



Installation and Operation Instructions

Astria™ Aries Direct-Vent Gas Fireplaces

P/N 900004-01 Rev. D 06/2014

Ce manuel est disponible en français, simplement en faire la demande. Numéro de la pièce 900004-03.



P900004-01



Models

Aries 33xxx *	Aries 35xxx *	Aries 40xxx *	Aries 45xxx *
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* "xxx" indicates unique model identifiers.
This manual covers all Astria™ Aries models.

INSTALLER: Leave this manual with the appliance.

CONSUMER: Retain this manual for future reference.

Installateur : Laissez cette notice avec l'appareil.

Consommateur : Conservez cette notice pour consultation ultérieure.

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed.

Une barrière conçue pour réduire le risque de brûlure par le hublot chaude est fournie avec l'appareil et doit être installé.

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



WARNING

AVERTISSEMENT

AVISO



**HOT GLASS WILL
CAUSE BURNS.**

**DO NOT TOUCH GLASS
UNTIL COOLED.**

**NEVER ALLOW CHILDREN
TO TOUCH GLASS.**

**UNE SURFACE VITRÉE CHAUDE PEUT
CAUSER DES BRÛLURES.**

**LAISSER REFROIDIR LA SURFACE VITRÉE
AVANT D'Y TOUCHER.**

**NE PERMETTEZ JAMAIS À UN ENFANT DE
TOUCHER LA SURFACE VITRÉE.**

**EL VIDRIO CALIENTE
CAUSARÁ QUEMADURAS.**

**USTED DEBE NUNCA TOCAR
EL VIDRIO CALIENTE.**

**LOS NIÑOS DEBEN NUNCA
TOCAR EL VIDRIO.**

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

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **WHAT TO DO IF YOU SMELL GAS:**
 - Do not try to light any appliance.
 - Do not touch any electrical switch; do not use any phone in your building.
 - Immediately call 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.

AVERTISSEMENT : Assurez-vous de bien suivre les instructions données dans cette notice pour réduire au minimum le risque d'incendie ou d'explosion ou pour éviter tout dommage matériel, toute blessure ou la mort.

- Ne pas entreposer ni utiliser d'essence ni d'autres vapeurs ou liquides inflammables dans le voisinage de cet appareil ou de tout autre appareil.
- **QUE FAIRE SI VOUS SENTEZ UNE ODEUR DE GAZ :**
 - Ne pas tenter d'allumer d'appareil.
 - Ne touchez à aucun interrupteur. Ne pas vous servir des téléphones se trouvant dans le bâtiment où vous trouvez.
 - Appelez immédiatement votre fournisseur de gaz depuis un voisin. Suivez les instructions du fournisseur.
 - Si vous ne pouvez rejoindre le fournisseur de gaz, appelez le service des incendies.
- L'installation et l'entretien doivent être assurés par un installateur ou un service d'entretien qualifié ou par le fournisseur de gaz.

Safety and Your Fireplace

**All parts of your
IHP fireplace get
EXTREMELY HOT!**

- ☐ To prevent severe burns and injuries, install a screen or physical barrier to prevent direct contact with the glass.
- ☐ Follow the safety instructions below and be sure everyone in your household understands this burn hazard:
 - **The surfaces on your fireplace get EXTREMELY HOT!**
 - **The glass on the front of the fireplace reaches EXTREMELY HIGH temperatures and can cause severe burns if touched.**
 - **Keep children away from an operating fireplace. Closely supervise children in any room where a fireplace is operating to prevent contact with glass.**
 - **Keep clothing, furniture, gasoline, and other flammable liquids away from the fireplace.**
 - **Even after the gas is turned off, fireplace surfaces remain extremely hot.**
- ☐ Be sure to attach the enclosed **Safety-in-Operation Warnings** where you turn on your fireplace, to help remind everyone of the dangers associated with high temperatures (**Page 42**).
- ☐ Read **Important Safety Information** (**Page 4**)



La sécurité et votre foyer

**Toutes les parties de votre
foyer IHP deviennent
EXTRÊMEMENT CHAUDES !**

- ☐ Afin d'éviter de vous brûler gravement ou de vous blesser, installez une grille ou une barrière physique pour empêcher tout contact direct avec la vitre.
- ☐ Suivez les instructions de sécurité ci-dessous et veillez à ce que tous les membres de votre famille soient conscients du danger de brûlure encouru :
 - **Les surfaces de votre foyer deviennent EXTRÊMEMENT CHAUDES !**
 - **La vitre située à l'avant du foyer atteint des températures EXTRÊMEMENT ÉLEVÉES et peut causer de graves blessures en cas de contact.**
 - **Tenez les enfants à l'écart du foyer lorsqu'il fonctionne. Surveillez attentivement les enfants dans les pièces où un foyer est utilisé afin d'éviter qu'ils ne soient en contact avec la vitre.**
 - **Tenez tous les vêtements, les meubles, l'essence et tout autre liquide inflammable à l'écart du foyer.**
 - **Même après fermeture du gaz, les surfaces du foyer restent extrêmement chaudes.**
- ☐ Veillez à coller les **Étiquettes de mise en garde relatives à la sécurité d'utilisation** à l'endroit où vous utilisez le foyer, pour rappeler à tous les utilisateurs les dangers liés aux températures élevées (**Page 42**).
- ☐ Lisez **L'information de sûreté importante** (**Page 42**).



Seguridad y su chimenea

**¡Todas las partes de la
chimenea IHP se ponen
MUY CALIENTES!**

- ☐ Instale una malla o barrera física para evitar el contacto directo con el vidrio y prevenir las quemaduras y lesiones graves.
- ☐ Siga las instrucciones de seguridad a continuación y asegúrese de que todos en su hogar sepan acerca de este peligro de quemadura:
 - **¡Las superficies de la chimenea se ponen MUY CALIENTES!**
 - **El vidrio delante de la chimenea alcanza temperaturas EXTREMADAMENTE ALTAS y puede causar quemaduras graves si se toca.**
 - **Mantenga a los niños alejados de la chimenea en funcionamiento. Supervise en forma cercana a los niños en cualquier cuarto donde haya una chimenea funcionando para impedir el contacto con el vidrio.**
 - **Mantenga la ropa, mobiliario, gasolina y otros líquidos inflamables alejados de la chimenea.**
 - **Aún después de haber apagado el gas, las superficies de la chimenea permanecen extremadamente calientes.**
- ☐ Asegúrese de colocar las **Etiquetas de advertencia de seguridad de operación** en el lugar donde enciende la chimenea, para que todos recuerden los peligros asociados con las altas temperaturas (**Página 42**).
- ☐ Lea **Información importante de seguridad** (**Página 4**).

[ENGLISH]

[FRENCH]

[SPANISH]



Traditional Fireplace



Contemporary Fireplace

THANK YOU FOR YOUR PURCHASE. WE APPRECIATE YOUR BUSINESS!

Please carefully read and follow all instructions in this manual. Pay special attention to all warnings and safety information. Following these safety, care, and operation instructions will help ensure many years of dependable and enjoyable service from your fireplace.

Please read and understand these instructions before installing, operating, or servicing this product.



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GENERAL INFORMATION

IMPORTANT SAFETY INFORMATION	L'information de sûreté importante	Información importante de seguridad
 WARNING	 AVERTISSEMENT	 ADVERTENCIA
Do not operate appliance with the glass front removed, cracked or broken.	Ne pas utiliser l'appareil si le panneau frontal en verre n'est pas en place, est craqué ou brisé.	No opere el artefacto con el frente de vidrio quitado, agrietado o roto.
Do not use this fireplace if any part has been under water. Immediately call a qualified service technician to inspect the fireplace and to replace any part of the control system and any gas control which has been under water.	Ne pas utiliser cet appareil s'il a été plongé, même partiellement, dans l'eau. Appeler un technicien qualifié pour inspecter l'appareil et remplacer toute partie du système de commande et toute commande qui a été plongée dans l'eau.	No use este artefacto si alguna de sus partes ha estado bajo agua. Llame de inmediato a un técnico de servicio calificado para que inspeccione el artefacto y reemplace cualquier parte del sistema de control y cualquier control de gas que haya estado bajo agua.
Due to high temperatures, the fireplace should be located out of traffic and away from furniture and draperies.	En raison des températures élevées, l'appareil devrait être installé dans un endroit où il y a peu de circulation et loin du mobilier et des tentures.	Debido a las altas temperaturas, el artefacto debe situarse fuera de las áreas de tráfico y lejos del mobiliario y cortinas.
Children and adults should be alerted to the hazards of high surface temperature and should stay away to avoid burns or clothing ignition.	Les enfants et les adultes devraient être informés des dangers que posent les températures de surface élevées et se tenir à distance afin d'éviter des brûlures ou que leurs vêtements ne s'enflamment.	Se debe alertar a los niños y adultos sobre los peligros de las altas temperaturas en la superficie y que se mantengan alejados para evitar quemaduras o ignición de la ropa.
Clothing or other flammable material should not be placed on or near the fireplace.	On ne devrait pas placer de vêtements ni d'autres matières inflammables sur l'appareil ni à proximité.	No debe colocarse ropa u otros materiales inflamables sobre y cerca del artefacto.
Young children should be carefully supervised when they are in the same room as the fireplace. 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.	Les jeunes enfants devraient être surveillés étroitement lorsqu'ils se trouvent dans la même pièce que l'appareil. Les tout petits, les jeunes enfants ou les adultes peuvent subir des brûlures s'ils viennent en contact avec la surface chaude. Il est recommandé d'installer une barrière physique si des personnes à risques habitent la maison. Pour empêcher l'accès à un foyer ou à un poêle, installez une barrière de sécurité ; cette mesure empêchera les tout petits, les jeunes enfants et toute autre personne à risque d'avoir accès à la pièce et aux surfaces chaudes.	Se debe supervisar de cerca a los niños cuando estén en el mismo cuarto que el artefacto. Los niños pequeños, los jóvenes y otras personas pueden ser susceptibles a quemaduras por contacto accidental. Se recomienda instalar una barrera física si hay personas en riesgo en la casa. Para restringir el acceso a una chimenea o estufa, instale una puerta de seguridad ajustable para mantener a los niños pequeños, jóvenes y otras personas en riesgo fuera del cuarto y lejos de las superficies calientes.
Any safety screen or guard removed for servicing a fireplace must be replaced prior to operating the fireplace.	Tout écran ou protecteur retiré pour permettre l'entretien de l'appareil doit être remis en place avant de mettre l'appareil en marche.	Cualquier malla o resguardo de seguridad quitado para dar servicio a un artefacto, debe reinstalarse antes de operar el artefacto.
Installation and repair should be done by a qualified service person. The fireplace should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, et cetera. It is imperative that control compartments, burners, and circulating air passageways of the fireplace be kept clean (Maintenance on Page 57).	L'installation et la réparation devrait être confiées à un technicien qualifié. L'appareil devrait faire l'objet d'une inspection par un technicien professionnel avant d'être utilisé et au moins une fois l'an par la suite. Des nettoyages plus fréquents peuvent être nécessaires si les tapis, la literie, et cetera produisent une quantité importante de poussière. Il est essentiel que les compartiments abritant les commandes, les brûleurs et les conduits de circulation d'air de l'appareil soient tenus propres (Page 57).	Una persona de servicio competente debe realizar la instalación y reparación. Una persona de servicio profesional debe inspeccionar el artefacto antes de usar al menos una vez por año. Se puede requerir limpieza más frecuente debido a la pelusa excesiva del alfombrado, del material de cobijas, etc. Es imprescindible mantener limpios los compartimientos de control, los quemadores y los pasajes de circulación del aire del artefacto (Página 57).
[English]	[French]	[Spanish]

FIREPLACE INSTALLATION, OPERATION, AND MAINTENANCE NOTICES

DO NOT ATTEMPT TO ALTER OR MODIFY THE CONSTRUCTION OF THE APPLIANCE OR ITS COMPONENTS. ANY MODIFICATION OR ALTERATION MAY VOID THE WARRANTY, CERTIFICATION, AND LISTINGS OF THIS UNIT.

WARNING

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

AVERTISSEMENT

Une installation, un réglage, une modification, une réparation ou un entretien mal effectué peut causer des dommages matériels ou des blessures. Voir la notice de l'utilisateur qui accompagne l'appareil. Pour de l'aide ou des renseignements supplémentaires, consultez un installateur, un technicien agréé ou le fournisseur de gaz.

WARNING

Failure to comply with these installation instructions will result in an improperly installed and operating appliance, voiding its warranty. Any change to this appliance and/or its operating controls is dangerous.

 WARNING

Clothing or other flammable material should not be placed on or near the appliance.

 AVERTISSEMENT

On ne devrait pas placer de vêtements ni d'autres matières inflammables sur l'appareil ni à proximité.

 WARNING

Improper installation or use of this appliance can cause serious injury or death from fire, burns, explosion or carbon monoxide poisoning.

 CAUTION

Hot while in operation. Do not touch. Severe Burns may result. Keep children, clothing furniture, gasoline and other liquids having flammable vapors away.

 ATTENTION

L'appareil est chaud lorsqu'il fonctionne. Ne pas toucher l'appareil. Risque de brûlures graves. Surveiller les enfants. Garder les vêtements, les meubles, l'essence ou autres liquides produisant des vapeurs inflammables loin de l'appareil.

NOTE:

- If the barrier becomes damaged, the barrier shall be replaced with the manufacturer's barrier for this appliance.
- These fireplaces are designed as supplemental heaters, and are not to be used as the primary heat source when installed in a dwelling.
- Provide adequate clearances around air openings and adequate accessibility clearance for service and proper operation. Never obstruct the front or back openings of the fireplace.
- These fireplaces are designed to operate on natural or propane gas only. The use of other fuels or combination of fuels will degrade the performance of this system and may be dangerous.
- These fireplaces must not be connected to a chimney or flue serving a separate solid fuel burning fireplace.
- Only trim kit(s) supplied by the manufacturer shall be used in the installation of this fireplace.

Remarqué :

- Seules les trousse de garniture fournies par le fabricant doivent être utilisées pour l'installation de cet appareil.

INSTALLATION

PACKAGING

All models include

The assembled vented gas fireplace heater is packaged with:

- Literature Kit (envelope in bottom compartment containing Installation and Operation Instructions (this manual), and Safety-In-Operation Warning Labels)
- U-Shaped Vent Restrictor (attached to Literature Kit envelope)
- Hood (Inside firebox)

Traditional models also include

- Log Set (packaged in a carton inside the firebox)
- Volcanic Stone—1 bag (in bottom compartment)
- Glowing Embers—1 bag (in bottom compartment)

Contemporary models also include

- Glass Media
- Contemporary Burner Panel

INTRODUCTION

These vented gas fireplace heaters are sealed combustion, air-circulating gas fireplaces designed for residential and commercial applications.

Millivolt fireplaces have a millivolt gas control valve with piezo ignition system. If a blower will be installed, electrical power must be provided at the time of fireplace installation.

Electronic fireplaces are designed with an electronic intermittent pilot ignition system. External electrical power is required to operate these units. In the event of a power outage, four (4) **AA** batteries (in battery holder) provide backup power for fireplace operation (excluding the optional blower).

NOTE: Installation and repair should be done by a qualified service person. The fireplace should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etcetera. It is imperative that control compartments, burners and circulating air passageways of the fireplace be kept clean.

Remarqué : L'installation et la réparation devrait être confiées à un technicien qualifié. L'appareil devrait faire l'objet d'une inspection par un technicien professionnel avant d'être utilisé et au moins une fois l'an par la suite. Des nettoyages plus fréquents peuvent être nécessaires si les tapis, la literie, et cetera produisent une quantité importante de pous-sière. Il est essentiel que les compartiments abritant les commandes, les brûleurs et les conduits de circulation d'air de l'appareil soient tenus propres.

NOTE: Diagrams and illustrations are not necessarily shown to scale.

Approved Vent Components

These fireplaces are designed, tested and listed for operation and installation with the following vent components only:

- Secure Vent® Direct-Vent System Components,
- Secure Flex® Flexible Vent Components, and
- Z-FLEX® Model GA Venting Systems listed to UL1777 and ULCS635 manufactured by Flexmaster Canada Limited.

Use only the correct size venting (4 1/2" inner and 7 1/2" outer).

These approved vent system components are labeled for identification. DO NOT use any other manufacturer's vent components with these fireplaces.

Codes and Standards

These fireplaces comply with National Safety Standards and are tested and listed by PFS Corporation (Report No. F13-94) to ANSI Z21.88 (in Canada, CSA-2.33), and CAN/CGA-2.17-M91 in both USA and Canada, as vented gas fireplace heaters.

These fireplaces are listed for installation in bedrooms and manufactured homes.

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—latest edition (In Canada, the current CAN/CGA-B149.1 installation code).

The fireplace, when installed, must be electrically grounded and wired in accordance with local codes or, in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70—latest edition, or the Canadian Electrical Code, CSA C22.1—latest edition.

BTU Input

Table 1: Input Rate, Gas Valves

Models	Input Rate (BTU/HR)	
	Natural Gas	Propane Gas
Aries 33 / Aries CD 33	12,000	10,000
Aries 35 / Aries CD 35	14,000	12,000
Aries 40 / Aries CD 40	16,000	15,000
Aries 45 / Aries CD 45	20,000	19,000

Table 2: Thermal Efficiency (%)

Model	Millivolt		Electronic	
	AFUE *	P4 **	AFUE *	P4 **
Aries 33 / Aries CD 33	64	60.4	64	64.8
Aries 35 / Aries CD 35	65.5	61	65.5	65
Aries 40 / Aries CD 40	65.5	62	65.5	65
Aries 45 / Aries CD 45	65	63	65	66

* AFUE is a measurement of the US Department of Energy, ** P4 (EnerGuide) is a measurement of the Canadian Office of Energy Efficiency.

NOTE: Efficiencies are based on the most commonly used F1797 termination.

Gas Pressure

Table 3: Inlet Gas Supply Pressure

Fuel	Minimum	Maximum
Natural Gas	5" WC / (1.25 kPa)	10.5" WC / (2.61 kPa)
Propane	11.0" WC / (2.74 kPa)	13.0" WC / (3.23 kPa)

Table 4: Manifold Gas Supply Pressure

Fuel	Pressure
Natural Gas	3.5" WC / (0.87 kPa)
Propane	10.0" WC / (2.49 kPa)

Test gauge connections are provided on the front of the millivolt and electronic gas control valve (identified IN for the inlet and OUT for the manifold side). The control valves have a 3/8" (10 mm) NPT thread inlet and outlet side of the valve (**Figure 1** and **Figure 2**).

Figure 1: Millivolt Gas Valve

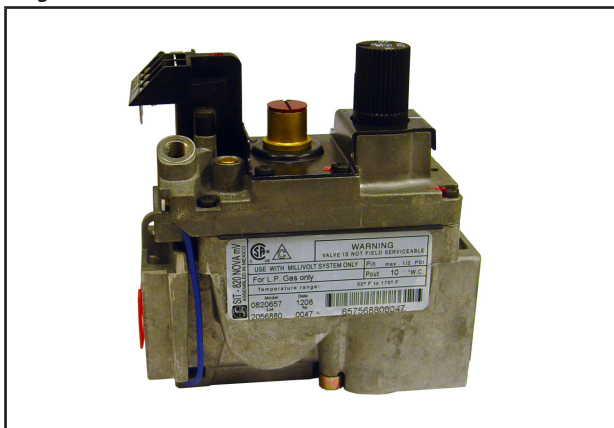
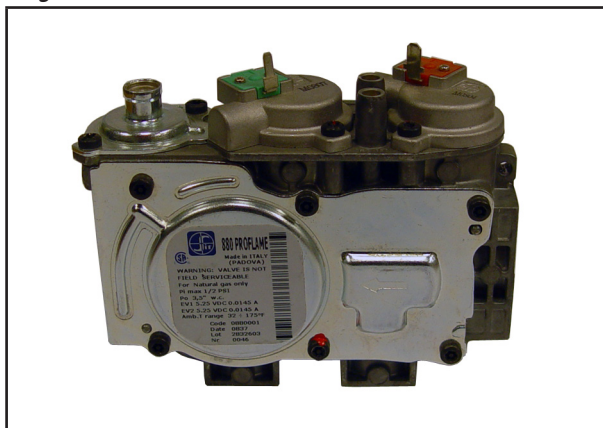


Figure 2: Electronic Gas Valve



Propane tanks are at pressures that will cause damage to valve components. Verify that the tanks have step down regulators to reduce the pressure to safe levels.

The appliance and its appliance main gas valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures **in excess of** 1/2 psi (3.5 kPa).

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

Orifice Sizes—Sea Level to High Altitude

These fireplaces are tested and approved for installation at elevations of 0–4500 ft (0–1372 m) above sea level using the standard burner orifice sizes (**Table 5**). For elevations above 4500 ft, contact your gas supplier or qualified service technician.

Table 5: Burner Orifice Sizes, Elevation 0–4500 ft (0–1372 m)

Model	Natural Gas drill size	Propane drill size
Aries 33 / Aries CD 33	#51 (0.067")*	#61 (0.039")*
Aries 35 / Aries CD 35	#49 (0.073")*	#58 (0.042")*
Aries 40 / Aries CD 40	#48 (0.076")*	#56 (0.046")*
Aries 45 / Aries CD 45	#44 (0.086")*	#55 (0.052")*

* Standard size installed at factory

Deration

At elevations above 4500 ft, the amount of BTU fuel value delivered must be reduced by either:

- Using gas that has been derated by the gas company.
- Changing the burner orifice to a smaller size as regulated by the local authorities having jurisdiction and by the (USA) National Fuel Gas Code NFPA 54/ANSI Z223.1—latest edition or, in Canada, the CAN/CGA-B149.1 codes—latest edition.

NOTE: Flame breadth, height and width will diminish 4% for every 1,000 ft of altitude.

IN CANADA—CAN/CGA-2.17-M91 (HIGH ALTITUDE):

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

REQUIREMENTS FOR THE COMMONWEALTH OF MASSACHUSETTS

These fireplaces are approved for installation in the U.S. state of Massachusetts if the following additional requirements are met:

- Install this fireplace in accordance with Massachusetts Rules and Regulations 248 C.M.R..
- Installation and repair must be done by a plumber or gas fitter licensed in the Commonwealth of Massachusetts.
- The flexible gas line connector used shall not exceed 36" (914 mm) in length.
- The individual manual shutoff must be a T-handle type valve.

Massachusetts Horizontal Vent Requirements

In the Commonwealth of Massachusetts, horizontal terminations installed less than seven (7) ft above the finished grade must comply with the following additional requirements:

- A hard wired carbon monoxide detector with an alarm and battery back-up must be installed on the floor level where the gas fireplace is installed. The carbon monoxide detector must comply with NFPA 720, be ANSI/UL 2034 listed and be ISA certified.
- A metal or plastic identification plate must be permanently mounted to the exterior of the building at a minimum height of eight (8) ft above grade and be directly in line with the horizontal termination. The sign must read, in print size no less than one-half (1/2) inch in size, GAS VENT DIRECTLY BELOW. KEEP CLEAR OF ALL OBSTRUCTIONS.

COLD CLIMATE INSULATION

For cold climate installations, seal all cracks around your fireplace with noncombustible material and wherever cold air could enter the room. It is especially important to insulate outside chase cavity between studs and under floor on which fireplace rests, if floor is above ground level. Gas line holes and other openings should be caulked or stuffed with unfaced fiberglass insulation.

NOTE: Do not use loose, or blown-in insulation in the cavity surrounding the fireplace.

If the fireplace is being installed on a cement slab in cold climates, a sheet of plywood or other raised platform can be placed underneath to prevent conduction of cold transferring to the fireplace and into the room. It also helps to seal inside surfaces and tape for maximum air tightness and caulk firestops.

MANUFACTURED HOME REQUIREMENTS

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

Cet appareil peut être installé dans une maison préfabriquée (mobile) déjà installée à demeure si les règlements locaux le permettent.

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.

Cet appareil doit être utilisé uniquement avec le type de gaz indiqué sur la plaque signalétique. Cet appareil ne peut être converti à d'autres gaz, sauf si une trousse de conversion est utilisée.

! CAUTION

Ensure that the cross members are not cut or weakened during installation. The structural integrity of the manufactured home floor, wall, and ceiling / roof must be maintained.

! CAUTION

This appliance must be grounded to the chassis of the manufactured home in accordance with local codes or in the absence of local codes, with the National Electrical Code ANSI / NFPA 70—latest edition or the Canadian Electrical Code CSA C22.1—latest edition.

LOCATION

In selecting the location, the aesthetic and functional use of the fireplace are primary concerns. However, vent system routing to the exterior and access to the fuel supply are also important.

Due to high temperatures, the fireplace should be located out of traffic and away from furniture and draperies.

En raison des températures élevées, l'appareil devrait être installé dans un endroit où il y a peu de circulation et loin du mobilier et des tentures.

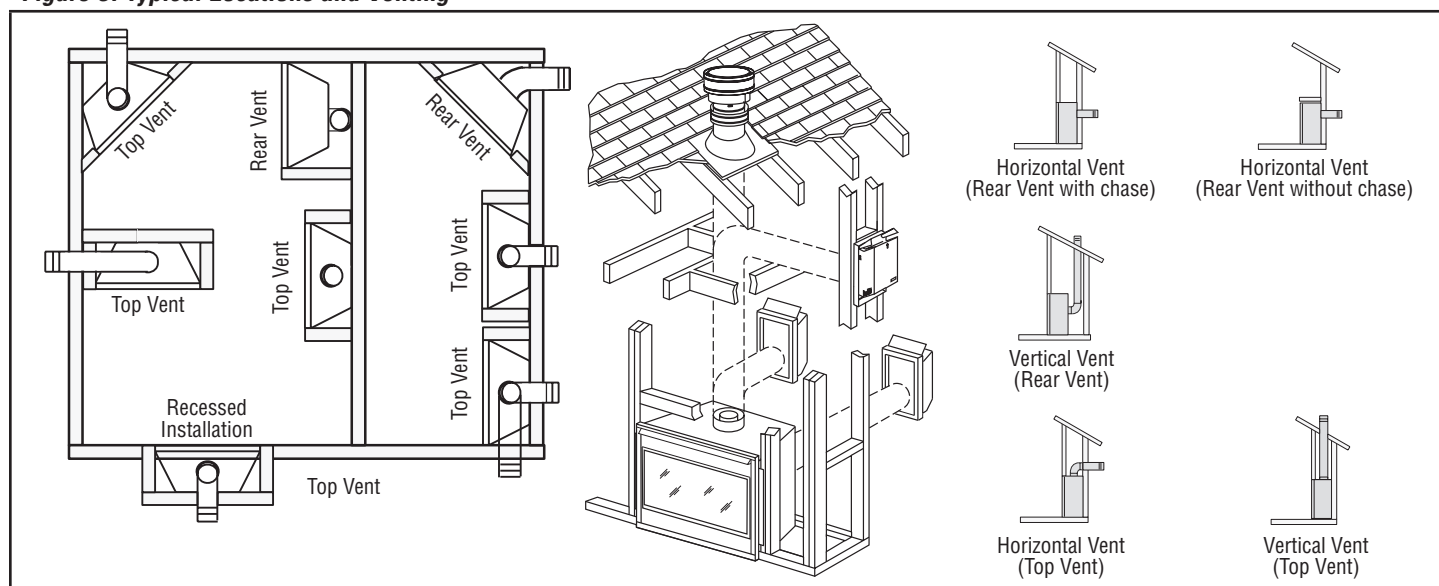
The location should also be free of electrical, plumbing or other heating/air conditioning ducting.

These direct-vent fireplaces are uniquely suited for installations requiring a utility shelf positioned directly above the fireplace. Utility shelves like these are commonly used for locating television sets and decorative plants.

Be aware that this is a heat producing fireplace. Objects placed above the unit are exposed to elevated temperatures. Do not insulate the space between the fireplace and the area above it.

The minimum height from the base of the fireplace to the underside of combustible materials used to construct a utility shelf in this fashion is shown in **Table 9** and **Table 10**.

Figure 3: Typical Locations and Venting



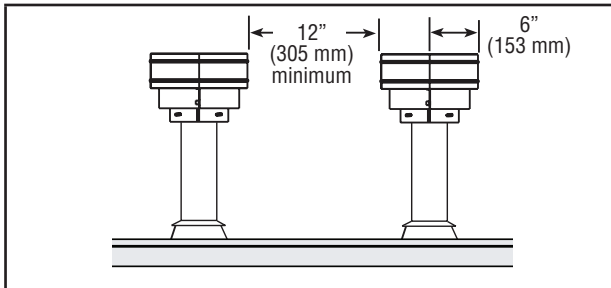
VENT TERMINATION CLEARANCES

These instructions should be used as a guideline and do not supersede local codes in any way. Install venting according to local codes, these instructions, the current National Fuel Gas Code (ANSI Z223.1/NFPA 54) in the USA or the current standards of CAN/CGA-B149.1 in Canada.

Vertical Vent Termination Clearances

Terminate multiple vent terminations according to the installation codes listed above and **Figure 4**.

Figure 4: Multiple Terminations



Terminate single vent caps relative to building components according to **Table 6** and **Figure 4**.

Table 6: Termination Heights for Vents above Flat or Sloped Roofs (NFPA 54 / ANSI Z223.1)—Gas Vent Rule

	Roof Pitch	Termination Height *
	Flat to 6/12	1.0 ft (0.3 m)
	6/12 to 7/12	1.25 ft (0.38 m)
	7/12 to 8/12	1.5 ft (0.46 m)
	8/12 to 9/12	2.0 ft (0.61 m)
	9/12 to 10/12	2.5 ft (0.76 m)
	10/12 to 11/12	3.25 ft (0.99 m)
	11/12 to 12/12	4.0 ft (1.22 m)
	12/12 to 14/12	5.0 ft (1.52 m)
	14/12 to 16/12	6.0 ft (1.83 m)
	16/12 to 18/12	7.0 ft (2.13 m)
	18/12 to 20/12	7.5 ft (2.29 m)
	20/12 to 21/12	8.0 ft (2.44 m)

Horizontal Vent Termination Clearances

The horizontal vent termination must have a minimum of 6" (152 mm) clearance to any overhead combustible projection of 2 1/2" (64 mm) or less (**Figure 5**). For projections exceeding 2 1/2" (64 mm) (**Figure 5**). For additional vent location restrictions refer to **Table 7**.

All horizontal terminations may be located as close as 6" (152mm) to any (non-combustible and combustible) exterior sidewall. This distance may be decreased to 2" (51mm) for noncombustible exterior sidewalls with all approved terminations (**Table 21**).

