

Installation Manual



G2

Direct Vent Gas Fireplace Insert

Gas Fireplace

natural gas 400AN

propane gas 400AP

Installer: Place model/serial number here.

Installer: Leave this manual with the appliance.
Consumer: Retain this manual for future reference.

⚠ WARNING:
FIRE OR EXPLOSION HAZARD

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

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

WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.

- Do not touch any electrical switch; do not use any phone in your building.
- Leave the building immediately.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

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

⚠ DANGER



Hot glass will cause burns.

Do not touch glass until cooled.

Never allow children to touch glass.

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

This appliance may be installed in an after-market permanently located, manufactured (mobile) home where not prohibited by local codes. This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used.

INSTALLER: Leave this manual with the appliance.

CONSUMER: Retain this manual for future reference.

Massachusetts:

The piping and final gas connection must be performed by a licensed plumber or gas fitter in the State of Massachusetts. Also, see Carbon Monoxide Detector requirements in this manual, page 31.

⚠ 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 go to www.P65Warnings.ca.gov.

Note: Natural gas, in its original state, contains Benzene.

This appliance is a domestic room-heating appliance. It must not be used for any other purposes such as drying clothes, etc.

This appliance is suitable for installation in a bedroom or bed sitting room.

Ce guide est disponible en français sur demande.



We recommend a US Certified National Fireplace Institute (NFI) specialist install our gas hearth products.



The information contained in this manual is believed to be correct at the time of printing. Miles Industries Ltd. reserves the right to change or modify any information or specifications without notice. Miles Industries Ltd. grants no warranty, implied or stated, for the installation or maintenance of your heater, and assumes no responsibility for any consequential damage(s).

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Designed and manufactured for Miles Industries Ltd.

Welcome to Valor®

This appliance has been professionally installed by:

Dealer Name: _____

Phone: _____

Please read this manual BEFORE installing and operating this appliance.

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Fireplace Safety

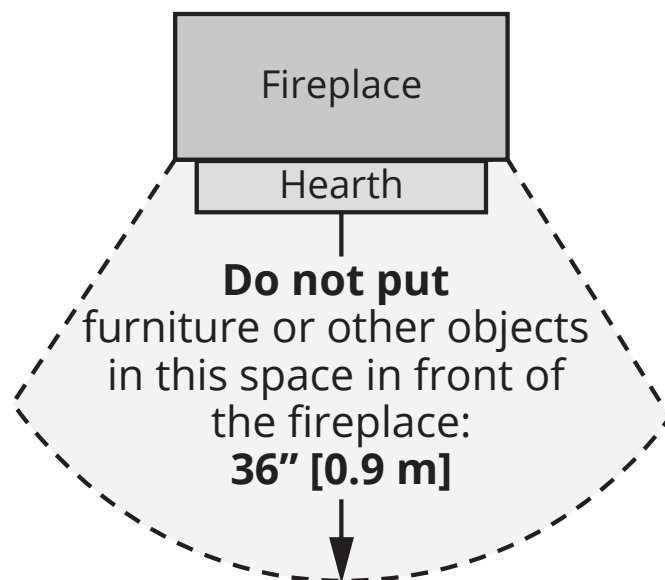
This manual contains very important information about the safe installation and operation of the fireplace. Read and understand all instructions carefully before installing and operating the fireplace. Failure to follow these instructions may result in possible fire hazard and will void the warranty.

Replacement manuals are available by contacting the Valor Customer Service at 1-800-468-2567, or by visiting valorfireplaces.com.

WARNING: Extremely Hot!

Heat and flammability

- Some parts of the fireplace are extremely hot, particularly the glass window. Use the barrier screen provided or a gate to reduce the risk of severe burns.
- The glass windows can exceed 500°F at full capacity.
- Always keep the appliance clear and free from combustible materials, gasoline, and other flammable vapors and liquids.
- Be aware of hot wall surfaces! The wall directly above the fireplace can get very hot when the fireplace heats. Although safe, it may reach temperatures in excess of 200°F (93°C) depending on choice of optional accessories. Do not touch!
- Be aware of hot shelf/hearth/floor surfaces! Any projections directly around the fireplace can get very hot when the fireplace heats. Although safe, they may reach temperatures in excess of 200°F (93°C) depending on their elevation. Be careful of touching these! Do not put objects on the hearth or shelf. Temperature of projection surfaces will be reduced when barrier screen is installed.
- Some materials or items, although safe, may discolor, shrink, warp, crack, peel, and so on because of the heat produced by the fireplace. Avoid placing candles, paintings, photos and other combustible objects sensitive to heat or furniture within 36 inches (0.9 m) around the fireplace.
- Solid wood flooring in front of the fireplace (if allowed) may shrink during the heating season due to heat.
- Due to high temperatures, the appliance should be located out of traffic areas and away from furniture and draperies.
- Clothing or other flammable material should not be placed on or near the appliance.



Barrier Screen and Safety

- A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and must be installed for the protection of children and other at-risk individuals.
- Children and adults should be alerted to the hazards of high surface temperature and should stay away to avoid burns or clothing ignition.
- Young children should be carefully supervised when they are in the same room as the appliance. Toddlers, young children, and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at-risk individuals in the house. To restrict access to a fireplace or stove, install an adjustable safety gate to keep toddlers, young children, and other at-risk individuals out of the room and away from hot surfaces.
- Any safety screen, guard, or barrier removed for servicing an appliance, must be replaced prior to operating the appliance.

Fireplace Safety

Glass window



WARNING

Do not operate this appliance with the glass front removed, cracked, or broken.

Do not strike or slam the glass front.

Replacement of the glass front should be performed by a licensed or qualified service person.

- The glass front assembly must be in place and sealed before the unit can be placed into safe operation.
- The glass front assembly must only be replaced as a complete unit, as supplied by the fireplace manufacturer. No substitute material may be used.
- Do not use abrasive cleaners on the glass front assembly. Do not attempt to clean the glass when it is hot.

Venting

- This unit must be used with a vent system as described in this manual. No other vent system or components may be used.
- Never obstruct the flow of combustion and ventilation air. Keep the front of the appliance clear of all obstacles and materials for servicing and proper operation.
- This gas fireplace and vent assembly must be vented directly to the outside and must never be attached to a chimney serving a separate solid fuel burning appliance. Each gas appliance must use a separate vent system. Common vent systems are prohibited.

Intended use

- This appliance is designed and approved as a supplemental heater and provides the potential for most energy conservation when used while attended. The use of an alternate primary heat source is advisable.
- This unit is not for use with solid fuel.
- Do not use this heater as a temporary source of heat during construction.

Installation and Servicing

- Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning might be required due to excessive lint from carpeting, bedding material, et cetera. It is imperative that control compartments, burners, and circulating air passageways of the appliance be kept clean.
- Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control that has been under water.

Specifications

Approval & Codes

This appliance is certified to ANSI Z21.88/CSA 2.33 American National Standard / CSA Standard for Vented Gas Fireplace Heaters for use in Canada and USA, and to CGA 2.17-91 High Altitude Standard in Canada. This appliance is for direct vent installations.

This appliance complies with CSA P.4.1-21 Testing method for measuring annual fireplace efficiencies.

The installation must conform to local codes or, in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1/NFPA 54 or the Natural Gas and Propane Installation Code CAN/CGA-B149.1. Only qualified licensed or trained personnel should install this appliance.

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

Ratings

Model	400AN	400AP
Gas	Natural	Propane
Altitude (Ft.)*	0–4500 ft	
Input Maximum (Btu/h)	22,000	22,000
Input Minimum (Btu/h)	12,000	11,375
Manifold Pressure (in w.c.)	3.8"	9.0"
Minimum Supply Pressure (in w.c.)	5"	11"
Maximum Supply Pressure (in w.c.)	10"	14"
Main Burner Injector Marking	#44DMS	#54DMS
Pilot Injector Marking	BL22N	BL14LP
Min. Rate By-Pass Screw	160	105

*High Altitude Installations

Input ratings are shown in BTU per hour and are certified without deration for elevations up to 4,500 feet (1,370 m) above sea level.

For elevations above 4,500 feet (1,370 m) in USA, installations must be in accordance with the current ANSI Z223.1 and/or local codes having jurisdiction. Heating value of gas in some areas is reduced to compensate for elevation—consult your local gas utility to confirm.

For installations at elevations above 4,500 feet (1,370 m) in Canada, please consult provincial and/or local authorities having jurisdiction.

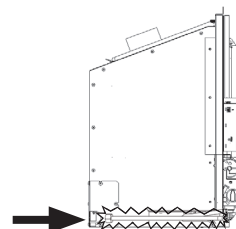
Supply Gas

Heater engine 400AN is used with natural gas.

Heater engine 400AP is used with propane gas.

The supply pressure must be between the limits shown in the Ratings section.

The supply connection is a 3/8" male SAE flare fitting located on the left side at the rear of the fireplace. See "Gas Supply" on page 21 for connection details.



Conversion Kits

The 400 is supplied as natural gas or propane gas and is field convertible between fuels. See instructions packaged with the conversion kits for further information.

Electrical

The 400 is designed to run on battery power and does not require an electrical source to operate as a heater. However, if the appliance is fitted the 455CFK—Circulating Fan Kit, a grounded power source is required.



WARNING

**NO ELECTRICAL CONNECTION ALLOWED
for any outdoor installation!**

Floor/Hearth

This appliance is approved for installation into existing masonry wood-burning fireplaces or factory-built UL127 listed wood-burning fireplaces only. Combustible material such as plywood and so on may be used for leveling and shimming beneath the unit. This appliance does not require a hearth other than to support the weight of the fronts. A combustible hearth must be 2-1/2" below the bottom of the unit.

Outdoor Conversion Kit

The 400 models are supplied standard for indoor applications and may be adapted for installation in specific "outdoor" applications protected from weather as defined in the GV60CKO outdoor conversion kit manual.

Kits and Accessories

Required Kits

Fuel Bed Included		
405LSK	Traditional Log Kit	
Liners Included		
460PBL	Plain Black Panels	
Fronts and Backing Plates (choose one)		Barrier screen
442EDF3B	Edgemont front 3-sided black	4012680
441EDF4B	Edgemont front 4-sided black	
Approved Venting Components		
See list of approved venting components next page		

Optional Accessories

Gas Conversion Kits	
400NGK	Conversion Kit to Natural Gas
400PGK	Conversion Kit to Propane Gas
Other Accessories	
1265WSK	Wall Switch Kit
455CFK*	Circulating Fan Kit
RBWSK	Remote battery & wall switch kit
GV60CKO*	Outdoor conversion kit
Hearth Gate	Hearth gates such as Cardinal's VersaGate are available at retail stores carrying safety products for children.



WARNING

*** NO ELECTRICAL CONNECTION ALLOWED
for any outdoor installation!**

Above information accurate at the time of printing and subject to change without notice.

Approved Venting Components

Approved Direct Vent Suppliers for Valor Models 400						
  Venting Parts Description		Venting Parts Code / availability by Manufacturer				
		DURA-VENT	SELKIRK / AMERIVENT	ICC EXCEL DIRECT	MILES INDUSTRIES	BDM
Termination Caps	Vertical	46DVA CL33	4DT-VC & 1604802 with 4DT-CTB 1604650	4SVT TM4SVTS	559CLT	DVR6-VCSB
		46DVA VC	4DT-33IK35VB & 1604633	—	—	940033HWS
	Horizontal	—	—	—	720SWK	—
Vent Adapters / Couplers	Universal Adapter 3" Flex Coupler	2150	—	TM-CFAA3	—	95090390
	Co-Linear Flex Connector	46DVA-ADF	—	—	—	—
	Co-Linear to Co-Axial Adapter	46DVA-GK 46DVA-CLTA	—	TM-4CTA	400CFA ³ avec 590FVK2 (NG ONLY)	—
	Co-Axial Adapter 5" x 3" to 6-5/8" x 4"	—	—	—	With 590FVK2 ³ (incl. flashing) (NG ONLY)	—
Aluminum Flexible Liner	3" Diameter	NOTE: 2-ply liner approved to CAN/ULC S635 suitable for venting gas appliances. As manufactured by Z-Flex, Flexmaster and others.				
	Co-Linear	2280 Series	AF3-35L	TM-ALK33 TM-ALT33	—	952703 952704
	Co-Axial 5" x 3"	—	—	—	590FVK2 ³ (NG ONLY)	—
Flashings	Roof flashing 0/12-6/12	46DVA-F6	4DT-AF6	TF-4FA	—	DVR6-AF012
	Roof flashing 7/12-12/12	46DVA-F12	4DT-AF12	TF-4FB	—	DVR6-AF712
	Flat Roof Flashing	46DVA-FF	—	TF-4F	—	DVR6-TCF
	Masonry Flashing	—	—	TF-4MF	559FSK	

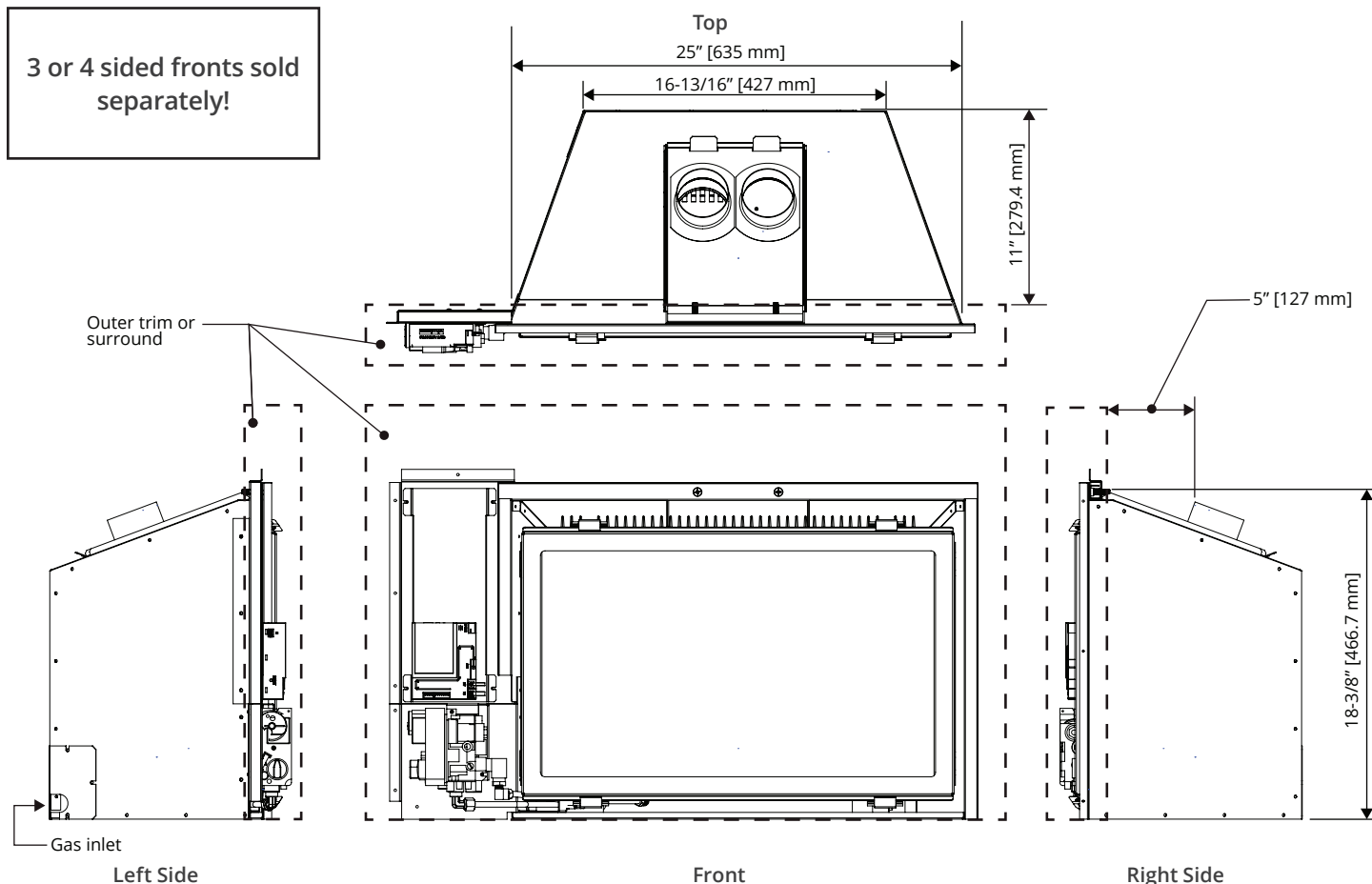
Notes: 1. Follow instructions supplied with each manufacturer's components.

