC or transmitter batteries are low	Replace the batteries	
No reaction to command	A maximum number of failed ignitions or flame restorations have been reached	<ul> <li>Remove any possible blocking conditions. See "locking conditions"</li> <li>See how to reset the board from Lockout</li> </ul>	
	No communication between the remote control and the IFC	<ul><li>Reprogram the transmitter to the IFC.</li><li>Follow the initializing system for the first time</li></ul>	
		<ul> <li>Turn the system off by pressing the ON/OFF button on the transmitter</li> <li>After approximately 2 seconds press the ON/OFF button on the transmitter again.</li> </ul>	
Locking conditions	Reset the Proflame IFC board	<ul> <li>In the manual flame control mode, use the down arrow button to reduce the flame to off, indicated by the word OFF displayed on the transmitter LCD screen.</li> <li>Wait approximately 2 seconds and press the up arrow button, the ignition sequence will start.</li> </ul>	
	The pilot flame has gone out	See "Pilot will not remain lit"	
	The remote control is not working correctly	Replace the batteries	
Main burners will not start	The thermostat is disconnected or set too high	Set the thermostat to a lower temperature	
	Problem with thermopile circuit	<ul><li>Check gas line pressure</li><li>Check wiring to thermostat for breaks</li><li>Check for flame impingement on thermopile</li></ul>	
	Leak in vent pipe	Check for leaks in vent connections	
	Improper vent configuration	Check vent configuration with manual	
Flame lifting	Terminal may be re-circulating flue gases	<ul> <li>Check to see if terminal is on correctly</li> <li>May need to install high wind termination cap.</li> <li>Contact dealer</li> </ul>	
Blue Flames	The heater has just been started	Normal during start up: flame will yellow as the appliance heats up	
	Improper air shutter adjustment	Adjust air shutter – contact your dealer	
Glass fogs up	Normal condition: after the appliance warms up the glass will be clear.	**Due to additives in gas, glass may get hazy during operation** Clean as needed.	
	Optional logs are placed incorrectly	Check that logs do not impinge on the flame, see manual pictures.	
Flames are burning "dirty" or sooting	g "dirty" or opening the vent restrictor	Check for proper venting and blockage of the vent termination	
	Incorrect rating input	Check manifold pressure and clock input rating for over- firing	

### **BLAZE KING GAS LIMITED WARRANTY**

Blaze King and its respective brands extend the following warranty for gas appliances purchased from an authorized Blaze King dealer and installed in the United States of America or Canada. Warranty starts with date of purchase by the original owner (End User) except as noted for replacement parts.

Warranty Per	iod	Components Covered	
Parts	Labor	Gas	
1 Year		Х	All parts, materials and surface finishes (flaking and peeling). Except as covered by Conditions Exclusion, and Limitations listed
2 Years		X	Igniters, Thermocouple, Thermopile Molded Refractory Panels, Log sets, Fan assembly, Ignition components, Gas valve, Burner components, Thermostat
5 Years	2 Years	Х	Firebox & Heat Exchanger
10 Years	2 Years	Х	All Exterior Steel Cabinets (excluding paint finishes) Glass (thermal breakage only)
1 Year		Х	Other Replacement Parts
	See Conditions,	Exclusions, and Lin	nitations

#### **Blaze King Gas Limited 10 Year Warranty**

Blaze King is the manufacturer of the Blaze King line of heating products. At Blaze King, our commitment to the highest level of quality and customer service is the most important thing we do. Each Blaze King stove is built on a tradition of using only the finest materials and is backed by our limited lifetime warranty to the original purchaser. With Blaze King, you're not just buying a fireplace or stove, you're buying a company with years of unequalled performance and quality.

#### **Limited 10 Year Warranty:**

Under this warranty, Blaze King covers the fireplace or stove, exterior body, pedestals, legs and glass (thermal breakage only) against defects in materials and workmanship, for part repair or replacement for (10) years from original purchase date and limited labor for the first two (2) years to the original purchaser. This warranty does not cover exterior finishes. Please see the exclusions and limitation section below as certain restrictions and exclusions apply to this warranty.

#### **Limited 5 Year Warranty:**

Under this warranty, Blaze King covers the fireplace or stove firebox and heat exchanger against defects in materials and workmanship, for part repair or replacement for the first five (5) years and limited labor for the first two (2) years to the original purchaser. This Warranty covers: Heat Exchanger, Steel Firebox Panels and any steel components not covered under the ten (10) year Warranty excluding burner components and gas components. Please see the exclusions and limitation section below as certain restrictions and exclusions apply to this warranty.