Figure 5: Horizontal Vent Termination Clearances

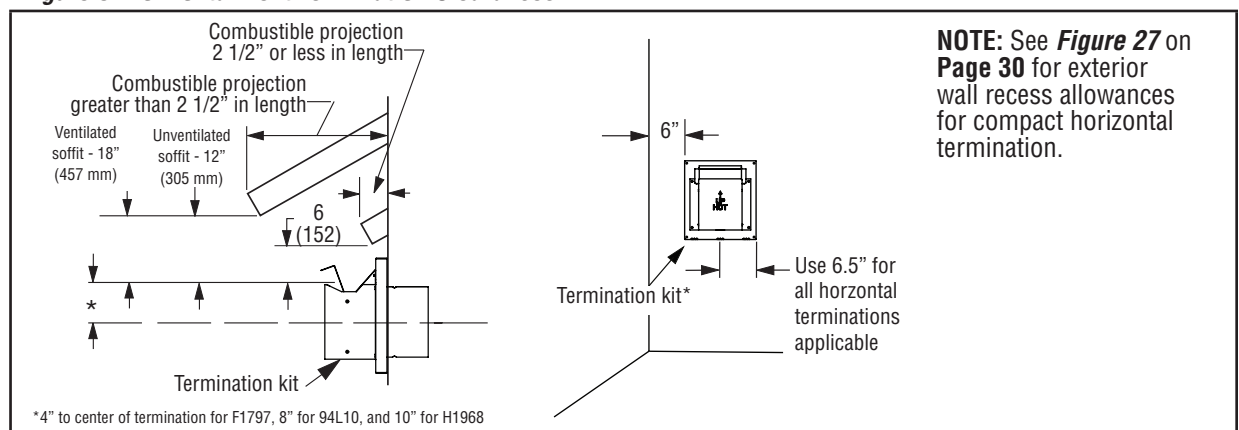


Table 7: Horizontal vent termination clearances for buildings with combustible and noncombustible exteriors

	U.S. Installation **	Canadian Installation *
A Clearance above grade, veranda, porch, deck, or balcony	12" (300 mm) **	12" (300 mm) *
B Clearance to window or door that may be opened	6" (150 mm) for fireplaces < 10,000 Btu/h (3 kW), 9" (230 mm) for fireplaces > 10,000 Btu/h (3 kW), and < 50,000 Btu/h (15 kW), 12" (300 mm) for fireplaces > 50,000 Btu/h (15 kW) **	6" (150 mm) for fireplaces < 10,000 Btu/h (3 kW), 12" (300 mm) for fireplaces > 10,000 Btu/h (3 kW)
C Clearance to permanently closed window	9" (229 mm) recommended to prevent window condensation	12" (305 mm) recommended to prevent window condensation
D Vertical clearance to ventilated soffit located above the termination within a horizontal distance of 18" (458 mm)	18" (458 mm)	18" (458 mm)
E Clearance to unventilated soffit	12" (305 mm)	12" (305 mm)
F Clearance to outside corner	5" (127 mm) minimum	5" (127 mm) minimum
G Clearance to inside corner	6" (152 mm) minimum	6" (152 mm) minimum
H Clearance to each inside of center line extended above meter / regulator assembly	36" (910 mm) within a height of 15 ft above the meter / regulator assembly **	36" (910 mm) within a height of 15 ft above the meter / regulator assembly *
I Clearance to service regulator vent outlet	36" (910 mm) **	36" (910 mm) *
J Clearance to nonmechanical air supply inlet to building or the combustion air inlet to any other fireplace	6" (150 mm) for fireplaces < 10,000 Btu/h (3 kW), 9" (230 mm) for fireplaces > 10,000 Btu/h (3 kW) and < 50,000 Btu/h (15 kW), 12" (300 mm) for fireplaces > 50,000 Btu/h (15 kW) **	6" (150 mm) for fireplaces < 10,000 Btu/h (3 kW), 12" (300 mm) for fireplaces > 10,000 Btu/h (3 kW)
K Clearance to a mechanical air supply inlet	36" (910 mm) above if within 10 ft (3 m) horizontally **	72" (1830 mm) *
L Clearance above paved sidewalk or paved driveway located on public property	84" (2130 mm) ‡	84" (2130 mm) ‡
M Clearance under veranda, porch, deck or balcony	12" (300 mm) *‡	12" (300 mm) *‡
N Depth of alcove (maximum)	72" (1830 mm) **	72" (1830 mm) *
O Clearance to termination (alcove)	6" (152 mm) **	6" (15.2 mm) *
P Width of alcove (minimum)	36" (910 mm) **	36" (910 mm) *
Q Clearance to combustible above (alcove)	18" (457 mm) **	18" (457 mm) *

* In accordance with the current CSA-B149.1 National Gas And Propane Installation Code

** In accordance with the current ANSI Z223.1/NFPA 54 National Fuel Gas Codes

‡ A vent shall not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings

*‡ Only permitted if veranda, porch, deck, or balcony is fully-open on a minimum two sides beneath the floor

MINIMUM CLEARANCES TO COMBUSTIBLES

Fireplace And Vent Clearances

The fireplace is approved with zero clearance to combustible materials on all sides (**Table 8**), with the following exception: The unit may not be recessed (allowance made for mantel legs / side trim in **Figure 6**). When the unit is installed with one side flush with a wall, the wall on the other side of the unit must not extend beyond the front edge of the unit (**Figure 6**).

Table 8: Minimum Clearances *

Back	1" (26mm) to wrapper for 45" model, <i>all others 1/2" (13mm) to wrapper</i> 0" (0 mm) to Spacers
Sides	1/2" (13 mm) to wrapper 0" (0 mm) to Spacers **
Top Standoffs	0" (0 mm) to top standoffs
Floor	0" (0 mm)
From Bottom of Unit to Ceiling	64" (1626 mm)
Vent	3" (76 mm)—Top *** 1" (25.4 mm)—Sides and Bottom
Front Service Clearance— clearance immediately in front of viewing area(s)	36" (914 mm)

* 3" (76 mm) above any horizontal/inclined vent component.

** See Page 19 for clearance requirements to the nailing flange located at each side of the unit and any screw heads adjacent to it.

*** Top vent clearance can be reduced to 2" on horizontal runs when first elbow is located at least 6 ft above the fireplace.

The fireplace must be mounted on a fully supported base extending the full width and depth of the unit. The fireplace may be located on or near conventional construction materials. However, if installed on combustible materials, such as carpeting, vinyl tile or other combustible material other than wood flooring, the appliance shall be installed on a metal or wood panel extending the full width and depth of the appliance.

Hearth Extension

A hearth extension is not required with this fireplace. If a hearth extension is used, do not block the lower control compartment door. Any hearth extension used is for appearance only and does not have to conform to standard hearth extension installation requirements.

Shelf Height

To provide for the lowest possible shelf surface, use the rear vent model. For top vent models, the venting attached to the top vent should be routed in a way to minimize obstructions to the space above the fireplace. Do not insulate the space between the fireplace and the area above it (**Table 9** and **Table 10**). The minimum height from the base of the fireplace to the underside of combustible materials used to construct a utility shelf in this fashion is shown in **Table 9** and **Table 10**.

Table 9: Combustible Shelf Height—Top Vent

Model	Top Vent with one 90° Elbow	
	Secure Vent®	Secure Flex® (flex elbow)
Aries 33 / Aries CD 33	44" (1118 mm)	46" (1168 mm)
Aries 35 / Aries CD 35	47" (1194 mm)	49" (1245 mm)
Aries 40 / Aries CD 40	52" (1321 mm)	54" (1372 mm)
Aries 45 / Aries CD 45	50" (1270 mm)	52" (1321 mm)

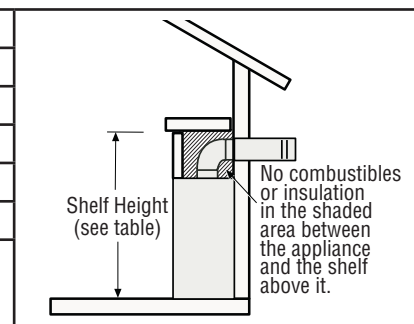


Table 10: Combustible Shelf Height—Rear Vent

Model	Rear Vent with two 90° Elbows	
	Secure Vent®	Secure Flex® (flex elbow)
Aries 33 / Aries CD 33	34" (864 mm)	34" (864 mm)
Aries 35 / Aries CD 35	35 1/2" (902 mm)	35 1/2" (902 mm)
Aries 40 / Aries CD 40	40 1/2" (1029 mm)	40 1/2" (1029 mm)
Aries 45 / Aries CD 45	45 1/2" (1156 mm)	45 1/2" (1156 mm)

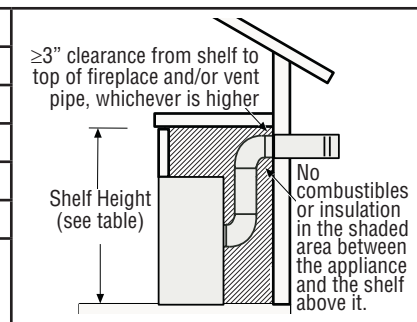


Figure 6: Combustible Side Clearances

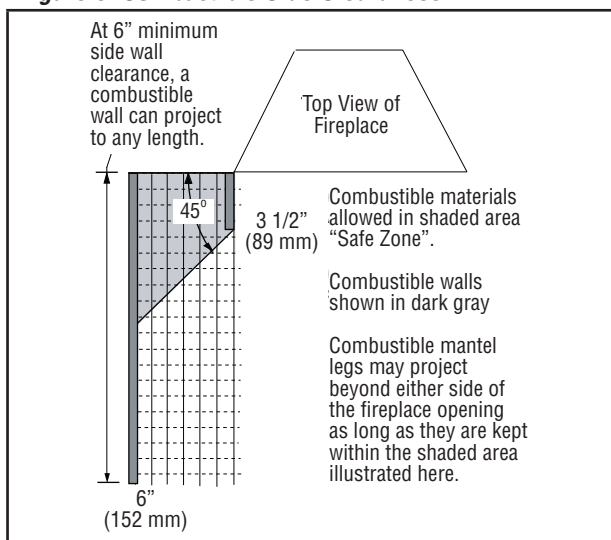
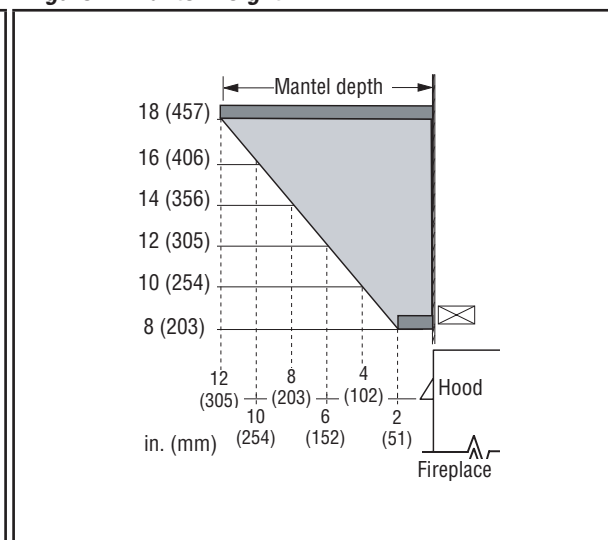


Figure 7: Mantel Height



Wall Finishes / Surrounds / Mantels

NOTE: Combustible wall finish materials and/or surround materials must not be allowed to encroach the area defined by the fireplace front face (black sheet metal). **Never allow combustible materials to be positioned in front of or overlapping the fireplace face (Figure 41).**

Non-combustible materials, such as surrounds and other fireplace trim, may be installed on the fireplace face, but they must not cover any portion of the removable glass panel or control compartment.

Vertical installation clearances to combustible mantels vary according to the depth of the mantel (**Figure 7**). Mantels constructed of non-combustible materials may be installed at any height above the fireplace opening. However, do not allow anything to hang below the fireplace hood.

Minimum clearance requirements include any projections such as shelves, window sills, mantels, etc. above the fireplace.

NOTE: To avoid heat-related finish damage, use finish materials rated 175 °F, or higher, on the underside of the mantel.

INSTALLATION PREPARATION

The fireplace is shipped with all gas controls and components installed and pre-wired. Before installing the fireplace, follow these steps:

1. Remove the shipping carton, and retain the front of the carton (used to protect the fireplace during construction).
2. Remove the shipping pad, exposing the front glass door.
3. Remove the glass door (**Page 55**).

NOTE: Place the glass door on the shipping carton to protect its surface.

INSTALLATION SEQUENCE

The typical sequence of installation is outlined below; however, each installation is unique and may result in variations to the steps described.

See the pages referenced in the following steps for detailed instructions.

Framing

1. **Construct the Fireplace Framing (Page 15).**
2. **Prepare the Fireplace Top Spacers (Page 17).**
3. **Route the Gas Supply Line to the Fireplace (Page 17).**
4. **Rough in the Electrical Supply, if Needed (Page 19).**
5. **Install the [Optional] Blower Kit before Installation in the Framing (Page 19).**
6. **Place the Fireplace in the Framing and Secure (Page 19).**

Venting

7. **Select a Horizontal or Vertical Vent System (Page 19).**
8. **Install the Vent Restrictor (if necessary) (Page 20).**
9. **Install the Vent System (Page 23).**

Electrical Connection

10. **Complete the Field Wiring (Page 35).**
11. **Install the [Optional] Blower Kit after Installation in the Framing (Page 37).**

Gas Connection

12. **Connect the Gas Line (Page 37).**
13. **Verify Proper Fireplace Operation (Page 38).**

Finishing

14. **Optional: Install the Firebox Liners (Page 51).**
15. **Traditional Fireplaces: Install the Logs, Volcanic Stone, and Glowing Embers (Page 52).**
16. **Contemporary Fireplaces: Install the Glass Media (Page 51).**
17. **Install the Glass Door (Page 55).**
18. **Adjust the Air Shutter to Ensure Proper Flame Appearance (Page 39).**
19. **Install the Hood (Page 41).**
20. **Reinstall the Included Barrier (Page 41).**
21. **Install the Finishing Materials (Page 41).**
22. **Attach the Safety-in-Operation Warning Labels (Page 41).**

1. Construct the Fireplace Framing

1. Frame the fireplace as illustrated in **Table 11**. For corner framing installations, use **Table 12**. All framing details must allow for a minimum clearance to combustible framing members as shown in **Table 8**.
2. If the fireplace is to be elevated above floor level, a solid continuous platform must be constructed below the fireplace.

NOTE: Headers may be in direct contact with the fireplace top standoff spacers when they are bent up vertically, maintaining the 3" clearance to the fireplace top, but must not be supported by them or notched to fit around them. All construction above the fireplace must be self-supporting. DO NOT use the fireplace for structural support.

Table 11: Fireplace Framing Specifications

Model	A *	B	C	D	E
Aries 33 / Aries CD 33	33 3/4 857	34 1/4 845	36 7/8 930	14 1/2 368	19 5/8 499
Aries 35 / Aries CD 35	35 1/4 895	36 1/4 895	38 3/4 984	18 447	23 3/8 594
Aries 40 / Aries CD 40	40 1/4 1022	41 1/4 1022	43 3/4 1111	18 447	28 1/4 717
Aries 45 / Aries CD 45	45 1/4 1149	41 1/4 1022	43 3/4 1111	18 447	28 1/4 717

C = Minimum height of top vent installations

E = Minimum height of rear vent installations

* Minimum opening size; additional 1/8" per side is recommended.

NOTE: Framing specifications do NOT apply for flexible venting. When using flexible venting, refer to the kit requirements for framing specifications.

NOTE: See Page 28 concerning use of compact terminations on rear-vent 45" Models.

NOTE: Dimension "D" is the required framing depth when the finish material (drywall) thickness is 1/2" (13mm).

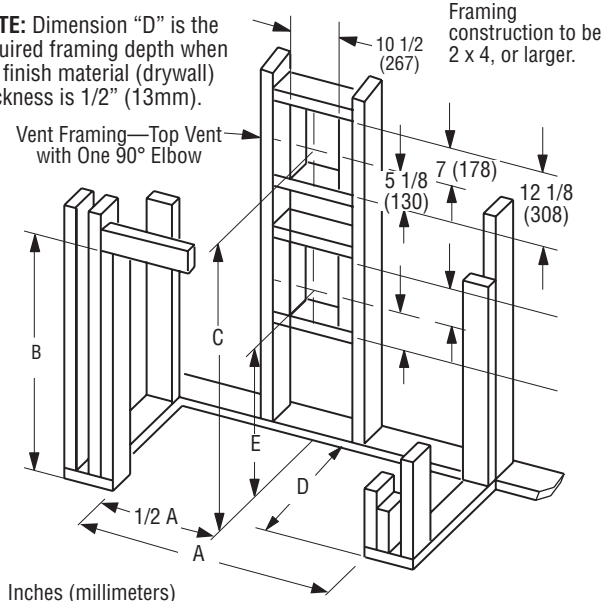


Table 12: Fireplace Framing Specifications—Corner Installation with Horizontal Termination

Model	A	B	C	D	E	F	G
Aries/ CD33	33 3/4 857	51 1/4 1302	36 1/4 921	25 5/8 651	12 1/8 308	5 1/2 140	14 1/2 368
Aries/ CD35	35 1/4 895	59 1/2 1511	42 1/16 1068	30 1/4 768	14 1/4 362	6 5/8 168	18 457
Aries/ CD40	40 1/4 1022	63 13/16 1621	45 11/32 1152	33 3/16 818	15 7/8 403	8 1/2 216	18 457
Aries/ CD45	45 1/4 1149	70 3/8 1788	49 3/4 1264	35 1/4 895	17 1/2 445	10 1/4 260	18 457

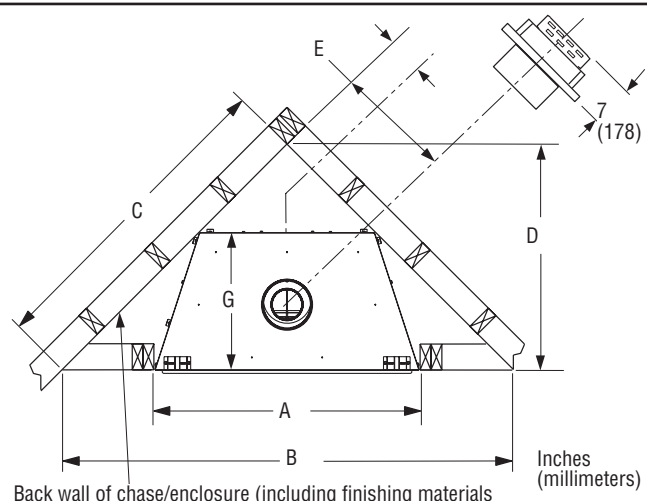


Table 13: Fireplace Specifications

NOTE: When finishing the area around the hood, 5/8" clearance above hood is required for hood installation.											
Top View				Front View				Left Side View		Right Side View	
Model	A	B	C	D (door)	E	F	G	H	I	J	K
Aries33	30 1/8 (765)	26 1/4 (667)	18 5/16 (465)	30 1/2 (775)	33 5/8 (854)	21 7/8 (556)	10 15/16 (278)	31 (787)	5 3/4 (146)	14 (356)	8 1/8 (207)
Aries35	32 1/4 (819)	28 3/4 (730)	22 1/4 (565)	32 3/8 (822)	35 1/4 (895)	25 (635)	12 1/2 (317)	32 7/8 (835)	6 7/8 (175)	17 (432)	10 1/6 (256)
Aries40	37 1/8 (943)	33 1/4 (845)	27 1/4 (692)	37 3/8 (949)	40 1/4 (1022)	30 (762)	15 (381)	37 7/8 (962)	6 7/8 (175)	17 (432)	10 1/6 (256)
Aries45	37 1/8 (943)	33 1/4 (845)	27 1/4 (692)	42 3/8 (1076)	45 1/4 (1149)	35 (889)	17 1/2 (445)	42 7/8 (1089)	6 7/8 (175)	17 (432)	10 1/6 (256)

2. Prepare the Fireplace Top Spacers

1. The two (2) 4" standoff spacers on top of the fireplace cabinet are shipped flat. Remove the screw adjacent to the detached end (**Figure 8**).
2. Bend the standoffs as shown (**Figure 9**):
3. Align the hole in the standoff with the hole in the fireplace top, and secure with the screw that was removed in **Step 1** (**Figure 9**).

Figure 8: Unassembled standoff

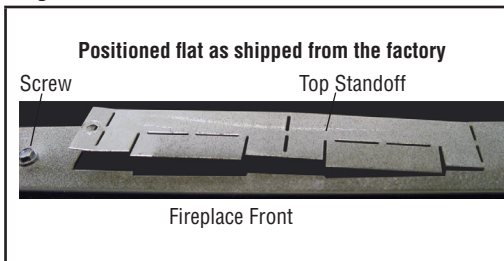
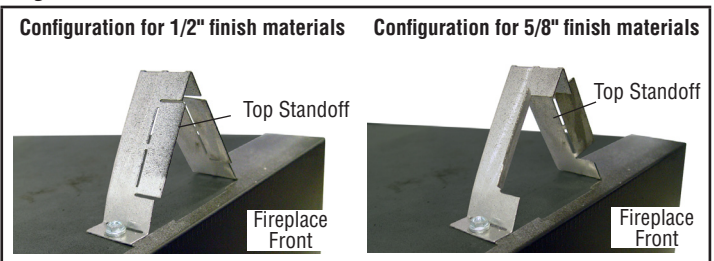


Figure 9: Assembled standoffs



3. Route the Gas Supply Line to the Fireplace

1. Route a 1/2" (13 mm) gas line to the left side of the fireplace (**Figure 10**).

NOTE: Gas lines must be routed, assembled, and made of materials that are in strict accordance with local codes and regulations. All fireplaces are factory-equipped with a flexible gas line connector and a 1/2" shutoff valve (**Page 38**).

Figure 10: Routing the gas line - 35", 40", 45" Models

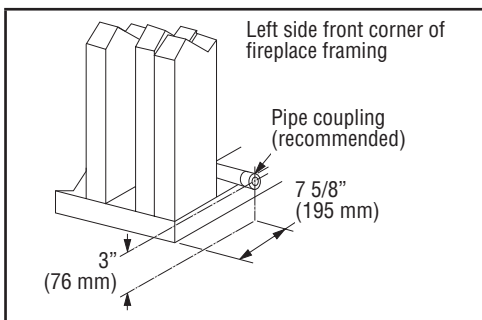
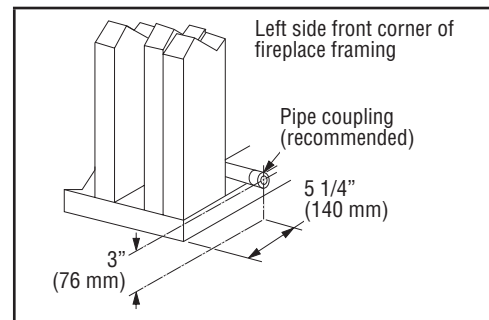


Figure 10a: Routing the Gas Line - 33" Model



Proper Sizing of Gas Line

Properly size and route the gas supply line from the supply regulator to the area where the appliance is to be installed per requirements outlined in the National Fuel Gas Code, NFPA 54—latest edition (USA) or CAN/CGA-B149.1—latest edition (Canada).

The gas supply line should not be connected to the appliance until step **12. Connect the Gas Line** (**Page 37**).

NOTE:

- All fireplaces are factory-equipped with a flexible gas line connector and 1/2" shutoff valve (**Figure 35**).
- See **Massachusetts Horizontal Vent Requirements** for additional requirements for installations in the state of Massachusetts in the USA.
- A pipe joint compound rated for gas should be used on the threaded joints. Ensure propane-resistant compounds are used in propane applications. Be very careful that the pipe compound does not get inside the pipe.
- A sediment trap in the supply line as close as possible to the fireplace is recommended.
- Check with the local building official for local code requirements (e.g., Are below grade penetrations of the gas line allowed?, etc).

CAUTION

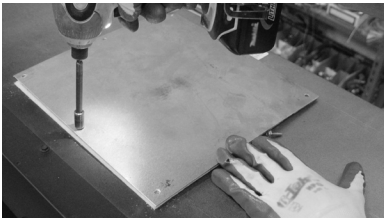
If propane is used, be aware that with a tank that is too small (i.e., under 100 lbs, if this is the only gas appliance in the dwelling—see NPFA 58), there may be a loss of pressure. This can result in insufficient fuel delivery that can cause sooting, delayed ignition, or other malfunctions. Any damage resulting from an improper installation is not covered by the limited warranty.

3.5 Determining Vent Setup in the Combination Venting Unit

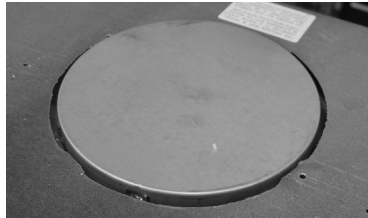
Combination venting units are shipped “ready to install” with a rear venting setup. If this is the type of vent you require, verify the rear vent is open and proceed with fireplace installation.

If you require a top-vented unit, use the following steps to convert the fireplace before use.

Outside preparation of the fireplace for top-vent conversion



Step 1: Remove the eight (8) screws holding the top vent cover plate and gasket.



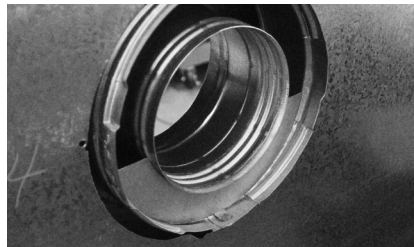
Step 2: Remove the round flue cover from the top venting outlet.



Step 3: Remove insulation from inside flue pipe.



Step 4: Bend tabs out on round flue cover. Make sure insulation disc is still in the round cover and install on the rear venting outlet.



Step 5: Secure the cover to the wrapper over the rear venting outlet. Use two (2) 3/4” long sheet metal screws



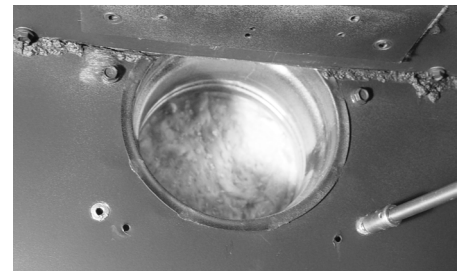
Inside the firebox for top vent conversion conversion



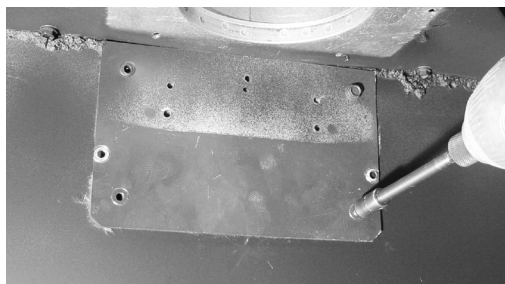
Step 6: Remove the rear baffle held in place with two (2) screws and discard baffle



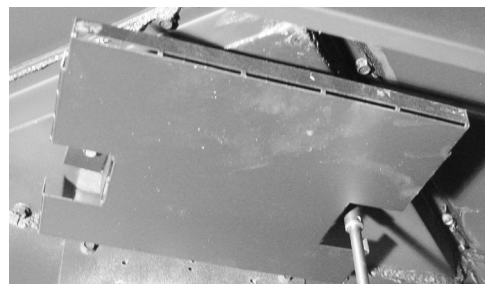
Step 7: Remove the two (2) screws holding the block off plate and gasket to the top vent flue. Retain the screws for later use.



Step 8: Remove the four (4) screws around the inside rear vent and retain.



Step 9: Use the four screws from Step 8 to reinstall the block off plate and gasket over the rear vent flue that the sharp corners are up.



Step 10: Using the two (2) screws from **Step 6**, install the top baffle (shipped in the bottom of the unit). Fireplace is now ready to install as a top-venting unit.

4. Rough in the Electrical Supply, if Needed

1. As necessary, rough in the fireplace electrical supply per NEC and local codes.

5. Install the [Optional] Blower Kit before Installation in the Framing

1. Remove the left side blower cover panel screw, and blower cover panel (**Table 13**). Retain the panel and screw for later reinstallation.
2. Slide the blower through the opening and position it with the bracket oriented to the front of the firebox and the blower discharge to the rear of the firebox. Bend the two tabs in the firebox floor to secure the blower to the floor.
3. Reinstall the blower cover panel and secure with the removed screw.
4. Access the blower supply wiring through the front of the firebox and plug it into the junction box in the right, rear of the firebox (**Figure 33**).
5. Install the blower control switch according to its included instructions.

6. Place the Fireplace in the Framing and Secure

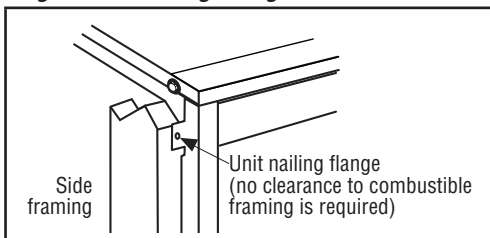
NOTE: Nailing flanges, combustible members, and screw heads in areas directly adjacent to the nailing flanges are EXEMPT from the 1/2" clearance to combustible requirements for the firebox outer wrapper.

NOTE: Combustible framing may be in direct contact with the nailing flanges and may be located within 1/2" of screw heads and the firebox wrapper in areas adjacent to the nailing flanges.

Frame the opening to the exact dimensions specified in the framing details in this manual.

1. Bend out the appropriate nailing flanges for the drywall / finish material to be used (**Figure 11**). Nailing flanges are provided for:
 - flush framing,
 - 1/2", and
 - 5/8" framing depths.
2. Secure the fireplace to the side framing members using the unit's nailing flanges—one top and bottom on each side of the fireplace front (**Figure 11**). Use 8d nails or the equivalent.

Figure 11: Nailing Flanges



VENT SYSTEM PREPARATION

7. Select a Horizontal or Vertical Vent System

1. With the fireplace secured in the framing, determine the vent route and identify the exterior termination location. The following sections describe vertical (roof) and horizontal (exterior wall) vent applications. Use only approved vent components (**Page 7** and **Page 43**).

NOTE: This fireplace must be vented directly to the outside.

WARNING

The vent system may not service multiple appliances, and must never be connected to a flue serving a separate solid fuel burning appliance.

NOTE: The vent pipe is tested to be run inside an enclosed wall (such as a chase). There is no requirement for inspection openings in the enclosing wall at any of the joints in the vent pipe.

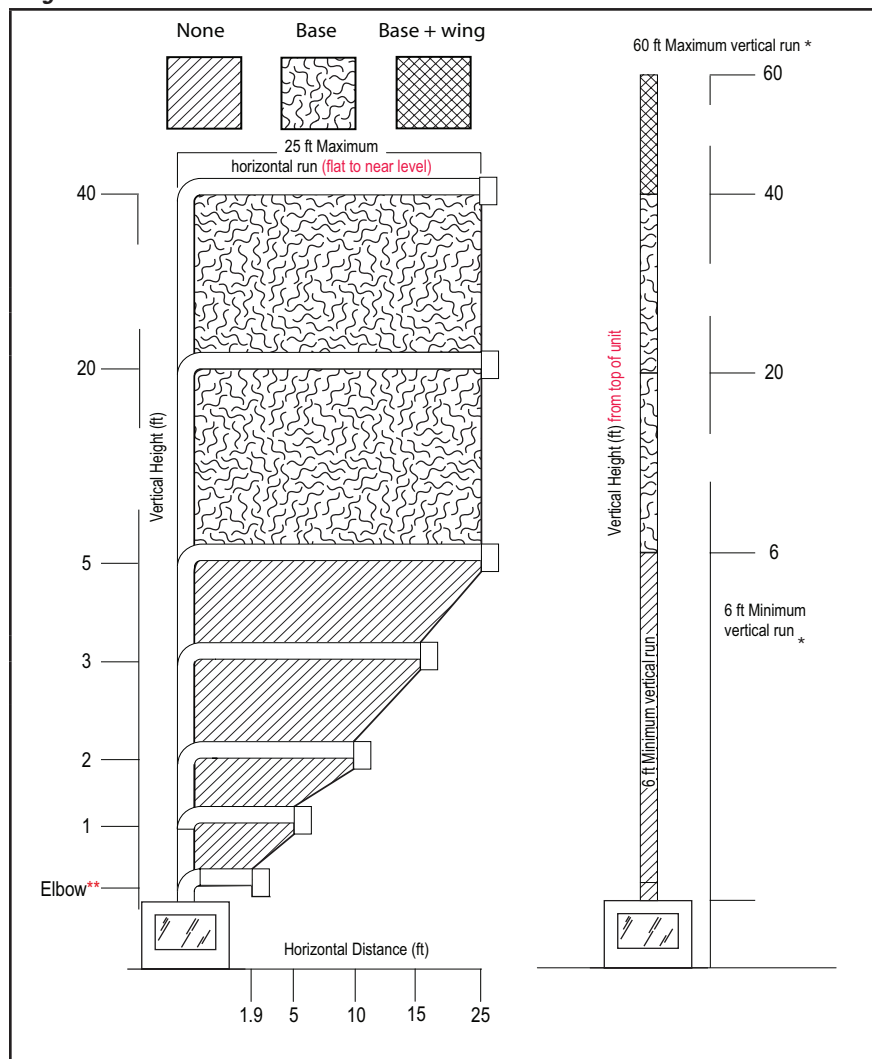
8. Install the Vent Restrictor (if necessary)

1. Use the vent run descriptions in **Figure 12** to determine if a vent restrictor is necessary.
2. If necessary, assemble the vent restrictor and wing as detailed in **Figure 12** and **Figure 15**.
3. If necessary, install the appropriate vent restrictor (**Figure 13** and **Figure 14**).

NOTE: If installing the vent restrictor in a rear vent application, ensure the factory-installed intake air baffle is in place (**Figure 14**).

NOTE: The vent restrictor is shipped in the firebox.