2. Do not mix different components from different vent manufacturers, except those from Miles Industries which are approved to use with other manufacturers' components..

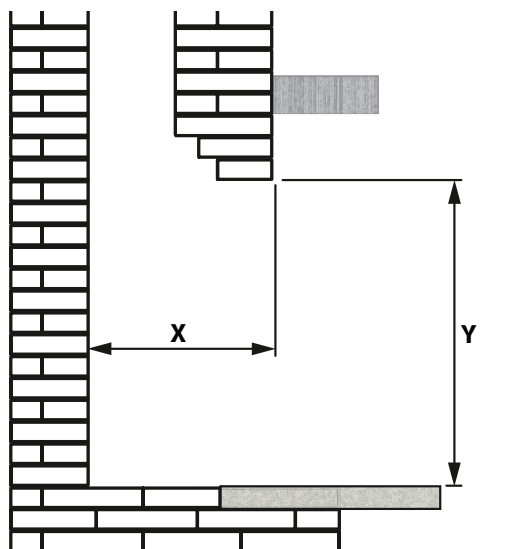
3. On G2 400 appliances, 400CFA with 590FVK2 can be installed on NG appliances ONLY.

Dimensions and Cavity

Fireplace Dimensions



Cavity



Minimum Cavity Dimensions

Check that masonry step does not interfere with install dimensions or vent pipe.

If mantel is combustible, see the following section for allowable clearances.

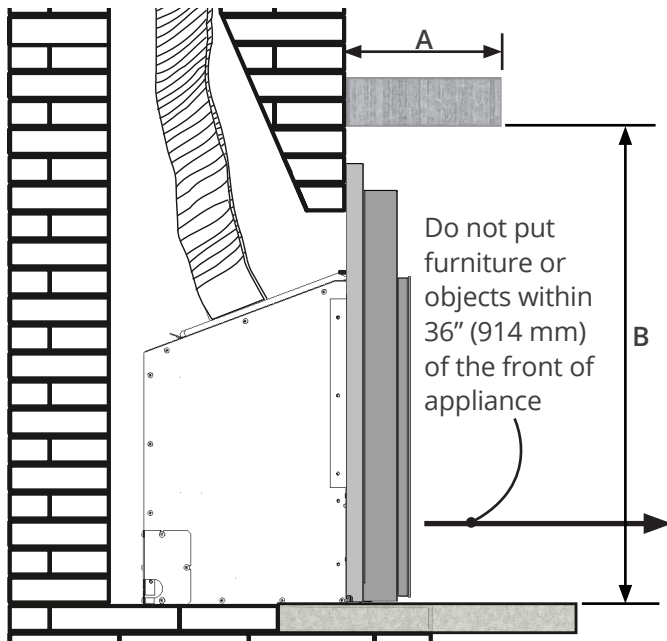
A hearth surface that is within 2-1/2" (64 mm) in height from the bottom of the heater **MUST** be non-combustible.

Minimum Depth (X)	11" [279.4 mm]
Minimum Height (Y)	18-3/8" [466.7 mm]
Minimum Width	25" [635 mm]

Clearances

Combustible Mantel and Sidewall

Combustible Mantel—Left Side View



Combustible Mantel Clearances

Mantel Projection A	5" (127mm)	8" (203mm)	12" (305mm)
Mantel Height B*	26-1/4" (667 mm)	29" (737mm)	33" (838mm)

*Measured from the underside of the mantel/shelf to the finished surface on which sits the fireplace.

Finishing Materials

Combustible materials: Materials made of or surfaced with wood, compressed paper, plant fibers, plastics, or other material that can ignite and burn, whether flame proofed or not, or plastered or unplastered.

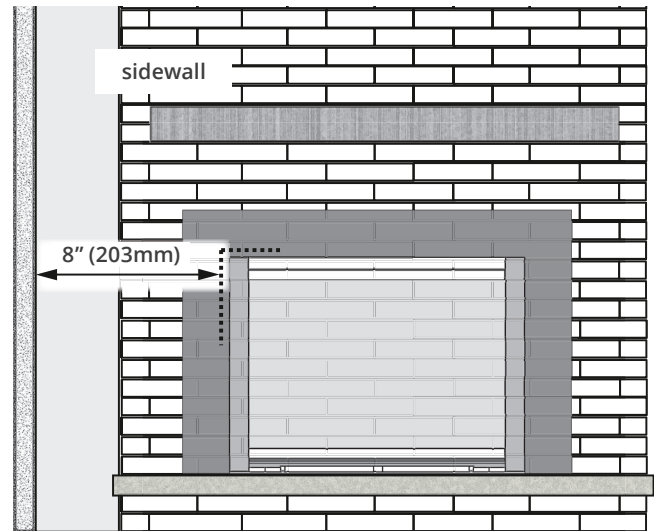
Non-combustible materials: Material which will not ignite and burn. Such materials are those consisting entirely of steel, iron, brick, tile, concrete, slate, glass or plasters, or any combination thereof.

Materials that are reported as passing ASTM E 136, Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750 °C

WARNING

Some materials or items, although safe, may discolor, shrink, warp, crack, peel, and so on because of the heat produced by the fireplace. Avoid placing candles, paintings, photos, and other items sensitive to heat around the fireplace.

Sidewall



Minimum distance from side of appliance (liner box) to combustible wall: 8" (203 mm).

Floor/ Hearth Clearances

Combustible shims/supports may be used beneath the appliance to level or raise the it within the existing fireplace cavity.

Combustible flooring/hearths in front of the appliance must be at a minimum of 2-1/2" (64mm) below the bottom of the appliance. Carpet, vinyl flooring should be placed at a minimum of 12" (305 mm) from the front of the insert. The gas insert does not require a hearth.

WARNING

HOT HEARTH/FLOOR! The hearth or floor in front of the fireplace may become very hot when the fireplace heats. Do not use the hearth as a seat or shelf. Solid wood flooring in front of the fireplace (if allowed) may shrink during the heating season due to heat.

WARNING

HOT GLASS! The use of a screen in front of the glass is highly recommended, particularly in households with children

Clearances

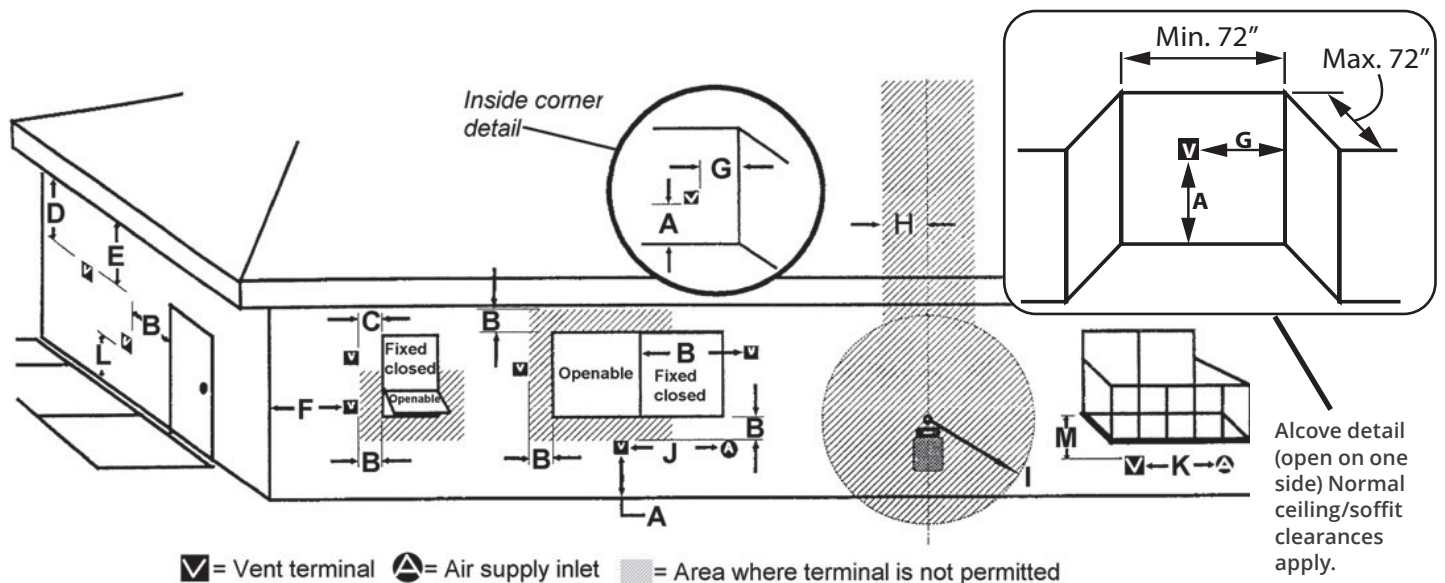
720SWK Sidewall Vent Terminal

Horizontal Vent Termination Location

- The vent terminal must be located on an outside wall or through the roof.
- This direct vent appliance is designed to operate when an undisturbed airflow hits the outside vent terminal from any direction.
- The minimum clearances from this terminal that must be maintained when located on an outside wall are shown in figure below. Any reduction in these clearances could result in a disruption of the

airflow or a safety hazard. Local codes or regulations may require greater clearances.

- The vent terminal must not be recessed into a wall or siding.
- The vent terminal should be positioned where any snowdrifts will not cover it.
- Sidewall vent terminations require a terminal guard such as 658TG or 845TG when accessible—within 7' of ground.



KEY	VENT TERMINAL LOCATIONS - MINIMUM DISTANCES	MINIMUM CLEARANCE	
		Inches	Cm
A	Clearance above grade, verandah, porch, deck or balcony	12	30
B	Clearance to window or door that may be opened	12	30
C	Clearance to permanently closed window (recommended to prevent condensation on window)	12	30
D	Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 feet (60 cm) from the center-line of the terminal	18	46
E	Clearance to unventilated soffit	12	30
F	Clearance to outside corner (measured from the center of vent)	12	30
G	Clearance to inside corner (measured from the center of vent)	12	30
H	Horizontal clearance to center-line of meter/regulator assembly located within 15 feet (4.6 m) below the terminal	36	90
I	Clearance to service regulator vent outlet	36	90
J	Clearance to non-mechanical air supply inlet to the building or the combustion air inlet to any other appliance	12	30
K	Clearance to a mechanical air supply inlet	72	180
L	Clearance above paved sidewalk or a paved driveway located on public property Note: A vent must not terminate directly above a sidewalk or paved driveway, which is located between two single-family dwellings and serves both dwellings. THIS DOES NOT APPLY to direct vent, non-condensing appliances in the Province of Ontario.	84	210
M	Clearance under a verandah, porch, deck or balcony <i>Only permitted if veranda, porch, deck or balcony is fully open on a minimum of 2 sides beneath the floor</i>	12	30

Note: Local codes and regulations may require different clearances.

Installation Planning

Before Installation



Caution

Only qualified, license, or trained personnel should install this appliance.

Before Installation

1. YOU NEED TO KNOW FROM THE HOMEOWNER:

- What front, and optional accessories (if any) will be installed with this unit.

2. Unpack the appliance and recycle the packaging.

3. Check that you have everything, using the Pack Content sheet. Also, check that you have:

- Fuel bed
- Liner panels
- Venting accessories
- Electrical accessories (if using a fan kit)*
- Any other accessories

4. Carefully read the Installers Checklist included with the fireplace for the installation sequence.

Please note that the following steps must be done before the appliance is placed in its final position in the cavity since the connections are located at the back of the appliance.

- Gas connection
- Gas conversion
- Fan installation



WARNING

**NO ELECTRICAL CONNECTION ALLOWED
for any outdoor installation!**

Installation Planning

Concept

This gas fired insert heater is approved for installation only within a masonry wood-burning fireplace cavity or a factory-built UL127 listed wood-burning fireplace.

This appliance may be installed in outdoor, weather protected environments as defined in the GV60CKO Outdoor Conversion Kit instruction manual.

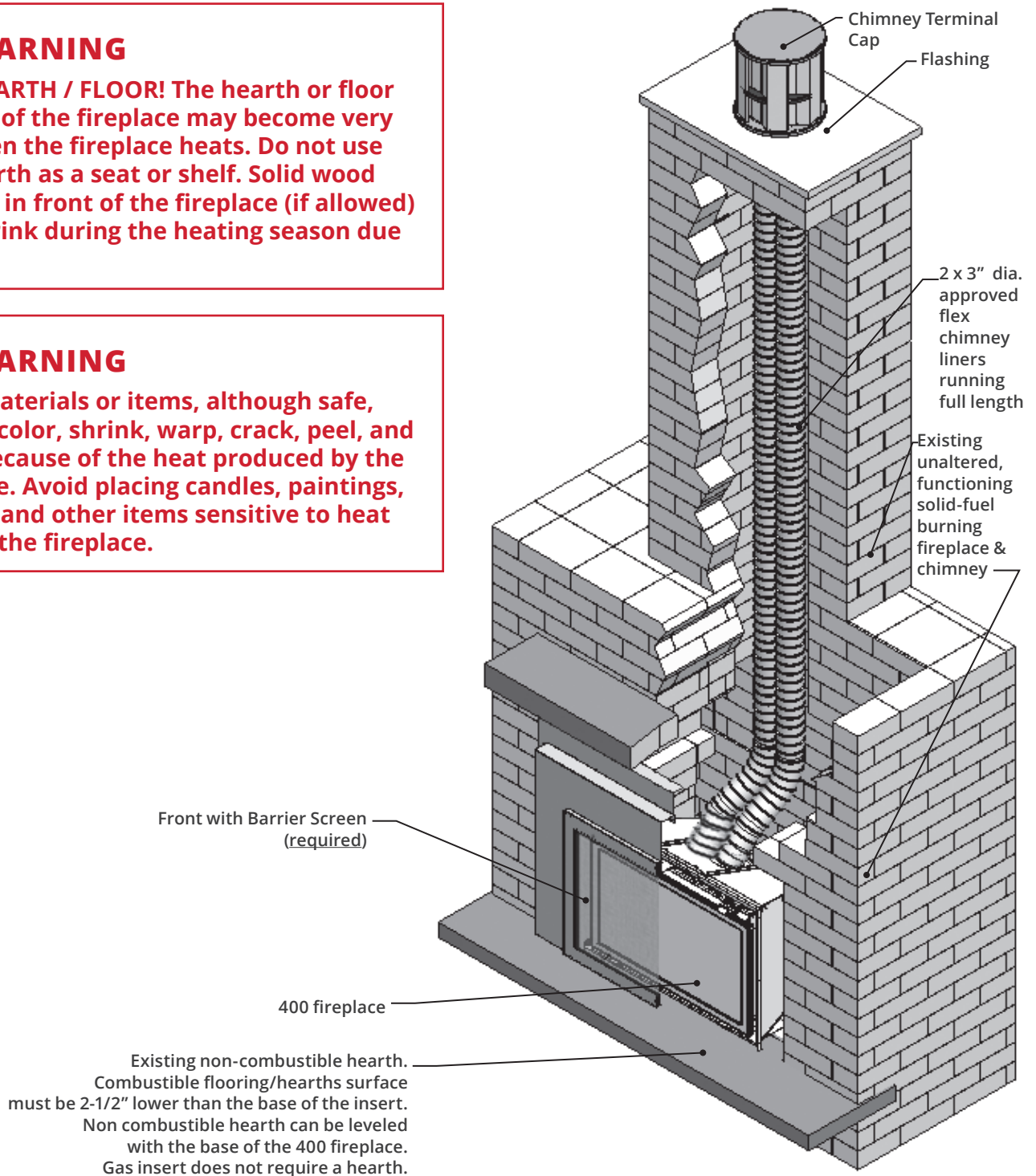
DO NOT install into combustible construction. This appliance is NOT APPROVED for installation with a zero clearance kit.