#### Limited Two (2) Year Warranty:

Under this warranty, Blaze King covers: Gas Assembly, Burner components (ceramic and steel), Log sets, Blower and control, Temperature Sensors, thermocouple, thermopile, electronic ignition components and wire harness against defects in materials and workmanship, for part repair or replacement for the first two (2) years and limited labor for the first (1) year to the original purchaser. Please see the exclusions and limitation section below as certain restrictions and exclusions apply to this warranty.

#### **Limited One (1) Year Warranty:**

Under this warranty, Blaze King covers all exterior surface finishes against defects in materials and workmanship, for part repair or replacement and limited labor for the first (1) year to the original purchaser. Please see the exclusions and limitations section below as certain restrictions and exclusions apply to this warranty.

#### How the Warranty Works (Includes Conditions, Exclusions and Limitations)

- 1. All warranties by the manufacturer are set herein and no claim shall be made against the manufacturer on any oral warranty or representation. All claims under this Limited Warranty must be made in writing by your dealer.
- 2. Any stove or part thereof that is repaired or replaced during the Limited Warranty period will be warranted under the terms of the Limited Warranty for a period not exceeding the remaining term of the original Limited Warranty or six (6) months, whichever is longer.
- 3. For any part or parts of this stove, which in our judgment show evidence of defects, Blaze King reserves the option to repair or to replace the defective product through an accredited distributor or agent, provided the defective part is returned to the distributor or agent, transportation prepaid, if requested.
- 4. If you discover a problem that you think may be covered by the Limited Warranty, you MUST REPORT it to your Blaze King dealer WITHIN 30 DAYS from the date the problem was first detected, giving them proof of purchase and the date of purchase. The dealer will investigate the problem and work with Blaze King to determine whether the problem:
- a) Is covered by the Limited Warranty or
- b) Can be fixed in your home or does the product need to be returned to Blaze King for repair.
- 5. If Blaze King determines that the stove needs to be returned to Blaze King for repair, the customer has the responsibility and the expense of removing it from their home and shipping it to Blaze King. If the problem is covered by the Warranty, Blaze King will repair or replace the item at their discretion and the customer will be responsible for return shipping and re-installation in their home.
- 6. If the problem is not covered by the Limited Warranty, the customer will be responsible for all repair costs, as well as all storage, shipping and the cost of removing and re-installing the stove.

If you are not satisfied with the service provided by the Blaze King dealer, write to Blaze King at the address listed on the last page of the Owner's Manual. Include a copy of the original purchase invoice and a description of the problem.

#### **Exclusions and Limitations:**

- 1. This Warranty does not cover tarnish, discoloration or wear on the plated surfaces. Painted finishes will change colour after initial firing and will continue to change through the lifetime of the stove. This is normal occurrence for all high temperature coatings.
- 2. This Warranty excludes wear and tear or breakage caused by cleaning, moving or service on log set and panels.
- 3. Blaze King strongly recommends that installation be done by a certified installer. Failure to comply may adversely affect coverage under this warranty. This Limited Warranty covers defects in materials and workmanship only if the product has been installed in accordance with local building and fire codes; in their absence, refer to the owner's manual. If the product is damaged or broken as a result of any alteration, wilful abuse, mishandling, accident, neglect, or misuse of the product, the Limited Warranty does not apply.
- 4. The stove must be operated and maintained at all times in accordance with the instructions in the Owner's Manual. If the unit shows signs of neglect or misuse, it is not covered under the terms of this Warranty policy. Performance problems due to operator error will not be covered by the Limited Warranty policy.
- 5. Some minor expansion, contraction, or movement of certain parts and resulting noise, is normal and not a defect and, therefore, is not covered under this Limited Warranty.
- 6. Misuse includes over-firing. Over-firing this appliance can cause serious damage and will nullify the Limited Warranty.
- 7. The Limited Warranty will cover glass thermal breakage only and will not cover misuse of the stove glass, including but not limited to glass that is struck, has surface contaminates or has had harsh or abrasive cleaners used on it.
- 8. This warranty does not cover products made or provided by other manufacturers and used in conjunction with the operation of this stove without prior authorization from Blaze King The use of such products may nullify the Limited Warranty on this stove. If unsure as to the extent of this Limited Warranty, contact your authorized Blaze King dealer before installation.
- 9. Blaze King will not be responsible for inadequate performance caused by environmental conditions.
- 10. The Limited Warranty does not cover installation and operational related problems such as use of downdrafts or spillage caused by environmental conditions. Environmental conditions include but are not limited to nearby trees, buildings, roof tops, wind, hills, mountains, inadequate venting or ventilation, excessive offsets, negative air pressures or other influences caused by mechanical systems such as furnaces, fans, clothes dryers etc.
- 11. The Limited Warranty is void if:
- a) The stove has been operated in atmospheres contaminated by chlorine, fluorine or other damaging chemicals.
- b) The stove is subject to submersion in water or prolonged periods of dampness or condensation.
- c) Any damage to the unit, combustion chamber or other components due to water, or weather damage which is the result of, but not limited to, improper chimney/venting installation.
- d) Salt air in coastal areas or high humidity can be corrosive to the finish; these environmental can cause rusting. Damage caused by salt air or high humidity is not covered by the Limited Warranty.
- 12. Exclusions to the Limited Warranty include: injury, loss of use, damage, failure to function due to accident, negligence, misuse, improper installation, alteration or adjustment of the manufacturer's settings of components, lack of proper and regular maintenance, alteration, or act of God.
- 13. The Limited Warranty does not cover damage caused to the fireplace or stove while in transit. If this occurs, do not operate the stove and contact your courier and/or dealer.
- 14. Limited Warranty does not extend to or include firebox paint, door or glass gaskets with damage caused by normal wear and tear, or exterior paint discoloration or chipping, worn gaskets, etc.
- 15. The Limited Warranty does not include damage to the unit caused by abuse, improper installation, or modification of the unit.
- 16. Damage to plated surfaces caused by fingerprints, scratches, melted items, or other external scores and residues left on the plated surfaces from the use of abrasive cleaners or polishes is not covered in this warranty.
- 17. The Limited Warranty does not cover tarnish, discoloration or wear on the plated surfaces.
- 18. The paint on the brick liner may peel. It is not a flaw and is not covered under warranty, due to extreme conditions in the firebox.