Figure 12: When to use a vent restrictor



* For straight runs or runs with elbows as illustrated in Vertical Vent Figures/Tables starting on

Page 26

** No rise required.

Figure 13: Vent restrictor installation, Top vent

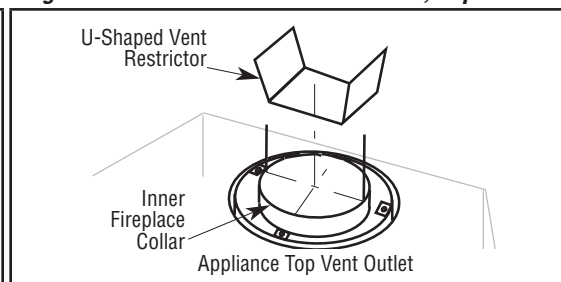


Figure 14: Vent restrictor installation, Rear vent

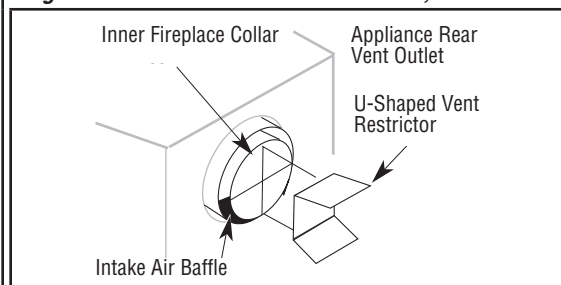
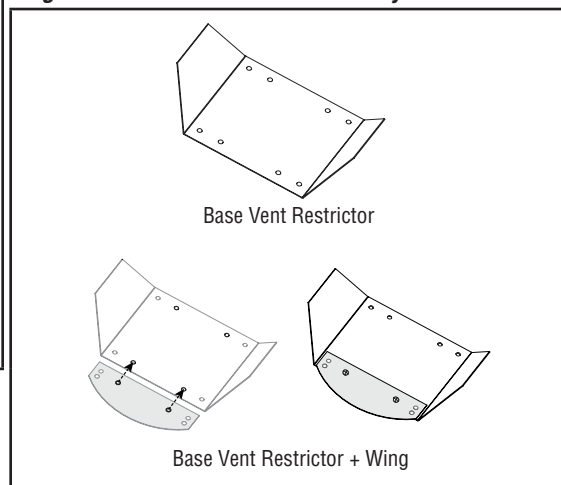


Figure 15: Vent restrictor assembly



Vent Restrictor with Vertical Terminations

When vertically terminating the vent system through the roof and using the vent restrictor, install the vent restrictor in the top vent of the fireplace outlet.

If installing more than 6 ft of vertical venting, install the restrictor (**Figure 13**), from inside or outside the unit, in the inner fireplace collar. The vent restrictor is held in place by friction.

Note: When using the vent restrictor in a top-vent application, remove baffle from inside the fireplace (see **Figure 38** on Page 39).

Vent Restrictor with Horizontal Terminations

When horizontally terminating a vent system with a vertical vent run up to 4 ft through an exterior wall, no vent restrictor is required.

If installing more than 4 ft of vertical venting, install the restrictor (**Figure 14**), from inside or outside the unit, in the inner fireplace collar. The vent restrictor is held in place by friction.

Table 14: Effective Vent Length

Model	Effective Length
SV4.5L6	4 1/2"
SV4.5L12	10 1/2"
SV4.5L24	22 1/2"
SV4.5L36	34 1/2"
SV4.5L48	46 1/2"

Connecting the vent pipe

Secure Vent® SV4.5 direct-vent system components are unitized concentric pipe components featuring positive twist lock connections (**Figure 16** and **Figure 17**). All of the fireplaces covered in this document are fitted with collars having locking inclined channels. The dimpled end of the vent components fit over the fireplace/vent collar to create the positive twist lock connection.

1. Align the dimpled end over the collar, adjusting the radial alignment until the four (4) locking dimples are aligned with the inlet of the four (4) inclined channels on the collar (**Figure 16**).
2. Push the vent component against the collar until it fully engages, then twist the component clockwise, running the dimples down and along the incline channels until they seat at the end of the channels.

NOTE: The unitized design of the Secure Vent® components will engage and seal both the inner and outer vent pipe.

3. If desired, a #6 x 1/2" screw can be used at the joint, but is not required as the pipe will securely lock when twisted (**Figure 17**).

Where required, a telescopic vent section (SV4.5LA) may be used to provide the installer with an option to install in tight and confined spaces, or where the vent run made up of fixed length pieces develops a joint in an undesirable location, or will not build up to the required length. The SV4.5LA Telescopic Vent Section has an effective length of from 1 1/2–7" (38–191 mm). The SV4.5LA is fitted with a locking inclined channel end (identical to a normal vent section component) and a plain end with three (3) pilot holes. Slip the plain end over the locking channel end of a standard SV4.5 vent component the required distance and secure with three (3) screws.

Figure 16: Connecting vent components

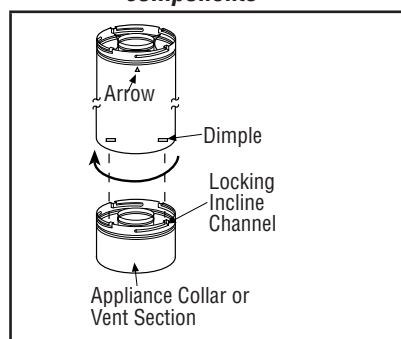


Figure 17: Connected vent components

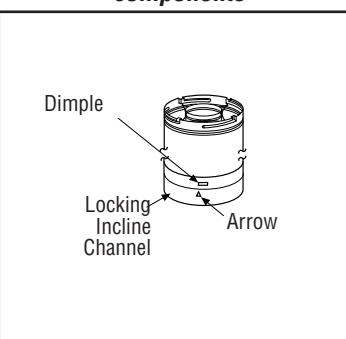
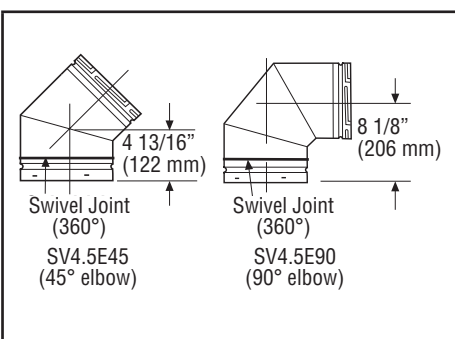


Figure 18: Elbow Dimensions



Vent elbows

Vent elbows are available in 90° and 45° configurations. Refer to **Figure 18** for the SV4.5E45 and SV4.5E90 elbow dimensions. The elbows feature a twist section to allow them to be routed about the center axis of their initial collar section to align with the required direction of the next vent run element.

1. Rotate the elbow in a clockwise direction (to avoid the possibility of unlocking any of the previously connected vent sections) for proper alignment (**Figure 18**). See **Connecting the vent pipe** for more information.

Vent section length table

Table 15 will assist calculating how many vent sections are needed for the planned vent configuration. When a vent section is engaged with another section, its effective length will be 1 1/2" shorter.

Table 15: Vent Section Length

Nominal Section Length (in.)		6	12	24	36	48	Total Qty
Net Section Length (in.)		4.5	10.5	22.5	34.5	46.5	
Height of Vent		Number of Vent Sections					
in.	ft						
4.5	0.375	1	0	0	0	0	1
9	0.75	2	0	0	0	0	2
10.5	0.875	0	1	0	0	0	1
15	1.25	1	1	0	0	0	2
22.5	1.875	0	0	1	0	0	1
31.5	2.625	0	3	0	0	0	3
34.5	2.875	0	0	0	1	0	1
37.5	3.125	1	1	1	0	0	3
43.5	3.625	0	2	1	0	0	3
45	3.75	0	0	2	0	0	2
46.5	3.875	0	0	0	0	1	1
51	4.25	1	0	0	0	1	2
55.5	4.625	0	1	2	0	0	3
57	4.75	0	0	1	1	0	2
67.5	5.625	0	0	3	0	0	3
69	5.75	0	0	0	2	0	2
73.5	6.125	1	0	0	2	0	3
79.5	6.625	0	1	0	2	0	3
81	6.75	0	0	0	1	1	2
91.5	7.625	0	0	2	0	1	3
93	7.75	0	0	0	0	2	2
97.5	8.125	1	0	0	0	2	3
103.5	8.625	0	0	0	3	0	3
108	9	1	0	0	3	0	4
117	9.75	1	0	5	0	0	6
118.5	9.875	1	1	0	3	0	5
126	10.5	0	0	1	3	0	4
130.5	10.875	1	0	1	3	0	5
135	11.25	0	0	6	0	0	6
139.5	11.625	0	0	0	0	3	3
142.5	11.875	1	0	0	4	0	5
144	12	1	0	0	0	3	4
154.5	12.875	1	1	0	0	3	5
160.5	13.375	0	2	0	0	3	5
172.5	14.375	0	0	0	5	0	5
177	14.75	1	0	0	5	0	6
186	15.5	0	0	0	0	4	4
196.5	16.375	0	1	0	0	4	5
207	17.25	0	0	0	6	0	6
211.5	17.625	1	0	0	6	0	7
217.5	18.125	0	1	0	6	0	7
229.5	19.125	0	0	1	6	0	7
232.5	19.375	0	0	0	0	5	5
241.5	20.125	0	0	0	7	0	7
246	20.5	1	0	0	7	0	8

Nominal Section Length (in.)		6	12	24	36	48	Total Qty
Net Section Length (in.)		4.5	10.5	22.5	34.5	46.5	
Height of Vent		Number of Vent Sections					
in.	ft						
252	21	0	1	0	7	0	8
276	23	0	0	0	8	0	8
279	23.25	0	0	0	0	6	6
280.5	23.375	1	0	0	8	0	9
289.5	24.125	0	1	0	0	6	7
301.5	25.125	0	0	1	0	6	7
310.5	25.875	0	0	0	9	0	9
325.5	27.125	0	0	0	0	7	7
330	27.5	1	0	0	0	7	8
345	28.75	0	0	0	10	0	10
349.5	29.125	1	0	0	10	0	11
372	31	0	0	0	0	8	8
379.5	31.625	0	0	0	11	0	11
418.5	34.875	0	0	0	0	9	9
465	38.75	0	0	0	0	10	10
475.5	39.625	0	1	0	0	10	11
480	40	1	1	0	0	10	12
492	41	1	0	1	0	10	12
499.5	41.625	0	0	0	1	10	11
504	42	1	0	0	1	10	12
511.5	42.625	0	0	0	0	11	11
520.5	43.375	0	2	0	1	11	14
531	44.25	0	2	2	0	11	15
538.5	44.875	1	0	0	2	11	14
549	45.75	1	0	2	1	11	15
558	46.5	0	0	0	0	12	12
562.5	46.875	1	0	0	0	12	13
568.5	47.375	0	1	0	0	12	13
573	47.75	1	1	0	0	12	14
580.5	48.375	0	0	1	0	12	13
589.5	49.125	0	1	2	2	10	15
595.5	49.625	1	1	1	0	12	15
604.5	50.375	0	0	0	0	13	13
615	51.25	0	1	0	0	13	14
625.5	52.125	0	2	0	0	13	15
631.5	52.625	1	0	1	0	13	15
637.5	53.125	0	1	1	0	13	15
651	54.25	0	0	0	0	14	14
655.5	54.625	1	0	0	0	14	15
672	56	0	2	0	0	14	16
678	56.5	1	0	1	0	14	16
688.5	57.375	1	1	1	0	14	17
697.5	58.125	0	0	0	0	15	15
702	58.5	1	0	0	0	15	16
712.5	59.375	1	1	0	0	15	17
720	60	0	0	1	0	15	16

Clearance to combustibles

Maintain the minimum clearance to combustibles (e.g., framing, attic, ceiling insulation, etc.).

For all vertical runs:

- 1" (25 mm) from all sides

NOTE: Attic insulation shield (H3907, see Page 43) must be installed when blown or loose-fill insulation is used, and is required for all attic installations.

For all horizontal/inclined runs:

- 3" (76 mm) from the top
- 2" (51 mm) from the top when 6 ft or more above the fireplace
- 1" (25 mm) from the sides
- 1" (25 mm) from the bottom

9. Install the Vent System

Install the Vertical Termination Vent System

These instructions should be used as a guideline and do not supersede local codes in any way. Install venting according to local codes, these instructions, the current National Fuel Gas Code (ANSI-Z223.1) in the USA or the current standards of CAN/CGA-B149.1 in Canada.

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

Dégagement conforme aux codes d'installation locaux et aux exigences du fournisseur de gaz.

Vertical vent systems terminate through the roof. The minimum vent height above the roof and/or adjacent walls is specified in ANSI Z223.1 (In Canada, the current CAN/CGA-B149.1 installation code) by major building codes. Always consult your local codes for specific requirements. A general guide to follow is the gas vent rule (**Table 6**).

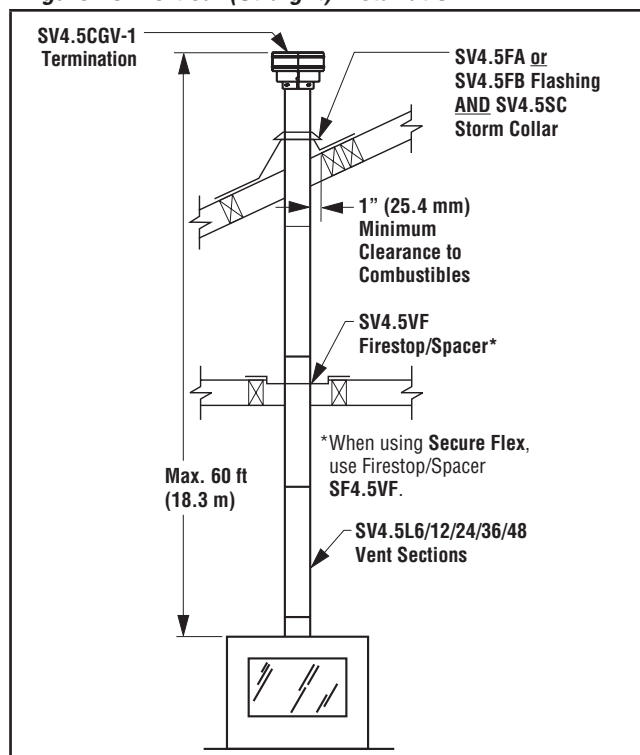
The following figures and their associated vertical vent tables illustrate the various configurations that are possible for use with these fireplaces. Secure Vent® pipe is shown in these figures; Secure Flex® pipe may also be used. A table summarizes each configuration's minimum and maximum vertical and horizontal length parameters for a variety of applications.

1. Refer to **Figure 25** and **Table 17–Table 20** on **Page 26–27** to select the type of vertical installation desired. Elbows are available in 90° and 45° configurations. Refer to **Figure 18** on **Page 21** for the SV4.5E45 and SV4.5E90 elbow dimensional specifications.

Vertical (Straight) Installation

1. **Determine the number of straight vent sections required**—See **Effective Vent Length** on **Page 21** for more information. Plan the vent lengths so that a joint does not occur at the intersection of ceiling or roof joists.

Figure 19: Vertical (Straight) Installation



Vertical (Offset) Installation

1. **Analyze the vent route and determine the number of vent sections and elbows required**—See **Effective Vent Length on Page 21** for more information. Plan the venting so that a joint does not occur in the ceiling or roof joists. Allow for elbows (**Figure 18**). Maintain the minimum clearances for combustibles (**Page 23**).
2. **Frame the ceiling opening**—Use a plumb line from the ceiling above the fireplace to locate the center of the vertical run. Cut and/or frame an opening, 10 1/2 x 10 1/2" (267 x 267 mm) inside dimensions, about this center mark (**Figure 20**).

Figure 20: Framing the ceiling opening

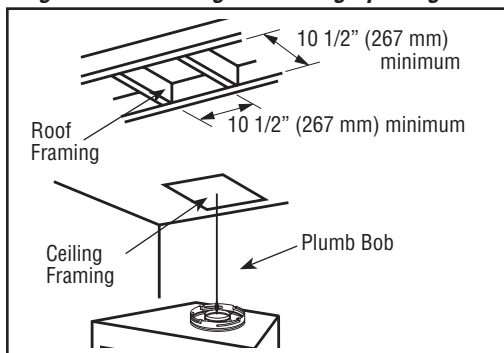
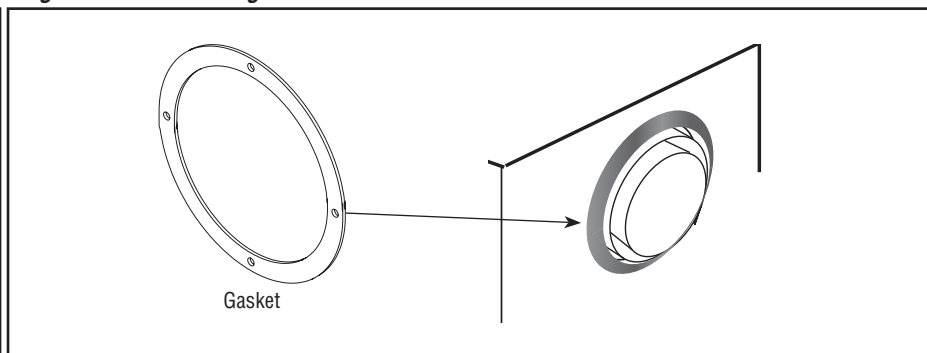


Figure 21: Rear vent gasket



3. **Install the rear vent gasket**—The rear vent gasket is factory installed and required for all rear vent applications. If the gasket is missing, position a replacement gasket (~~contact your local dealer~~) around the vent collar before attaching other vent components to the fireplace (**Figure 21**). Loosely attach the gasket with two screws at the top and bottom.
4. **Attach the vent components to the fireplace**—See **Connecting the vent pipe on Page 21**.
5. **Attach the vent components to each other**—See **Connecting the vent pipe on Page 21**.
6. **Install firestop/spacer at ceiling**—When using Secure Vent®, use SV4.5VF firestop/spacer at ceiling joists; when using Secure Flex®, use SF4.5VF firestop/spacer. If there is living space above the ceiling level, the firestop/spacer must be installed on the bottom side of the ceiling. If attic space is above the ceiling, the firestop/spacer must be installed on the top side of the joist. Route the vent sections through the framed opening and secure the firestop/spacer with 8d nails or other appropriate fasteners at each corner.

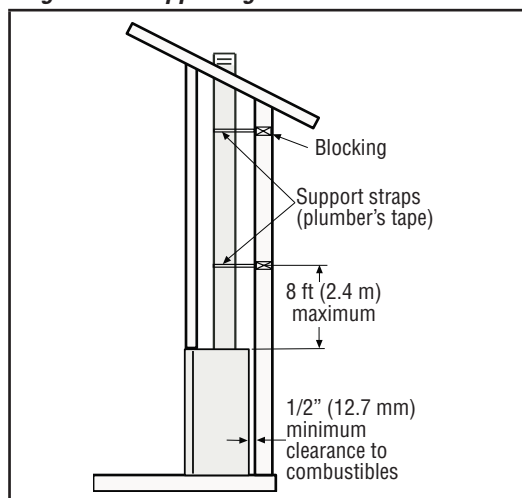
Remember to maintain 1" (25 mm) clearance to combustibles, framing members, and attic or ceiling insulation when running vertical chimney sections. The gap between the vent pipe and a vertical firestop can be sealed with non-combustible caulking.

NOTE: Attic insulation shield (H3907) must be installed when blown or loose-fill insulation is used, and is recommended for all attic installations.

7. **Support the vertical vent run sections**—Support the vertical portion of the venting system every 8 ft (2.4 m) above the fireplace vent outlet. One method of support is by utilizing field provided support straps (conventional plumber's tape). Secure the plumber's tape to the framing members with nails or screws. Loop the tape around the vent, securing the ends of the tape to the framing. If desired, sheet metal screws #6 x 1/2" length may be used to secure the support straps to the vent pipe (**Figure 22**).

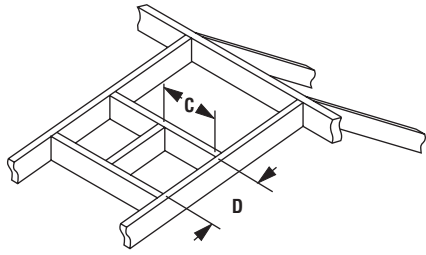
NOTE: Proper venting support is very important.

Figure 22: Supporting the Vertical Vent Run



8. **Change vent direction of horizontal/inclined run**—Install the SV4.5E45 and SV4.5E90 elbows in the same manner as the straight vent sections. See **Vent elbows on Page 21** for more information.
9. **Continue installation of horizontal/inclined sections**—Continue with the installation of the straight vent sections in horizontal/inclined run. Install support straps every 5 ft (1.52 m) along horizontal/inclined vent runs using conventional plumber's tape.
Rise per foot run ratios are acceptable all the way to level. For best results, maintain the horizontal/inclined run in a straight (no dips), slightly elevated plane of approximately 1/4" per 1 ft (20 mm per 1 m).
Maintain the required clearances to combustibles (**Page 23**).
10. **Frame the roof opening**—Identify the location for the vent at the roof. Cut and/or frame opening (**Table 16**).

Table 16: Roof Framing Dimensions

	Pitch	C	D
	0/12	10 1/2" (267 mm)	10 1/2" (267 mm)
	6/12	10 1/2" (267 mm)	12" (305 mm)
	12/12	10 1/2" (267 mm)	17 3/4" (451 mm)

11. **Install the roof flashing**—Extend the vent sections through the roof structure. Install the roof flashing over the vent section and position such that the vent column rises vertically (use carpenter's level). Nail along perimeter to secure flashing or adjust roofing to overlap the flashing edges at top and sides only and trim where necessary. Seal the top and both sides of the flashing with waterproof caulking.
12. **Install the storm collar**—Install the storm collar, supplied with the flashing, over the vent/flashing joint (**Figure 23**). Loosen the storm collar screw. Slide collar down until it meets the top of the flashing. Tighten the adjusting screw. Apply non-combustible caulking or mastic around the circumference of the joint to provide a water tight seal.

Figure 23: Installing the Storm Collar

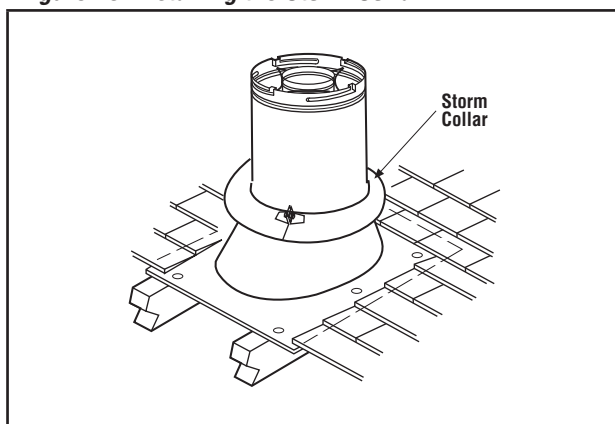
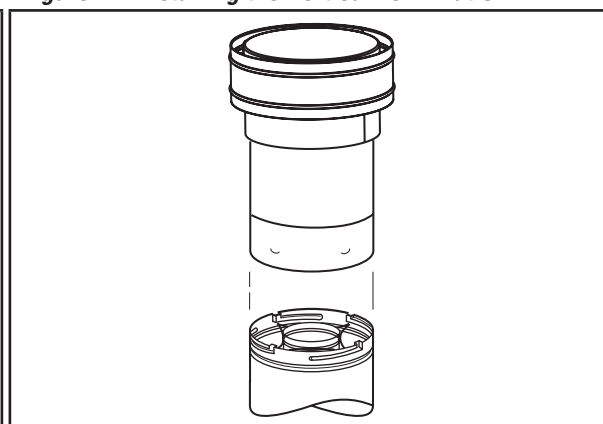


Figure 24: Installing the Vertical Termination



13. **Install the vertical termination**—The final step involves installation of the SV4.5CGV-1 vertical termination. Extend the vent sections to the correct height (**Figure 4**). The SV4.5CGV-1 Vertical Termination (**Figure 24**) installs in the exact same fashion as any other Secure Vent® section. Align the termination over the end of the previously installed section, adjusting the radial alignment until the four (4) locking dimples of the termination are aligned with the inlets of the four (4) incline channels of the last vent section. Push the termination down until it fully engages, then twist the termination clockwise running the dimples down and along the incline channels until they seat at the end of the channels.
If the vent system extends more than 5 ft (1.5 m) above the roof flashing, stabilizers may be necessary. Additional screws may be used at section joints for added stability. Guide wires or roof support assemblies may be attached to the joint for additional support on multiple joint configurations.

Vertical Vent Figures/Tables

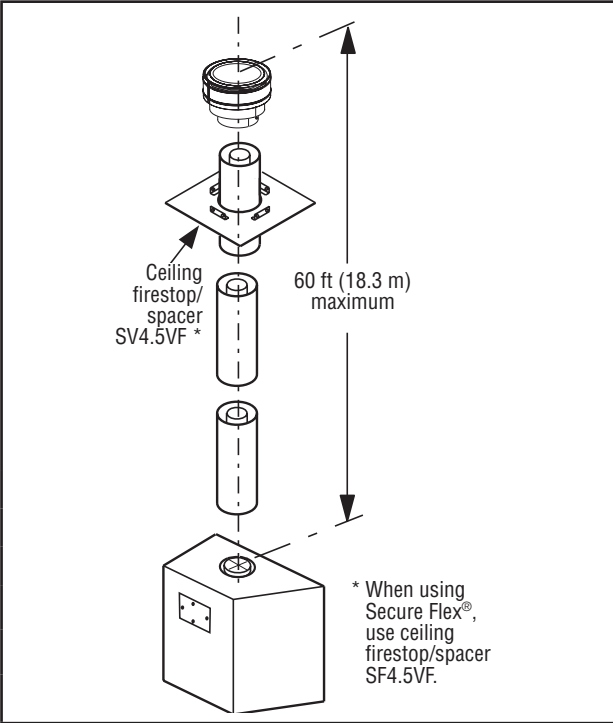
- NOTE:** Secure Vent® rigid vent pipe is shown in the figures; Secure Flex® flexible vent pipe may also be used.
- NOTE:** Rise per foot run ratios are acceptable all the way to level. For best results, maintain the horizontal/inclined run in a straight (no dips), slightly elevated plane of approximately 1/4" per 1 ft (20 mm per 1 m).
- NOTE:** SV4.5VF (Secure Vent), SF4.5VF (Secure Flex) firestop/spacer must be used anytime vent pipe passes through a combustible floor or ceiling. SV4.5HF (Secure Vent), SF4.5HF (Secure Flex) firestop/spacer must be used anytime vent pipe passes through a combustible wall.
- NOTE:** Two (2) 45° elbows may be used in place of one (1) 90° elbow. The same rise to run ratios, as shown in the venting figures for 90° elbows, must be followed if 45° elbows are used.
- NOTE:** An elbow is acceptable as 1 ft of vertical rise, except where an elbow is the only vertical component in the system.

!

WARNING

Do NOT join separate sections of concentric flexible vent pipe.

Figure 25: Top Vent—Straight



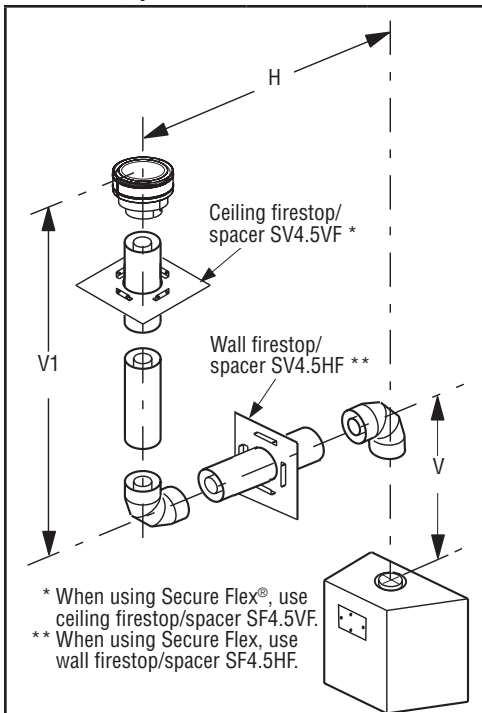
Install the U-shaped vent restrictor in any vent run with more than 6 ft of vertical rise. See Page 20 for more information.
Minimum 6 ft and maximum of 60 ft of vertical venting.

Table 17: Rear Vent—One 90° Elbow

H Maximum		V Minimum	
feet	meters	feet	meters
2	0.610	1	0.305
4	1.219	2	0.610
6	1.829	3	0.914
8	2.438	4	1.219

V + H = 60 ft (18.3 m) maximum
H = 8 ft (2.4 m) maximum
Install the U-shaped vent restrictor in any vent run with more than 6 ft of vertical rise. See Page 20 for more information.
If 8 ft of (H) horizontal vent run is needed, then 4 ft (straight section) minimum of (V) vertical vent will be required.
This table shows a 1 (V) to 2 (H) ratio. For every 1 ft of (V) vertical, you are allowed 2 ft of (H) horizontal run, up to a maximum horizontal run of 8 ft.
Minimum 6 ft of vertical venting.

Table 18: Top Vent—Two 90° Elbows



H Maximum		V Minimum	
feet	meters	feet	meters
5	1.524	Elbow Only	
5	1.524	1	0.305
10	3.048	2	0.610
15	4.572	3	0.914
25	7.62	5	1.524

$V + V_1 + H = 60$ ft (18.3 m) maximum

H = 25 ft (7.62 m) maximum

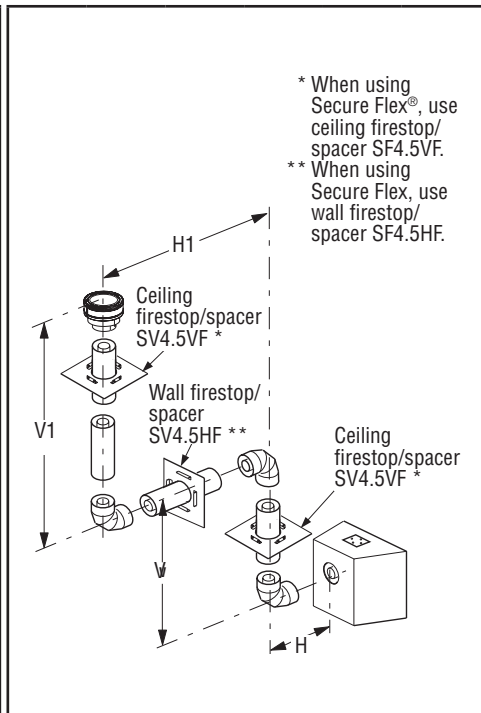
Install the U-shaped vent restrictor in any vent run with more than 6 ft of vertical rise. See Page 20 for more information.

If 25 ft of (H) horizontal vent run is needed, then 5 ft (straight section) minimum of (V) vertical vent will be required.

This table shows a 1 (V) to 5 (H) ratio. For every 1 ft of (V) vertical, you are allowed 5 ft of (H) horizontal run, up to a maximum horizontal run of 25 ft.

Minimum 6 ft and maximum of 60 ft of vertical venting.

Table 19: Rear Vent—Three Elbows



H + H ₁ Maximum		H Maximum		V Minimum	
ft	m	ft	m	ft	m
5	1.524	2	0.610	1	0.305
10	3.048	4	1.219	2	0.610
15	4.572	6	1.829	3	0.914
20	6.096	8	2.438	4	1.219

H = 8 ft (2.4 m) maximum

H + H₁ = 20 ft (6.1 m) maximum

V + V₁ + H + H₁ = 60 ft (18.3 m) maximum

Install the U-shaped vent restrictor in any vent run with more than 6 ft of vertical rise. See Page 20 for more information.

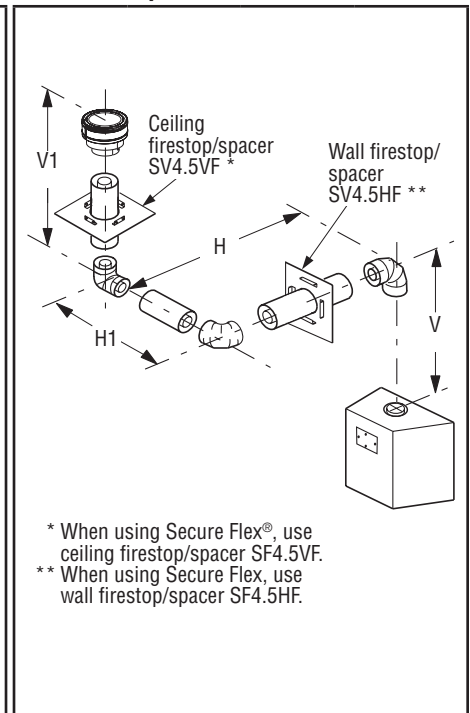
If 20 ft of (H) horizontal vent run is needed, then 4 ft (straight section) minimum of (V) vertical vent will be required.

This table shows a 1 (V) to 5 (H) ratio. For every 1 ft of (V) vertical, you are allowed 5 ft of (H) horizontal run, up to a maximum horizontal run of 20 ft.

NOTE: The vent system may have a maximum of three (3) 90° elbows.

Minimum 6 ft of vertical venting.

Table 20: Top Vent—Three Elbows



H + H ₁ Maximum		V Minimum	
feet	meters	feet	meters
5	1.524	Elbow Only	
5	1.524	1	0.305
10	3.048	2	0.610
15	4.572	3	0.914
20	6.096	4	1.219

H + H₁ = 20 ft (6.1 m) maximum

V + V₁ + H + H₁ = 60 ft (18.3 m) maximum

Install the U-shaped vent restrictor in any vent run with more than 6 ft of vertical rise. See Page 20 for more information.