WARNING

HOT HEARTH / FLOOR! The hearth or floor in front of the fireplace may become very hot when the fireplace heats. Do not use the hearth as a seat or shelf. Solid wood flooring in front of the fireplace (if allowed) may shrink during the heating season due to heat.

WARNING

Some materials or items, although safe, may discolor, shrink, warp, crack, peel, and so on because of the heat produced by the fireplace. Avoid placing candles, paintings, photos, and other items sensitive to heat around the fireplace.



Venting

Concept

Co-Linear 3" x 3"

Co-Axial Flex 5" x 3" (NG ONLY)

See the *Approved Venting Components* list on page 8 of this manual.

Vent Location

The vent terminal must be located through the roof. This direct vent appliance is designed to operate when an undisturbed airflow hits the outside vent terminal from any direction.

Check local codes for allowable vertical vent termination.

Venting Table

Maximum vertical height	40 ft (measured to bottom of termination)
Minimum vertical height	10 ft (measured to bottom of termination)
Maximum horizontal run	4 ft (measured center to center of pipe)
Maximum offset angle	45° (sweeping bend to allow for obstructions)

Venting Notes

Where possible, avoid splicing flex pipes. If splices are required, use a approved connector and seal joints with *RTV high temp sealant*.

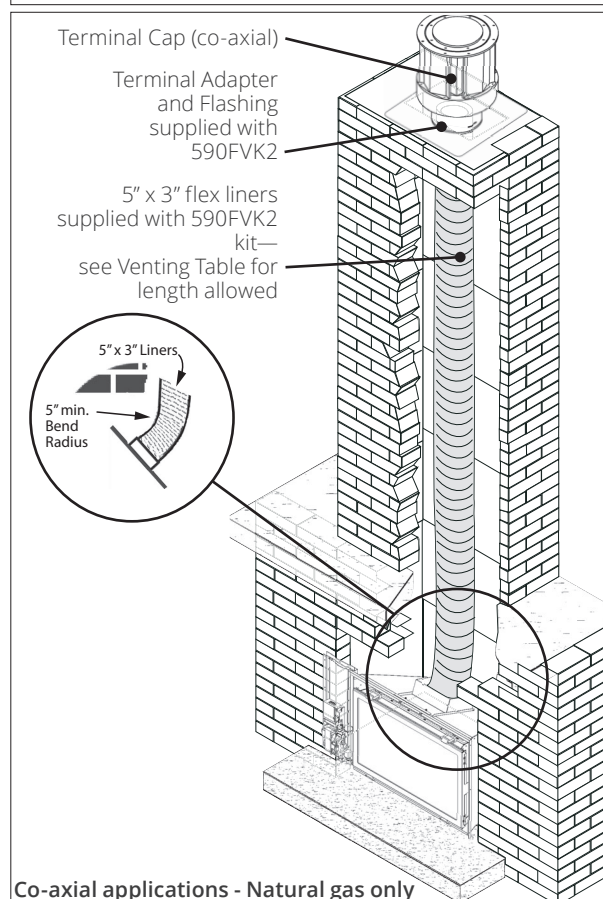
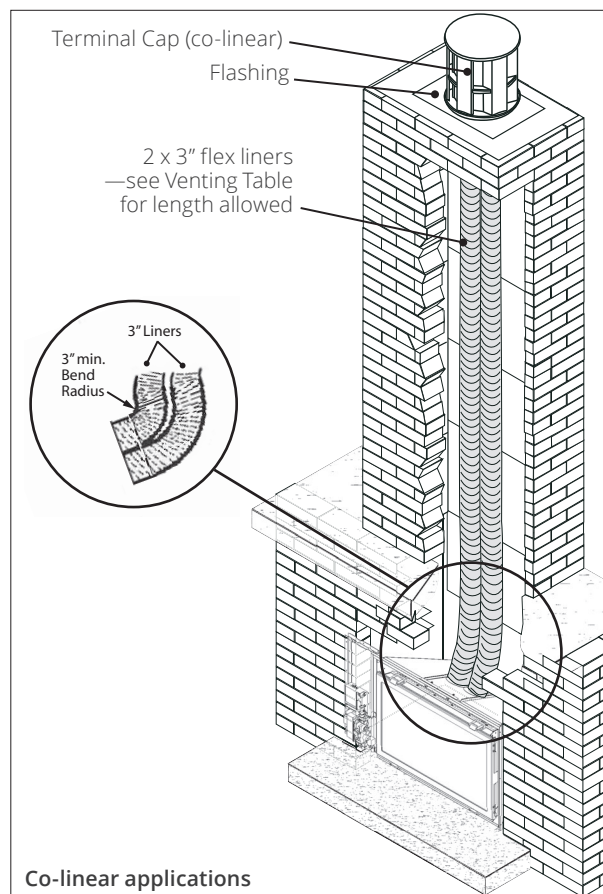
Four feet horizontal is permissible to allow for routing around masonry projections. Do not bend flex pipe over a 45 degrees radius.

1. Co-linear venting may be converted to solid 4" x 6-5/8" co-axial venting at the top of the existing solid-fuel burning chimney as necessary where the existing chimney has deteriorated and been removed. The conversion must be done using approved components (see page 11) and proper vent clearances to combustibles must be maintained.
2. Flex liners may only be installed into solid-fuel burning fireplaces and chimney systems (no combustible construction).
3. The appliance must not be connected to a chimney flue serving a separate solid-fuel burning appliance.

Note

This appliance may also be vented using the following optional methods (see installation instructions packaged with optional kits):

- 720SWK—Co-linear sidewall kit



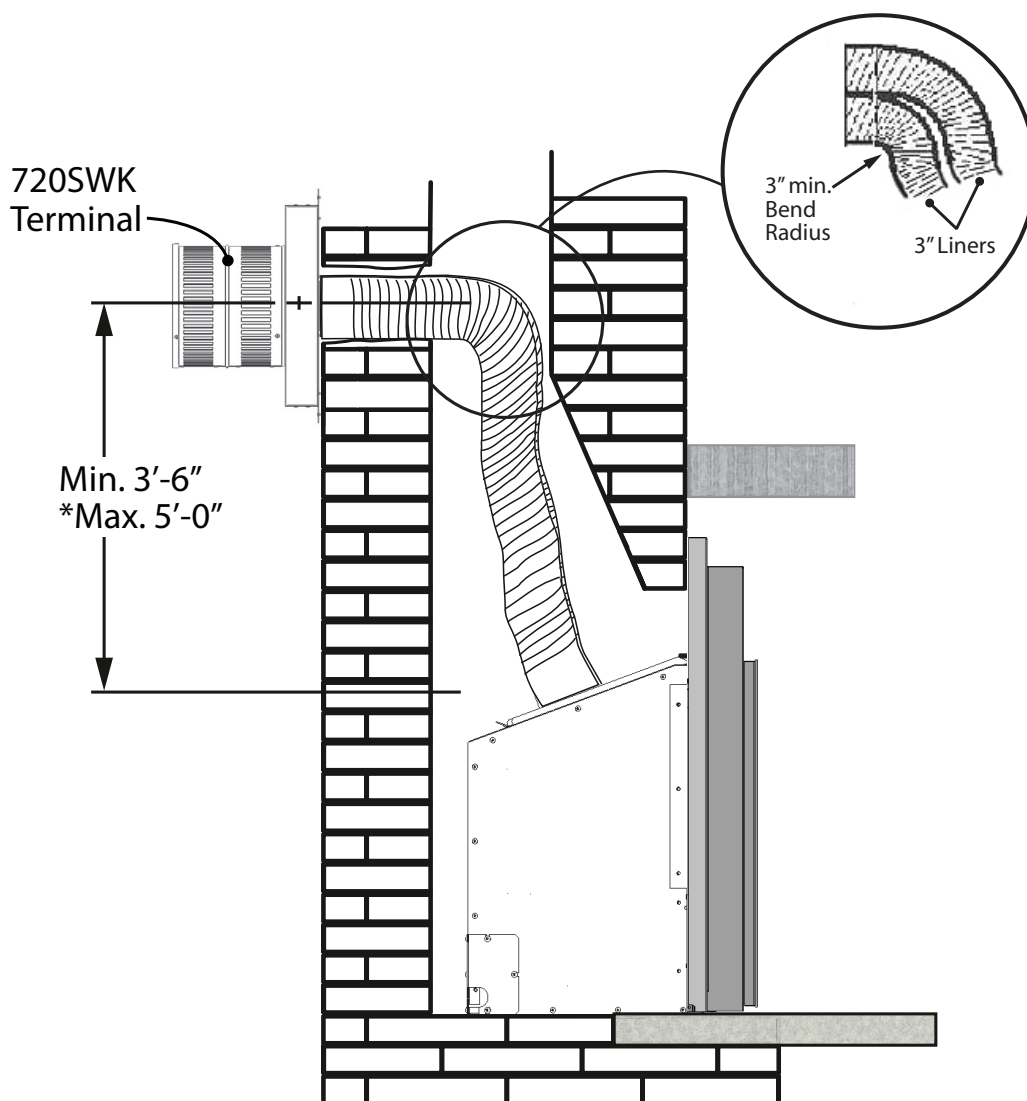
Venting

720SWK Sidewall Co-Linear Terminal

Alternate Venting with optional 720SWK—Co-linear sidewall kit

The appliance may also be vented using the optional
720SWK—Co-linear sidewall kit—see installation
instructions supplied with the kit.

Terminal Clearances: See page 11.

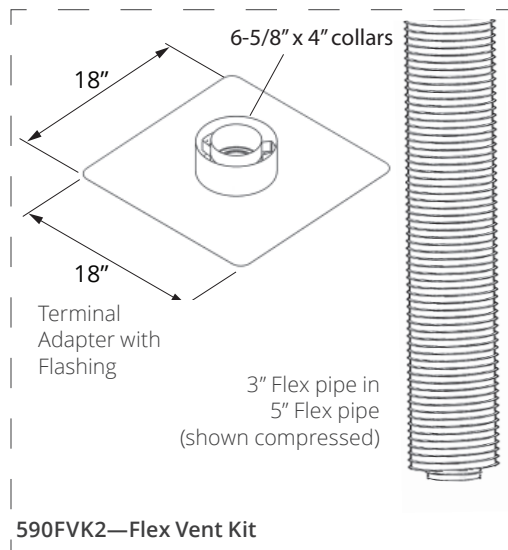
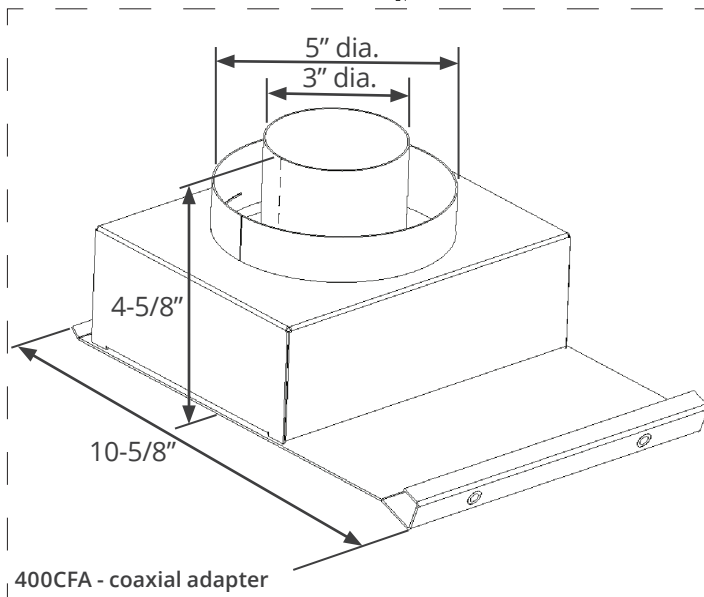
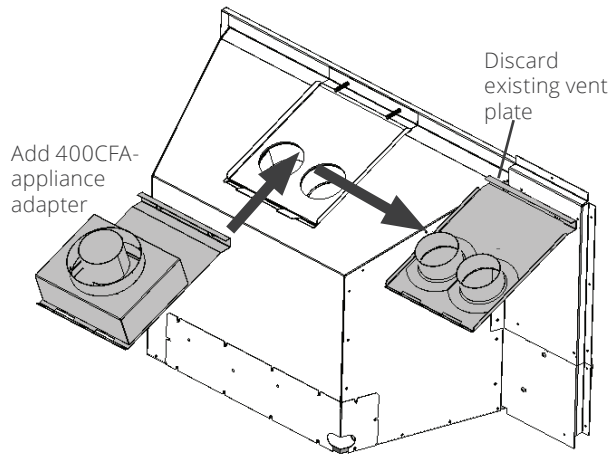


Venting

400CFA+590FVK2 Co-axial Conversion (NG)

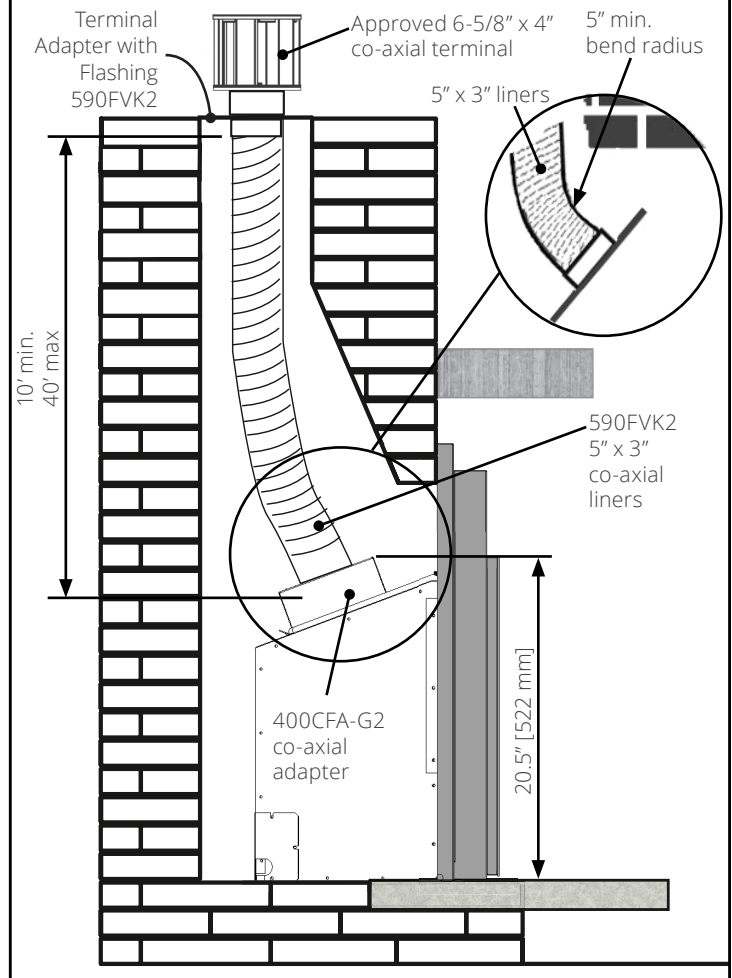
400CFA+590FVK2 Co-Axial Flex (NG ONLY) (Not compatible with 400AP propane unit)

Venting options



400AN with 400CFA & 590FVK2 -Co-axial appliance adapter and flex vent kit

Co-axial installation into existing F/P

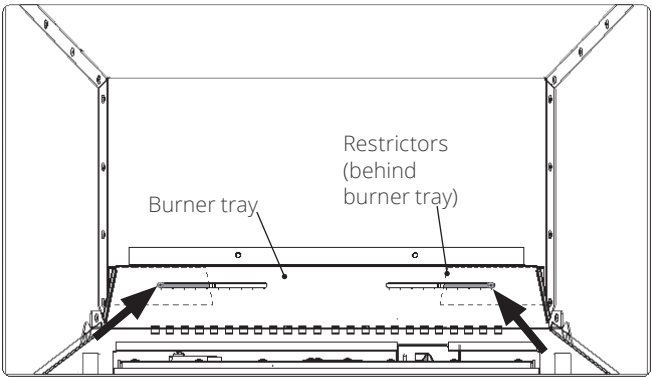


Air Restrictors Settings

Both air restrictors are placed behind the burner tray and can cover the air inlet opening. They are held in place by a screw from the front of the burner tray.