- 19. Blaze King is free of liability for any damages caused by the fireplace or stove, as well as inconvenience expenses and materials. The Limited Warranty does not cover incidental or consequential damages.
- 20. The Limited Warranty does not cover any loss or damage incurred by the use or removal of any component or apparatus to or from the Blaze King fireplace or stove without the express written permission of Blaze King and bearing a Blaze King label of approval.
- 21. Any statement or representation of Blaze King Products and their performance contained in Blaze King advertising, packaging literature, or printed material is not part of the Limited Warranty.
- 22. The Limited Warranty is automatically voided if the fireplace or stove's serial number has been removed or altered in any way. If the stove is used for commercial purposes, it is excluded from the Limited Warranty.
- 23. No dealer, distributor, or similar person has the authority to represent or warrant Blaze King Products beyond the terms contained within the Limited Warranty. Blaze King assumes no liability for such warranties or representations.
- 24. Blaze King will not cover the cost of the removal or re-installation of the stove, hearth, facing, mantels, venting or other components.
- 25. Labor to replace or repair items under this Limited Warranty will be covered per our warranty service fee reimbursement schedule. Labor rates are set per component and as such total labor costs may not be covered.
- 26. If a defect or problem is determined by Blaze King to be non warrantable, Blaze King will not be liable for travel costs for service work. In the event of in-home repair work, the customer will pay any in-home travel fees or service charges required by the Authorized Dealer.
- 27. At no time will Blaze King be liable for any consequential damages which exceed the purchase price of the unit. Blaze King has no obligation to enhance or modify any stove once manufactured (example: as a stove model evolves, field modifications or upgrades will not be performed).
- 28. This Limited Warranty is applicable only to the original purchaser and it is non-transferable.
- 29. This warranty only covers Blaze King Products that are purchased through an authorized Blaze King dealer.
- 30. If for any reason any section of the Limited Warranty is declared invalid, the balance of the warranty remains in effect and all other clauses shall remain in effect.
- 31. The Limited Warranty is the only warranty supplied by Blaze King, the manufacturer of the stove. All other warranties, whether express or implied, are hereby expressly disclaimed and purchaser's recourse is expressly limited to the Limited Warranty.
- 32. Blaze King and its employees or representatives will not assume any damages, either directly or indirectly, caused by improper usage, operation, installation, servicing or maintenance of this stove.
- 33. Blaze King reserves the right to make changes without notice. Please complete and mail the warranty registration card and have the installer fill in the installation data sheet in the back of the manual for warranty and future reference.
- 34. Blaze King is responsible for stocking parts for a maximum of seven (7) years after discontinuing the manufacture or incorporation of the item into its products. An exception to this would be if an OEM supplier is not able to supply a part.

	NOTES	
Installer: Please	complete the following information	
Dealer Name & A	Address:	