If 20 ft of (H) horizontal vent run is needed, then 4 ft (straight section) minimum of (V) vertical vent will be required.

This table shows a 1 (V) to 5 (H) ratio. For every 1 ft of (V) vertical, you are allowed 5 ft of (H) horizontal run, up to a maximum horizontal run of 20 ft.

NOTE: The vent system may have a maximum of three (3) 90° elbows.

Minimum 6 ft and maximum of 60 ft of vertical venting.

Install the Horizontal Termination Vent System

These instructions should be used as a guideline and do not supersede local codes in any way. Install venting according to local codes, these instructions, the current National Fuel Gas Code (ANSI-Z223.1) in the USA or the current standards of CAN/CGA-B149.1 in Canada.

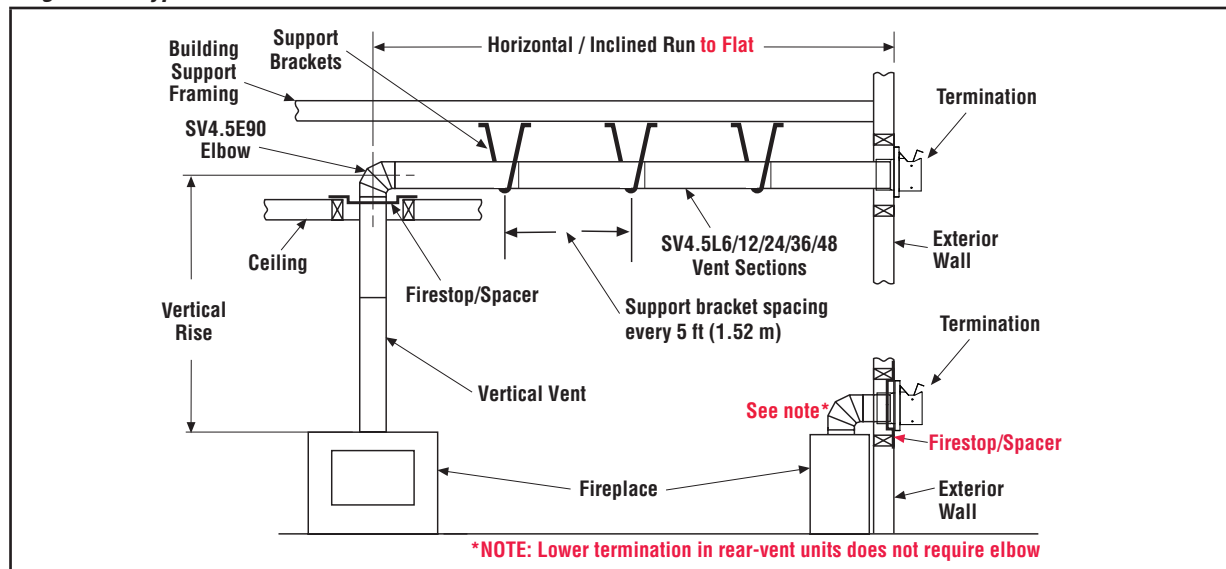
Ensure clearances are in accordance with local installation codes and the requirements of the gas supplier.

Dégagement conforme aux codes d'installation locaux et aux exigences du fournisseur de gaz.

Horizontal vent systems terminate through an outside wall. Building Codes limit or prohibit terminating in specific areas (**Table 7**).

The following figures and their associated horizontal vent tables illustrate the various configurations that are possible for use with these fireplaces. Secure Vent® pipe is shown in these figures; Secure Flex® pipe may also be used. A table summarizes each configuration's minimum and maximum vertical and horizontal length parameters for a variety of applications. For more information on connecting the vent pipe, see **Page 21**.

Figure 26: Typical Horizontal Vent Installation



- Analyze the vent route and determine the number of vent sections and elbows required**—See **Effective Vent Length on Page 21** for more information. Plan the venting so that a joint does not occur in the ceiling or roof joists. Allow for elbows (**Figure 18**). Maintain the minimum clearances for combustibles (**Page 23**).
- Frame the exterior wall opening**—Locate the center of the vent outlet on the exterior wall (**Table 11**). Cut and/or frame an opening, 10 1/2 x 12 1/8" (267 x 308 mm) inside dimensions, about this center.
- Frame the ceiling opening**—If the vertical route is to penetrate a ceiling, use plumb line to locate the center above the fireplace. Cut and/or frame an opening, 10 1/2 x 10 1/2" (267 x 267 mm) inside dimensions, about this center (**Figure 20**).
- Install the rear vent gasket**—The rear vent gasket is factory installed and required for all rear vent applications. If the gasket is missing, position a replacement gasket (contact your local dealer) around the vent collar before attaching other vent components to the fireplace (**Figure 21**). Loosely attach the gasket with two screws at the top and bottom.
- Attach the vent components to the fireplace**—See **Connecting the vent pipe on Page 21**.
- Attach the vent components to each other**—See **Connecting the vent pipe on Page 21**.
- Install the firestop/spacer at the ceiling**—When using Secure Vent®, use SV4.5VF firestop/spacer at ceiling joists; when using Secure Flex®, use SF4.5VF firestop/spacer. If there is living space above the ceiling level, the firestop/ spacer must be installed on the bottom side of the ceiling. If attic space is above the ceiling, the firestop/spacer must be installed on the top side of the joist. Route the vent sections through the framed opening and secure the firestop/spacer with 8d nails or other appropriate fasteners at each corner.
Maintain 1" (25 mm) clearance to combustibles, framing members, and attic or ceiling insulation when running vertical chimney sections.
- Support the vertical run sections**—On the vertical run, support the venting system every 8 ft (2.4 m) above the fireplace vent outlet with field provided support straps (Plumber's tape). Attach the straps to the vent pipe and secure to the framing members with nails or screws (**Figure 26**).

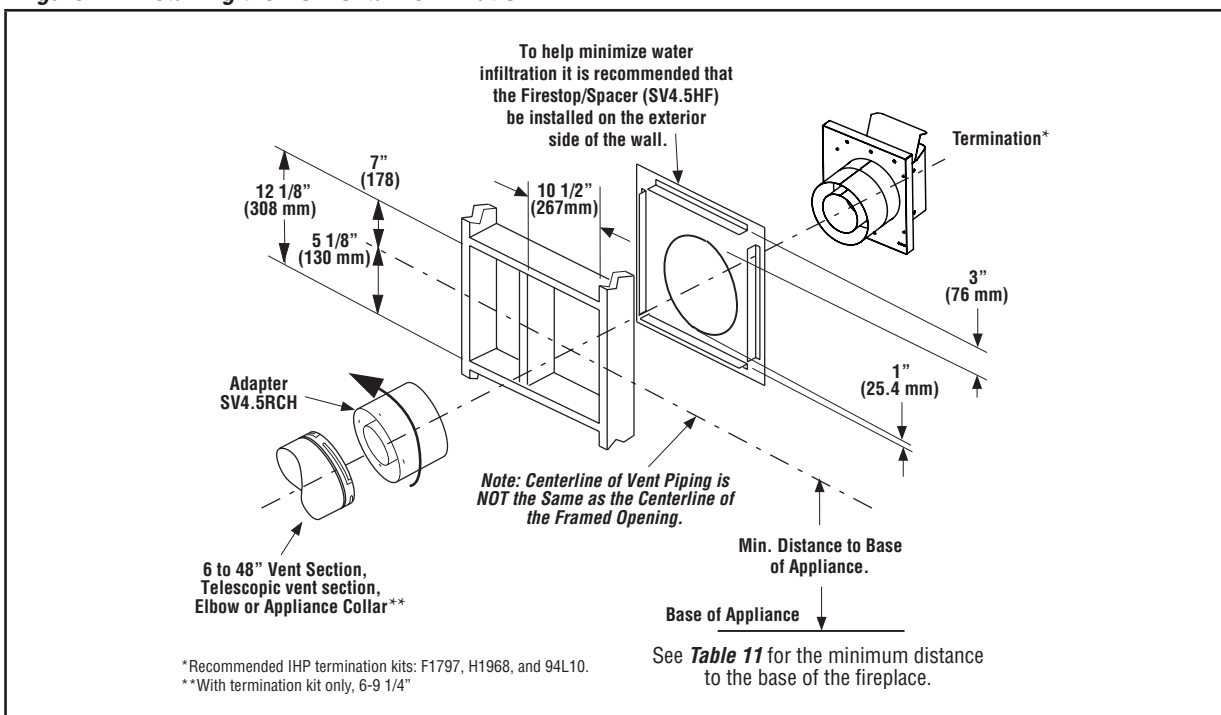
9. **Change vent direction**—At transition from or to a horizontal/inclined run, install SV4.5E45 or SV4.5E90 elbows in the same manner as the straight vent sections. The elbows feature a twist section to allow them to be routed about the center axis of their initial collar section to align with the required direction of the next vent run element. Twist elbow sections in a clockwise direction only so as to avoid the possibility of unlocking any of the previously connected vent sections (**Figure 18**).
10. **Continue installation of horizontal/inclined sections**—Continue with the installation of the straight vent sections in horizontal/inclined run. Install support straps every 5 ft. (1.52 m) along horizontal/inclined vent runs using conventional plumber's tape (**Figure 26**). Maintain the horizontal/inclined run in a straight (no dips), slightly elevated plane. The recommended incline is approximately 1/4" per 1 ft (20 mm per 1 m) horizontal, in a direction away from the fireplace. **Smaller rise per foot run ratios are acceptable all the way to at or near level.** Use a carpenter's level to measure from a constant surface and adjust the support straps as necessary. Maintain the required clearances to combustibles (**Page 23**).
11. **Assemble the vent run to the exterior wall**—If not previously measured, locate the center of the vent at the exterior wall. Prepare the opening. Assemble the vent system until the terminus of the last section is within 7" (178 mm) to 11 1/4" (286 mm) inboard of the exterior surface to which the SV4.5 HT termination is to be attached (**Figure 27**). If the terminus of the last section is not within this distance, use the telescopic vent section SV4.5LA, as the last vent section. **Table 21** lists the additional venting components needed (in addition to the termination and adaptor) for a range of wall thicknesses.
12. **Attach the termination adaptor**—Attach the adaptor (SV4.5RCH, provided with the termination) to the vent section or telescoping vent section, elbow or fireplace collar (**Figure 27**).
13. **Install the firestop/spacer at the exterior wall**—When using the square termination, install SV4.5HF (Secure Vent), SF4.5HF (Secure Flex) Firestop/Spacer over the opening at the exterior side of the framing, long side up, with the 3" spacer clearance at the top (**Figure 27**) and nail into place.
NOTE: The firestop/spacer may also be installed over the opening at the interior side of the framing.
14. **Install the termination (SV4.5HT-2, SV4.5HTSS, or SV4.5HTKCT)**—From outside the exterior wall, slide the collars of the termination onto the adaptor (the outer over the outer and the inner inside the inner) until the termination seats against the exterior wall surface to which it will be attached. Orient the housing of the termination with the arrow pointed upwards. Secure the termination to the exterior wall. The horizontal termination must not be recessed into the exterior wall or siding by more than the 1 1/4" (32 mm) (**Figure 28**).
NOTE: Termination SV45HTKCT (and other compact terminations) should not be used with a straight, horizontally vented rear termination in the 45" units. A minimum 12" rise is required when venting the 45" units.
NOTE: If the venting exits the building below grade, or close to grade, see **Installation Accessories on Page 43 for available snorkel terminations. The termination must be above grade and above the expected level of snow accumulation.**
NOTE: The vent termination is hot while in operation and for a period of time following the use of the fireplace. To prevent contact with hot surfaces, use a horizontal termination guard; available for purchase at your local dealer.

The horizontal terminations have been designed to perform in a wide range of weather conditions. Our terminations meet or exceed industry standards.

When selecting the locations of your horizontal terminations, **do not place the termination where water from eaves and adjoining rooflines may create a heavy flow of cascading water onto the termination cap.** If the cap must be placed where the possibility of cascading water exists, it is the responsibility of the builder to direct the water away from the termination cap by using gutters or other means.

Take care to carefully follow the installation instructions for the termination, including the use of silicone caulking where required.

Figure 27: Installing the Horizontal Termination



NOTE: To help minimize water infiltration install the firestop/spacer (SV4.5HF) on the exterior side of the wall. The firestop may be caulked with mill base caulk (such as 10K81) or high-temperature silicone.

Figure 28: Venting Connection and Exterior Wall Recessing of the Horizontal Compact Termination (SV4.5HTKCT)

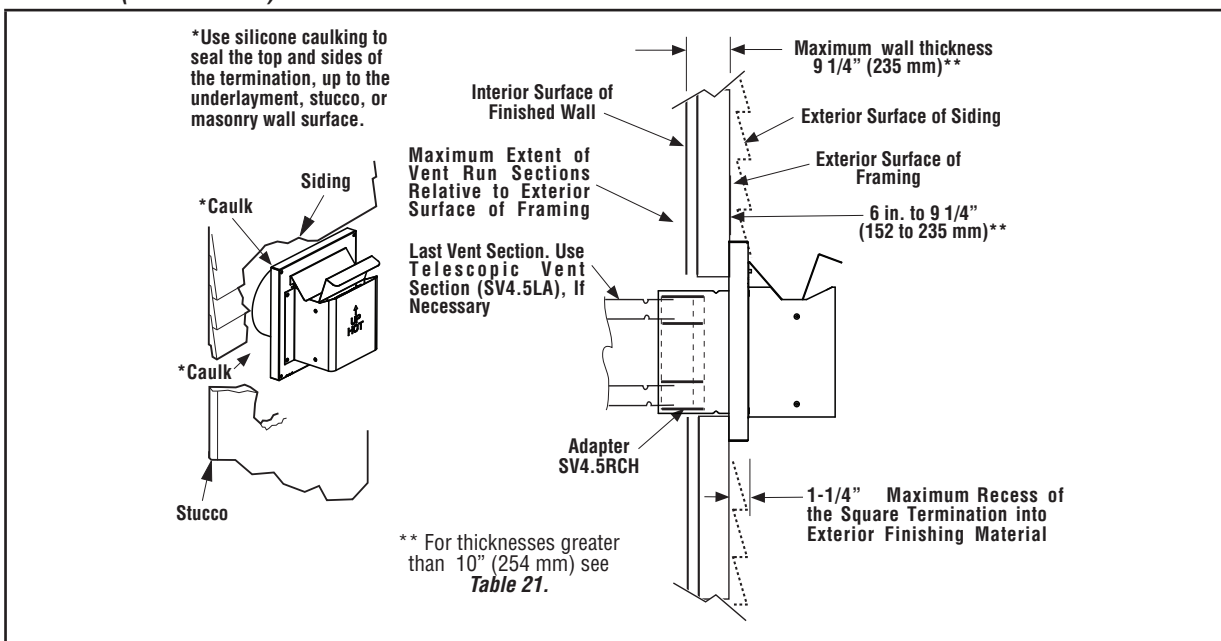


Table 21: Venting Components Required for Various Exterior Wall Thicknesses, when using Typical Termination Kits

Vent Components Required	Exterior Wall Thickness
Termination Kit Only	6–9 1/4" (152–235 mm)
Termination Kit and 6" Vent Section (SV4.5L6)	10 3/4–14" (273–356 mm)
Termination Kit and 12" Vent Section (SV4.5L12)	16 3/4–20" (426–508 mm)
Termination Kit and Telescopic Section (SV4.5L12)	11 3/4–20" (299–508 mm)

NOTE: See **Figure 28** for wall thickness ranges when using SV4.5HTKCT termination kit.

Horizontal Vent Figures/Tables

NOTE: Secure Vent® rigid vent pipe and terminal are shown in the figures. Secure Flex® flexible vent pipe and terminal may also be used.

NOTE: Two (2) 45° elbows may be used in place of one (1) 90° elbow. The same rise to run ratios, as shown in the venting figures for 90° elbows, must be followed if 45° elbows are used.

NOTE: Maintain the horizontal/inclined run in a straight (no dips), slightly elevated plane. The recommended incline is approximately 1/4" per 1 ft (20 mm per 1 m) horizontal, in a direction away from the fireplace. Smaller rise per foot run ratios are acceptable all the way to at or near level. Use a carpenter's level to measure from a constant surface and adjust the support straps as necessary.

NOTE: SV4.5VF (Secure Vent), SF4.5VF (Secure Flex) firestop/spacer must be used any time vent pipe passes through a combustible floor or ceiling. SV4.5HF (Secure Vent), SF4.5HF (Secure Flex) firestop/spacer must be used any time vent pipe passes through a combustible wall.

WARNING

Do not join separate sections of concentric flexible vent together.

Table 22: Rear Vent—No Elbows

Compact termination (SV4.5HTKCT) shown.

See **Table 21** as an aid in venting component selection for a particular range of exterior wall thicknesses.

Note: "H" is horizontal distance from rear of unit to outer wall surface

Note: On 45" models only, 1" vertical rise is required when using compact horizontal termination with a rear vent.

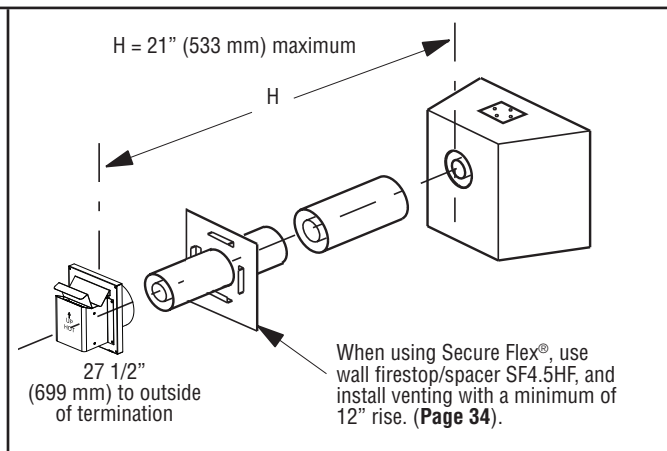


Table 23: Top Vent—One 90° Elbow, Elbow Connection at Fireplace

H Maximum		V Minimum	
feet	meters	feet	meters
3	0.91	Elbow only	

Install the U-shaped vent restrictor in any vent run with more than 4 ft of vertical rise. See Page 20 for more information.

Compact termination (SV4.5HTKCT) shown.

See **Table 21** as an aid in venting component selection for a particular range of exterior wall thicknesses.

NOTE: Only in top vent where elbow is connected at fireplace collar is it allowed to count elbow as 1 ft. vertical (V) rise.

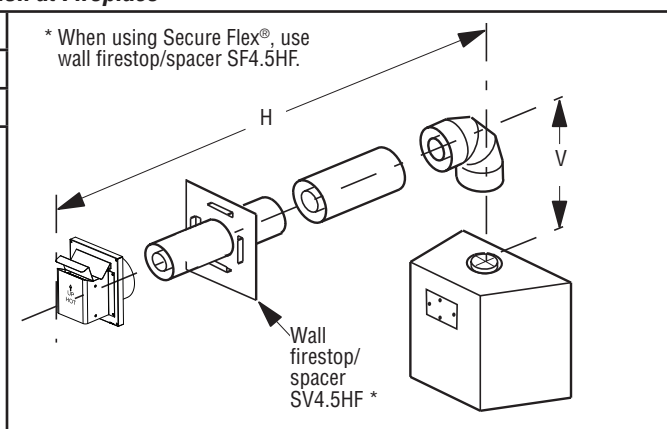


Table 24: Top Vent—One 90° Elbow, Elbow Connection NOT at Fireplace

H Maximum		V Minimum	
feet	meters	feet	meters
5	1.524	1	0.305
10	3.048	2	0.610
15	4.572	3	0.914
25	7.62	5	1.524

Install the U-shaped vent restrictor in any vent run with more than 4 ft of vertical rise. See Page 20 for more information.

Compact termination (SV4.5HTKCT) shown.

See Table 21 as an aid in venting component selection for a particular range of exterior wall thicknesses.

If 25 ft of (H) horizontal vent run is needed, then 5 ft minimum of (V) vertical vent will be required.

This table shows a 1 (V) to 5 (H) ratio. For every 1 ft of (V) vertical, you are allowed 5 ft of (H) horizontal run, up to a maximum horizontal run of 25 ft (7.62 m).

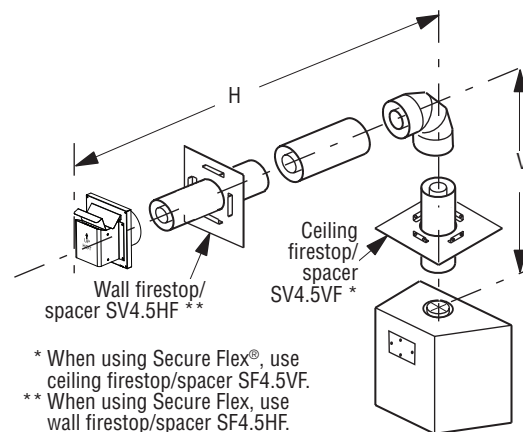


Table 25: Rear Vent—Two 90° Elbows

H + H ₁ Maximum		H Maximum		V Minimum	
feet	meters	feet	meters	feet	meters
5	1.524	2	0.610	1	0.305
10	3.048	4	1.219	2	0.610
15	4.572	6	1.829	3	0.914
25	7.62	10	3.048	5	1.524

V + H + H₁ = 60 ft (18.288 m) maximum

H = 8 ft (2.438 m) maximum

H + H₁ = 25 ft (7.62 m) maximum

Install the U-shaped vent restrictor in any vent run with more than 4 ft of vertical rise. See Page 20 for more information.

Compact termination (SV4.5HTKCT) shown.

See Table 21 as an aid in venting component selection for a particular range of exterior wall thicknesses.

If 25 ft of (H) horizontal vent run is needed, then 5 ft minimum of (V) vertical vent will be required.

This table shows a 1 (V) to 5 (H) ratio. For every 1 ft of (V) vertical, you are allowed 5 ft of (H) horizontal run, up to a maximum horizontal run of 25 ft (7.62 m).

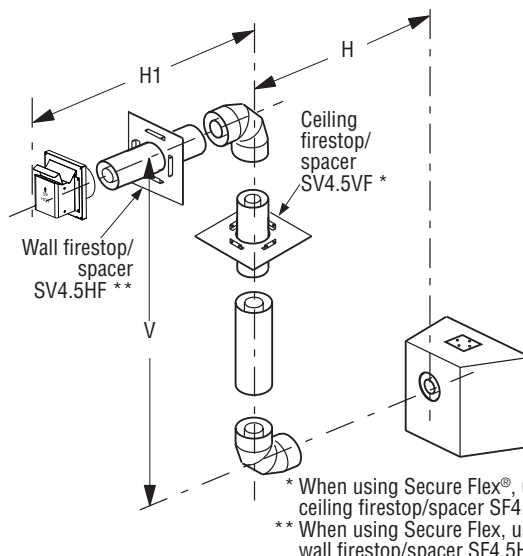


Table 26: Top Vent—Two 90° Elbows

H + H ₁ Maximum		V Minimum	
feet	meters	feet	meters
3	0.91	Elbow only	
5	1.524	1	0.305
10	3.048	2	0.610
15	4.572	3	0.914
25	7.62	5	1.524

V + H + H₁ = 60 ft (18.288 m) maximum

H + H₁ = 25 ft (7.62 m) maximum

Install the U-shaped vent restrictor in any vent run with more than 4 ft of vertical rise. See Page 20 for more information.

Compact termination (SV4.5HTKCT) shown.

See Table 21 as an aid in venting component selection for a particular range of exterior wall thicknesses.

If 25 ft of (H) horizontal vent run is needed, then 5 ft minimum of (V) vertical vent will be required.

This table shows a 1 (V) to 5 (H) ratio. For every 1 ft of (V) vertical, you are allowed 5 ft of (H) horizontal run, up to a maximum horizontal run of 25 ft (7.62 m).

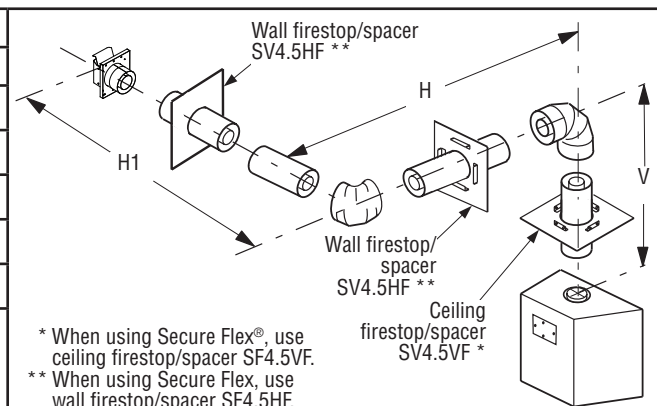


Table 27: Rear Vent—Three 90° Elbows

H + H ₁ + H ₂ Maximum		H Maximum		V Minimum	
feet	meters	feet	meters	feet	meters
5	1.524	2	0.610	1	0.305
10	3.048	4	1.219	2	0.610
15	4.572	6	1.829	3	0.914
20	6.096	8	2.438	4	1.219

V + H + H₁ + H₂ = 60 ft (18.288 m) maximum

H = 8 ft (2.438 m) maximum

H + H₁ + H₂ = 25 ft (7.62 m) maximum

Install the U-shaped vent restrictor in any vent run with more than 4 ft of vertical rise. See Page 20 for more information.

Compact termination (SV4.5HTKCT) shown.

See **Table 21** as an aid in venting component selection for a particular range of exterior wall thicknesses.

If 20 ft of (H) horizontal vent run is needed, then 4 ft minimum of (V) vertical vent will be required.

This table shows a 1 (V) to 5 (H) ratio. For every 1 ft of (V) vertical, you are allowed 5 ft of (H) horizontal run, up to a maximum horizontal run of 20 ft (6.096 m).

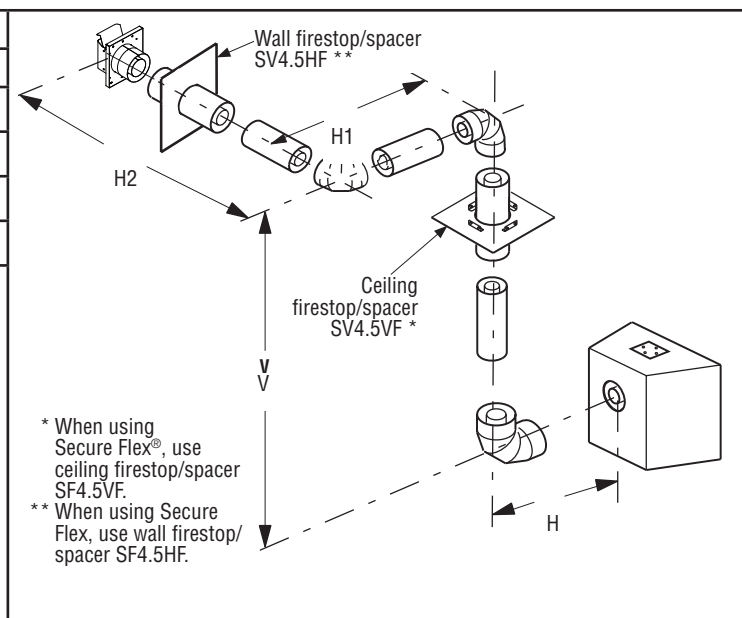


Table 28: Top Vent—Three 90° Elbows

H Maximum		V Minimum	
feet	meters	feet	meters
5	1.524	Elbow only	
5	1.524	1	0.305
10	3.048	2	0.610
15	4.572	3	0.914
20	6.096	4	1.219

H + H₁ = 25 ft (7.62 m) maximum

V + V₁ + H + H₁ = 60 ft (18.288 m) maximum

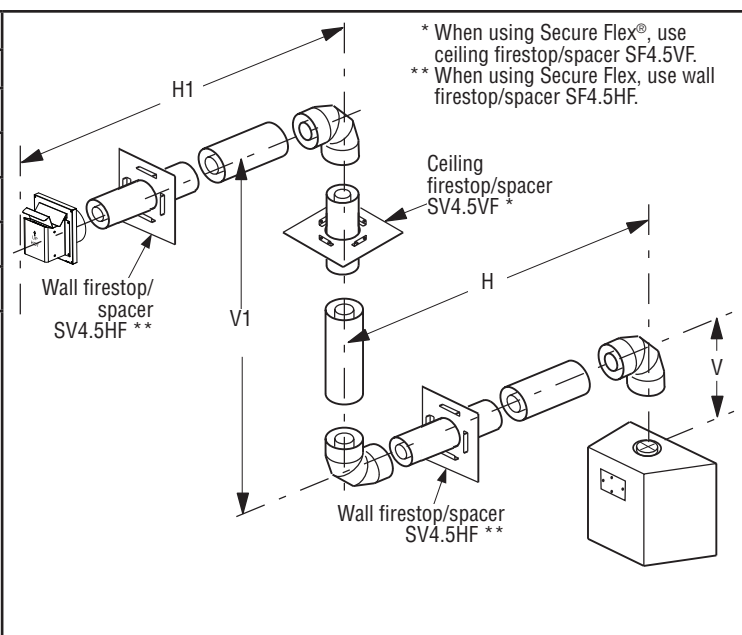
Install the U-shaped vent restrictor in any vent run with more than 4 ft of vertical rise. See Page 20 for more information.

Compact termination (SV4.5HTKCT) shown.

See **Table 21** as an aid in venting component selection for a particular range of exterior wall thicknesses.

If 20 ft of (H) horizontal vent run is needed, then 4 ft minimum of (V) vertical vent will be required.

This table shows a 1 (V) to 5 (H) ratio. For every 1 ft of (V) vertical, you are allowed 5 ft of (H) horizontal run, up to a maximum horizontal run of 20 ft (6.096 m).



Vertical or Horizontal Venting Using Secure Flex Kits and Components

When Secure Flex® kits are used in a rear flue, horizontal termination installation, at least 1 ft of vertical rise is required.

Secure Flex venting kits and components may be used in any other vent installation where rigid Secure Vent® (SV4.5) direct-vent components can be used. All restrictions, clearances and allowances pertaining to rigid vent also apply to flexible vent. Do NOT modify Secure Flex kits. Also, do NOT join separate sections of flex vent together. Secure Flex kits can be installed on the end of a Secure Vent (SV4.5) rigid vent run, provided that doing so does not violate any of the venting length, height, routing, horizontal to vertical ratio requirements, or clearance considerations detailed in this manual. When combined, a rigid vent should not be installed between two flexible vents.

Secure Flex kits come with an included adaptor that can be installed on the fireplace collar or the inclined channel end of the last Secure Vent (SV4.5) vent section in a rigid system in the exact same fashion as any other Secure Vent section. Align the dimpled end of the adaptor over the previously installed section or fireplace collar, adjusting the radial alignment until the four locking dimples of the adaptor are aligned with the inlets of the four incline channels of the last vent section or collar. Push on the adaptor until it is fully engaged, then twist the adaptor clockwise running the dimples down and along the incline channels until they seat at the end of the channels.

Figure 29: Flexible Vent Adaptor

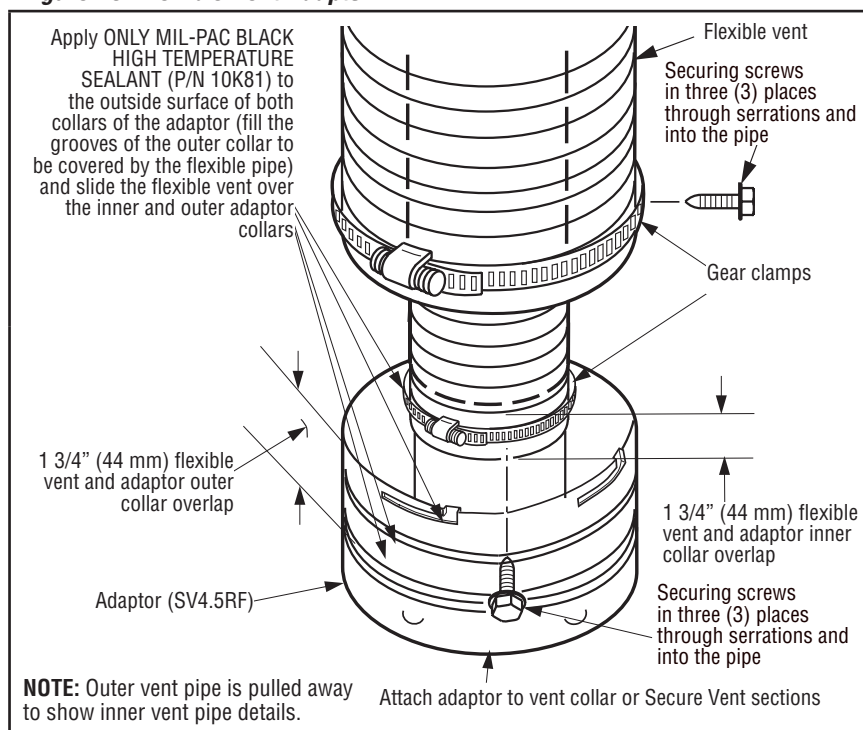
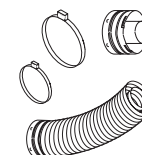
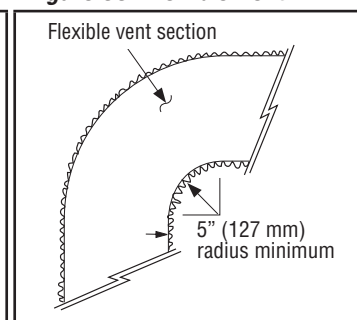


Figure 30: Flexible Vent



Shown here: 36\" Flex Connector Kit (H7748)
36\" of flex with two adaptors for mating two rigid sections of vent together.