To adjust the air restrictors, partially loosen the screws to allow side-to-side motion, place in position, then tighten the screws—see positioning guidelines below.

Due to the wide variety of venting installations and configurations, variances in restrictor settings should be expected.



Vertical height	Restrictor settings
20 feet or less	A perspective diagram of a burner assembly for a vertical height of 20 feet or less. Two air restrictors are shown fully covering the air inlet openings behind the burner tray. Arrows point to the restrictors.
Between 20 to 40 feet	A perspective diagram of a burner assembly for a vertical height between 20 and 40 feet. Two air restrictors are shown partially open, creating a gap of 2-5/8 inches between the restrictor and the burner tray. Dimension lines and arrows indicate this gap.
40 feet	A perspective diagram of a burner assembly for a vertical height of 40 feet. Two air restrictors are shown partially open, creating a gap of 1-3/4 inches between the restrictor and the burner tray. Dimension lines and arrows indicate this gap.

Preparation

This gas-fired insert heater is approved for installation only within a masonry wood-burning fireplace cavity or a factory-built UL127 listed wood-burning fireplace.

Existing Fireplace Preparation

A few points must be considered before inserting the 400 into an existing fireplace cavity. Generally, no modifications are allowed to the existing fireplace that will compromise the integrity of the existing fireplace.

Components that are bolted or screwed on such as dampers or baffles may be removed to accommodate the installation of the 400 engine. Refractory bricks and log grates may also be removed.

Cutting away any sheet metal parts of the existing fireplace to accommodate the installation of the 400 is prohibited.

Check with local authorities if in doubt.

Clean Fireplace and Chimney

Have the chimney swept and the fireplace cavity including ash dumps and clean-outs cleaned before installing the 400 heater and vent liners. Any creosote or soot residue remaining in the fireplace cavity chimney or clean-out may cause odors or stains once the 400 insert is installed. Consult with chimney sweep for information on how best to clean.

Existing Dampers

Factory-built, zero-clearance fireplaces will require the damper to be removed in order to install the vent liners. These dampers are usually bolted into place. Dampers in masonry fireplaces must be fixed open and may remain in place.

Ash Retaining Curbs

Some fireplaces (particularly factory-built) have a raised curb at the front edge to retain ashes. Check the dimensions carefully to ensure the 400 engine will fit behind any raised curb (some curbs may be removed separately from the refractory base).

Existing Fireplace

Gas Line Routing

Plan the routing of the gas line before proceeding. Utilize the existing hole for the gas line of the factory-built fireplace.

If the fireplace has no access hole, carefully drill an access hole of 1.5 inch (38 mm) or less through the lower sides or bottom of the firebox. The access hole must be plugged with non-combustible insulation after the gas supply line has been installed.

See *Dimensions* section for detailed location of gas inlet. Also, take into consideration whether or not a fan, its cord, or shut-off valve will interfere when planning routing of the gas line.

Existing Glass Doors and Wire Screens

Existing glass doors must be permanently removed prior to installing the 400 insert.

Combustible Mantels

Combustible mantel clearances must conform to those required for the original solid-fuel fireplace into which the 400 is being installed.

Attach Warning Conversion Plate to Existing Fireplace

(Label supplied loose with 400 heater)

Attach the "This fireplace has been converted..." label to the existing fireplace using screws or other mechanical means and store any removed parts in back of the existing fireplace for future use.

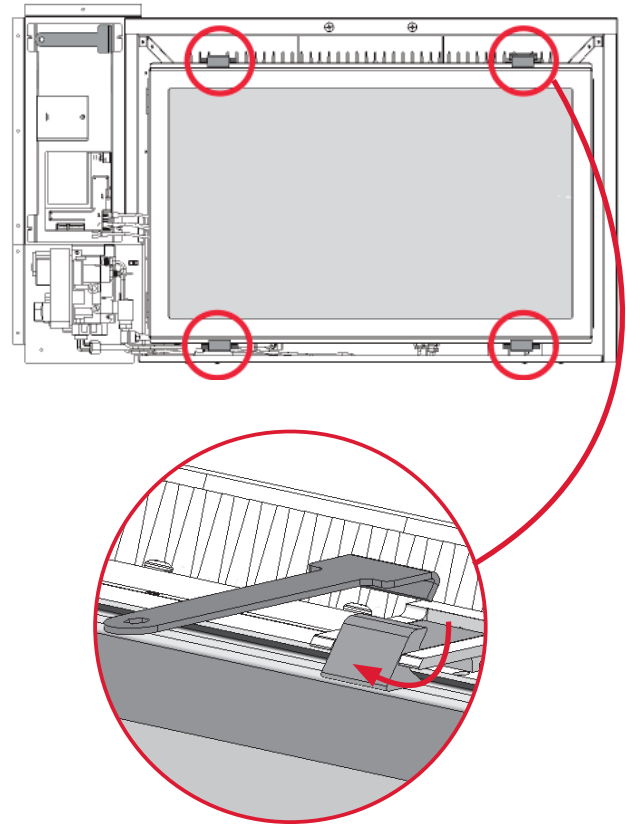
Installation

Window and Fan

Remove Window

The window is held in place by four spring-loaded latches, two at the top and two at the bottom.

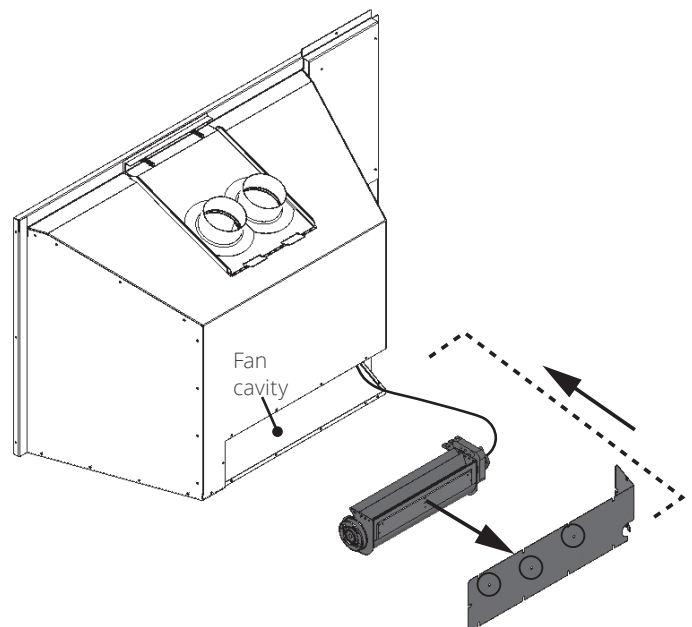
1. Locate the latch hook pull from the location above the battery pack.
2. Use the latch hook pull to disengage the bottom 2 latches.
3. While holding the window with your free hand, disengage the top two latches.
4. Carefully remove the window and set it in a safe place to avoid damage.



Install Fan (if used)

If the 455CFK—Circulating Fan Kit (blower) is to be installed, we suggest that you do it now. Refer to instructions provided with the 455CFK to install the fan.

The fan cavity is accessible from the back of the firebox to facilitate its installation. If the fan is retrofitted after the installation of the appliance, the fireplace will need to be pulled out of the cavity and disconnected from venting plate. Therefore, we recommend that, where possible, the fan be installed before the appliance is fitted into the cavity.



WARNING

**NO ELECTRICAL CONNECTION ALLOWED
for any outdoor installation!**

Installation

Venting System and Appliance

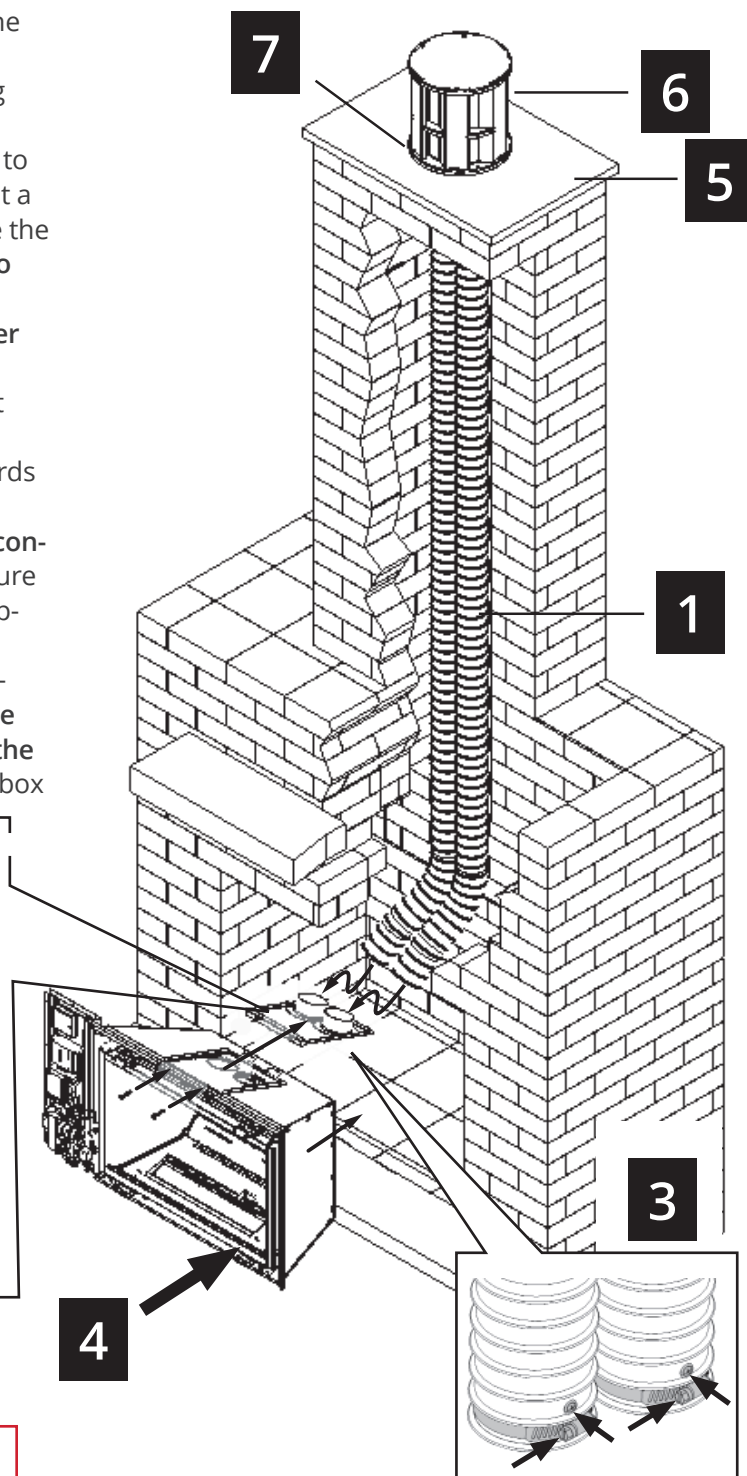
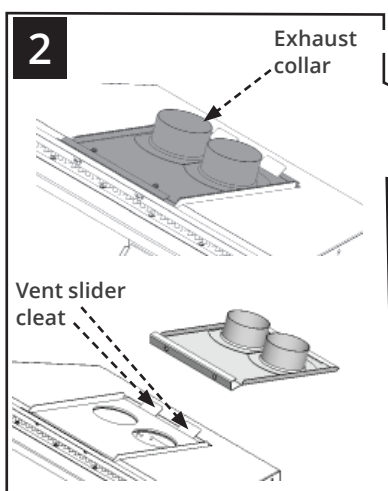
Connect Venting

IMPORTANT: This appliance's venting system is room sealed and therefore, does not require room air to be used in the combustion process.

1. Rough-in two 3" diameter vent liners into the existing chimney system from the roof. Be careful not to tear or damage the liners in the process. It may be easier to install both liners at the same time rather than one at a time. Leave plenty of liners at the bottom to facilitate the connection of the liners to the vent slider. **It is best to leave the top termination until later.**

Designate and mark the top and bottom of one liner as "EXHAUST" to avoid confusion later.

2. Release the two screws retaining the welded exhaust flue assembly (vent slider) to the front of the firebox. Remove the slider from the firebox by sliding it towards the back of the firebox.
3. Fit the two liners ensuring that the exhaust liner is connected to the identified "EXHAUST" vent collar. Secure liners to collars with hose clamps (included) and 2 tapping screws per liner.
4. Slide the firebox onto the vent slider in the cavity taking care not to damage the liners. **Make sure that the rear edge of the slider is hooked over the cleat on the firebox.** Secure the vent slider to the front of the firebox with two screws removed earlier.
5. From the roof, pull the liners and fit the flashing.
6. Fit the terminal cap ensuring that the exhaust liner is connected to the exhaust vent collar. Secure with screws.
7. Seal the terminal and flashing from water penetration as required.



WARNING

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

Installation

Gas Supply

Connect Gas Supply

The gas supply inlet connection is a 3/8" male SAE flare fitting and is located at the back left corner of the fireplace. A stainless steel flexible connector with gas shut-off valve at the end is supplied with this fireplace.

Use only new black iron or steel pipes, CSST, or copper tubing if acceptable—check local codes. Note that in USA, copper tubing must be internally tinned for protection against sulfur compounds.

The burner module and gas train on this appliance may be removed as a unit for servicing. The flex pipe supplied with the unit provides a union for removal of the module.

Unions in gas lines should be of ground joint type.

The gas supply line must be sized and installed to provide a supply of gas sufficient to meet the maximum demand of the appliance without undue loss of pressure.

Sealant used must be resistant to the action of all gas constituents including LP gas. Sealant should be applied lightly to male threads to ensure excess sealant does not enter gas lines.

Pressure test the supply line for leaks.

The appliance and its individual shut-off 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 psig (3.5 kPa).

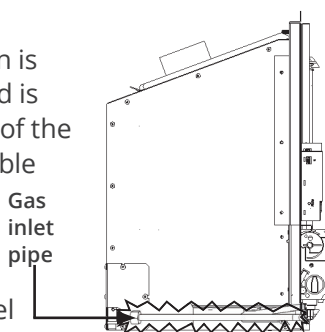
The appliance must be isolated from the gas supply piping system by closing its equipment shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psi (3.5 kPa).

Failure to either disconnect or isolate the appliance during pressure testing may result in regulator or valve damages and void the warranty. Consult your dealer in case of damages.

Pressure Test Points

The minimum supply pressure is given in the section "Specifications" on page 6 of this manual.

All piping and connections must be tested for leaks after installation or servicing. All leaks must be corrected immediately.



When testing for leaks:

- Make sure that the appliance is turned off.
- Open the manual shut-off valve.
- Test for leaks by applying a liquid detergent or soap solution to all joints. Bubbles forming indicate a gas leak.

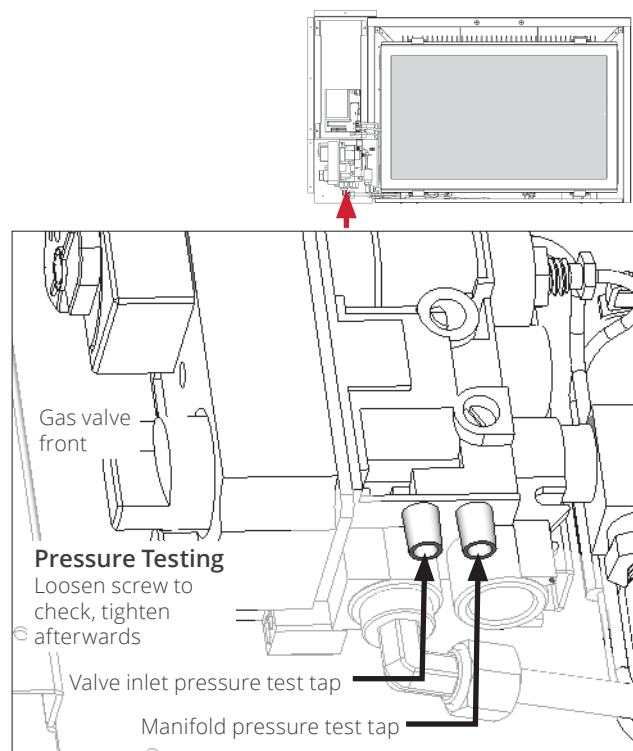
WARNING

NEVER USE an open flame to check for leaks. Correct any leak detected immediately.

The pressure test tapping locations are shown in the figure below. An internal regulator within the valve controls the burner manifold pressure.

The correct pressure range is shown in the table in section "Specifications" on page 6. The pressure check should be made with the burner alight and at its highest setting. See "Appendix A - Lighting Instructions Plate" on page 32 for full lighting details.

Use tool provided (small ratchet wrench fitted with a 4mm (5/32") flat bit) to loosen or tighten the valve's inlet and manifold pressure test tap ports shown below.



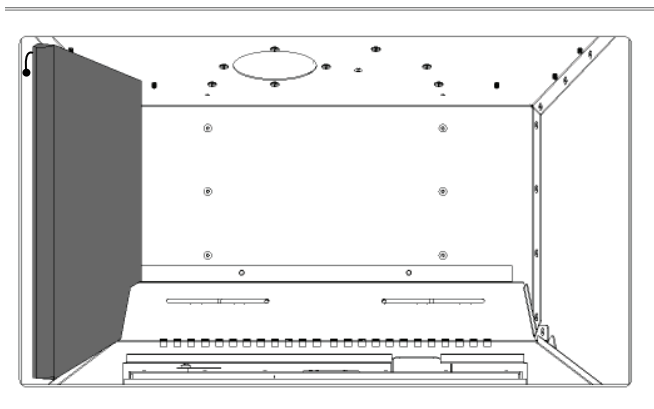
Installation

Liner Panels

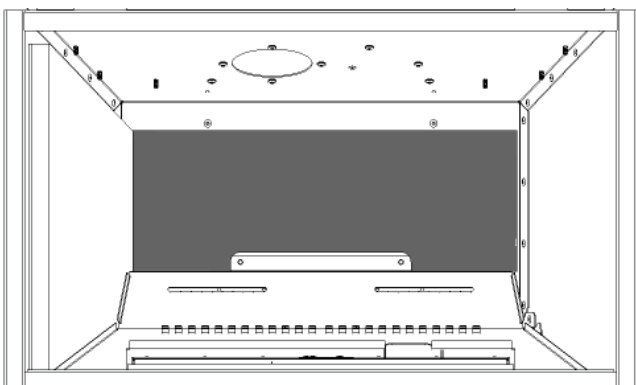
460PBL Liners

The side panels have a side that is rougher than the other. Ensure the smoother side is visible.

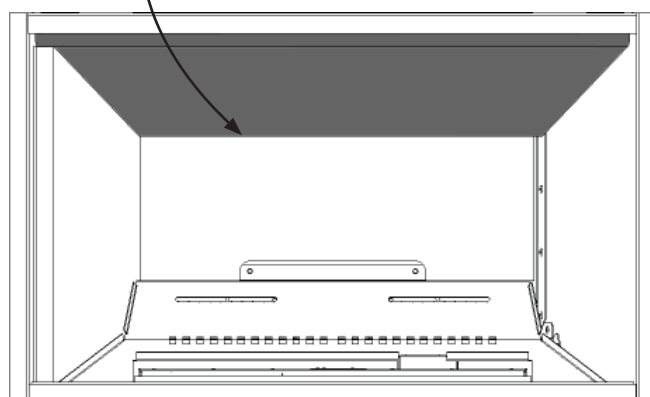
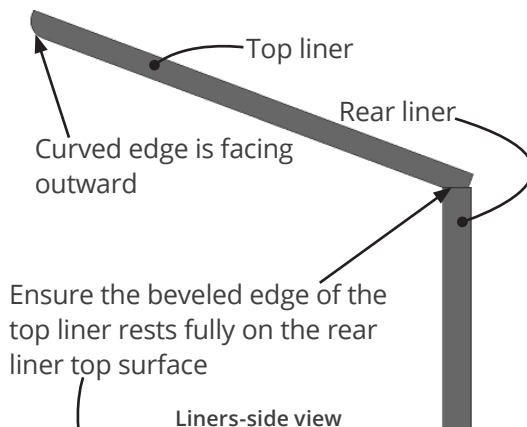
1. Insert side panel between the firebox side and burner tray and place the panel against the firebox side.



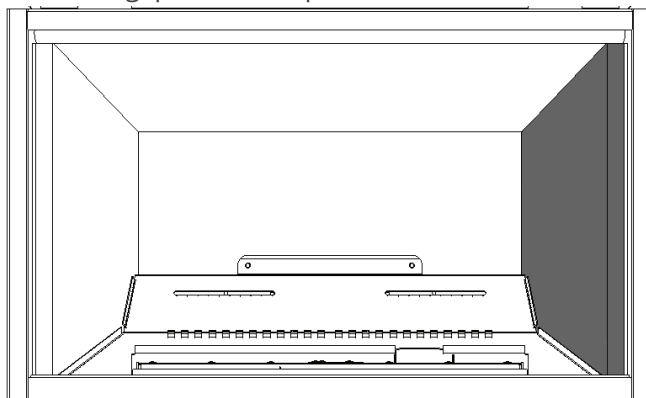
2. Place the rear panel against the back of the firebox. Then, slide it behind the side panel already installed.



3. Insert the top panel into the firebox on top of the side and rear panel, beveled edge towards the back of the firebox. Hold the panel with your hand for the next step.



4. While holding the top panel with your hand, position the remaining side panel. Ensure the rear side of the panel rests fully against the firebox side wall and center the rear and top panel so that there are no gaps between panels.



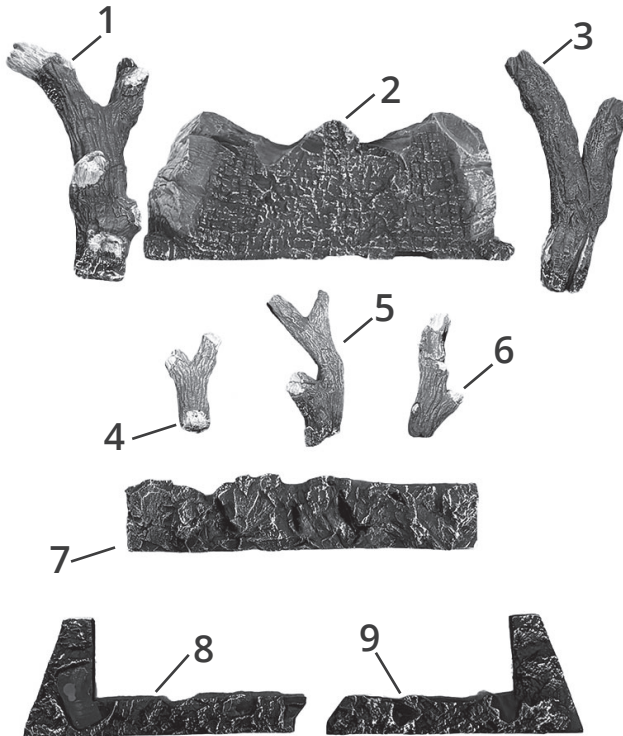
Installation

Fuel Bed

Traditional Log Kit 405LSK

Material required

- Traditional Log Kit, which contains:
 - 7-logs
 - 2-piece plaques
- Gloves, if desired, not included.



Installation

Carefully unpack the kit and install the logs as shown below.

1. Place the ember bed #7 directly on the burner and center it to left to right. **Ensure burner ports are visible and exposed.**



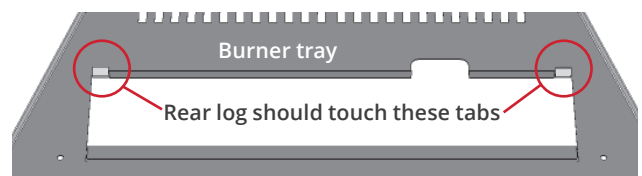
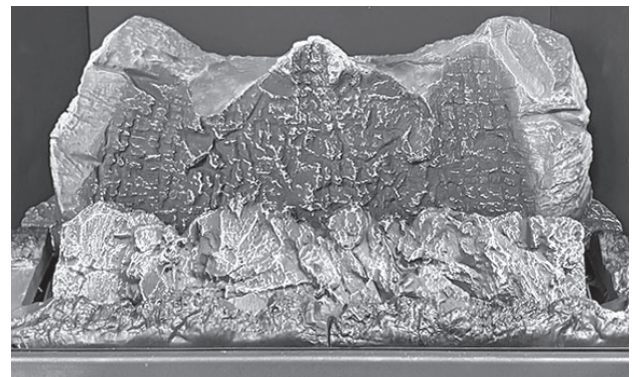
2. Place plaque #9 on the burner tray.



3. Place plaque #8 on the burner tray. Move the plaques to touch at the center.



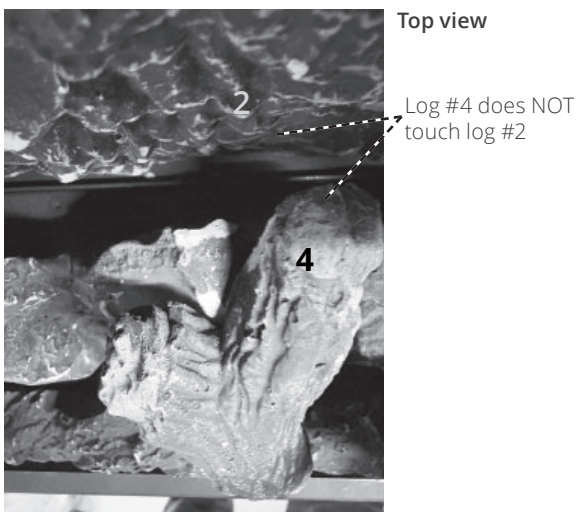
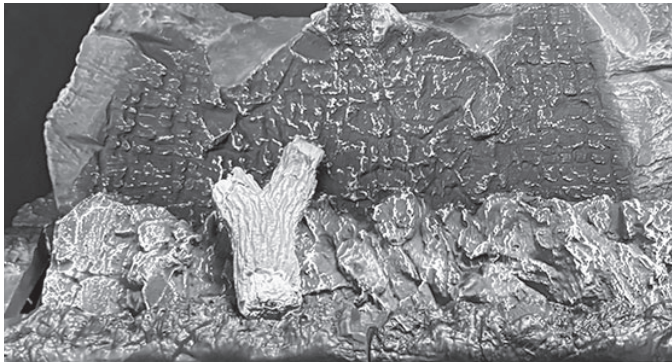
4. Place the rear log #2 on the burner tray, center it left to right and move it forward to contact the tabs on each side of the burner tray flange.



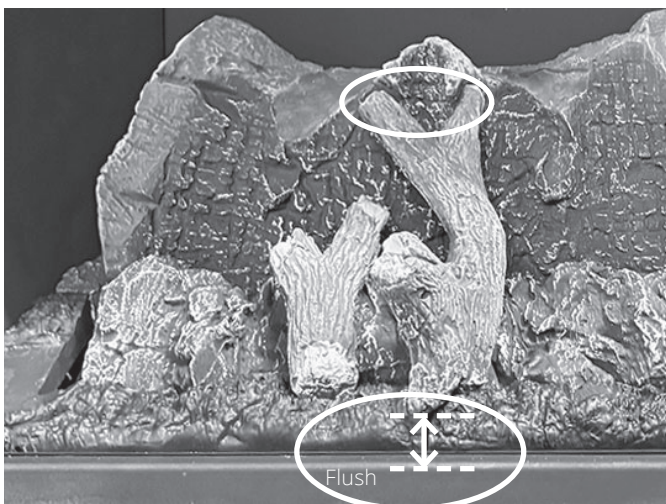
Installation

Fuel Bed

5. Place log #4 in the center left recess of plaque #8 as shown.. The log should NOT touch the rear log #2.



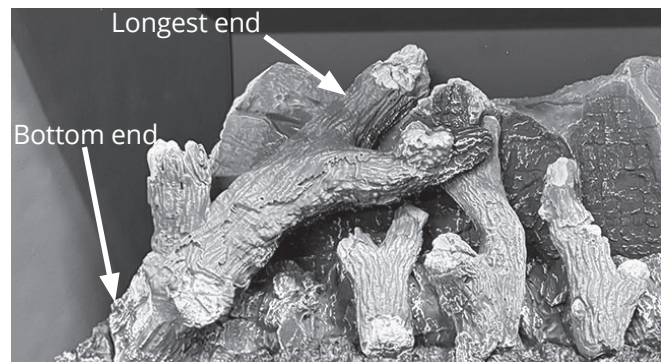
6. Place log #5 in the center recess of both plaques as shown, make sure the Y end of the log fits in both small recesses of the rear log #2. The front of the log should be flush with the front of the firebox.



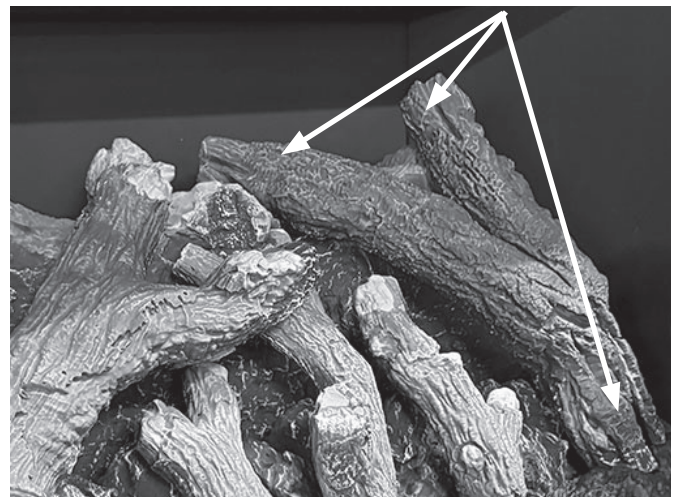
7. Place log #6 in the center right recess of the right plaque #9 as shown and against the recess in rear log #2.