1. Install the Inner Flex Pipe.
 - a. Install the small gear clamp loosely around the inner flexible vent, then push it back out of the way.
 - b. Apply a bead of Mill-Pac Black (700 °F) high temperature sealant (P/N 10K81) to the inner adaptor collar, approximately 1/2\" from the end.
 - c. Pull and extend the inner flexible vent.
 - d. Slide the inner flex vent over the adaptor collar at least 1 3/4\".

NOTE: Ensure the flex vent is free from damage or tears.

 - e. Slide the gear clamp down and tighten it fully to secure the flexible vent to the adaptor inner collar approximately 3/4\" from the end of the flex.
 - f. Install three (3) screws 120° apart through the flexible vent and into the adaptor collar just below the gear clamp to provide additional security to the connection.
2. Install the outer Flex Pipe.
 - a. Install the large gear clamp loosely around the outer flexible vent pipe, then push it back out of the way.
 - b. Apply a bead of Mill-Pac Black (700 °F) high temperature sealant (P/N 10K81) to the outer adaptor collar. Cover to the grooves of the collar that extend approximately 1\" from the end and to the flat surface, approximately 1 3/8\" from the end.
 - c. Pull and extend the outer flexible vent.

- d. Slide the outer flexible vent over the adaptor collar. Ensure the flexible vent completely engages the adaptor collar 1 3/4" from the end, and that it is free from damage or tears.
 - e. Slide the gear clamp down and tighten it fully to secure the flexible vent to the adaptor outer collar approximately 3/4" from the end of the flexible vent.
 - f. Install three (3) screws 120° apart through the flexible vent and into the adaptor collar just below the gear clamp to provide additional security to the connection.
3. Route the flexible vent.
- NOTE:** Ensure that the flexible vent is properly routed to provide the required clearance. Do NOT allow the flexible vent to bend in a radius tighter than 5" (127 mm) (**Figure 30**). Place the internal flexible vent spacers evenly and avoid kinking the inner vent. Support horizontal sections of flexible vent with metal straps at 2 ft (0.61 m) intervals.
4. Install firestop/spacers at ceiling and wall penetrations.
- SF4.5 VF firestop/spacer for ceilings
 - SF4.5 HF firestop/spacer for walls
- NOTE:** See the appropriate sections and figures shown throughout the venting section for installation requirements.
5. Attach the flexible vent to the termination.
- NOTE:** Secure Flex® components can be purchased separately and attached to bulk lengths of Secure Flex flexible vent cut to size at the job site. Attach the flexible vent to the Secure Flex terminations as it was attached to the adaptor (**Figure 29**).
- NOTE:** Attach Secure Flex vent to Secure Flex terminations only. Do NOT substitute Secure Vent® terminations or Secure Vent adaptor for Secure Flex components. Secure Flex termination and adaptor collars are a different circumference than Secure Vent collars. Secure Flex vent has an longer center tube to improve ease-of-installation.

10. Complete the Field Wiring

CAUTION

The ground supply lead must be connected to the wire attached to the green ground screw located on the outlet box (see wiring diagrams). Failure to do so will result in a potential safety hazard. The appliance must be electrically grounded in accordance with local codes or, in the absence of local codes, the National Electrical Code, ANSI/NFPA 70—latest edition (in Canada, the current CSA C22-1 Canadian Electrical Code).

CAUTION

Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation.

ATTENTION

Au moment de l'entretien des commandes, étiquetez tous les fils avant de les débrancher. Des erreurs de câblage peuvent entraîner un fonctionnement inadéquat et dangereux.

Verify proper operation after servicing.

S'assurer que l'appareil fonctionne adéquatement une fois l'entretien terminé.

The gas valve is set in place and pre-wired at the factory for both millivolt and electronic models.

Millivolt Wiring

Millivolt units are not provided with factory-installed controls; therefore, one of the optional control switches is required to operate the unit (**Page 63**):

- ON/OFF Wall Switch,
- Unit-Mountable ON/OFF Switch *,
- Thermostat, or
- Remote Control.

See the **Operation** section on **Page 48** for more details.

Figure 31: Wiring Diagram—Millivolt Gas Valves

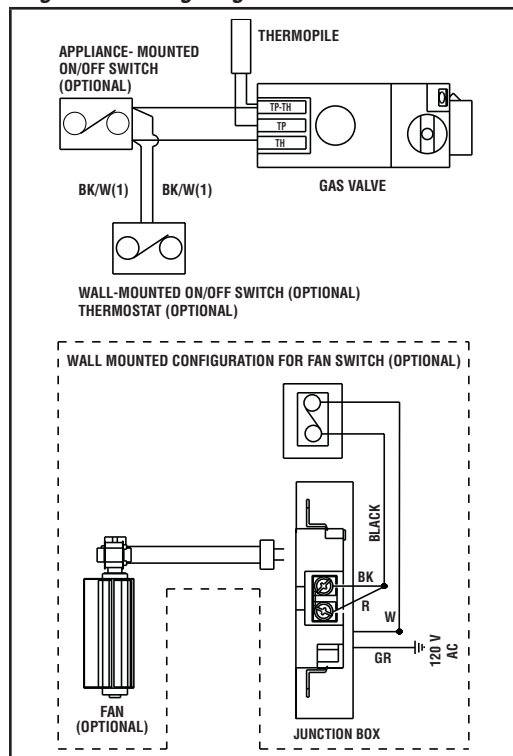
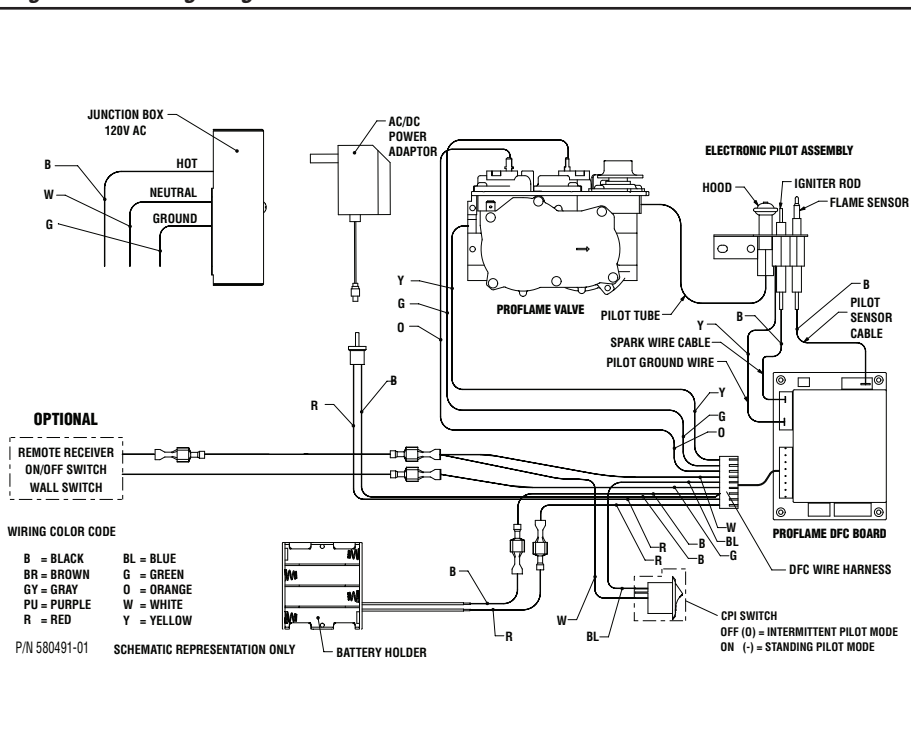


Figure 32: Wiring Diagram—Electronic Gas Valves



1. If installing an ON/OFF wall switch or thermostat, mount it in a convenient location on a wall near the fireplace.
2. Wire the control switch within the millivolt control circuit using the 15 ft of 2-conductor wire supplied with the unit (**Figure 31**).

NOTE: The supplied 15 ft of 2-conductor wire has one end of each conductor connected to the gas valve circuit and the other end of each conductor placed loose inside the bottom compartment.

⚠ CAUTION

In millivolt systems, do NOT connect a wall switch to a 120 V power supply.

Electronic Wiring

One of the following optional controls must be used:

- ON/OFF Wall Switch,
- Thermostat, or
- Remote Control.

See the **Operation** section on **Page 48** for more details.

NOTE: Electronic models must be connected to the main power supply.

1. Route a 3-wire, 120 Vac, 60 Hz, 1 ph power supply to the fireplace junction box.
2. Remove the electrical inlet cover plate from the side of the unit by removing the plate's securing screws (**Table 8**).
3. If unit is not supplied with a strain relief, remove the cover plate knockout. Then, feed the power supply wire through the knockout opening and into the unit junction box.
4. Connect the black power supply wire to the lower outlet's red pigtail lead (**Figure 32** and **Figure 33**). Connect the white power supply wire to the outlet's common terminal.
5. Connect the ground supply wire to the pigtail lead attached to the outlet's green ground screw. Restrain the inlet power lead per NEC or local codes.
6. If a wall-mounted ON/OFF control or thermostat is to be used, mount it in a convenient location on a wall near the fireplace.
7. If an optional control is to be used, wire it in the low voltage circuit (**Figure 32**).

NOTE: The supplied 15 ft of 2-conductor wire has one end of each conductor connected to the gas valve circuit and the other end of each conductor placed loose inside the bottom compartment.

8. After the wiring is complete, replace the cover plate.

! WARNING

Electronic models of these appliances are equipped with a three-prong (grounding) plug utilized in connecting the electronic components to the junction box in the lower compartment. This grounding plug provides protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. DO NOT cut or remove the grounding prong from the plug.

11. Install the [Optional] Blower Kit after Installation in the Framing

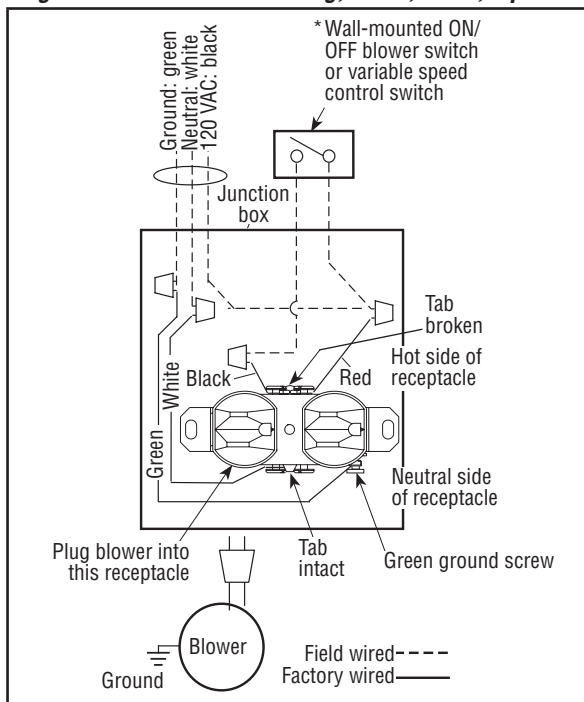
NOTE: For steps **11** and **12**, it may be helpful to remove the control compartment door (**Page 50**).

FBK-100, FBK-200, and FBK-250 Kits

An electrical outlet box is provided for the installation of the FBK-100, FBK-200, and FBK-300 forced air blower kits. Electrical power must be provided to the box to operate the blower. Install the blower kit according to the installation instructions provided with the kit.

NOTE: The tab connecting the receptacles of the outlet box must be broken in FBK-100 and FBK-200 blower kit applications (**Figure 33**).

Figure 33: Junction Box Wiring, 120 V, 60 Hz, 1 phase



12. Connect the Gas Line

All codes require a shutoff valve mounted in the supply line. **Figure 35** illustrates two methods for connecting the gas supply. The flex-line method is acceptable in the U.S., however, Canadian requirements vary depending on locality. Installation must be in compliance with local codes.

NOTE: Ensure the CPI/IPI switch is set to intermittent mode with the pilot in the OFF position. See control compartment door label for more information.

NOTE: A sediment trap is recommended in the gas piping within the home to prevent moisture and debris in the line from damaging the valve.

NOTE: Secure all joints tightly using appropriate tools and sealing compounds (ensure propane resistant compounds are used in propane applications). Seal around the gas line to prevent cold air leakage. Gas line holes and other openings can be caulked or stuffed with unfaced fiberglass insulation.

Figure 34: Control Compartment

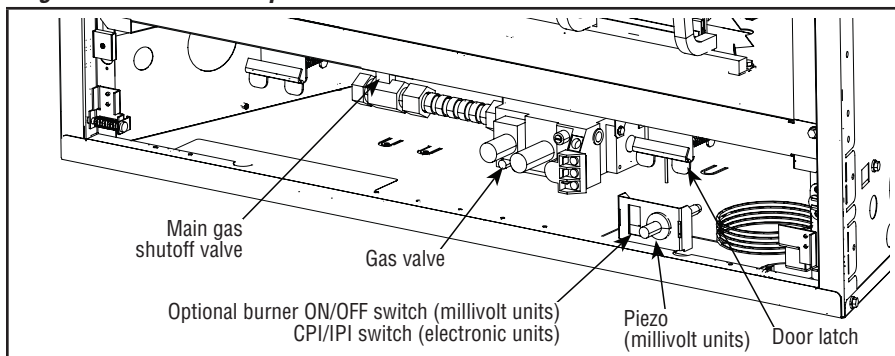
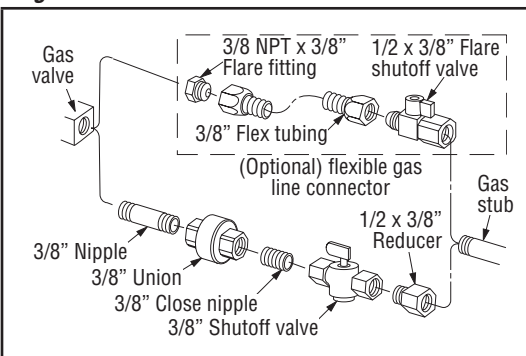


Figure 35: Gas Line Connection



These fireplaces are equipped with a gas flex line for use (where permitted) in connecting the unit to the gas line. A gas flex line is provided to aid in attaching the direct-vent fireplace to the gas supply. The gas flex line can only be used where local codes permit. The flex line is rated for both natural and propane gas. A manual shut off valve is also provided with the flex line.

The gas control valve is located in the lower control compartment (**Figure 34**).

Access the Control Compartment

See **Page 50** for instructions on **Accessing the Control Compartment**.

Millivolt and electronic control valves have a 3/8" (10 mm) NPT thread inlet port.

Secure all joints tightly using appropriate tools and sealing compounds (ensure propane resistant compounds are used in propane applications). Optionally, seal around the gas line to prevent cold air leakage. Gas line holes and other openings can be caulked or stuffed with unfaced fiberglass insulation.

All codes require a shutoff valve mounted in the supply line. The orientation of the shutoff valve should face the front. **Figure 35** illustrates two methods for connecting the gas supply. A sediment trap is recommended to prevent moisture and debris in the gas line from damaging the valve.

Test Factory and Field Connections for Gas Leaks

WARNING

Never use an open flame to check for leaks.

Turn on gas supply and test for gas leaks, using a gas leak test solution—also known as bubble leak solution.

NOTE: Using a soapy water solution is an effective leak test solution but it is not recommended, because the soap residue that is left on the pipes/fittings can result in corrosion over time.

1. Light the fireplace (refer to the lighting instructions label in the control compartment or **Page 64**).
2. Brush all joints and connections with the gas leak test solution to check for leaks. If bubbles are formed, or gas odor is detected, turn the gas control knob (OFF/PILOT/ON) to the OFF position (millivolt units), or turn the receiver or remote control to the OFF position (electronic units). Either tighten or refasten the leaking connection, and then retest as described above.
3. When the gas lines are tested and leak free, rinse off the leak testing solution

13. Verify Proper Fireplace Operation

1. With the gas line installed, inspect the system before closing the front of the unit.
2. Follow the pilot lighting instructions:
 - Millivolt Systems (**Page 64**)
 - Electronic Systems (**Page 66**)

NOTE: When lighting the fireplace for the first time, it will take a few minutes for the gas line to purge itself of air. When purged, the pilot and burner will light and operate as indicated. Subsequent lighting of the fireplace will not require purging. Inspect the pilot flame (carefully remove logs, if necessary).

Millivolt Fireplace Inspection

The pilot flame should be steady, not lifting or floating. Flame should be blue in color with traces of orange at the outer edge. The top 3/8" (10 mm) at the pilot generator (thermopile) and the top 1/8" (3.175 mm) minimum (tip) of the quick drop out thermocouple should be engulfed in the pilot flame. The flame should project 1" (25 mm) beyond the hood at all three ports (**Figure 36**). Replace the logs if removed for pilot inspection.

To light the burner, turn ON the remote wall switch and rotate the gas valve control knob counterclockwise to the ON position (the top of the valve).

Electronic Fireplace Inspection

To light the burner, turn ON the wall or remote control switch. Ensure the igniter lights the pilot. The pilot flame should engulf the flame rod (**Figure 37**).

Figure 36: Millivolt Pilot

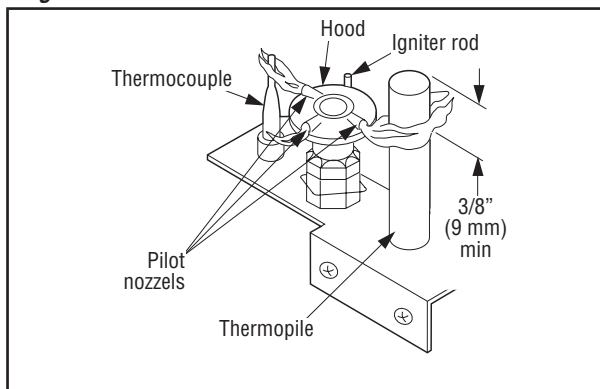
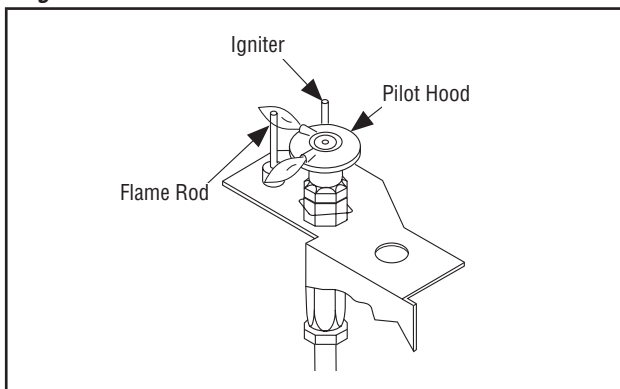


Figure 37: Electronic Pilot



14. Optional: Install the Firebox Liners

1. See **Page 51** for instructions on **Traditional Only: Installing the Firebox Liners**.

15. Contemporary Fireplaces: Install the Glass Media

1. See **Page 51** for instructions on **Contemporary Only: Installing the Glass Media**.

16. Traditional Fireplaces: Install the Logs, Volcanic Stone, and Glowing Embers

1. See **Page 52** for instructions on **Installing the logs, volcanic stone, and glowing embers**.

17. Install the Glass Door

1. See **Page 55** for instructions on **Installing and removing the glass door**.

18. Adjust the Air Shutter to Ensure Proper Flame Appearance

! WARNING

- Air shutter adjustment should only be performed by a qualified professional service technician.
- Ensure glass door is in place and sealed during adjustment.

CAUTION

- Soot will be produced if the air shutter is closed too much. Any damage due to sooting, resulting from improperly setting the air shutter, is not covered under the warranty.
- The air shutter rod and nearby appliance surfaces are hot. Exercise caution to avoid injury while adjusting flame appearance.

Flame Appearance and Sooting

The flame should be blue at the base, and yellow-orange in the body of the flame.

When the fireplace is first lit, the entire flame may be blue and will gradually turn yellow-orange during the first 15 minutes of operation. If the flame remains blue, or if the flame is orange with evidence of sooting (black tip), the air shutter opening may need to be adjusted.

If the air shutter opening is closed too far, sooting may develop. Sooting is indicated by black puffs developing at the tips of very long orange flames. Sooting results in black deposits forming on the logs, fireplace inside surfaces, and on exterior surfaces adjacent to the vent termination.

Sooting is caused by incomplete combustion in the flames and lack of combustion air entering the air shutter opening. To achieve a warm yellow-orange flame with an orange body that does not soot, the shutter opening must be adjusted between these two extremes.

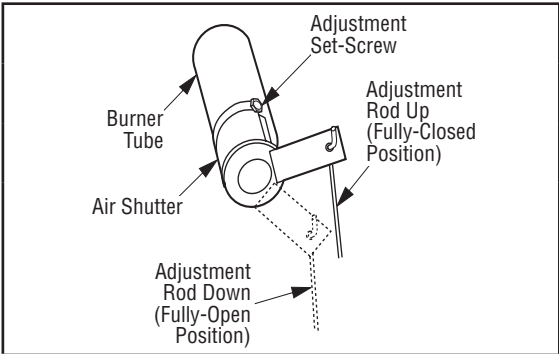
Air Shutter Adjustment Guidelines

- If smoke or soot is present, first check the log set positioning to ensure that the flames are not impinging on any of the logs. If the log set is properly positioned and a sooting condition persists, then the air shutter should be opened more.
- The more offsets in the vent system, the wider the air shutter will need to be opened.
- An fireplace operated with the air shutter opened too far may have flames that appear blue and transparent. These weak, blue, and transparent flames are termed anemic.
- Propane models may exhibit flames that candle or appear stringy. If this condition is present and persists, adjust the air shutter to a more closed position, then operate the fireplace for a few more minutes to ensure that the flame normalizes and the flames do not appear sooty. The following chart is provided to help achieve the correct air shutter adjustment for your installation.

Table 29: Air Shutter Adjustment Guidelines

Amount of Primary Air	Flame Color	Air Shutter Adjustment
If air shutter is closed too far →	Flame will be orange →	Air shutter gap should be increased
If air shutter is open too far →	Flame will be blue →	Air shutter gap should be decreased

Figure 38: Air Shutter Adjustment Rod



1. Move the adjustment rod down to decrease air flow and up to increase it. The rod is located in the lower control compartment. Position the air shutter to the factory setting (**Table 30**).
2. Light the fireplace. Follow the lighting procedure on the lighting label in the control compartment or **Page 64**.
3. Allow the burner to operate for at least fifteen (15) minutes while observing the flame continuously to ensure that the proper flame appearance is achieved (**Figure 39** and **Figure 40**). If the following conditions are present, adjust accordingly.
 - If flame appears weak or sooty, adjust the air shutter, incrementally, to a more open position until the proper flame appearance is achieved.
 - If flame remains blue, adjust the air shutter, incrementally, to a more closed position until the proper flame appearance is achieved.
4. When satisfied that the burner flame appearance is normal, reinstall the lower control compartment door, then proceed to finish the installation.

Figure 39: Traditional Fireplaces Flame Appearance



Figure 40: Contemporary Fireplaces Flame Appearance



Table 30: Main Burner Shutter Opening—Factory Setting

Models	Natural Gas	Propane
All	1/16" (1.6 mm)	1/8" (3.2 mm)

19. Install the Hood

NOTE: All models must have a hood installed prior to operation.

1. Install the hood by sliding it into the slots on the lower edge of the cabinet top.

NOTE: To install the non-combustible finish material flush with the top of the hood, the hood must be installed before installing the finish material. If finish material is installed flush with the top edge of the hood, the hood cannot be removed.

NOTE: To install the hood after installing the non-combustible finish material over the black surface above the fireplace opening, the bottom edge of the finish material must be 5/8" above the top edge of the hood to allow clearance for installation and removal of the hood.

20. Reinstall the Included Barrier

WARNING

Reinstall any barrier removed before operating the fireplace. The barrier is designed to reduce the risk of burns from hot glass. Do not operate the fireplace without the barrier installed.

NOTE: All models must have a barrier installed prior to operation.

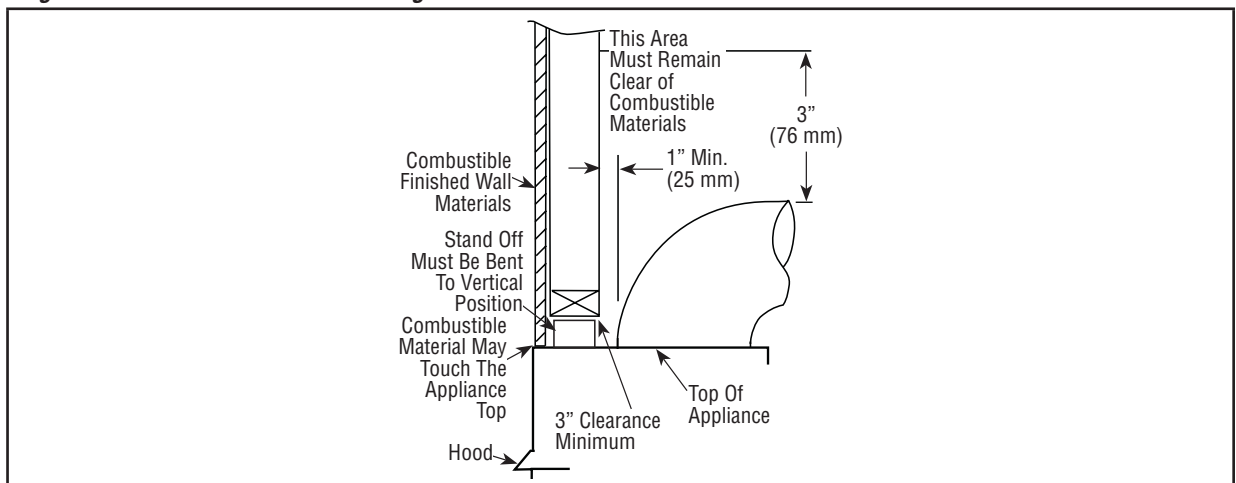
1. Open the control compartment door (**Page 50**).
2. Hold the barrier in front of the glass door and slide it up into the slots above the glass door and under the hood.
3. Slide the barrier bottom down into the slots below the glass door, securing it in place.

21. Install the Finishing Materials

1. Complete finished interior wall.

NOTE: To install the fireplace facing flush with the finished wall, position framework to accommodate the thickness of the finished wall.

Figure 41: Combustible Wall Framing



NOTE: See **Cold Climate Insulation on Page 9** and **Vent Termination Clearances on Page 11**.

22. Attach the Safety-in-Operation Warning Labels

1. Attach the furnished safety instruction labels at all fireplace operation and control points (**Page 42**).

NOTE: The installer **MUST** ensure these warnings are properly attached during installation. The warning labels are a critical means of informing consumers of safe operation practices.

ATTACH THE SAFETY-IN-OPERATION WARNINGS

NOTE: It is the installer's responsibility to ensure these warnings are properly affixed during installation. These warning labels are a critical step in informing consumers of safe operation of this fireplace.

Attaching Safety-in-Operation Warnings

It is required that the safety instruction labels furnished with the fireplace be affixed to the operation and control point of the fireplace. A safety instruction label must be affixed to the wall switch plate where the fireplace is turned on and off (**Figure A**) or wall thermostat (**Figure B**) and if used on the remote control handheld transmitter (**Figure C**). The warnings should already have been put in place when the fireplace initial set-up was completed. If they are not affixed at these spots, locate the multi-lingual adhesive labels provided with these instructions and proceed as follows:

1. Locate the wall switch or wall thermostat that controls the fireplace (verify the switch operates the fireplace by turning it on and off). Clean the wall switch plate or wall thermostat thoroughly to remove any dust and oils. Affix the label to the surface of the plate of the wall switch that controls the fireplace (**Figure A**) or the wall thermostat (**Figure B**). Choose the language primarily spoken in the home. If unknown, affix the English language label.
2. If a remote control is used to control the fireplace, locate the transmitter and clean it thoroughly to remove any dust and oils. Affix the label to the surface of handheld transmitter (**Figure C**). Choose the language primarily spoken in the home. If unknown, affix the English language label.
3. If you are unable to locate the labels, please contact IHP or your nearest IHP dealer to receive additional safety instruction labels free of charge.

Cat. No. H8024 Replacement Label Kit

NOTE: English is red text on clear label. French and Spanish are white text on black label.

SAFETY LABEL DIAGRAMS



Apposition des mises en garde relatives à la sécurité d'utilisation

Il est impératif que les étiquettes de sécurité fournies avec le foyer soient collées à côté des dispositifs de contrôle du foyer. Une étiquette de sécurité doit être collée sur la plaque de l'interrupteur contrôlant l'allumage du foyer (**Figure A**) ou sur le thermostat mural (**Figure B**) et, le cas échéant, sur le boîtier de la télécommande (**Figure C**). Les mises en garde auraient dû être collées au moment de l'installation initiale du foyer. Si ce n'est pas le cas, prenez les étiquettes adhésives multilingues fournies avec ces instructions et procédez comme suit:

1. Repérez l'interrupteur ou le thermostat mural qui contrôle le foyer (vérifiez que l'interrupteur contrôle le fonctionnement du foyer en le faisant basculer de Marche à Arrêt, et vice-versa). Nettoyez soigneusement la plaque murale de l'interrupteur ou le thermostat mural pour éliminer la poussière et les traces de graisse ou d'huile. Collez l'étiquette sur la surface de la plaque de l'interrupteur mural qui contrôle le foyer (**Figure A**) ou du thermostat mural (**Figure B**). Choisissez la langue qui est principalement parlée dans la résidence du propriétaire. En cas de doute, collez l'étiquette en anglais.
2. Si une télécommande est utilisée pour contrôler le foyer, nettoyez la soigneusement pour éliminer la poussière et les traces de graisse ou d'huile. Collez l'étiquette sur le boîtier de la télécommande (**Figure C**). Choisissez la langue qui est principalement parlée dans la résidence du propriétaire. En cas de doute, collez l'étiquette en anglais.
3. Si vous ne parvenez pas à localiser les étiquettes, s'il vous plaît contactez IHP ou votre revendeur le plus proche pour recevoir IHP étiquettes d'instructions de sécurité supplémentaires gratuitement.

Étiquettes de remplacement, n° cat. H8024

Remarqué : Le texte anglais est rouge sur un support transparent. Le texte français et espagnol est blanc sur un support noir.

DIAGRAMMES DES ÉTIQUETTES DE SÉCURITÉ



Colocación de advertencias de seguridad en operación

Se requiere que las etiquetas de instrucciones de seguridad incluidas con la chimenea se coloquen en el punto de operación y control de la misma. Se debe colocar una etiqueta de instrucciones de seguridad en la placa del interruptor de pared desde el cual se enciende y se apaga la chimenea (**Figura A**) o en el termostato de pared (**Figura B**) y en el transmisor de control remoto (**Figura C**) si se usa. Las advertencias ya deben haberse colocado cuando se completó la instalación inicial de la chimenea. Si no están colocadas en estos lugares, encuentre las etiquetas adhesivas multilingües proporcionadas con estas instrucciones y prosiga de la siguiente manera:

1. Identifique el interruptor o el termostato de pared que controla la chimenea (verifique que el interruptor opera la chimenea encendiéndola y apagándola). Limpie bien la placa del interruptor o el termostato de pared para quitar el polvo y aceite. Pegue la etiqueta en la superficie de la placa del interruptor que controla la chimenea (**Figura A**) o en el termostato de pared (**Figura B**). Seleccione el idioma que más se habla en la casa. Si no sabe cuál es, use la etiqueta en inglés.
2. Si se usa un control remoto para controlar la chimenea, encuentre el transmisor y límpiolo bien para quitar el polvo y aceite. Pegue la etiqueta en la superficie del transmisor (**Figura C**). Seleccione el idioma que más se habla en la casa. Si no sabe cuál es, use la etiqueta en inglés.
3. Si usted es incapaz de localizar las etiquetas, por favor póngase en contacto con IHP, o con su distribuidor más cercano IHP recibir instrucción etiquetas de seguridad adicionales sin costo.