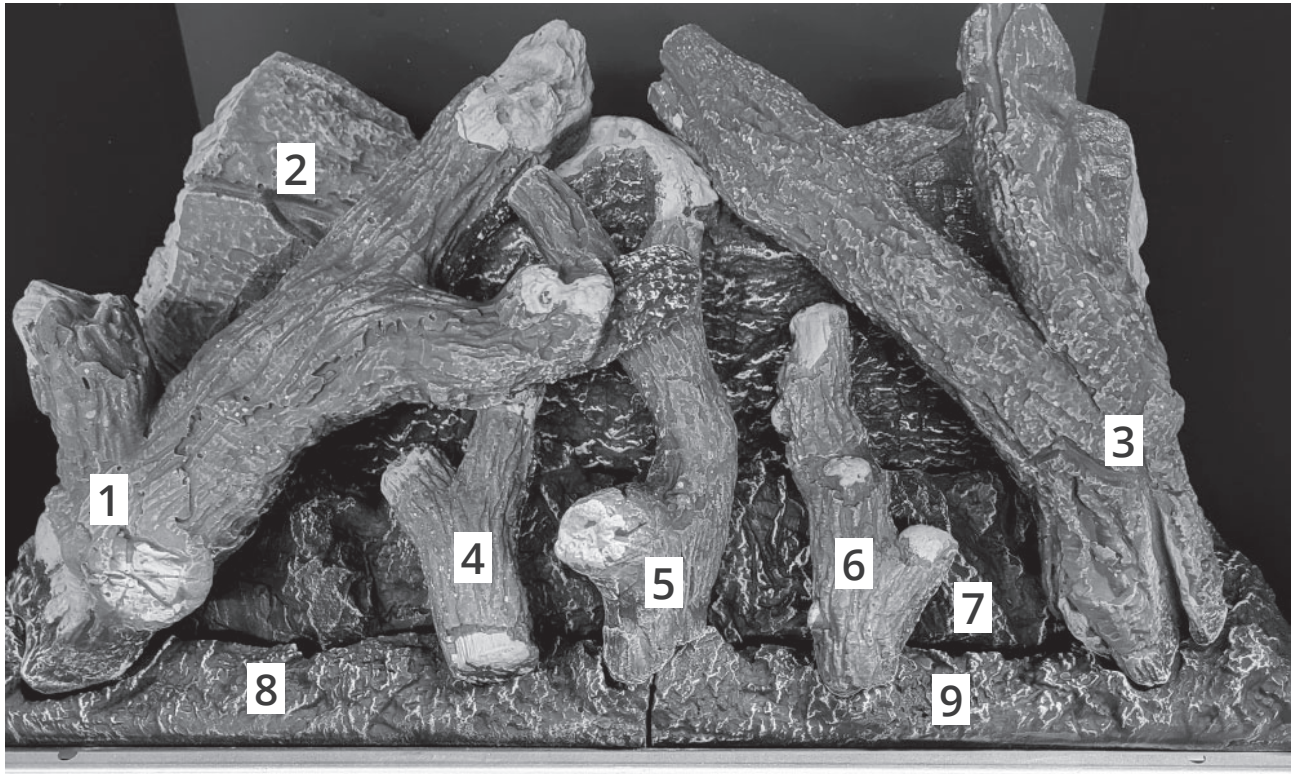
8. Place log #1 by resting its bottom end in the left ceramic plaque #8 recess and its longest end in the left recess of the rear log #2. The other branch of the Y partially covers log #5.



9. Place log #3 by resting its bottom end in the right ceramic plaque #9 recess and its branches on rear log #2 recesses.



405LSK installed

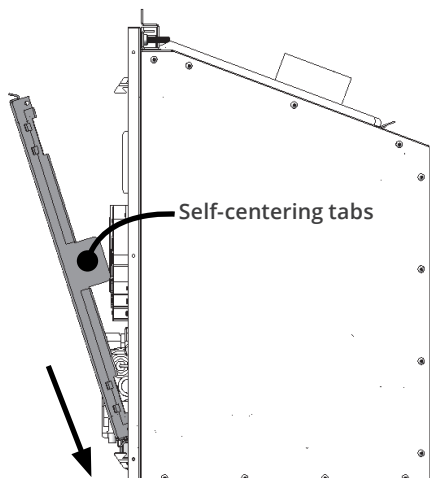


Installation

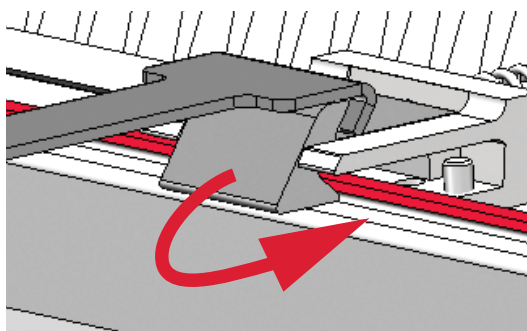
Window Re-Installation and Verification

Refit and Check Window

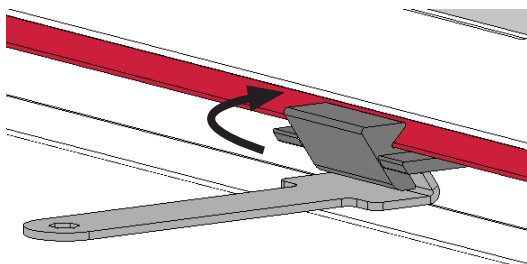
1. Place the bottom edge of the window onto the bottom latch hooks as shown.



2. Place the window against the firebox. Then hook the top latches using the hook pull.



3. While holding the window with one hand, hook the bottom latches to the window frame.



4. Pull and release the top and bottom of the window to ensure the spring loaded levers work well.
5. Apply firm hand pressure around the window frame to ensure the window is sealed tight against the firebox.

WARNING

The window unit must be correctly installed, fastened and sealed after servicing or serious bodily injury and/or damage to the appliance may result.

To ensure a safe operation:

- Double-check that the window is correctly installed against the firebox;
- Verify that the latches are hooked properly to the window tabs then;
- Pull out top and bottom of the window and release them to ensure the springs return it;
- Ensure the window is well sealed to the firebox before operation.

WARNING

Failure to install the window correctly can:

- Leak carbon monoxide.
- Affect the performance of the fireplace.
- Damage components.
- Cause overheating resulting in dangerous conditions.

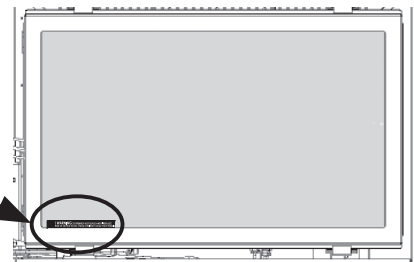
Damage caused by incorrect window installation is not covered by the Valor Warranty.

6. If the Hot Glass Warning plate has been removed from the front lower corner of the window, reinstall it by sliding it between the glass and the frame as indicated below.

! WARNING: EXTREMELY HOT GLASS AND FIREPLACE
Risk of severe burns. Keep Children away from fireplace & controls.

AVERTISSEMENT : VITRE ET FOCIER EXTREMEMENT CHAUDS
Risque de brûlures graves. Éloignez les enfants du foyer et des commandes.

Hot Glass Plate



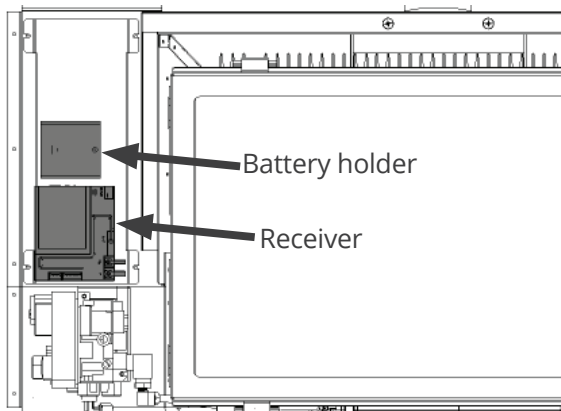
Installation

Batteries and Remote Control Pairing

Install Batteries

The batteries that power the receiver need to be installed and placed prior to synchronization and use.

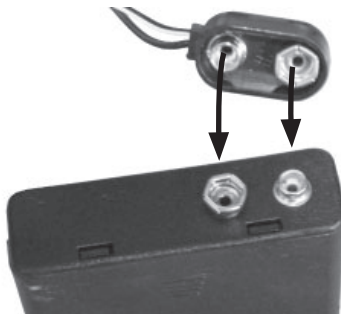
1. On the left side of the firebox, detach the battery holder from the control panel. If it is connected, disconnect its cable.



2. Remove the battery holder cover (1 screw).
3. Insert 4 x AA 1.5V alkaline batteries supplied with the fireplace in the battery holder.
4. If the battery holder wire is not already connected to the receiver, connect it to the receiver as indicated.



5. Connect the snap-button connector to the battery holder as shown.
6. Relocate the receiver (if removed) and the battery holder on the control panel above the gas valve. **Ensure the RESET button of the receiver is on the left side.**
7. Reinstall the battery holder above the receiver.
8. Use a heat resistant zip tie to gather any extra cable between the receiver and the battery holder.
9. Insert cables behind the control panel.



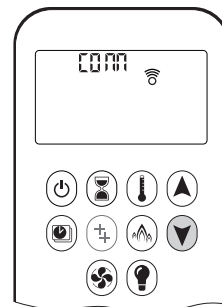
Pair Remote Control Receiver and Handset

The receiver and handset of the remote control system must be initially paired before first use.

1. Locate the RESET button on the left face of the receiver.



2. With a thin object, press and hold the receiver's reset button until you hear one short and one long beep. Release the button after the second beep.
3. Within the subsequent 20 seconds, press and hold the  button on the remote handset for 2-3 seconds.  will be displayed and flash on the handset during the pairing sequence. The handset will count up from 1 to 8, and you will hear two short beeps confirming the pairing is done.



If you hear one long beep, the pairing sequence has failed or the wiring is incorrect.

This is a one time setting only and is not required when changing the batteries in the remote handset. The remote control system is now ready to use.

Installation

Operation and Aeration Verification

WARNING

Do not operate this appliance with the glass front removed, cracked, or broken.

The glass front assembly *MUST* be in place and sealed before the unit can be placed into safe operation.

IMPORTANT

The fireplace window **MUST** be installed before checking the operation, system verification, gas purging and handing over to the customer to ensure the appliance functions as intended and prevent reverse venting and other malfunctions.

Check Operation

Turn the fireplace flame up and down using the remote control to confirm that the full range of inputs is achieved—see “Appendix B - Remote Control Operation” on page 33.

Adjust Aeration (if necessary)

With the window installed, light the fire and allow the unit to warm up for 10–15 minutes to evaluate the flame picture. Burners are equipped with an adjustable shutter to control primary aeration. See the figures below. The shutters are factory-set to an aeration gap which will give optimum performance for the vast majority of installations.

Depending on altitude and other considerations, the flame picture may be improved by adjusting the aeration. The need for adjustment should be determined only by operating the appliance with the fuel bed, liners and window installed and evaluating the flame picture after a 15-minute warm-up.

Increasing aeration (opening air shutter) will cause the flames to appear more transparent and blue showing more ceramic effects glow.

Decreasing aeration (closing air shutter) will cause the flames to appear more yellow or orange showing less ceramic effects glow.

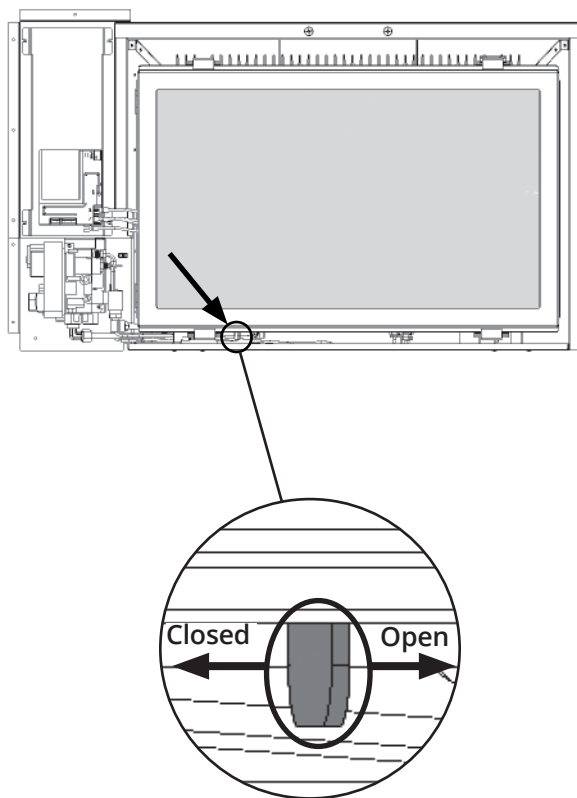
Too little aeration may result in black carbon forming on the logs or roof panel and dropping into the firebox. May also result in carbon or soot stains on the vent termination and exterior wall around the termination! The Manufacturer is not responsible for any damage caused by an air shutter setting with too little aeration.

Air Shutter

The air shutter adjustment lever is located under the firebox. If the trim or front is already installed, remove the barrier screen at the front of the fireplace.

To adjust the air shutter:

1. Locate the aeration lever under the firebox on the left side.
2. Move the lever left or right to the desired position.



Backing Plate, Surround and Front

Install the 3 or 4 sided Edgemont front chosen by the customer for their fireplace.

Show the customer how to remove the screened front and surround to access the controls.

Follow the instructions provided with the front, and leave those instructions with the customer for future reference.

Install Remote Control Handset Wall Holder

The remote control kit for this fireplace comes complete with a wall-mounted holder. This holder is not required in all installations but is provided as an optional feature for those customers who wish to mount the remote handset to the wall.



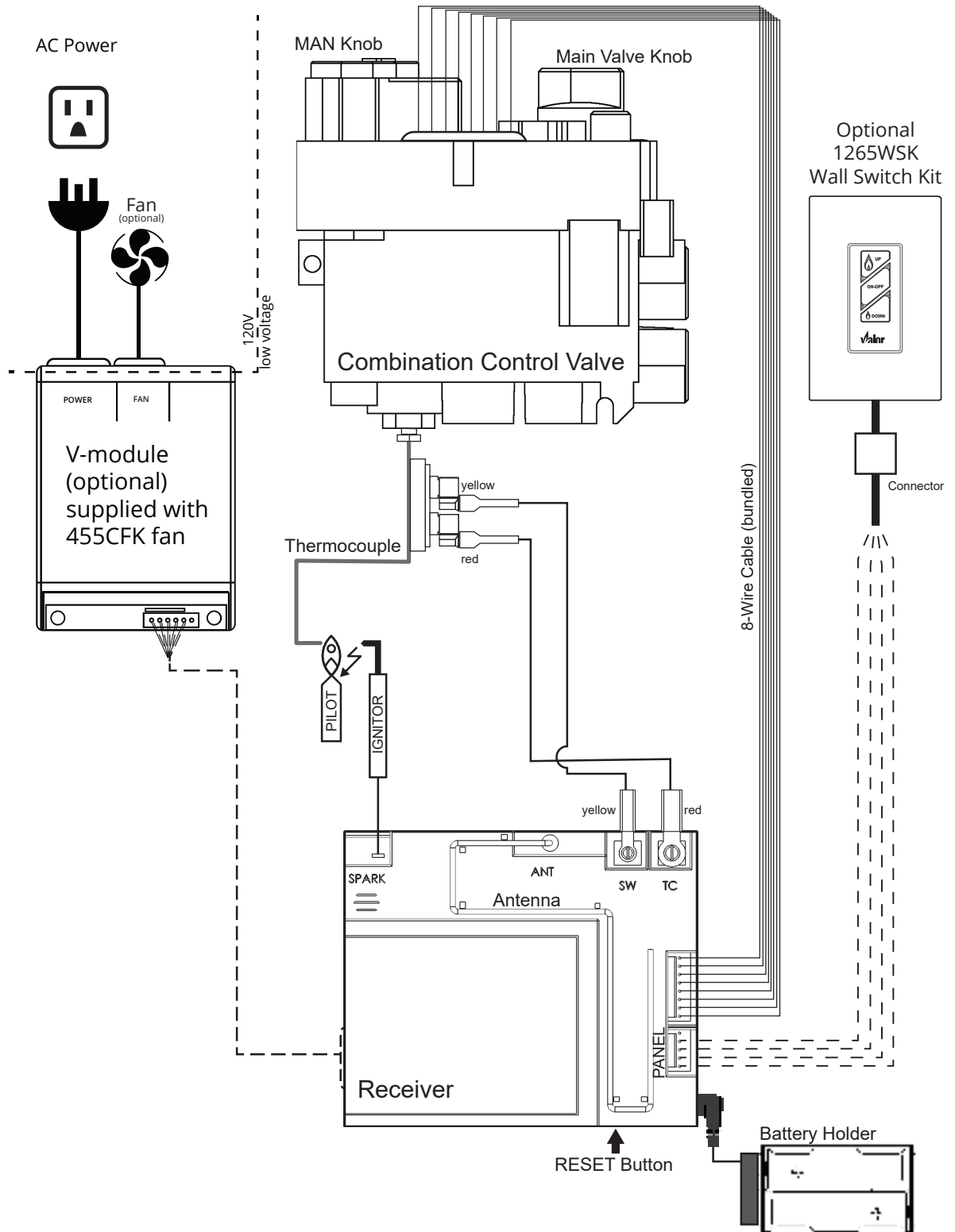
To install the holder to the wall, find a convenient location and use the hardware provided with the kit. Cover the screws with the included caps to finish the mounting.