Juego de etiquetas de repuesto - N° de cat. H8024

Nota: La etiqueta en inglés es transparente con texto rojo. Las etiquetas en francés y español son negras con texto blanco.

DIAGRAMAS DE ETIQUETAS DE SEGURIDAD



Innovative Hearth Products

Illustrations are for example only. Your accessories may be different.

Les illustrations sont par exemple uniquement. Vos accessoires peuvent être différents.

Las ilustraciones son sólo ejemplos. Tu accesorios pueden ser diferentes.

Figure A
Figura A

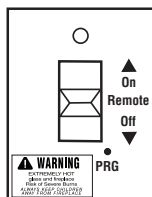


Figure B
Figura B



Figure C
Figura C



INSTALLATION ACCESSORIES

Table 31: Listed Secure Vent® Components

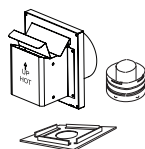
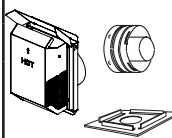
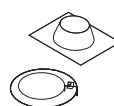
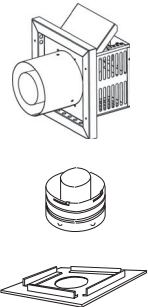
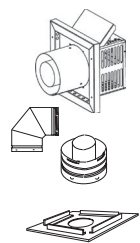
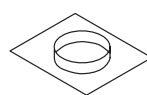
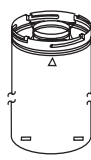
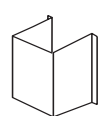
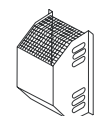
	Catalog Number	Model	Description		Catalog Number	Model	Description
	F1797	SV4.5HTKCT	Rigid, Horizontal, Compact Termination with Firestop/Spacer (H2246), Adaptor (74L61) (see 750204M)	The following flashing comes packaged with a storm collar			
	F1798	SV4.5HTKCT20	Rigid, Horizontal Compact Termination, 20" with Shield and Firestop (see 750247M and 750204M)				
	* See Page 28 concerning use with the 45" model						
	H1968	SV4.5HT-2	Horizontal Square Termination with Firestop/Spacer (H2246), and Adaptor (74L61)		77L78	SV4.5F	Flat Roof Flashing
					77L79	SV4.5FA	1/12 to 7/12 Adjustable Flashing
					77L80	SV4.5FB	7/12 to 12/12 Adjustable Flashing
	94L10	SV4.5HTSS	Rigid, Horizontal, Small Square Termination with Firestop/Spacer (H2246), Adaptor (74L61) (see 750204M)		77L81	SV4.5SC6	Storm Collar (6 pack)
	H5817	SV4.5-20SSWSK	Rigid, Small, Square Termination, 20" with Shield and Firestop (see 750247M and 750204M)			H6183	SV4.5HF5
	H2152	SV4.5CGV-1	Vertical Termination Cap, High Wind	H6184		SF4.5HF5	Firestop Spacer, 5", flex
	H8914	SV4.5TK90HT2	Horizontal Termination Kit HT-2 with 90° elbow	H2246		SV4.5HF-10	Firestop/Spacer-Horizontal, rigid (3-1-1 spacing), 10 Pack
				H2247		SV4.5VF-10	Firestop/Spacer-Vertical, rigid (1-1-1 spacing), 10 Pack
	H8915	SV4.5TK90SS	Horizontal Termination Kit Small Square with 90° elbow		96K92	SV4.5SP	Support Plate
Vent Sections (Rigid)							
	77L70	SV4.5L6	6" (152 mm)		17M52	SV4.5HGS-1	Termination Guard, Square (1 pack) (see 750109M)
	77L71	SV4.5L12	12" (305 mm)		17M53	SV4.5HGS-12	Termination Guard, Horizontal Square (12 pack) (see 750109M)
	77L72	SV4.5L24	24" (610 mm)		87L02	SV4.5HGS	Termination Guard for Horizontal Square Termination (Deluxe) (1 pack) (see 750055M)
	77L73	SV4.5L36	36" (914 mm)				
	77L74	SV4.5L48	48" (1219 mm)				
	77L75	SV4.5LA	Telescopic Length Slip Section (2-7 1/2" rigid)				

Table 31: Listed Secure Vent® Components

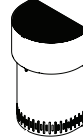
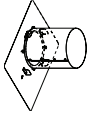
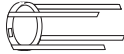
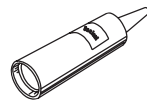
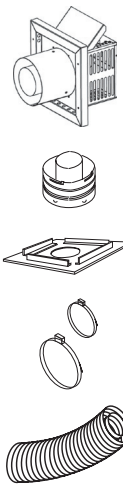
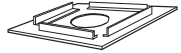
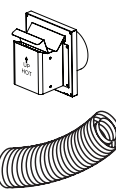
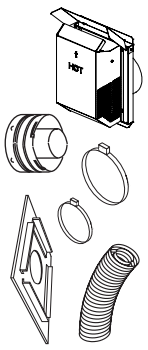
	77L76	SV4.5E45	45° Elbow		H5820	SV4.5HTSK	Termination Shroud (Guard) for Horizontal Square Termination (1 pack) (see 750246M)
	77L77	SV4.5E90	90° Elbow				
	H5816 750,247M	SV4.5-TWSK10	Through Wall Shield Kit (to shield direct-vent pipe from blown insulation)(see 750247M)		H3907	SV4.5ARSA	Attic Insulation Shield with adjustable height, 12–22"
	96K93	SV4.5SU	Support Strap		10K81	SFMP	Mill-Pac, Black, High-Temperature Sealant
	99L02	SV4.5HRK14	Horizontal Riser Kit, 14" (see 750146M)		89L40	SFMP-12	Mill-Pac, Black, High-Temperature Sealant (bulk 12-pack)
	99L03	SV4.5HRK36	Horizontal Riser Kit, 36" (see 750146M)				

Table 32: Listed Secure Flex® Components

	Catalog Number	Model	Description		Catalog Number	Model	Description
These termination kits include firestop/spacer, gear clamps, and flex adaptor.					94L04	SFKIT12SS	Small Square Termination for flex, with 12" (305 mm) of *compressed flex vent (see 750204M)
	60L10	SF-18	18 ft (5.49 m)* compressed flex (see 750053M)		94L05	SFKIT18SS	Small Square Termination for flex, with 18" (457 mm) of *compressed flex vent (see 750204M)
	98K03	SF-12	12 ft (3.66 m)* compressed flex (see 750052M)		94L06	SFKIT24SS	Small Square Termination for flex, with 24" (610 mm) of *compressed flex vent (see 750204M)
	H2248	SF4.5HF-10	Firestop/Spacer, Horizontal, flex (3-1-1 spacing), 10 Pack		94L07	SFKIT36SS	Small Square Termination for flex, with 36" (914 mm) of *compressed flex vent (see 750204M)
	H2249	SF4.5VF-10	Firestop/Spacer, Vertical, flex (1-1-1 spacing), 10 Pack		94L08	SFKIT48SS	Small Square Termination for flex, with 48" (1219 mm) of *compressed flex vent (see 750204M)
	F1803	SF4.5HTKCT	Horizontal Compact Termination for flex (without flex)**		94L09	SF-HTSS	Horizontal Small Square Termination for flex, without flex vent (see 750204M)
	F1799	SFKIT18CT	Compact Termination for flex with 18" (457 mm)** compressed flex				
	F1800	SFKIT24CT	Compact Termination for flex with 24" (610 mm)** compressed flex				
	F1801	SFKIT36CT	Compact Termination for flex with 36" (914 mm)** compressed flex				
	F1802	SFKIT48CT	Compact Termination for flex with 48" (1219 mm)** compressed flex				
	H1969	SF4.5HT-2	Horizontal Square Termination for flex (without flex)		56L74	SFVT30	Vertical Termination for flex (flat to 6/12) with flex adaptor, section of rigid vent, roof support collar assembly, roof flashing and storm collar. (see 750052M)
	77L87	SFKIT12S	Square Term. for flex with 12" (305 mm)* compressed flex				
	77L88	SFKIT18S	Square Term. for flex with 18" (457 mm)* compressed flex		56L75	SFVT45	Vertical Termination for flex (6/12 to 12/12) with flex adaptor, section of rigid vent, roof support collar assembly, roof flashing and storm collar. (see 750052M)
	77L89	SFKIT24S	Square Term. for flex with 24" (610 mm)* compressed flex				
	77L90	SFKIT36S	Square Term. for flex with 36" (914 mm)* compressed flex				
	77L91	SFKIT48S	Square Term. for flex with 48" (1219 mm)* compressed flex				
	91L66	SFGC4-6	Gear Clamp 4.5" (114 mm) for flex (6-pack)				
	91L67	SFGC7-6	Gear Clamp 7.5" (190.5 mm) for flex (6 pack)				

*All compressed flex vents can be expanded up to two times.

** See **Page 28** concerning use with the 45" model.

*All compressed flex vents can be expanded up to two times.
** See Page 28 concerning use with the 45" model.

GAS CONVERSION KITS

WARNING

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 authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, explosion, or the 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 this kit. The installation is not proper and complete until the operation of the converted appliance is checked as specified in the manufacturer's instructions supplied with the kit. The qualified service agency performing this installation assumes responsibility for this conversion.

AVERTISSEMENT

Cette trousse de conversion doit être installée par un technicien agréé, selon les instructions du fabricant et selon toutes les exigences et tous les codes pertinents de l'autorité compétente. Assurez-vous de bien suivre les instructions dans cette notice pour réduire au minimum le risque d'incendie, d'explosion ou la production de monoxyde de carbone pouvant causer des dommages matériels, des blessures ou la mort. Le technicien agréé est responsable de l'installation de cette trousse. L'installation n'est pas adéquate ni complète tant que le bon fonctionnement de l'appareil converti n'a pas été vérifié selon les instructions du fabricant fournies avec la trousse. Le fournisseur de service qualifié ayant réalisé l'installation assume les responsabilités liées à la conversion.

In Canada:

The conversion shall be carried out in accordance with the requirements of the provincial authorities having jurisdiction and in accordance with the requirements of the CAN/CGA-B149.1 Installation code.

La conversion devra être effectuée conformément aux recommandations des autorités provinciales ayant juridiction et conformément aux exigences du code d'installation CAN/CGA-B149.1.

Gas conversion kits are available to adapt your fireplace from the use of one type of gas to the use of another. These kits contain all the necessary components needed to complete the task including labeling that must be affixed to ensure safe operation.

Refer to the instructions provided with the conversion kit when performing any gas conversion.

Table 33: Millivolt Systems, Natural Gas To Propane Gas Conversion Kits

Models	Catalog Number
Aries 33 / Aries CD 33	F1893
Aries 35 / Aries CD 35	F1771
Aries 40 / Aries CD 40	F1772
Aries 45 / Aries CD 45	F1897

Table 34: Millivolt Systems, Propane Gas to Natural Gas Conversion Kits

Models	Catalog Number
Aries 33 / Aries CD 33	F1891
Aries 35 / Aries CD 35	F1769
Aries 40 / Aries CD 40	F1770
Aries 45 / Aries CD 45	F1895

Table 35: Electronic Systems, Natural Gas To Propane Gas Conversion Kits

Models	Catalog Number
Aries 33 / Aries CD 33	F1892
Aries 35 / Aries CD 35	F1773
Aries 40 / Aries CD 40	F1774
Aries 45 / Aries CD 45	F1896

Table 36: Electronic Systems, Propane Gas To Natural Gas Conversion Kits

Models	Catalog Number
Aries 33 / Aries CD 33	F1890
Aries 35 / Aries CD 35	F1767
Aries 40 / Aries CD 40	F1768
Aries 45 / Aries CD 45	F1894

Installing Gas Conversion Kits

WARNING

The gas supply shall be shut OFF prior to disconnecting the electrical power, before proceeding with the conversion.

AVERTISSEMENT

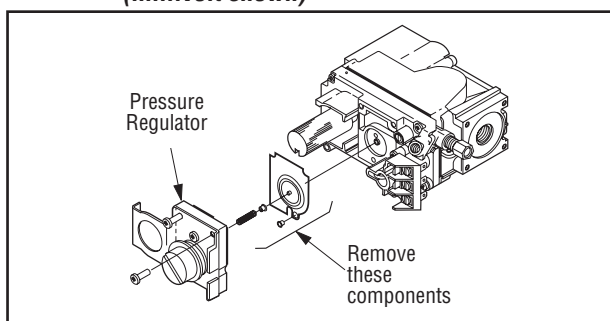
Avant d'effectuer la conversion, coupez d'abord l'alimentation en gaz, ensuite, coupez l'alimentation électrique.

1. TURN OFF THE GAS SUPPLY TO THE FIREPLACE and disconnect power supply at the circuit breaker. Ensure fireplace is cold.
2. Open the lower control compartment door (**Page 50**).
3. Remove the front glass door/frame from the fireplace (**Page 55**).
4. Remove the logs / glass media. If necessary, remove the log grate.
NOTE: Exercise care so as not to break the logs (**Page 58**).
5. Remove the sub floor.
6. Remove the two (2) screws securing the burner assembly. Remove the burner assembly with the attached venturi tube.

Millivolt and Electronic Ignition System Fireplaces

7. Refer to the instructions provided with the SIT Regulator Conversion Kit, and **Figure 42**. Using a Torx T20 driver (with 1/4" shank) or slotted screwdriver, remove and discard the pressure regulator mounting screws (two screws for electronic models, three screws for millivolt models), pressure regulator tower, the diaphragm assembly (if applicable) and the spring. Discard all removed components.

**Figure 42: Valve Regulator Conversion
(millivolt shown)**



8. Install the new pressure regulator assembly using the supplied screws. Tighten the screws to 25 in. lbs.
9. Install the enclosed identification label to the valve body where it can be easily seen.
10. Remove the pilot hood assembly to access the hex pilot orifice (**Figure 43**). Remove and replace the pilot orifice with the one provided with the kit. Exercise extreme care to prevent damage to or breakage of the igniter assembly.
11. Remove the burner orifice from the manifold and replace it with the one provided in the kit (**Figure 44**).

NOTE: See **Table 5** for burner orifice sizes.

Figure 43: Millivolt Pilot

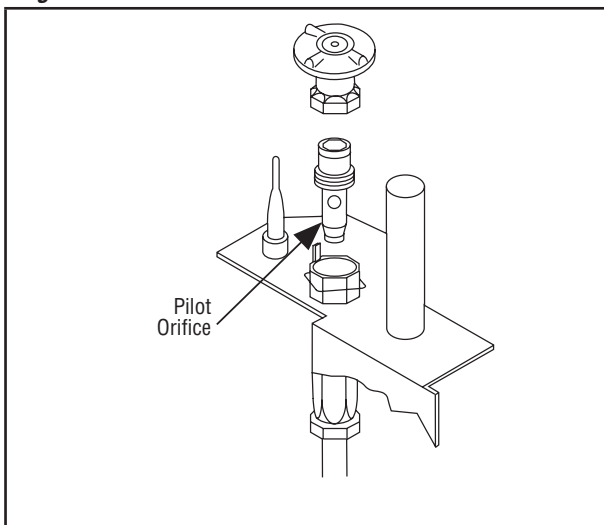
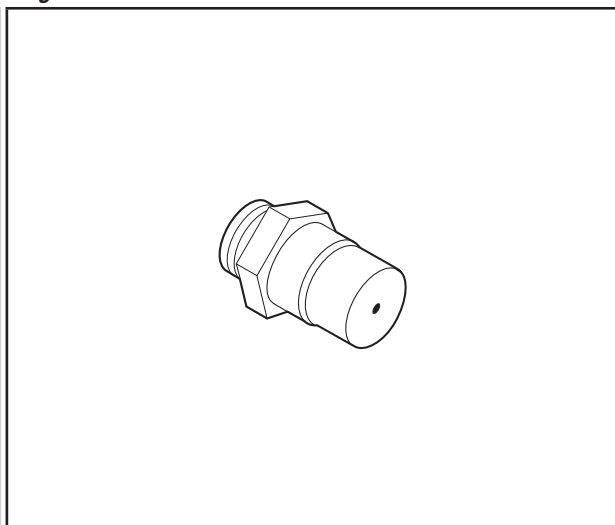


Figure 44: Orifice



12. Use pipe joint compound or Teflon® tape on all pipe fittings before installing.

NOTE: Ensure propane resistant compounds are used in propane applications, do not use pipe joint compounds on flare fittings.

13. Retrieve the burner and hold the venturi tube above the orifice. Place the shutter adjusting rod in the slot of the shutter arm (**Figure 38**). Set the burner assembly into its position and secure the trapezoidal plate with the two screws previously removed.
14. Reinstall the baffle with the two baffle securing screws.
15. Reassemble the remaining components.
16. Turn on gas supply and test for gas leaks (**Page 38**).
17. Relight the main burner. The lighting instructions can be found on the lighting label in the control compartment or **Page 64**. Verify proper burner ignition and operation (**Page 39**).
18. Inspect the pilot system for proper flame. The pilot flame should engulf the flame sensor (**Figure 36** and **Figure 37**).
19. Using a manometer, test the inlet and manifold gas pressures (**Table 3** and **Table 4**).

NOTE: Always test pressures with the valve regulator control at the highest setting.

OPERATION

WARNING

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.

AVERTISSEMENT

Les jeunes enfants devraient être surveillés étroitement lorsqu'ils se trouvent dans la même pièce que l'appareil. Les tout petits, les jeunes enfants ou les adultes peuvent subir des brûlures s'ils viennent en contact avec la surface chaude. Il est recommandé d'installer une barrière physique si des personnes à risques habitent la maison. Pour empêcher l'accès à un foyer ou à un poêle, installez une barrière de sécurité; cette mesure empêchera les tout petits, les jeunes enfants et toute autre personne à risque d'avoir accès à la pièce et aux surfaces chaudes.

WARNING

Reinstall any barrier removed before operating the fireplace. The barrier is designed to reduce the risk of burns from hot glass. Do not operate the fireplace without the barrier installed.

WARNING

Do not operate the fireplace if:

- The glass front is removed, cracked, or broken
- The surround trim assembly and screen are not installed

CARBON MONOXIDE POISONING: Early signs of carbon monoxide poisoning are similar to the flu with headaches, dizziness and/or nausea. If you have these signs, obtain fresh air immediately. Turn off the gas supply to the appliance and have it serviced by a qualified professional, as it may not be operating correctly. Some people are more affected by carbon monoxide than others, including pregnant women, people with heart or lung disease or anemia, those under the influence of alcohol, and those at high altitudes.

NOTE: Do not place furniture or other combustible materials within 36" of the front of viewing area(s).

NOTE: Children and adults should be alerted to the hazards of high surface temperature and should stay away to avoid burns or clothing ignition.

Remarqué : Les enfants et les adultes devraient être informés des dangers que posent les températures de surface élevées et se tenir à distance afin d'éviter des brûlures ou que leurs vêtements ne s'enflamment.

NOTE: Installation and repair should be done by a qualified service person. The fireplace should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etcetera. It is imperative that control compartments, burners and circulating air passageways of the fireplace be kept clean.

Remarqué : L'installation et la réparation devrait être confiées à un technicien qualifié. L'appareil devrait faire l'objet d'une inspection par un technicien professionnel avant d'être utilisé et au moins une fois l'an par la suite. Des nettoyages plus fréquents peuvent être nécessaires si les tapis, la literie, et cetera produisent une quantité importante de poussière. Il est essentiel que les compartiments abritant les commandes, les brûleurs et les conduits de circulation d'air de l'appareil soient tenus propres.

NOTE: Do not use these fireplaces if any part has been under water. Immediately call a qualified, professional service technician to inspect the fireplace and to replace any parts of the control system and any gas control which have been under water.

Remarqué : Ne pas utiliser cet appareil s'il a été plongé, même partiellement, dans l'eau. Appeler un technicien qualifié pour inspecter l'appareil et remplacer toute partie du système de commande et toute commande qui a été plongée dans l'eau.

ATTACH THE SAFETY-IN-OPERATION WARNINGS

NOTE: It is the installer's responsibility to ensure these warnings are properly affixed during installation. These warning labels are a critical step in informing consumers of safe operation of this fireplace.

Attaching Safety-in-Operation Warnings

Your fireplace has been furnished with safety instruction labels that are to be affixed to the operation and control point of the fireplace. A safety instruction label should be affixed to the wall switch plate where the fireplace is turned on and off (**Figure A**) or wall thermostat (**Figure B**) and if used on the remote control handheld transmitter (**Figure C**). The warnings should already have been put in place when the fireplace initial set-up was completed. If they are not affixed at these spots, locate the multi-lingual adhesive labels provided with these instructions and proceed as follows:

1. Locate the wall switch or wall thermostat that controls the fireplace (verify the switch operates the fireplace by turning it on and off). Clean the wall switch plate or wall thermostat thoroughly to remove any dust and oils. Affix the label to the surface of the plate of the wall switch that controls the fireplace (**Figure A**) or the wall thermostat (**Figure B**). Choose the language primarily spoken in the home. If unknown, affix the English language label.
2. If a remote control is used to control the fireplace, locate the transmitter and clean it thoroughly to remove any dust and oils. Affix the label to the surface of handheld transmitter (**Figure C**). Choose the language primarily spoken in the home. If unknown, affix the English language label.
3. If you are unable to locate the labels, please contact IHP or your nearest IHP dealer to receive additional safety instruction labels free of charge.

Cat. No. H8024 Replacement Label Kit

NOTE: English is red text on clear label. French and Spanish are white text on black label.

SAFETY LABEL DIAGRAMS



Apposition des mises en garde relatives à la sécurité d'utilisation

Votre foyer a été livré avec des étiquettes de sécurité qui doivent être collées à côté des dispositifs de contrôle du foyer. Une étiquette de sécurité doit être collée sur la plaque de l'interrupteur contrôlant l'allumage du foyer (**Figure A**) ou sur le thermostat mural (**Figure B**) et, le cas échéant, sur le boîtier de la télécommande (**Figure C**). Les mises en garde auraient dû être collées au moment de l'installation initiale du foyer. Si ce n'est pas le cas, prenez les étiquettes adhésives multilingues fournies avec ces instructions et procédez comme suit :

1. Repérez l'interrupteur ou le thermostat mural qui contrôle le foyer (vérifiez que l'interrupteur contrôle le fonctionnement du foyer en le faisant basculer de Marche à Arrêt, et vice-versa). Nettoyez soigneusement la plaque murale de l'interrupteur ou le thermostat mural pour éliminer la poussière et les traces de graisse ou d'huile. Collez l'étiquette sur la surface de la plaque de l'interrupteur mural qui contrôle le foyer (**Figure A**) ou du thermostat mural (**Figure B**). Choisissez la langue qui est principalement parlée dans la résidence du propriétaire. En cas de doute, collez l'étiquette en anglais.
2. Si une télécommande est utilisée pour contrôler le foyer, nettoyez la soigneusement pour éliminer la poussière et les traces de graisse ou d'huile. Collez l'étiquette sur le boîtier de la télécommande (**Figure C**). Choisissez la langue qui est principalement parlée dans la résidence du propriétaire. En cas de doute, collez l'étiquette en anglais.
3. Si vous ne parvenez pas à localiser les étiquettes, s'il vous plaît contactez IHP ou votre revendeur le plus proche pour recevoir IHP étiquettes d'instructions de sécurité supplémentaires gratuitement.

Étiquettes de remplacement, n° cat. H8024

Remarqué : Le texte anglais est rouge sur un support transparent. Le texte français et espagnol est blanc sur un support noir.

DIAGRAMMES DES ÉTIQUETTES DE SÉCURITÉ



Colocación de advertencias de seguridad en operación

Su chimenea incluye etiquetas de instrucciones de seguridad que deben colocarse en el punto de operación y control de la chimenea. Se debe colocar una etiqueta de instrucciones de seguridad en la placa del interruptor de pared desde el cual se enciende y se apaga la chimenea (**Figura A**) o en el termostato de pared (**Figura B**) y en el transmisor de control remoto (**Figura C**) si se usa. Las advertencias ya deben haberse colocado cuando se completó la instalación inicial de la chimenea. Si no están colocadas en estos lugares, encuentre las etiquetas adhesivas multilingües proporcionadas con estas instrucciones y prosiga de la siguiente manera:

1. Identifique el interruptor o el termostato de pared que controla la chimenea (verifique que el interruptor opera la chimenea encendiéndola y apagándola). Limpie bien la placa del interruptor o el termostato de pared para quitar el polvo y aceite. Pegue la etiqueta en la superficie de la placa del interruptor que controla la chimenea (**Figura A**) o en el termostato de pared (**Figura B**). Seleccione el idioma que más se habla en la casa. Si no sabe cuál es, use la etiqueta en inglés.
2. Si se usa un control remoto para controlar la chimenea, encuentre el transmisor y límpiolo bien para quitar el polvo y aceite. Pegue la etiqueta en la superficie del transmisor (**Figura C**). Seleccione el idioma que más se habla en la casa. Si no sabe cuál es, use la etiqueta en inglés.
3. Si usted es incapaz de localizar las etiquetas, por favor póngase en contacto con IHP, o con su distribuidor más cercano IHP recibir instrucción etiquetas de seguridad adicionales sin costo.

Juego de etiquetas de repuesto - N° de cat. H8024

Nota: La etiqueta en inglés es transparente con texto rojo. Las etiquetas en francés y español son negras con texto blanco.

DIAGRAMAS DE ETIQUETAS DE SEGURIDAD



Innovative Hearth Products

Illustrations are for example only. Your accessories may be different.

Les illustrations sont par exemple uniquement. Vos accessoires peuvent être différents.

Las ilustraciones son sólo ejemplos. Tu accesorios pueden ser diferentes.

Figure A
Figura A

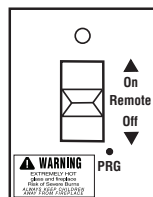


Figure B
Figura B



Figure C
Figura C



Burn-in Period

The first few times this fireplace is operated, there will be an odor from the curing of paint and the burning off of the lubricants used in the manufacturing process. Depending on usage, the burn-in period may take a few hours or a few days.

NOTE: Ventilate the site during the burn-in period. The resulting odor and haze may set off a smoke detector. Do not operate the blower during the burn-in period.

A white film may develop on the glass front during the first few fires as part of the burn-in period. The glass should be kept clean during the burn-in period to prevent the film from baking on—making it very difficult to remove (**Cleaning the glass door on Page 57**).

Accessing the Control Compartment

NOTE: If the door is difficult to open/close, remove it as instructed and straighten the door tabs (**Figure 46**).

1. Access the control compartment (**Figure 34**) by holding the control compartment door by the top and gently lifting it up, then rotating it away from the fireplace.

Closing the Control Compartment

1. Swing the door gently up and then lift and set the door so it catches in the upright, closed position.

Removing the Control Compartment Door

1. Remove the bottom, left screw (**Figure 45**) inside the control compartment securing the control compartment door. Retain the screw for later reinstallation.
2. Position the left side door tab (**Figure 46**) out of the tab groove and align it with the vertical slot (**Figure 45**).

Figure 45: Control compartment door slots

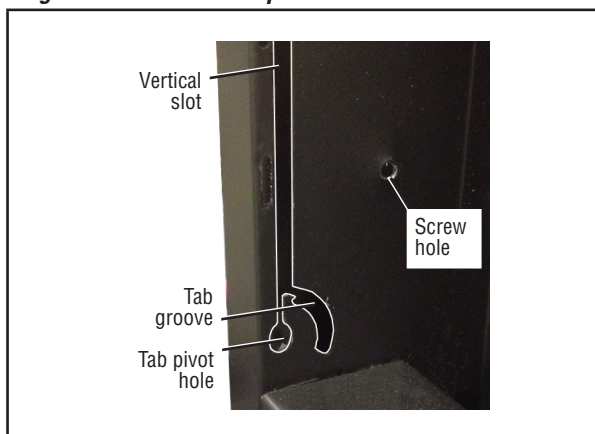
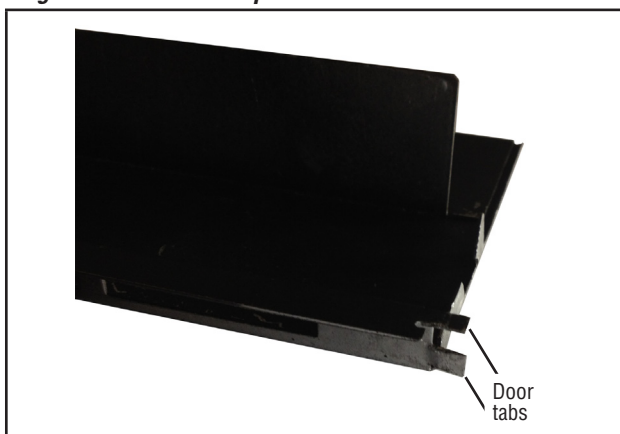


Figure 46: Control compartment door tabs



3. Lift the left side of the control compartment door with the tabs in the vertical slot until the tabs clear the slot, disengaging the left side of the door from the fireplace.
4. Pull the door to the left to disengage the right side door tabs, and remove the door. Store the control compartment door in a secure location until reinstallation.

Gas Controls

The standard controls for fireplace operation are located in the control compartment, below the glass door (**Figure 34**). Optional control switches are also available.

Millivolt and electronic gas control systems operate differently. Before lighting and operating the fireplace determine if it is a millivolt or electronic system:

- Millivolt Fireplaces (**Figure 1**)
- Electronic Fireplaces (**Figure 2**)

Familiarize yourself with the gas control valve and the lighting procedure (**Page 64**).

Millivolt Fireplaces

Detailed lighting instructions are found on **Page 64**. Also, millivolt fireplace lighting instructions are found on the pull-out lighting instructions attached to the gas control valve.

When the pilot is lit, the main burner can be turned ON/OFF using a wall switch, remote control, optional on-unit rocker switch (FRS), or wall thermostat.

If the millivolt fireplace is equipped with an optional remote switch (wall switch, remote control, rocker switch, or wall thermostat) and the pilot is lit, the fireplace main burner can be turned ON/OFF using the optional switch.

NOTE: Do NOT wire more than one valve to the burner control switch. This will help prevent excessive resistance in the burner circuit, that can cause burner operation problems.

Electronic Fireplaces

Detailed lighting instructions are found on **Page 66**. Also, electronic fireplace lighting instructions are found on the pull-out lighting instructions attached to the gas control valve.

If the electronic fireplace is equipped with an optional remote wall switch or remote control, the fireplace main burner can be turned ON/OFF with the wall switch or remote control.

If the electronic fireplace is not equipped with a wall switch or remote control, the main burner must be turned ON/OFF with a gas control switch installed separately. Contact the installer for more information. Check the batteries, if installed, at least every three (3) months to ensure they are properly charged.

To light the fireplace in a power outage:

1. Confirm that batteries are installed in the battery pack.
2. Set the unit-mounted switch, or wall switch to the ON Position.
3. The unit should spark at the pilot and light.
NOTE: If there is no spark, replace the batteries.
4. Operate the fireplace normally.

Installing the Backup Batteries

With a battery backup, electronic fireplaces can automatically switch to battery power. In the event of a power outage, this allows ON/OFF operation (without blower functionality). Install new batteries before every burn season.

1. Open the control compartment (**Page 50**), and locate the battery holder.
2. Install four (4) AA batteries in the battery holder.
3. Close the control compartment door.

Continuous Pilot Ignition Switch

Fireplaces with an electronic gas valve have a continuous pilot ignition (CPI) switch installed in the control compartment.

This switch allows the pilot to be switched from intermittent mode to continuous mode:

- Intermittent Mode—The pilot is extinguished when the fireplace is OFF.
- Continuous Mode—The pilot stays ON when the fireplace is OFF.

In periods of extreme cold, condensation may form on the glass door when the fireplace is OFF and the pilot is in intermittent mode. Also, with the pilot in intermittent mode, the fireplace may **cycle startup** (i.e., the pilot and burner ignite, but the burner extinguishes and reignites several times until the flue reaches the temperature for proper drafting).

- To save energy—switch to intermittent mode.
- For a standing pilot that will help prevent glass door condensation and cycle startup—switch to continuous mode.

NOTE: Continuous mode is indicated by a pilot that comes ON and remains lit when the fireplace is OFF.

Traditional Only: Installing the Firebox Liners

1. Remove the three (3) firebox liner panels from the packing materials.
2. Carefully position the rear panel, upper edge first, in the firebox against the rear wall.
3. While holding the rear panel, carefully position the left side panel in the firebox.
4. Carefully position the right side panel in the firebox.