Once mounted, the holder is magnetic - simply place the remote gently into the holder.

IMPORTANT: The location of the remote control handset is important to assure proper temperature regulation. To obtain a constant temperature, we recommend that the handset should be **between 3 and 15 feet away from the appliance but not directly above it**. We also advise that the handset should be located away from any other heat source and not in direct sunlight as this may affect the temperature sensor located in the remote handset.

Wiring Diagram

GV60 Wiring Diagram



WARNING

**NO ELECTRICAL CONNECTION ALLOWED
for any outdoor installation!**

Commonwealth of Massachusetts

State of Massachusetts Carbon Monoxide Detector/Vent Terminal Signage Requirements

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

1. INSTALLATION OF CARBON MONOXIDE DETECTORS.

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

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

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

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

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

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

(b) EXEMPTIONS: The following equipment is exempt from 248 CMR 5.08(2)(a)1 through 4:

1. The equipment listed in Chapter 10 entitled "Equipment Not Required To Be Vented" in the most current edition of NFPA 54 as adopted by the Board; and

2. Product Approved side wall horizontally vented gas fueled equipment installed in a room or structure separate from the dwelling, building or structure used in whole or in part for residential purposes.

(c) MANUFACTURER REQUIREMENTS - GAS EQUIPMENT VENTING SYSTEM PROVIDED. When the manufacturer of Product Approved side wall horizontally vented gas equipment provides a venting system design or venting system components with the equipment, the instructions provided by the manufacturer for installation of the equipment and the venting system shall include:

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

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

(d) MANUFACTURER REQUIREMENTS - GAS EQUIPMENT VENTING SYSTEM NOT PROVIDED.

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

1. The referenced "special venting system" instructions shall be included with the appliance or equipment installation instructions; and

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

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

Appendix A - Lighting Instructions Plate



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.

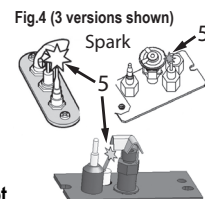
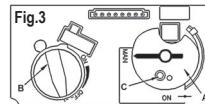
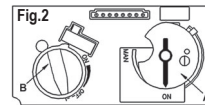
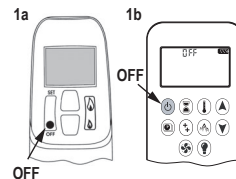
- A. This appliance has a pilot which must be lighted by hand or by remote control. Follow these instructions exactly. To save gas, turn the pilot off when not using the appliance for a prolonged period of time.
- B. BEFORE LIGHTING, smell all around the appliance area for gas. Be sure to smell next to the floor because some gas are heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
 - Do not touch any electric switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- C. 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.
- D. Use only your hand to push in or turn the control knobs. Never use tools. If the knobs will not push in or turn by hand, don't try to repair them; call a qualified service technician. Force or attempted repair may result in a fire or explosion.

OPERATING INSTRUCTIONS

1. STOP! Read the safety information above.
2. This appliance is equipped with an on-demand pilot that shuts off after 7 days of inactivity.
3. TO CLEAR ANY GAS, turn main valve off by momentarily pressing OFF button (●) (1a) or (⏻) button (1b) on remote control handset.
 - 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 on this label. If you don't smell gas, go to the next step.
4. AUTOMATIC IGNITION: MAN-knob in ON position (Fig. 2, A). (Ensure gas control knob is set to OFF (full clockwise ⤵)(Fig. 2, B). Locate the pilot inside firebox (Fig. 4).
 - On the remote control handset, press and hold simultaneously the OFF (●) and large flame (🔥) buttons (1a) OR, press and hold (⏻) button (1b); a short acoustic signal confirms the start has begun.
 - Further short acoustic signals indicate the ignition process is in progress.
 - When the pilot is lit, the gas control knob (Fig. 2, B) will automatically rotate to the highest setting. Press the small flame button (🔥) (1a) or down arrow (⬇) (1b) on the remote to reduce flames.
5. MANUAL IGNITION: MAN-knob in MAN position (Fig. 3, A).
 - With the window off, locate the pilot inside firebox (Fig. 4).
 - Set gas control knob to OFF (full clockwise ⤵) (Fig. 3, B).
 - Push down the manual pilot plunger with a small screwdriver or similar instrument (Fig. 3, C); this will establish the pilot gas flow.
 - Light gas at the pilot with a match (Fig. 4, 5).
 - Continue holding down manual pilot plunger for about 10 seconds (Fig. 3, C); after release, pilot should remain lit.
 - If the pilot will not stay lit after several tries, turn the gas control knob to OFF (full clockwise ⤵) (Fig. 3, B) and call your local service technician or gas supplier.
 - Once the pilot is lit, reinstall the window and set the MAN-knob to ON (full counter-clockwise ⤴)(Fig. 2, A); turn gas control knob up (⤴) or down(⤵) manually (Fig. 2, B) or use the flame buttons (🔥) (🔥) (1a) or arrow buttons (⬇) (⬆) (1b) on the remote control handset to adjust the flame height.



TO TURN OFF GAS TO APPLIANCE

AUTOMATIC SHUT-OFF (using the remote control handset):

Press and hold the small 🔥 button (1a) or ⬇ button (1b) to shut-off the main burner gas flow.

Momentarily press the "OFF" ● button (1a) or ⏻ button (1b) on remote handset to shut-off the appliance, including pilot flame.

DO NOT REMOVE FROM FIREPLACE

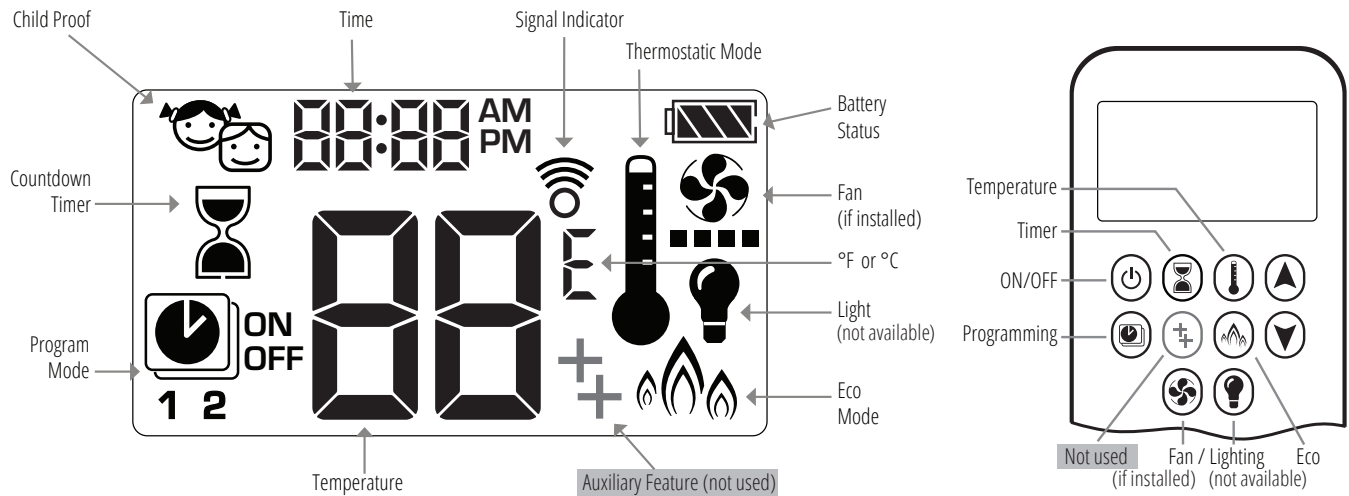
4009565-01

Appendix B - Remote Control Operation

Initial Pairing

Before the remote control can be used with the fireplace, it must be paired. See page 27.

Main Display and Remote Handset



To Turn On Fire

NOTE: When pilot ignition is confirmed, motor automatically turns to maximum flame height.

One-Button lighting (default):

Two-Button lighting: + simultaneously

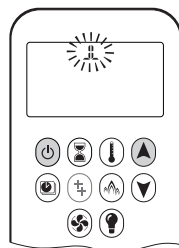
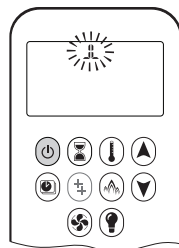
Press and hold for 4 seconds, until 8 short beeps and a blinking series of lines confirms the start sequence has begun. Release button.

Main gas flows once pilot ignition is confirmed.

Handset automatically goes into manual mode after main burner ignition.

Standby Mode (Pilot Flame)

Press and hold to set appliance to pilot flame.



CAUTION: If the pilot does not stay lit after several tries call your local service technician or gas supplier.

To Turn Off Fire

Press to turn OFF.

Note: There is a 2 minute delay after switching off before the next ignition is possible.



CAUTION: Always check the fire and pilot visually to ensure they are off.

Flame Height Adjustment

To increase flame height, press and hold .

To decrease flame height, press and hold . You may hold the button down until the fire is set to pilot flame only.

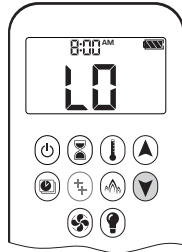


Appendix B - Remote Control Operation

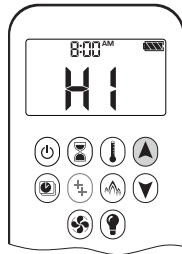
Designated Low Fire and High Fire

To go to low fire, double-click . "LO" is displayed.

Note: Flame goes to high fire first before going to low fire.



To go to high fire, double-click . "HI" is displayed.



Choosing 1-Button or 2-Button Ignition

On the remote control handset, you can choose a 1-button or 2-button ignition. You can also choose to activate or deactivate some of the functions. By default, the handset is set to a 1-button ignition.

To change from 1-button to 2-button ignition, remove the batteries, wait 10 seconds, reinsert batteries, and immediately when the display flashes, press and hold the  button for 10 seconds. **ON** is displayed and **1** is flashing. When change is complete, **1** changes to **2**.

To change from 2-button to 1-button ignition, proceed the same as above. **ON** is displayed and **2** is flashing. When change is complete, **2** changes to **1**.

Deactivating or Activating Functions

These functions are active by default, but can be deactivated at any time:

- Child Proof
- Program Mode
- Thermostatic Mode
- Eco Mode
- Circulating Fan Operation
- Countdown Timer

 **NOTE:** The function Auxiliary Feature  is not used.

To deactivate functions:

1. Install batteries. All icons are displayed and flashing.
2. While the icons are flashing, press the relevant function button and hold for 10 seconds.
3. The function icon will flash until deactivation is complete. Deactivation is complete when the function icon and two horizontal bars () are displayed.

Note: If a deactivated button is pressed, there is no function, and the two horizontal bars are displayed.

To activate functions:

1. Install batteries. All icons are displayed and flashing.
2. While the icons are flashing, press the relevant function button and hold for 10 seconds.
3. The function icon will continue to flash until activation is complete, and then turn solid. Activation is complete when the function icon is displayed.

Setting Celsius or Fahrenheit

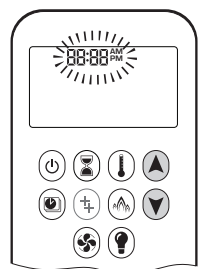
To change between °C and °F, press and hold  +  simultaneously.

Note : °C = 24-hour clock
°F = 12-hour clock



Setting the Time

1. Press  +  simultaneously. **Day** flashes.
2. Press  +  to select a number to correspond with the day of the week.
 - 1 = Monday
 - 2 = Tuesday
 - 3 = Wednesday
 - 4 = Thursday
 - 5 = Friday
 - 6 = Saturday
 - 7 = Sunday
3. Press  +  simultaneously. **Hour** flashes.
4. To select hour press  or .
5. Press  +  simultaneously. **Minutes** flash.
6. To select minutes press  or .
7. To confirm, press  +  simultaneously or wait.



Appendix B - Remote Control Operation

Child Proof

Your handset can be set to lock out all commands to the fireplace, except OFF.

To turn Child Proof ON:

1. Press and hold + simultaneously.
2. is displayed. Child Proof is now active.

To turn Child Proof OFF:

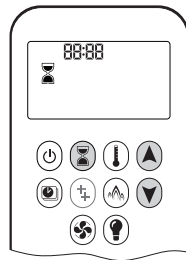
1. Press and hold + simultaneously.
2. disappears. Child Proof is now inactive, and the handset has full function.

Countdown Timer

You can set your fireplace to automatically turn off at the end of a timer.

To set a Countdown Timer:

1. Press and hold until is displayed.
Hour flashes.
2. Press or to select Hour.
3. To confirm, press .
- Minutes** flash.
4. Press or to select Minutes.
5. To confirm, press or wait.



To turn off a Countdown Timer:

1. Press , and the countdown disappears.

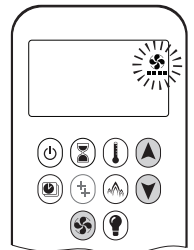
Note: The Countdown Timer only works in Manual, Thermostatic, and Eco modes. Maximum countdown time is 9 hours and 50 minutes.

Light/Dimmer Operation (not available)

Circulating Fan Operation (if installed)

Setting:

1. Press and hold until flashes.
2. Press to increase or to decrease fan speed.
3. To confirm setting, either press or wait. is displayed.



Off:

Press until all 4 speed level bars disappear.

Note: When setting, if the fan was not switched off after last use, it starts automatically 4 minutes after ignition at maximum speed, and goes to the last set level after 10 seconds. The fan stops 10 minutes after the gas is OFF or at pilot.

Appendix B - Remote Control Operation

Modes of Operation

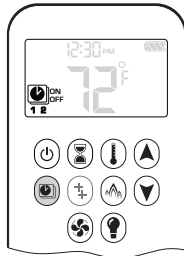
Thermostatic Mode

The room temperature is measured and compared to the set temperature. The flame height is automatically adjusted to achieve the set temperature.



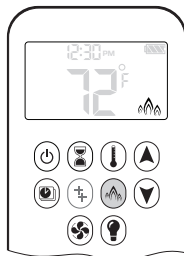
Program Mode

The temperature is controlled by Programs 1 and 2, each of which can be set to go on and off at specific times, at a set temperature.



Eco Mode

Flame height modulates between high and low. If the room temperature is lower than the set temperature, the flame height stays on high for a longer period of time. If the room temperature is higher than the set temperature, the flame height stays on low for a longer period of time. One cycle lasts approximately 20 minutes.



If any of the above modes (Thermostatic, Program, or Eco) are engaged by the MyFire app over WiFi, the handset will display **APP**.

Manual Mode

The on/off status of the fireplace, as well as flame height, are manually controlled by the user.

Thermostatic Mode

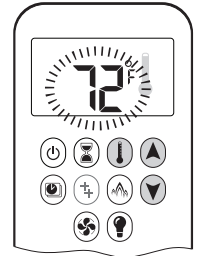
On:

Press .  is displayed. Preset temperature displays briefly, followed by the room temperature.



Setting Desired Temperature:

1. Press and hold  until  is displayed and set temperature flashes.
2. To adjust set temperature, press  or .
3. To confirm, press  or wait.