NOTE: Do not force the panels. Excessive force may cause breakage. If the panels are correctly positioned, they will fit snugly in place.

Contemporary Only: Installing the Glass Media

1. Install the glass media in the recessed area between the front and rear floors.

NOTE: 35" fireplaces require less than a full bag of glass media. 40" fireplaces require an entire bag of media.

2. Spread the glass media in a thin layer, evenly over the burner and pilot.

NOTE: Do NOT mound the media.

Installing the logs, volcanic stone, and glowing embers

WARNING

- Turn OFF all gas and electricity to the appliance before installing the volcanic stone, embers, and logs.
- Do NOT install the logs until the appliance has been completely installed, the gas line connected and tested for leaks, and the initial burner operation has been confirmed.
- Use of an unapproved log set in the fireplace will void the warranty and will result in incomplete combustion, sooting, and poor flame quality.
- Logs get very hot and remain hot for up to one hour after the gas supply is turned OFF. Handle the logs only when cool.
- This appliance is not designed to burn wood. Any attempt to do so could cause irreparable damage to appliance and prove hazardous.
- If the logs are not installed according to these instructions, improper combustion could occur. This could result in the excessive production of soot and/or the colorless, odorless, toxic gas carbon monoxide (CO).

NOTE: If applicable, install the firebox liner before placing the stone. Logs can be installed after the volcanic stone.

Installing the volcanic stone, and glowing embers

1. If necessary, remove the glass door (**Page 55**).
2. Spread the decorative volcanic stone in a pleasing pattern on the firebox floor along the slope and to the back right and left sides of the burner (**Figure 47**).

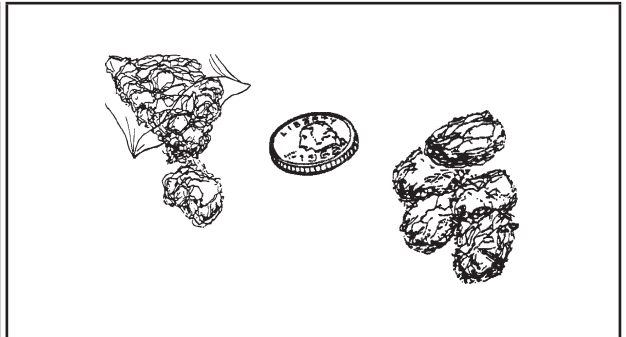
NOTE: Do not place stone on the burner.

3. Separate and fluff the glowing embers into pieces approximately the size of a quarter (**Figure 48**).

Figure 47: Installing the volcanic stone

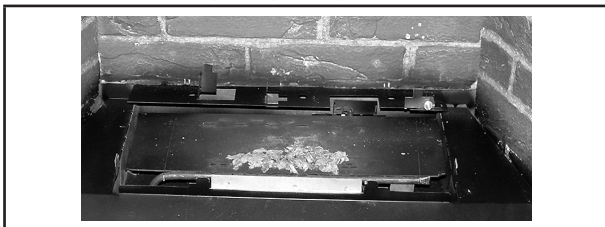


Figure 48: Separating the glowing embers



4. Position the separated glowing embers over the small holes on the burner surface (**Figure 49**). Do NOT cover the large burner slots.

Figure 49: Installing the glowing embers



NOTE: Enough glowing ember material is provided for several applications. For best glowing effect, replace the ember material annually.

Installing the Aries 33 and 35 logs

The logs have notches/tabs to assist proper positioning. Upper logs rest on lower logs via notches/tabs. Proper log placement is critical to prevent sooting. Place the logs in the gaps between flame peaks, so they do not impinge the flames. Follow the log placement instructions precisely.

NOTE: Do not cover the burner ports.

NOTE: Ensure the left front log (1) and right front log (2) are correctly installed on the burner positioning pins.

Table 37: Aries 33 and 35 Log Set

Log Number	Description
1	Rear Log
2	Left Front Log
3	Right Front Log
4	Left Cross Log
5	Right Cross Log

Catalog number for the entire set: H7666 - 35" Aries and F1885 33" Aries

1. If necessary, remove the glass door (**Page 55**). Locate and bend up Burner Locating Tabs (**Figure 50**).
2. Locate the log placement brackets (**Figure 50**). Place embers and other media (see **Page 51**).

Figure 50: Locating the log placement brackets

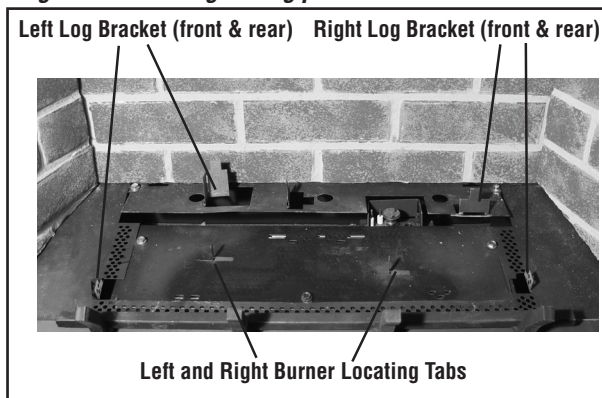
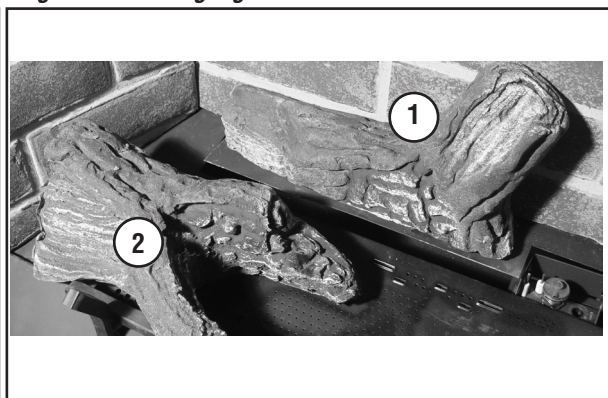


Figure 51: Placing log 1 and 2



3. Align the notches in the bottom of the rear log (1) with the left rear brackets (**Figure 51**).
4. Position the left rear log (1) on the left rear bracket and the left front log (2) on the left front log bracket and the left burner locating tab (**Figure 51**).

Figure 52: Placing log 3

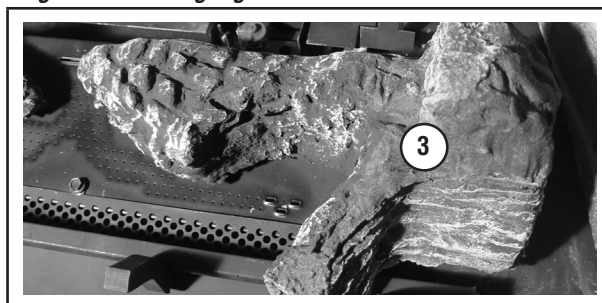
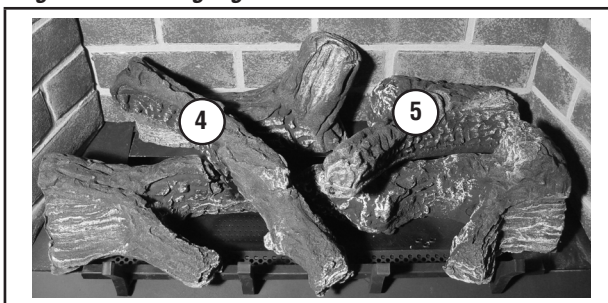


Figure 53: Placing log 4 and 5



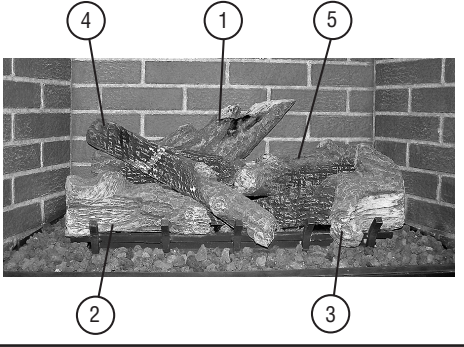
5. Position the right front log (3) on the right front log bracket and right burner locating tab (**Figure 52**).
6. Position the left cross log (4) on the left rear log (1) and right cross log (5) on the right rear log bracket (**Figure 53**).

Installing the Aries 40 and Aries 45 logs

The logs have notches/tabs to assist proper positioning. Upper logs rest on lower logs via notches/tabs. Proper log placement is critical to prevent sooting. Place the logs in the gaps between flame peaks, so they do not impinge the flames. Follow the log placement instructions precisely.

NOTE: Do not cover the burner ports.

Table 38: Aries 40 Log Set

	Log Number	Description
	1	Rear Log
	2	Left Front Log
	3	Right Front Log
	4	Left Cross Log
	5	Right Cross Log
Catalog number for the entire set: Aries 40: H7667 Aries 45: H7840		

1. If necessary, remove the glass door (**Page 55**).
2. Locate the log placement brackets (**Figure 54**).

Figure 54: Placing log 1

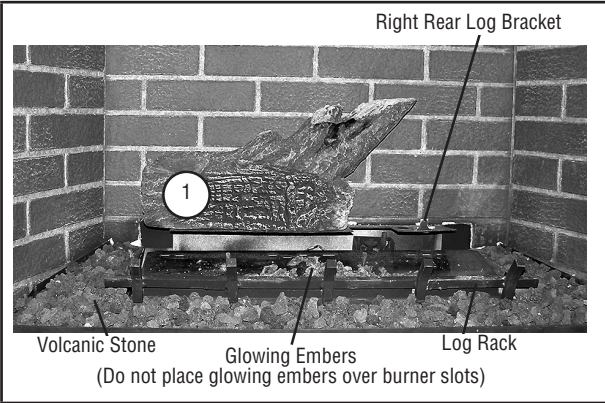
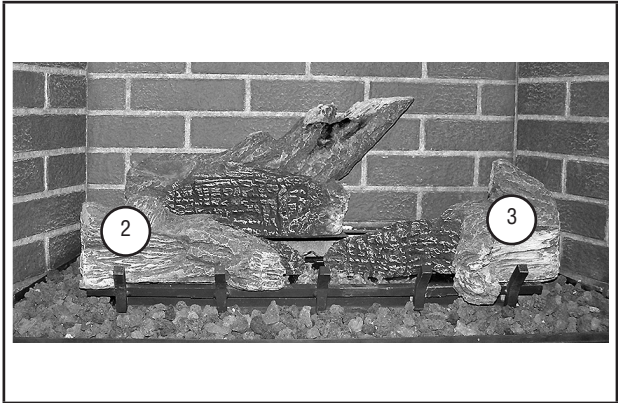


Figure 55: Placing logs 2 and 3



3. Position rear log (1) on the left rear log bracket (**Figure 54**)
4. Position the left front log (2) and the right front log (3) against the log rack (**Figure 55**).
5. Position the left cross log (4) over the rear log (1) and left front log (2) with the front resting on the log rack (**Figure 56**).

Figure 56: Placing log 4

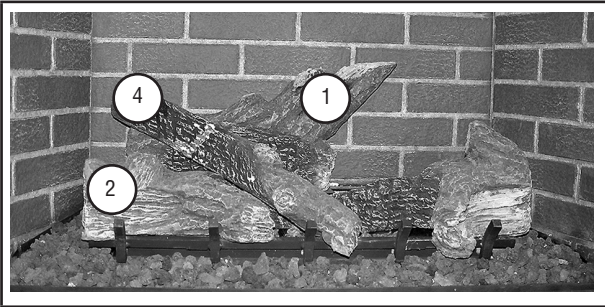
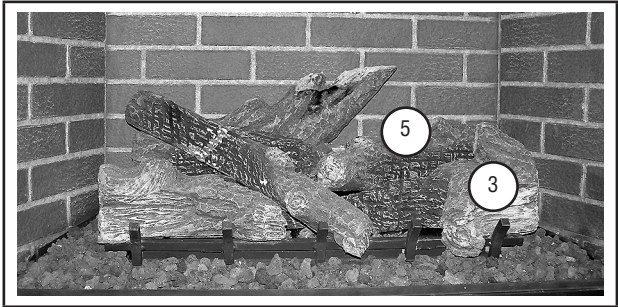


Figure 57: Placing log 5



6. Position the right cross log (5) on the right rear log bracket and over right front log (3) (**Figure 57**).

Installing and removing the glass door

WARNING

- Do not attempt to substitute the materials used on these doors, or replace cracked or broken glass.
- Handle this glass with extreme care! Glass is susceptible to damage—Do not scratch or handle roughly while reinstalling the glass door frame.
- The glass door of this appliance must only be replaced as a complete unit as provided by the manufacturer. Do not attempt to replace broken, cracked or chipped glass separately.
- Do not attempt to touch the front enclosure glass with your hands while the fireplace is in use.

WARNING

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed.

WARNING

Une barrière conçue pour réduire le risque de brûlure par le hublot chaude est fournie avec l'appareil et doit être installé.

WARNING

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

AVERTISSEMENT

Ne pas utiliser l'appareil si le panneau frontal en verre n'est pas en place, est craqué, ou brisé.

WARNING

Any safety screen or guard removed for servicing the appliance must be replaced prior to operating the appliance.

AVERTISSEMENT

Tout écran ou protecteur retiré pour permettre l'entretien de l'appareil doit être remis en place avant de mettre l'appareil en marche.

Only doors certified with the fireplace shall be used.

Seules des portes certifiées pour cet appareil doivent être utilisées.

CAUTION

Do NOT abuse the glass door by striking it or slamming it shut.

Installing the glass door

1. Visually inspect the gasket on the backside of the glass door.

NOTE: The gasket surface must be clean, free of irregularities, and seated firmly. Ensure it is properly located. Make sure the bead is not rolled into the channel at the top of the door, but remains flat against the top of the glass.

2. Position the door in front of the firebox opening with the bottom of the door held away from the fireplace at a 45° angle (**Figure 58**). Hook the top flange of the door frame over the top of the firebox frame.

NOTE: Ensure the glass door is centered—with even spacing on each side.

3. Let the bottom of the glass door swing gently in towards the fireplace ensuring that the gasket seats evenly as the door draws shut. Securely fasten the two (2) latches beneath the firebox floor to the door V-flange.
4. Install the barrier.
5. Close the control compartment door.

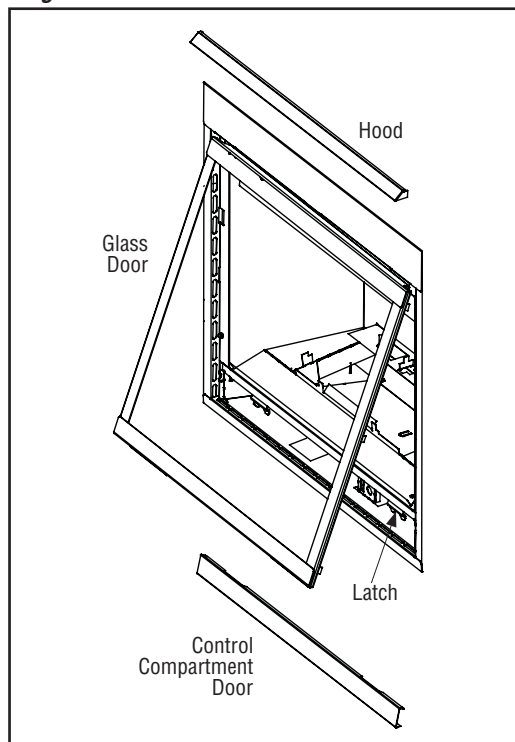
Removing the glass door

1. Open the control compartment door (**Page 50**).

NOTE: If necessary, remove the door and place it in a safe location for later reinstallation.

2. Remove the barrier. Place the barrier in a safe location for later reinstallation.
3. Detach the two (2) door latches beneath the firebox floor.
4. Swing the bottom of the glass door away from the fireplace to a 45° angle (**Figure 58**)
5. Carefully grip the door at the top and bottom, and remove it from the fireplace. Place the door in a safe location for later reinstallation.

Figure 58: Glass Door



MAINTENANCE

Refer to the **Maintenance Schedule** on **Page 60** for maintenance tasks, procedures, frequency, and a listing of by whom the tasks should be performed. Always verify proper fireplace operation after servicing.

WARNING

Turn OFF gas and electrical power to the fireplace and allow it to cool before cleaning or servicing the appliance.

CAUTION

Wear gloves and safety glasses for protection while doing required maintenance.

Verify proper operation after servicing.

S'assurer que l'appareil fonctionne adéquatement une fois l'entretien terminé.

Always turn OFF gas before cleaning. Before relighting, refer to the lighting instructions in this manual. Instructions are also found on a pull-out panel located in the control compartment.

Always keep the appliance area clear and free from combustible materials, gasoline and other flammable liquids.

NOTE: Prior to the first use of the fireplace and each burn season and periodically during the burn season, inspect the horizontal termination for debris such as bird nests, leaves, paper or branches. Remove any items from the surfaces of the termination prior to use. Also be aware of shrubs and plantings that may encroach on the termination.

Inspecting the venting system

The fireplace and venting system should be thoroughly inspected before initial use and at least annually by a qualified service technician. Inspection should include ensuring that exhaust or intake passages are unobstructed and vent components are properly assembled and not damaged.

The homeowner must contact a qualified service technician at once if any abnormal condition is observed.

If the venting system is disassembled for any reason, a qualified service technician should follow vent installation instructions for proper reassembly and proper sealing of the venting system components. However, more frequent periodic inspections and cleanings should be performed by the homeowner.

NOTE: Prior to the first use of the fireplace and each burn season and periodically during the burn season, inspect the horizontal termination for debris such as bird nests, leaves, paper or branches. Remove any items from the surfaces of the termination prior to use. Also be aware of shrubs and plantings that may encroach on the termination.

Inspecting the burner flame appearance

Periodically inspect the burner and pilot flame. Ensure that the burner flame appearance resembles the flame shown in **Figure 39** and **Figure 40** on **Page 40** and as described in **Flame Appearance and Sooting on Page 39**.

Any necessary burner flame adjustments must be performed by qualified personnel only (**Page 39**). Refer to **Page 38** for more information about the pilot flame appearance. Contact a qualified service technician at once if any abnormal condition is observed.

Cleaning the glass door

CAUTION

Do not use abrasive cleaners on glass. Never clean the glass when it is hot.

Clean the glass during the **Burn-in Period**, and then only when necessary and when the fireplace is cool. Wipe the surface with a clean, dampened, soft cloth. Follow with a dry, soft towel as desired. Take care not to scratch the glass surface. Periodically, remove any build-up caused by the following:

- During start-up, it is normal for condensation to form on the inside of the glass (this condensation and fog will usually disappear in a few minutes). The moisture can cause lint, dust and other airborne particles to cling to the glass surface.
- Initial curing of the high temperature paint and burning off of lubricants used in the manufacturing process may result in a film on the glass.
- A white coating may form on the glass as a result of impurities and minerals in the fuel.

Clean the glass two or three times each heating season, depending on the circumstances present. The following cleaning solutions are approved for use:

- Non-ammonia based glass cleaner
- 50/50 mixture of white vinegar / water
- Gas fireplace/stove glass cleaner

Inspecting the glass gasket

Visually inspect the gasket on the backside of the glass door. The gasket surface must be clean, free of irregularities, and seated firmly.

Cleaning the control compartment

Keep the control compartment clean by vacuuming or brushing it out at least twice a year. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etcetera. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean.

Touching up paint in small areas

Only use a factory-supplied paint kit for any touch-ups. Paint is available at your local IHP dealer. Never attempt to paint a hot fireplace. Do not attempt to repaint the fireplace until the finish is completely cured (**Burn-in Period on Page 50**). If the surface becomes stained or marred, it may be lightly sanded and touched up.

Logs

Removing and cleaning the logs

CAUTION

The fiber logs become very fragile after curing.

Carefully remove the logs. Clean carbon from the logs using a vacuum cleaner, or a soft bristle brush (e.g., paint brush).

Reinstalling the embers and logs

Carefully follow the placement instructions (**Page 52**). All logs should fit onto the corresponding pins and/or log stoppers. This will ensure proper flame and safe combustion.

NOTE: Improper positioning of logs can create carbon build-up and will alter the performance of the fireplace.

Replacing the logs

If the logs become damaged and need replacement, use only the proper replacement logs from manufacturer (**Page 70**).

Glass Media

Removing and cleaning the glass media

CAUTION

Risk of personal injury. Allow the media to completely cool before handling.

Use a clean, dry, empty shop vac to remove glass media. Wash the media in warm, soapy water. Rinse and dry before reinstalling.

Reinstalling the glass media

Carefully follow the placement instructions (**Page 51**). This will ensure a proper flame and safe combustion.

NOTE: Improper positioning of media can create carbon build-up and will alter the performance of the fireplace.

Replacing the media

If the media needs replacement, use only the proper replacement media from manufacturer (**Page 70**).

Cleaning the burner

Carefully remove the logs/media. Vacuum out any foreign matter on the burner (e.g., lint, carbon, etc.). Ensure the burner ports are free of debris.

NOTE: Improper positioning of logs/media can create carbon build-up and will alter the performance of the fireplace.

Inspecting the wiring

Refer to the wiring diagram (**Figure 31** and **Figure 32**).

CAUTION

When servicing controls, label all wires prior to disconnection. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

ATTENTION

Au moment de l'entretien des commandes, étiquetez tous les fils avant de les débrancher. Des erreurs de câblage peuvent entraîner un fonctionnement inadéquat et dangereux.

Inspect and clean all wire connections. Ensure that there is no wire melting or damage. The inspection should include:

- Terminals at the valve
- ON/OFF switch
- Optional wall thermostat, remote control, or wall switch

MAINTENANCE SCHEDULE

See the tables below for detailed information about required maintenance, both regular and annual.

Table 39: Maintenance Performed Annually—Before the Burning Season

Maintenance Task	Performed By	Procedure
Inspecting/Cleaning Burner, Logs and Controls	Qualified Service Technician	Inspect valve and ensure it is properly operating. Check piping for leaks. Vacuum the control compartment, fireplace logs and burner area.
Checking Flame Patterns and Flame Height	Qualified Service Technician	Verify the flame pattern and height displayed by the fireplace (Figure 39 and Figure 40). Flames must not impinge on the logs.
Inspecting/Cleaning Pilot and Burner	Qualified Service Technician	Remove any surface build-up on pilot and burner assembly. Wipe the pilot nozzles, igniter/flame rod and hood. Ensure the pilot flame engulfs the flame sensor as shown.
Checking Vent System	Qualified Service Technician	Inspect the vent system at the top and at the base (within the firebox) for signs of blockage or obstruction. Look for any signs of dislocation of the vent components.
Fireplace Inspection	Qualified Service Technician	Perform the appropriate fireplace inspection procedure detailed in this manual.
Replacing Glowing Embers	Homeowner/Qualified Services Technician	Remove the old glowing embers and vacuum the area. Place new glowing embers (Figure 49).
Replacing Batteries	Homeowner/Qualified Services Technician	For electronic gas valve models: Replace the batteries in the battery holder.

Table 40: Maintenance Performed Periodically—After the Burning Season

Maintenance Task	Performed By	Procedure
Cleaning Firebox Interior	Homeowner	Carefully remove logs, volcanic stone and glowing embers / glass media. Vacuum out interior of the firebox. Clean firebox walls and log grate, if installed. Replace removed items as detailed in this manual.
Check Flame Patterns and Flame Height	Homeowner	Verify the flame pattern and height displayed by the fireplace (Figure 39 and Figure 40). Flames must not impinge on the logs.
Checking Vent System	Homeowner	Inspect the vent system at the top and at the base (within the firebox) for signs of blockage or obstruction. Look for any signs of dislocation of the vent components.
Cleaning Glass Door	Homeowner	Clean as necessary following the directions provided in this manual (Page 57). Do not touch or attempt to clean the glass while hot.

ACCESSORY COMPONENTS

Touch-Up Paint Kits

Repair minor scratches and discoloration of the fireplace black painted surfaces with the touch-up paint kits.

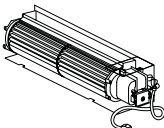
Table 41: Touch-Up Paint Kit

Catalog No.	Description
F1881	Firebox interior touch-up paint
F1882	Chassis touch-up paint

Forced Air Kits

The FBK-100 blower provides constant velocity forced air circulation. The FBK-200 assembly with variable speed, wall-mountable switch provides variable speed forced air circulation. The FBK-300 offers variable speed control and a heat-activated switch; perfect for fireplaces controlled thermostatically.

Table 42: Forced Air Kits

	Catalog	Model	Description
	80L84	FBK-100	Blower, Standard (single speed)
	80L85	FBK-200	Blower, Variable Speed (with wall-mounted switch)
	H7841	FBK-250	Blower, Variable Speed (with thermal snap switch)

Glowing Embers and Volcanic Stone

Table 43: Glowing Embers and Volcanic Stone

	Catalog	Model	Description
	88L53	FGE	Bag of Glowing Embers
	80L42	FDVS	Bag of Volcanic Stone

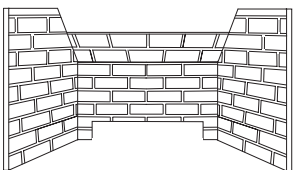
Glass Media

Table 44: Glass Media

	Catalog	Model	Description
	H8412	CRSHGL-RBLK	Bag of Glass Media, Reflective Black

Brickaded Firebox Liner Kits

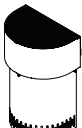
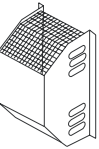
Table 45: Brickaded Firebox Liner Kits

	Catalog	Model	Description	Used on
	F1887	MBLK33B	Buff	Aries 33 / Aries CD 33
	F1886	ABLK33V	Vintage Red	
	F1827	MBLK35B	Buff	Aries 35 / Aries CD 35
	F1825	ABLK35V	Vintage Red	
	F1828	MBLK40B	Buff	Aries 40 / Aries CD 40
	F1826	ABLK40V	Vintage Red	
	F1889	MBLK45B	Buff	Aries 45 / Aries CD 45
	F1888	ABLK45V	Vintage Red	

Termination Guard Kits

The vent termination guards may be used to minimize exposure to the hot surface of the termination.

Table 46: Termination Guard Kits

  	Catalog	Model	Description
	H5820	4.5HTSK	Termination Shroud
	87L02	SV4.5HGS	Termination Guard, Deluxe
	17M52	SV4.5HGS-1	Termination Guard, Square

Thermostatic Control Kits

Feature a thermostatic ON/OFF mode as well as manual ON/OFF operation.

Table 47: Thermostatic Control Kits

RC-S-STAT, Thermostatic or manual operation		Catalog Number
	- LCD display - Receiver wall-mounted or placed in the valve compartment - Up to 9-hr countdown timer - Child lock - Low battery indicator - Batteries included	H8861
RC-S-Touch, State-of-the-art control with touch screen operation		Catalog Number
	- Backlit LCD display - Transmitter wall-mounted docking station - Receiver wall-mounted or placed in the control compartment - Thermostatic or manual ON/OFF operation - Programmable weekday/weekend modes - Flame icon - Low battery indicator - Batteries included	H8865
WS-S-STAT, Wall control		Catalog Number
	- Large LCD display - Shows room and set temperatures in °F and °C - Wall-mounted - Thermostatic or manual ON/OFF operation - Connects to wall switch wire	H8864

ON/OFF and Timer Control Kits

Feature a timed ON/OFF mode as well as manual ON/OFF operation.

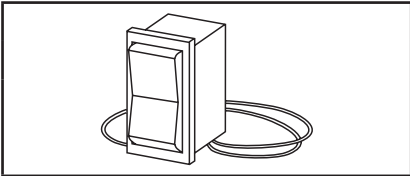
Table 48: ON/OFF and Timer Control Kits

G-Fire, Cost Effective Solution		Catalog Number
	- Manual ON/OFF operation - Works with millivolt and low voltage electronic ignition controls - Kit includes remote and receiver	H8840
RC-S-1, Manual or up to 3-hour timer modes		Catalog Number
	- LCD display - Shows room temperature in °F and °C - Wall clip included - Receiver wall-mounted or placed in the control compartment - White face plate included - Flame icon - Low battery indicator - Batteries included	H8860
WS-S-TMR, Wall Control		Catalog Number
	4-button timer with 30/60/120/OFF minutes - Wall-mounted - Perfect for rental and resort applications - Connects to wall switch wire	H8863

Unit-Mountable Rocker Switch Kit

This rocker switch kit can be installed directly in the control compartment to provide ON/OFF operation in lieu of a wall switch.

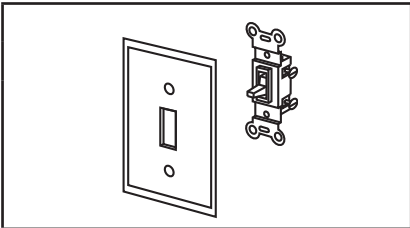
Table 49: Unit-Mountable Rocker Switch

	Catalog	Model
	80L41	FRS

OFF/ON Wall Switch Kit

The OFF/ON wall switch kit can be used to control the operation of the fireplace burner or blower. Install the OFF/ON wall switch in a convenient location near the fireplace.

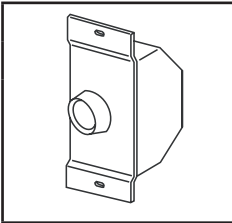
Table 50: OFF/ON Wall Switch Kit

	Catalog	Model
	85L87	FWSK

Variable Speed Wall Switch Kit

The variable speed wall switch kit provides variable speed control if the optional FBK-100 blower kit is installed.

Table 51: Variable Speed Wall Switch Kit

	Catalog	Model
	045571H	VSWS

LIGHTING INSTRUCTIONS

Millivolt Gas Valve

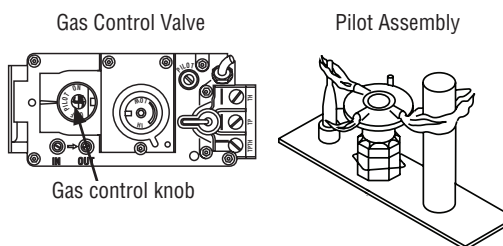
FOR YOUR SAFETY READ BEFORE LIGHTING

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 a piezo igniter. When lighting the pilot, follow these instructions exactly.
- 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 neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- C.** Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- D.** 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 on this page.
2. (If applicable) Set the thermostat to lowest setting. Turn wall on/off switch, unit mounted on/off switch or remote control switch **OFF**.
3. Turn **OFF** all electric power to the appliance.
4. Access the control compartment.
5. Push in gas control knob slightly and turn clockwise  to **OFF**.
6. Knob cannot be turned from **PILOT** to **OFF** unless knob is pushed in slightly. Do Not force.
7. 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 page. If you don't smell gas, go to the next step.
8. Find pilot — located in firebox on the same plane as the top of the burner.
9. Turn knob on gas control counterclockwise  to **PILOT**
10. Push in control knob all the way and hold in. Immediately light the pilot by triggering the piezo igniter (pushing the button) until pilot lights. Continue to hold the control knob in for about 1 1/2 minutes after the pilot is lit. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 5 through 10.
11. Turn gas control knob counterclockwise  to **ON**.
12. Close control compartment.
13. (If applicable) Turn on all electrical power to the appliance.
14. (If applicable) Set thermostat to desired setting. Turn wall on/off switch, unit mounted on/off switch or remote control switch **ON**.



TO TURN OFF GAS TO APPLIANCE

1. (If applicable) Set the thermostat to lowest setting. Turn wall on/off switch, unit mounted on/off switch or remote control switch **OFF**.
2. Turn **OFF** all electric power to the appliance if service is to be performed.
3. Access the control compartment.
4. Push in gas control knob slightly and turn clockwise  to **OFF**. Do not force.
5. Close the main line gas shut-off valve.
6. Close control compartment.



WARNING



**Hot glass will cause burns.
Do not touch glass until cooled.
Never allow children to touch glass.**

POUR PLUS DE SÉCURITÉ, LIRE AVANT D'ALLUMER

AVERTISSEMENT : Quiconque ne respecte pas à la lettre les instructions dans la présente notice risque de déclencher un incendie ou une explosion entraînant des dommages, des blessures ou la mort.

A. Cet appareil est muni d'une veilleuse qui doit être allumée avec un allumeur piézo-électrique. Respectez les instructions ci-dessous à la lettre.

B. AVANT L'ALLUMAGE: Avant d'allumer la veilleuse, reniflez tout autour de l'appareil pour déceler une odeur de gaz. Reniflez près du plancher, car certains gaz sont plus lourds que l'air et peuvent s'accumuler au niveau du sol.

QUE FAIRE SI VOUS SENTEZ UNE ODEUR DE GAZ :

- Ne pas tenter d'allumer d'appareil.
- Ne touchez à aucun interrupteur ; ne pas vous servir des téléphones se trouvant dans le bâtiment.

- Appelez immédiatement votre fournisseur de gaz depuis un voisin. Suivez les instructions du fournisseur.

- Si vous ne pouvez rejoindre le fournisseur, appelez le service des incendies.

C. Ne pousser ou tourner la manette d'admission du gaz qu'à la main. Ne jamais employer d'outil à cette fin. Si la manette reste coincée, ne tentez pas de la réparer; appelez un technicien qualifié. Quiconque tente de forcer la manette ou de la réparer peut provoquer une explosion ou un incendie.

D. N'utilisez pas cet appareil s'il a été plongé dans l'eau, même partiellement. Faites inspecter l'appareil par un technicien qualifié et remplacez toute partie du système de contrôle et toute commande qui ont été plongés dans l'eau.

INSTRUCTIONS D'ALLUMAGE

1. ARRÊTEZ ! Lisez les instructions de sécurité sur la portion supérieure de cette étiquette.

2. (Si applicable) Réglez le thermostat à la température la plus basse. Tournez l'interrupteur murale, l'interrupteur sur l'unité ou le contrôle à distance à **OFF**.

3. Coupez l'alimentation électrique de l'appareil.

4. Accédez au compartiment de contrôle.

5. Enfoncez légèrement le bouton de réglage du gaz et tournez-le dans le sens des aiguilles d'une montre jusqu'à la position d'arrêt **OFF**. Remarque: Il est impossible de tourner le bouton de **PILOT** à **OFF** à moins qu'il ne soit légèrement enfoncé. Ne le forcez pas.

6. Attendre cinq (5) minutes pour laisser échapper tout le gaz. Reniflez tout autour de l'appareil, y compris près du plancher, pour déceler une odeur de gaz. Si vous sentez une odeur de gaz, ARRÊTEZ ! Passez à l'étape **B** des instructions de sécurité sur la portion supérieure de cette étiquette. S'il n'y a pas d'odeur de gaz, passez à l'étape suivante.

7. Trouver le pilote — Situé dans l'âtre sur la même surface que le dessus du brûleur.

8. Tournez le bouton de contrôle sur la valve à gaz dans le sens antihoraire jusqu'à la position **PILOT**.

9. Enfoncez le bouton de réglage jusqu'au fond et gardez-le enfoncé. Allumez immédiatement la veilleuse en déclenchant l'allume-gaz à étincelle (en poussant le bouton) jusqu'à ce que la veilleuse s'enflamme. Continuez de tenir le bouton de réglage enfoncé pendant environ 90 secondes après l'allumage de la veilleuse. Relâchez le bouton et il sortira subitement. La veilleuse devrait rester allumée. Si elle s'éteint, répétez les étapes **5** à **9** inclusivement.

- Si la manette ne se soulève pas d'elle-même lorsqu'on la relâche, arrêter et appeler immédiatement un technicien qualifié ou le fournisseur de gaz.

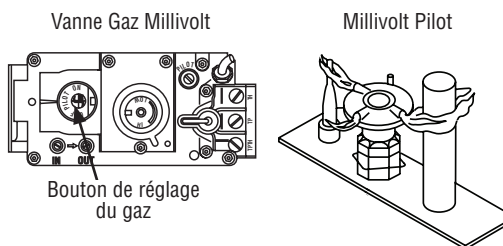
- Si la veilleuse ne reste pas allumée après plusieurs tentatives, réglez la manette d'admission du gaz à la position **OFF**, et appelez un technicien qualifié ou le fournisseur de gaz.

10. Tournez le bouton de réglage du gaz en sens inverse des aiguilles d'une montre jusqu'à sa position de marche **ON**.

11. Fermer le compartiment de contrôle.

12. (Si applicable) Mettez l'appareil sous tension.

13. (Si applicable) Réglez le thermostat à la température désirée. Tournez l'interrupteur murale, l'interrupteur sur l'unité ou le contrôle à distance à **ON**.



COMMENT COUPER L'ADMISSION DE GAZ DE L'APPAREIL

1. (Si applicable) Réglez le thermostat à la température la plus basse. Tournez l'interrupteur murale, l'interrupteur sur l'unité ou le contrôle à distance à **OFF**.

2. Coupez l'alimentation électrique de l'appareil s'il faut procéder à l'entretien.

3. Accédez au compartiment de contrôle.

4. Enfoncez légèrement le bouton de réglage du gaz et tournez-le dans le sens des aiguilles d'une montre jusqu'à la position d'arrêt **OFF**. Ne forcez pas le bouton.

5. Fermer la valve de gaz principale.

6. Fermer le compartiment de contrôle.

AVERTISSEMENT



UNE SURFACE VITRÉE CHAUDE PEUT CAUSER DES BRÛLURES.

LAISSER REFROIDIR LA SURFACE VITRÉE AVANT D'Y TOUCHER.

NE PERMETTEZ JAMAIS À UN ENFANT DE TOUCHER LA SURFACE VITRÉE.

Electronic Gas Valve

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 OPERATING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
- WHAT TO DO IF YOU SMELL GAS**
- Do not try to light any appliance.
 - Do not touch any 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.** If any portion of this appliance does not operate as the instructions indicate, do not try to repair it, call a qualified service technician. Do not use tools. Force or attempted repair may result in a fire or explosion.
- D.** 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 on this label.
2. Read the Care and Operation manual including the section on "Remote Control System," (if applicable).
3. Slide the switch on the receiver, wall switch or ON/OFF switch to **OFF**.
4. Turn **OFF** all electric power to the appliance.

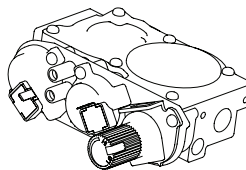
NOTE: The control may have a battery backup (remove batteries, if installed).

5. This appliance is equipped with an ignition device which automatically lights the pilot. Do not try to light the pilot by hand.
6. Wait five (5) minutes to clear out any gas. If you then smell gas, STOP! Follow **B** in the safety information above on this page. If you do not smell gas, go to the next step.
7. Turn on all electric power to the appliance.

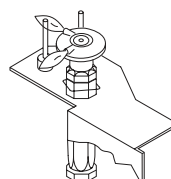
NOTE: The control may have a battery backup (install batteries, if applicable).

8. Slide the switch on the receiver to **REMOTE** or ON/OFF switch / wall switch to **ON**.
9. (if applicable) Press ON/OFF button on remote control transmitter to **ON**.
10. (if applicable) Set thermostat on remote control to desired setting.
11. If the appliance will not operate, follow the instructions "To Turn Off Gas To Appliance" and call your service technician or gas supplier.

Electronic gas control valve



Electronic pilot assembly



TO TURN OFF GAS TO APPLIANCE

1. Slide the switch on the receiver, wall switch or ON/OFF switch to **OFF**.
2. (if applicable) Press ON/OFF button on remote control transmitter to **OFF**.
3. Turn off all electric power to the appliance if service is to be performed.

NOTE: The control may have a battery backup (remove batteries, if installed).

4. Close the main line gas shut-off valve.



WARNING



Hot glass will cause burns.

Do not touch glass until cooled.

Never allow children to touch glass.

POUR PLUS DE SÉCURITÉ, LIRE AVANT DE METTRE EN MARCHÉ

AVERTISSEMENT : Quiconque ne respecte pas à la lettre les instructions dans la présente notice risque de déclencher un incendie ou une explosion entraînant des dommages, des blessures ou la mort.

- A.** Cet appareil est muni d'un dispositif d'allumage qui allume automatiquement la veilleuse. Ne tentez pas d'allumer la veilleuse manuellement.
- B.** AVANT DE FAIRE FONCTIONNER, reniflez tout autour de l'appareil pour déceler une odeur de gaz. Reniflez près du plancher, car certains gaz sont plus lourds que l'air et peuvent s'accumuler au niveau du sol.

QUE FAIRE SI VOUS SENTEZ UNE ODEUR DE GAZ :

- Ne pas tenter d'allumer d'appareil.
- Ne touchez à aucun interrupteur; ne pas vous servir des téléphones se trouvant dans le bâtiment.

- Appelez immédiatement votre fournisseur de gaz depuis un voisin. Suivez les instructions du fournisseur.
- Si vous ne pouvez rejoindre le fournisseur, appelez le service des incendies.
- C.** Si un élément de cette unité ne fonctionne pas tel que décrit dans les instructions, n'essayez pas de le réparer, appelez un technicien qualifié. N'utilisez pas d'outils. Le fait de forcer la manette ou de la réparer peut déclencher une explosion ou un incendie.
- D.** N'utilisez pas cet appareil s'il a été plongé dans l'eau, même partiellement. Faites inspecter l'appareil par un technicien qualifié et remplacez toute partie du système de contrôle et toute commande qui ont été plongés dans l'eau.

INSTRUCTIONS DE MISE EN MARCHÉ

- 1.** ARRÊTEZ ! Lisez les avertissements de sécurité à l'endos de cette étiquette.
- 2.** Lisez le manuel d'utilisation et d'entretien incluant la section « Système de télécommande » (si applicable).
- 3.** Placez l'interrupteur mural ou "on/off" en position **OFF**.
- 4.** Coupez l'alimentation électrique de l'appareil.

Remarqué : Le contrôleur peut avoir une batterie de secours (retirer les batteries au besoin).

- 5.** Cet appareil est muni d'un dispositif d'allumage qui allume automatiquement la veilleuse. Ne tentez pas d'allumer la veilleuse manuellement.
- 6.** Attendre cinq (5) minutes** pour laisser échapper tout le gaz. Reniflez tout autour de l'appareil, y compris près du plancher, pour déceler une odeur de gaz. Si vous sentez une odeur de gaz, ARRÊTEZ ! Passez à l'étape **B** des instructions de sécurité sur la portion supérieure (à gauche) de cette étiquette. S'il n'y a pas d'odeur de gaz, passez à l'étape suivante.
- 7.** Mettez l'appareil sous tension.

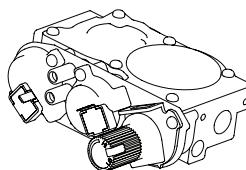
Remarqué : Le contrôleur peut avoir une batterie de secours (installer les batteries au besoin).

- 8.** Placez l'interrupteur du récepteur en position **REMOTE** (ou l'interrupteur mural en position **ON**).
- 9.** Si applicable) Appuyez sur le bouton "ON/OFF" pour sélectionner **ON**.

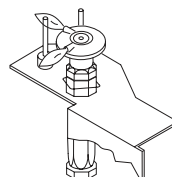
- 10.** (Si applicable) Ajustez le thermostat sur la télécommande à l'ajustement désiré.

- 11.** Si l'appareil ne se met pas en marche, suivez les instructions intitulées « Comment couper l'admission de gaz de l'appareil » et appelez un technicien qualifié ou le fournisseur de gaz.

Valve électronique



Module de veilleuse électronique



COMMENT COUPER L'ADMISSION DE GAZ DE L'APPAREIL

- 1.** Placez l'interrupteur mural ou "on/off" en position **OFF**.
- 2.** (Si applicable) Sélectionnez **OFF** sur le récepteur.
- 3.** Coupez l'alimentation électrique de l'appareil s'il faut procéder à l'entretien.

Remarqué : Le contrôleur peut avoir une batterie de secours (retirer les batteries au besoin).

- 4.** Fermer la valve de gaz principale.



AVERTISSEMENT



**UNE SURFACE VITRÉE CHAUDE PEUT CAUSER DES BRÛLURES.
LAISSER REFROIDIR LA SURFACE VITRÉE AVANT D'Y TOUCHER.
NE PERMETTEZ JAMAIS À UN ENFANT DE TOUCHER LA SURFACE VITRÉE.**

TROUBLESHOOTING

Before troubleshooting, ensure that the fireplace main line gas shutoff valve and the wall switch are in the ON position. The following troubleshoots the fireplace only to an elementary level. For detailed remote and ignition system troubleshooting, refer to the instructions provided with the remote.

Detailed valve system troubleshooting should only be performed by a qualified service technician.

Table 52: Troubleshooting Millivolt Systems

1. Spark igniter will not light pilot after repeated triggering of igniter button. WARNING: if the pilot will not light after 1 minute of attempting, wait for at least 5 minutes for gas to clear before attempting again.	a. Defective igniter (no spark at electrode).	Check for spark at electrode and pilot; if no spark and electrode wire is properly connected, replace igniter.
	b. Defective or misaligned electrode at pilot (spark at electrode).	Using a match, light pilot. If pilot lights, turn off pilot and trigger the igniter button again. If pilot lights, an improper gas mixture caused the bad lighting and a longer purge period is recommended. If pilot will not light – check gap at electrode and pilot – should be 1/8" to have a strong spark. If gap measures 1/8", replace pilot.
	c. Gas supply pressure errant.	Check inlet gas pressure. It should be within the limits as marked on the rating plate.
	d. Pilot orifice plugged.	Clean or replace pilot orifice.
2. Pilot will not stay lit after carefully following the lighting instructions.	a. Defective pilot generator (thermocouple).	Check pilot flame, it must impinge on thermocouple. Clean and/or adjust pilot for maximum flame impingement on thermocouple. Ensure that the connection between the valve and thermocouple are tight and secure.
3. Pilot burning, no gas to burner, Valve knob "ON," and the (standard) burner OFF/ON switch is ON. NOTE: If an optional* remote switch is used for burner operation, if the standard burner OFF/ON switch is still installed on fireplace it must be in the OFF position.	a. Wall switch or wires defective.	Check wall switch and wires for proper connections. Jumper wire across terminals at wall switch, if burner comes on, replace defective wall switch. If okay, jumper wires across wall switch wires at valve, if burner comes on, wires are faulty or connections are bad.
	b. Thermopile may not be generating sufficient millivolts.	Check thermopile with millivolt meter. Take reading at thermopile terminals of gas valve. Should read 325 millivolts minimum with optional wall switch OFF. Replace faulty thermopile if reading is below specified minimum.
	c. Plugged burner orifice.	Check burner orifice for blockage and remove.
	d. OFF/ON Switch and *Remote Switch are in the "ON" position resulting in excessive resistance.	When turning on the burner using a *remote switch, ensure that the standard OFF/ON switch is in the OFF position. If both switches are in the ON position, it may result in excessive resistance (and millivolt drainage) and the burner may not come on.
4. Frequent pilot/burner outage problem.	a. Pilot flame may be too low or blowing (high) causing the pilot/valve safety to drop out.	Clean and/or adjust pilot flame for maximum flame impingement on thermocouple

* Optional remote switch kits—wall switch, wall thermostat or remote control.

Table 53: Troubleshooting Electronic Systems

1. Nothing happens when the fireplace is turned ON/OFF.	a. Remote is not functioning properly.	Check that the wall switch plate is set to REMOTE. Operate the fireplace from the wall plate switch. Replace remote and/or wall switch batteries.
	b. Gas is not reaching the fireplace.	Check the gas supply and gas shutoff valves. *
	c. Unit is not receiving power.	Check/replace backup batteries behind the wall plate.
		Replace unit battery backup.
		Check building circuit breakers to ensure power is ON to the fireplace.
2. The main burner does not light and the igniter is sparking.	a. Gas is not reaching the fireplace.	Check the gas supply and gas shutoff valves.
	b. Loose wires to the valve.	Check control compartment for any obviously loose wiring (call a service technician, if necessary).
	c. Loose wires to ignition module.	Check control compartment for any obviously loose wiring (call a service technician, if necessary).
	d. Air in the gas line.	Purge gas line of air (call a service technician if required).
	e. Unit is not receiving power.	Replace unit battery backup.
3. The main Burner comes on but then goes out.	a. Gas is not reaching the fireplace.	Check the gas supply and gas shutoff valves.
	b. Loose wires to the valve or ignition module.	Check control compartment for any obviously loose wiring (call a service technician, if necessary).
	c. Pilot flame is not engulfing the sensor.	Call a service technician.
	d. Obstructed vent system.	Call a service technician.
4. Soot is present on the logs and glass.	a. Excessive flame impingement on the logs.	Properly position the logs as detailed on Page 52 .
	b. Initial fireplace operation.	A white film may develop on the glass during the first few fires as part of the burn-in process. The first few times you use the fireplace, clean the glass after each use (AFTER THE GLASS HAS COMPLETELY COOLED); otherwise, the white film will bake onto the glass and become difficult to remove. See glass cleaning instructions in the MAINTENANCE section of this manual.
	c. Improper vent restrictor setting.	Open the air shutter by adjusting the air shutter adjustment lever according to the instructions in this manual.
	d. Improper air shutter opening.	Open the air shutter by pushing in the rod.
5. Poor flame and/or blue flame.	a. Door seal is not properly aligned, causing gaps and air leaks.	Remove and realign the door so the gasket seal is fully engaged around the door frame.

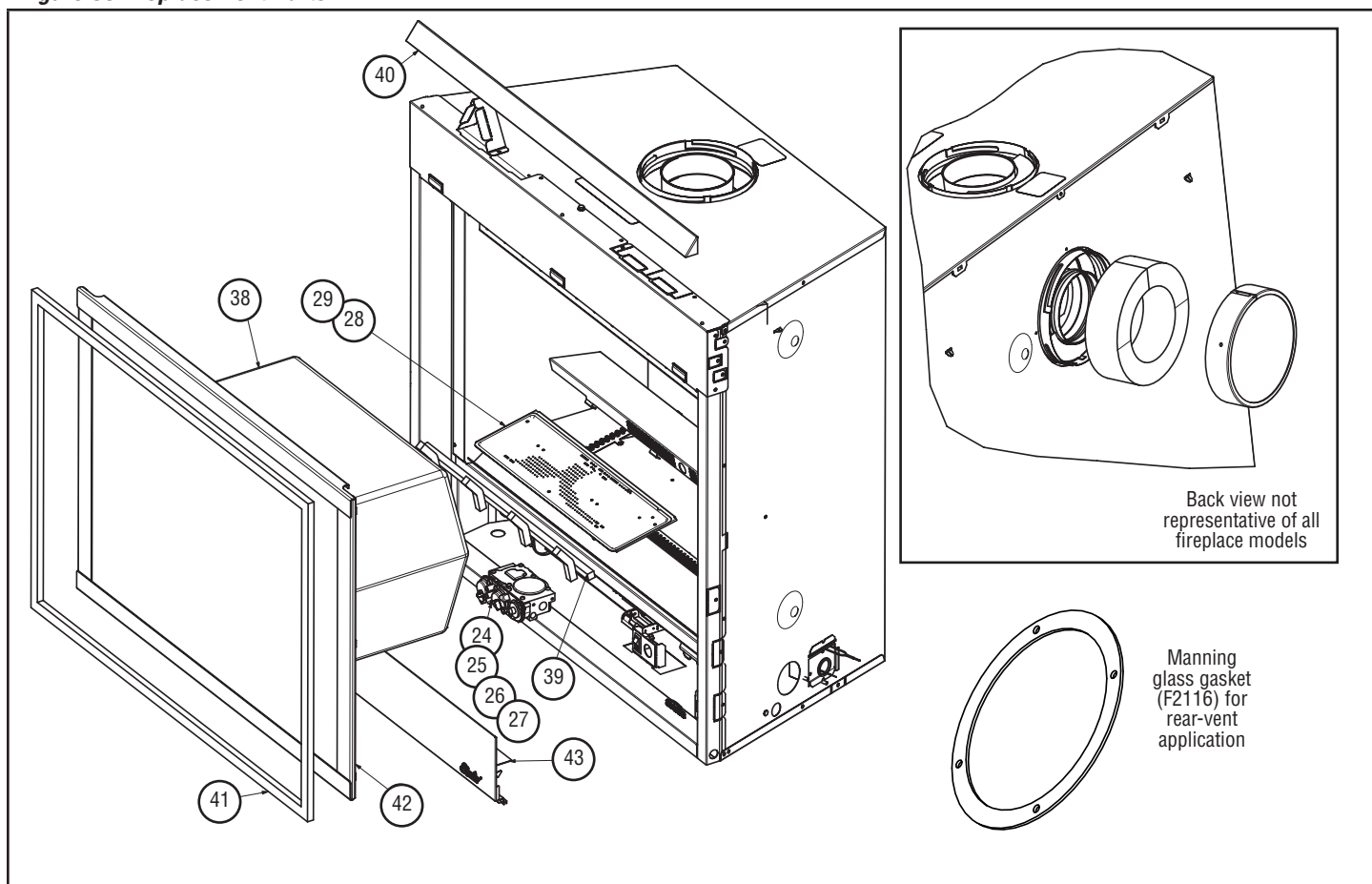
*The unit may have multiple gas supply shutoffs (the main gas supply valve in the house, the gas supply valve in the fireplace control compartment, and/or an additional shutoff valve near the fireplace).

REPLACEMENT PARTS

Table 54: Installer Replacement Parts

Description		Aries 33 / Aries CD 33		Aries 35 / Aries CD 35		Aries 40 / Aries CD 40		Aries 45 / Aries CD 45	
		Catalog Number	Qty	Catalog Number	Qty	Catalog Number	Qty	Catalog Number	Qty
1	Glass Door	F1905	1	F1841	1	F1842	1	F1906	1
2	Touch-Up Paint	90L73	1	90L73	1	90L73	1	90L73	1
3	Blower Assembly	80L84	1	80L84	1	80L84	1	80L84	1
4	Volcanic Stone	80L42	1	80L42	1	80L42	1	80L42	1
5	Electronic Pilot Assembly, Natural Gas	H7268	1	H7268	1	H7268	1	H7268	1
6	Electronic Pilot Assembly, Liquid Propane	H7269	1	H7269	1	H7269	1	H7269	1
7	Electronic DFC Wire Harness Assembly	H8601	1	H8601	1	H8601	1	H8601	1
8	Electronic DFC Ignition Board	H7272	1	H7272	1	H7272	1	H7272	1
9	Electronic Power Transformer	H8006	1	H8006	1	H8006	1	H8006	1
10	Electronic Battery Holder (for backup batteries)	H8803	1	H8803	1	H8803	1	H8803	1
11	Electronic Ground Wire	H7278	1	H7278	1	H7278	1	H7278	1
12	Electronic ON/OFF Switch	27K30	1	27K30	1	27K30	1	27K30	1
13	Electronic Control Module	H7272	1	H7272	1	H7272	1	H7272	1
14	Millivolt Pilot Assembly, Natural Gas	69L17	1	69L17	1	69L17	1	69L17	1
15	Millivolt Pilot Assembly, Liquid Propane	69L18	1	69L18	1	69L18	1	69L18	1
16	Millivolt Piezo Igniter	10K86	1	10K86	1	10K86	1	10K86	1
17	Millivolt Piezo Igniter Wire	56L21	1	56L21	1	56L21	1	56L21	1
18	Millivolt Pilot Generator	60J79	1	60J79	1	60J79	1	60J79	1
19	Millivolt Thermocouple	74L57	1	74L57	1	74L57	1	74L57	1
20	Millivolt Pilot Tube	74L56	1	74L56	1	74L56	1	74L56	1
21	Millivolt Electrode and Cable	H6212	1	H6212	1	H6212	1	H6212	1
22	Orifice Holder	H7257	1	H7257	1	H7257	1	H7257	1
23	Gas Flex Line Connector	93L32	1	93L32	1	93L32	1	93L32	1
24	Gas Valve, Electronic, Natural Gas	F1831	1	F1831	1	F1831	1	F1831	1
25	Gas Valve, Electronic, Liquid Propane	F1832	1	F1832	1	F1832	1	F1832	1
26	Gas Valve, Millivolt, Natural Gas	F1833	1	F1833	1	F1833	1	F1833	1
27	Gas Valve, Millivolt, Liquid Propane	F1834	1	F1834	1	F1834	1	F1834	1
28	Contemporary Burner Assembly	F1843	1	F1843	1	F1843	1	F1904	1
29	Traditional Burner Assembly	F1843	1	F1843	1	F1844	1	F1844	1
30	Vent Restrictor Base	H8987	1	H8987	1	H8987	1	H8987	1
31	Vent Restrictor Wing	H8988	1	H8988	1	H8988	1	H8988	1
32	Gas Train Assembly Gasket	H1264	2	H1264	2	H1264	2	H1264	2
33	Door Latch Assembly	H1264	2	H1264	2	H1264	2	H1264	2
34	Brass Orifice, Female—Natural Gas	LB-69547	1	21L8201	1	H1236	1	19L5201	1
35	Brass Orifice, Female—Liquid Propane	35M9101	1	100934-08	1	62L3701	1	60J8001	1
36	Assembly Harness, Control	H8601	1	H8601	1	H8601	1	H8601	1
37	Glass Media, 5 lb bag—Reflective Black	H8412	1	H8412	1	H8412	1	H8412	1
38	Logset	F1885	1	H7666	1	H7667	1	H7480	1
39	Log Grate	H7719	1	H7719	1	H7720	1	H7720	1

Figure 59: Replacement Parts



! 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.

! AVERTISSEMENT

Risque de dommages ou de blessures si les pièces ne sont pas installées conformément à ces schémas et ou si des pièces autres que celles spécifiquement approuvées avec cet appareil sont utilisées.

! WARNING

Never use substitute materials. Use of non-approved parts can result in poor performance and safety hazards.

Table 55: Homeowner Replacement Parts

Description		Aries 33 / Aries CD 33		Aries 35 / Aries CD 35		Aries 40 / Aries CD 40		Aries 45 / Aries CD 45	
		Catalog Number	Qty	Catalog Number	Qty	Catalog Number	Qty	Catalog Number	Qty
40	Hood	F1900	1	F1837	1	F1838	1	F1901	1
41	Barrier	F1902	1	F1839	1	F1840	1	F1903	1
42	Glass Door	F1905	1	F1841	1	F1842	1	F1906	1
43	Control Compartment Door	F1898	1	F1835	1	F1836	1	F1899	1
44	Touch-Up Paint	FTPK-B	1	FTPK-B	1	FTPK-B	1	FTPK-B	1
45	Glowing Embers	88L53	1	88L53	1	88L53	1	88L53	1
46	Volcanic Stone	80L42	1	80L42	1	80L42	1	80L42	1

WARRANTY

Innovative Hearth Products Astria™ Brand Gas Fireplace Limited Lifetime Warranty

THE WARRANTY

Innovative Hearth Products ("IHP") Limited Lifetime Warranty warrants your Astria™ brand gas fireplace ("Product") to be free from defects in materials and workmanship at the time of manufacture. The Product body and firebox carry the Limited Lifetime Warranty. Ceramic glass carries the Limited Lifetime Warranty against thermal breakage only. After installation, if covered components manufactured by IHP are found to be defective in materials or workmanship during the Limited Lifetime Warranty period and while the Product remains at the site of the original installation, IHP will, at its option, repair or replace the covered components. If repair or replacement is not commercially practical, IHP will, at its option, refund the purchase price or wholesale price of the IHP product, whichever is applicable. IHP will also pay IHP prevailing labor rates, as determined in its sole discretion, incurred in repairing or replacing such components for up to five years. THERE ARE EXCLUSIONS AND LIMITATIONS to this Limited Lifetime Warranty as described herein.

COVERAGE COMMENCEMENT DATE

Warranty coverage begins on the date of installation. In the case of new home construction, warranty coverage begins on the date of first occupancy of the dwelling or six months after the sale of the Product by an independent IHP dealer/distributor, whichever occurs earlier. The warranty shall commence no later than 24 months following the date of product shipment from IHP, regardless of the installation or occupancy date.

EXCLUSIONS AND LIMITATIONS

This Limited Lifetime Warranty applies only if the Product is installed in the United States or Canada and only if operated and maintained in accordance with the printed instructions accompanying the Product and in compliance with all applicable installation and building codes and good trade practices.

This warranty is non-transferable and extends to the original owner only. The Product must be purchased through a listed supplier of IHP and proof of purchase must be provided. The Product body and firebox carry the Limited Lifetime Warranty from the date of installation. Vent components, trim components and paint are excluded from this Limited Lifetime Warranty. The following do not carry the Limited Lifetime Warranty but are warranted as follows:

Burner – Repair or replacement for five years from the date of installation

Gas components & electrical components – Repair or replacement for one year from the date of installation

Gaskets – Repair or replacement for one year from the date of installation

Gold & nickel plating – Replacement for two years from date of installation. Excludes tarnishing

Labor coverage – Prevailing IHP labor rates apply for the warranty period of the component

Light bulbs & batteries – Replacement for 90 days from the date of installation

Logs – Replacement for five years from the date of installation against thermal breakage only

Optional blowers & remote controls – Repair or replacement for one year from the date of installation

Optional glass doors & optional glass accessories – Repair or replacement for 90 days from the date of installation

Optional surrounds – Stone/Natural Materials: Replacement for one year against cracking or breakage due to thermal stress. Other Materials: Replacement for one year. Excludes surface and hairline cracks and scratches or slight color changes that do not affect the operation or safety of the unit

Tempered Glass -Replacement for one year from the date of installation

Parts not otherwise listed carry a 90 day warranty from the date of installation.

Whenever practicable, IHP will provide replacement parts, if available, for a period of 10 years from the last date of manufacture of the Product.

IHP will not be responsible for: (a) damages caused by normal wear and tear, accident, riot, fire, flood or acts of God; (b) damages caused by abuse, negligence, misuse, or unauthorized alteration or repair of the Product affecting its stability or performance (The Product must be subjected to normal use. The Product is designed to burn either natural or propane gas only. Burning conventional fuels such as wood, coal or any other solid fuel will cause damage to the Product, will produce excessive temperatures and could result in a fire hazard.); (c) damages caused by failing to provide proper maintenance and service in accordance with the instructions provided with the Product; (d) damages, repairs or inefficiency resulting from faulty installation or application of the Product.

IHP is not responsible for inadequate fireplace system draft caused by air conditioning and heating systems, mechanical ventilation systems, or general construction conditions which may generate negative pressure in the room in which the appliance is installed. Additionally IHP assumes no responsibility for drafting conditions caused by venting configurations, adjoining trees or buildings, adverse wind conditions or unusual environmental factors and conditions that affect the operation of the unit.

This Limited Lifetime Warranty covers only parts and labor as provided herein. In no case shall IHP be responsible for materials, components or construction, which are not manufactured or supplied by IHP or for the labor necessary to install, repair or remove such materials, components or construction. Additional utility bills incurred due to any malfunction or defect in equipment are not covered by this warranty. All replacement or repair components will be shipped F.O.B. from the nearest stocking IHP factory.

LIMITATION ON LIABILITY

It is expressly agreed and understood that IHP's sole obligation and the purchaser's exclusive remedy under this warranty, under any other warranty, expressed or implied, or in contract, tort or otherwise, shall be limited to replacement, repair, or refund, as specified herein.

In no event shall IHP be liable for any incidental or consequential damages caused by defects in the Product, whether such damage occurs or is discovered before or after repair or replacement, and whether such damage is caused by IHP's negligence. IHP has not made and does not make any representation or warranty of fitness for a particular use or purpose, and there is no implied condition of fitness for a particular use or purpose.

IHP makes no expressed warranties except as stated in this Limited Lifetime Warranty. The duration of any implied warranty is limited to the duration of this expressed warranty.

No one is authorized to change this Limited Lifetime Warranty or to create for IHP any other obligation or liability in connection with the Product. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. The provisions of this Limited Lifetime Warranty are in addition to and not a modification of or subtraction from any statutory warranties and other rights and remedies provided by law.

INVESTIGATION OF CLAIMS AGAINST WARRANTY

IHP reserves the right to investigate any and all claims against this Limited Lifetime Warranty and to decide, in its sole discretion, upon the method of settlement.

To receive the benefits and advantages described in this Limited Lifetime Warranty, the appliance must be installed and repaired by a licensed contractor approved by IHP.

Contact IHP at the address provided herein to obtain a listing of approved dealers/distributors. **IHP shall in no event be responsible for any warranty work done by a contractor that is not approved without first obtaining IHP's prior written consent.**

HOW TO REGISTER A CLAIM AGAINST WARRANTY

In order for any claim under this warranty to be valid, you must contact the IHP dealer/distributor from which you purchased the product. If you cannot locate the dealer/distributor, then you must notify IHP in writing. IHP must be notified of the claimed defect in writing within 90 days of the date of failure. Notices should be directed to the IHP Warranty Department at 1508 Elm Hill Pike, Suite 108, Nashville, TN 37210 or visit our website at WWW.ASTRIA.US.COM.

NOTES

Contact an IHP dealer to obtain any of these parts. Please contact IHP for the phone number of your nearest IHP dealer.

www.astria.US.com

Record the following important information about your fireplace:

Fireplace model number	
Fireplace serial number	
Date fireplace was Installed	
Type of gas fireplace uses	
Dealer name	



P900004-01

IHP.us.com

Innovative Hearth Products reserves the right to make changes at any time, without notice, in design, materials, specifications, prices and also to discontinue colors, styles and products. Consult your local distributor for fireplace code information.

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