Off:

1. Press .
2. Press  or  to go to Manual Mode.
3. Press  to go to Program Mode.
4. Press  to go to Eco Mode.

Program Mode

On:

Press .  1 or 2, **ON** or **OFF** are displayed.



Off:

1. Press , , or  to go to Manual Mode.
2. Press  to go to Thermostatic Mode.
3. Press  to go to Eco Mode.

Note: The set temperature for Thermostatic Mode is the temperature for the ON time in Program Mode. Changing the Thermostatic Mode set temperature also changes the ON time temperature in Program Mode.

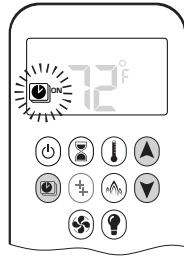
Default Settings:

- ON TIME (Thermostatic) TEMPERATURE: 70°F / 21°C
- OFF TIME TEMPERATURE: "— —" (pilot flame only)

Appendix B - Remote Control Operation

Temperature Setting:

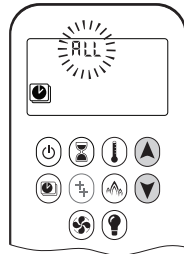
1. Press and hold until flashes. **ON** and set temperature (set in Thermostatic Mode) is displayed.
2. To continue, press or wait. **OFF** displayed, temperature flashes.
3. Select off temperature by pressing or .
4. To confirm, press .



Note: The on (Thermostatic) and off set temperatures are the same for each day.

Day Setting:

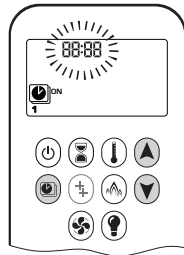
1. **ALL** flashes. Press or to choose between:
 - **ALL** = same settings ON-OFF every day
 - **SA:SU** = same settings ON-OFF Saturday and Sunday
 - **1, 2, 3, 4, 5, 6, 7** = daily timer—unique ON-OFF settings for a single day of the week, for multiple days of the week or for every day of the week.
2. To confirm, press .



ALL Selected (same settings every day)

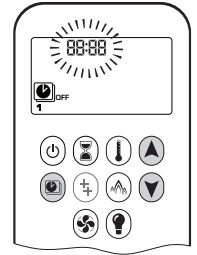
On Time Setting (PROGRAM 1)

1. **1, ON** are displayed. **ALL** is displayed briefly. Hour flashes.
2. To select hour, press or .
3. To confirm, press . **1, ON** are displayed. **ALL** displayed briefly. Minutes flash.
4. To select minutes, press or .
5. To confirm, press .



Off Time Setting (PROGRAM 1)

1. **1, OFF** are displayed. **ALL** is displayed briefly. Hour flashes.
2. To select hour, press or .
3. To confirm, press . **1, OFF** are displayed. **ALL** displayed briefly. Minutes flash.
4. To select minutes, press or .
5. To confirm, press .



Note: Either continue to PROGRAM 2 and set ON and OFF times or stop programming at this point, and PROGRAM 2 remains deactivated.

Note: PROGRAM 1 and 2 use the same ON (Thermostatic) and OFF temperatures. Once a new ON (Thermostatic) and/or OFF temperature has been set, that temperature becomes the new default setting.

Note: ON and OFF times programmed for PROGRAM 1 and PROGRAM 2 become the new default times.

The batteries must be removed to clear the PROGRAM 1 and PROGRAM 2 ON and OFF times and temperatures.

SA:SU (same settings Saturday and Sunday) or 1, 2, 3, 4, 5, 6, 7 (different settings on different days)

- Set on time and off time using the same procedure as “ALL Selected” above.
- Waiting to finish setting.

Eco Mode

On:

Press button to enter Eco Mode. is displayed.

Flame height modulates between high and low every 20 minutes.

Off:

Press button to exit Eco Mode. disappears.



Appendix B - Remote Control Operation

Low Battery Indication

 **CAUTION:** Do not use a screwdriver or other metallic object to remove the batteries from the battery holder or the handset. This could cause a short circuit.

Handset

The battery icon  will show when the battery needs to be replaced. Replace with two 1.5 V AAA alkaline batteries.

Receiver

Frequent beeps for 3 seconds when the motor turns indicate the batteries in the battery holder need to be replaced. Replace with four 1.5 V AA alkaline batteries.

Automatic Shut Off

Countdown Timer

At the end of countdown time period, the fire turns off. The Countdown Timer only works in Manual, Thermostatic, and Eco Modes. Maximum countdown time is 9 hours and 50 minutes.

Low Battery Receiver

With low battery power in the battery holder, the system shuts off the fire completely. (This will not happen if the power is completely interrupted.)

Seven Day Shut Off

The system shuts off the fire completely if there is no change in flame height for 7 days.

Automatic Turn Down

3 Hour No Communication Function

The valve will turn to pilot flame if there is no communication between the handset and receiver for a 3-hour period. The fire will continue to function normally when communication is restored.

Appendix B - Remote Control Operation

Error Codes

In the event of an error condition with the handset or fireplace, the handset will display an error code.

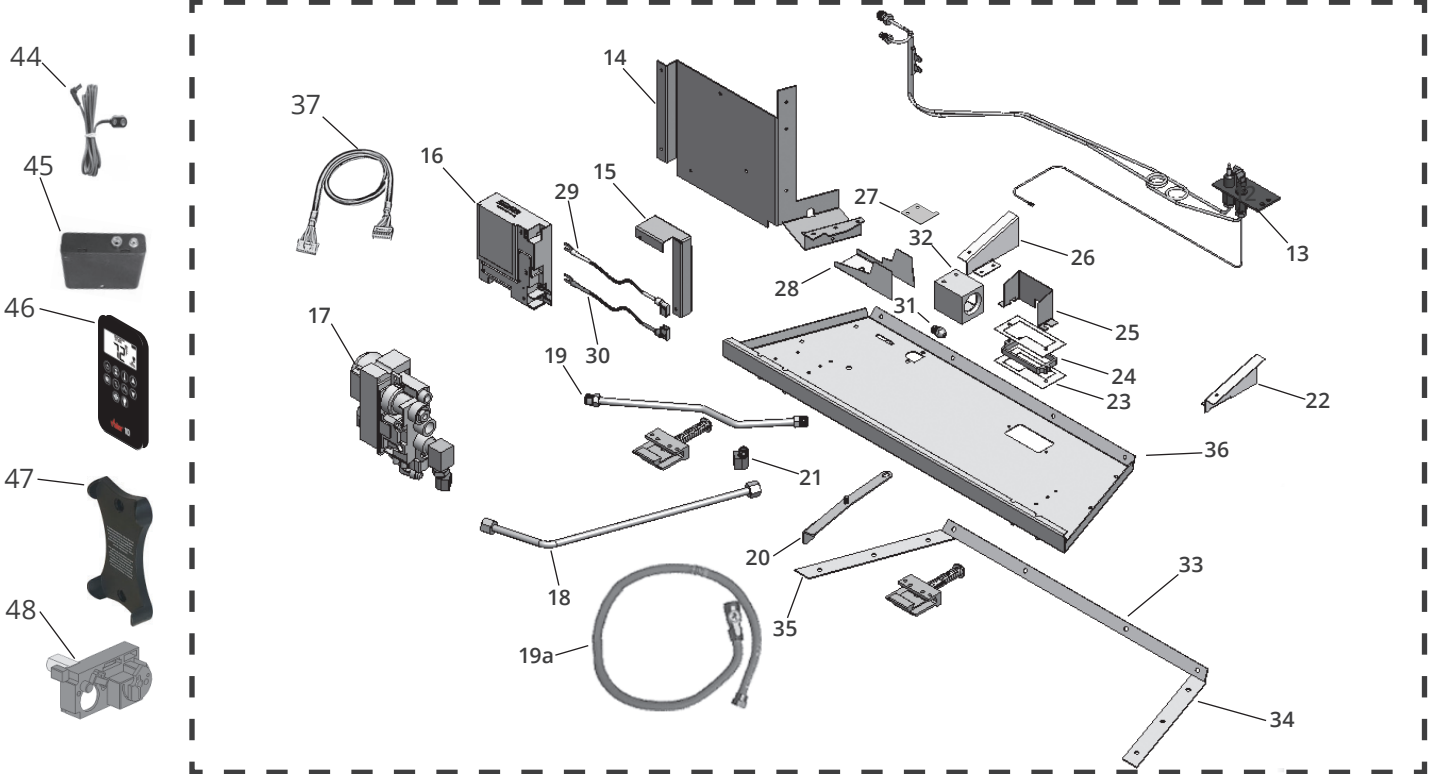
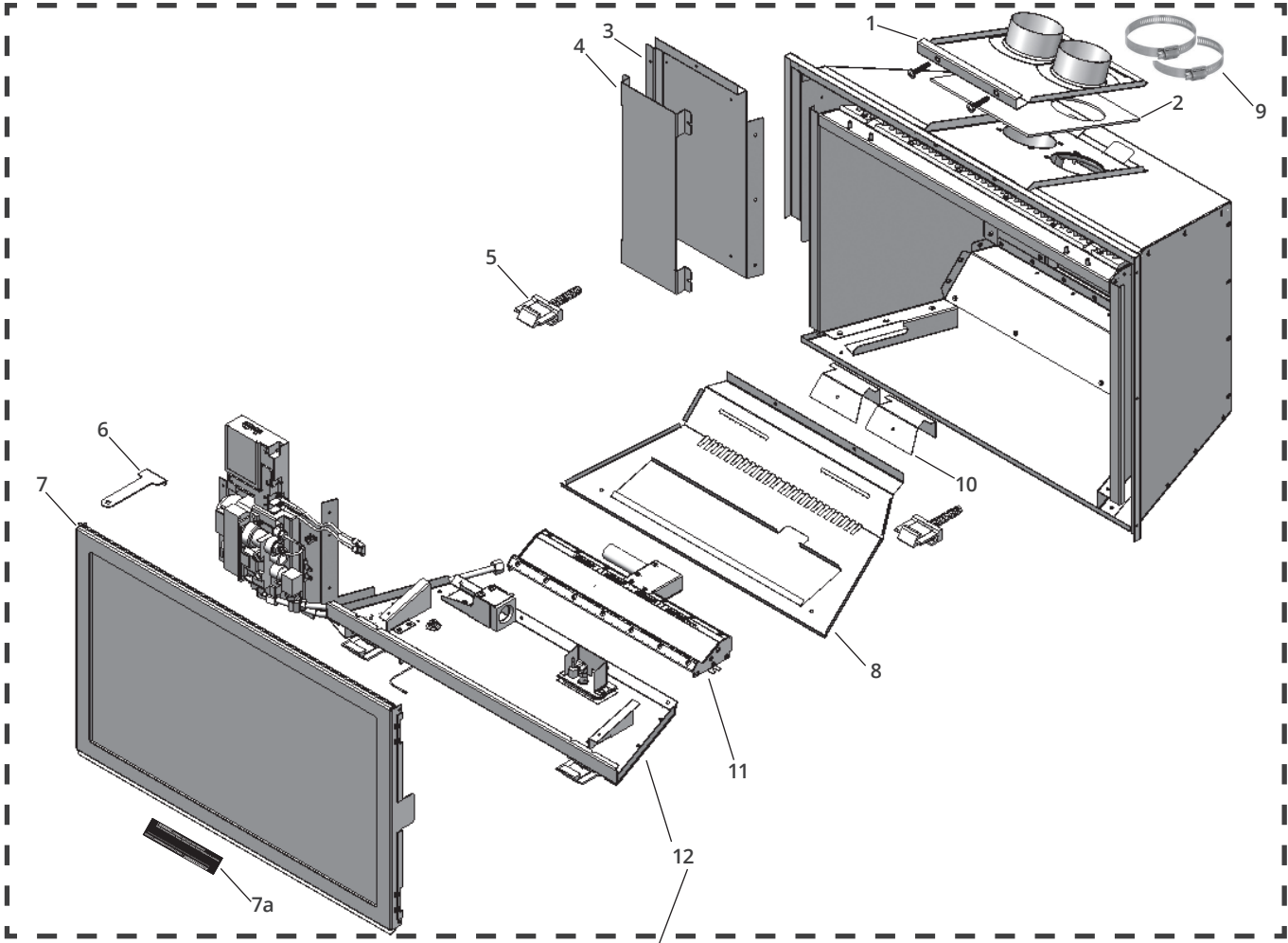
Failure Code	Message on Handset	Duration of Display	Symptom	Possible Cause
F04	F04	4 sec	- No pilot flame within 30 sec Note: after 3 failed ignition sequences, F06 shown	- No gas supply - Air in pilot supply line - No spark - Reversed polarity in thermocouple wiring
F06	F06	4 sec	3 failed ignition sequences in 5 minutes - Fire is not responding, no pilot flame	- No gas supply - Air in pilot supply line - No spark - Reversed polarity in thermocouple wiring - Incorrect pilot orifice if valve has been converted from LPG to NG or vice versa
F07	Low battery symbol 	Permanent	Battery icon flashes on handset display	Low battery in handset
F09	F09	4 sec	- Fire is not responding - No electronic control of fire	- Down arrow button (▼) was not pressed during pairing - Receiver and handset are not synced
F46	F46	4 sec	- Fire is not responding - Intermittent response - No electronic control of fire	- No or bad connection between receiver and handset - No power at receiver (batteries low) - Low communication range (mains adapter faulty, handset not communicating with receiver)

Appendix C - Spare Parts

	Description	Part Number
1	Welded exhaust flue assembly	4012538
2	Exhaust gasket	4012646
3	Access panel	4012531
4	Wire cover panel	4012730
5	Latch assembly (4)	4011796
6	Latch hook pull	4012640
7	Window assembly	4012779S
7a	Hot glass warning plate	4003093
8	Burner tray	4008387
9	2-1/2-4.5" hose clamp (2)	4000768
10	Air restrictors	4012748
11	Burner assembly	4008883
12	Burner module assembly (natural gas)	4012667S
	Burner module assembly (propane gas)	4012326S
13	Pilot assembly (NG)	4012751S
	Pilot assembly (LPG)	4012752S
14	Valve mount bracket	4012585
15	Valve connecting bracket	4011871
16	GV60 SyMax receiver	4005597
17	GV60 valve assembly (natural gas)	4012668S
	GV60 valve assembly (propane gas)	4011722S
18	Inlet gas pipe assembly	4012172
19	Outlet gas pipe assembly	4012173
19a	Flex pipe assembly with valve	4002475
19b	Brass Union 5/16" male SAE flare to 3/8"	4009947
20	Air shutter lever	4009184
21	Inverted flare brass fitting	4008399
22	Module tray right support	4008382
23	Pilot gasket (2)	4000715
24	Pilot stand	4010517
25	Pilot shield	4011099
26	Module tray left support	4009344
27	Air shutter stopper (propane only)	4012663
28	Air shutter	4011774
29	Yellow interruptor cable	4012740
30	Red interruptor cable	4012736
31	Gas orifice #44 (natural gas)	4007000-44
	Gas orifice #54 (propane gas)	4007000-54
32	Injector/burner mount	4012700
33	Rear module plate gasket	4012561
34	Right module plate gasket	4012560
35	Left module plate gasket	4012534
36	Module plate	4012556
37	Wiring harness GV60	4001187
38	Traditional logset kit	405LSK

	Description	Part Number
	Traditional log 1	5000032
	Traditional log 2	5000030
	Traditional log 3	5000031
	Traditional log 4	5000033
	Traditional log 5	5000035
	Traditional log 6	5000034
	Traditional log 7	5000036
	Traditional log 8	5000038
	Traditional log 9	5000037
39	Plain black liners	460PBL
40	Top panel	4013016
41	Left panel	4011110
42	Rear panel	4008389
43	Right panel	4008390
44	Battery holder cable (1500mm)	4006552
45	Battery holder	4008039
46	Valor10 handset, black	4007548
47	Valor10 wall holder	4004459
48	GV60 valve repair kit (not included)	4004544

Appendix C - Spare Parts



Appendix C - Spare Parts

