



P/N 850040M REV. D 04/2013

This manual is one of a set of two supporting this product.
Refer to P/N 875033M for Care and Operation Instructions.

This manual is available in French. Order P/N 506223-23.
Ce manuel est disponible en français. Simplement en faire
la demande numéro de la pièce 506223-23.



Intertek

WH Report No. 3106807

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.

INSTALLATION INSTRUCTIONS

B-Vent Gas Fireplaces
36" LMBV Models

MERIT® SERIES

MODELS

Millivolt Models

LMBV-36RMN
LMBV-36RMP

Electronic Models

LMBV-36REN

Decorative Product: Not for use as a heating appliance.

NOTICE: Fireplace is not to be operated by a thermostat.

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.

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Please read and understand these instructions before beginning your installation.



PACKAGING

The assembled vented gas fireplace is packaged with:

- 1 - One log set and bag of glowing embers is packaged in a carton located within the firebox.
- 2 - One envelope containing the literature package, which consists of the care and operation manual, installation instructions, warranty, 8 nailing flanges; envelope is located in the control area.
- 3 - One Grate, located in firebox.

INTRODUCTION

The millivolt appliances are designed to operate on either natural or propane gas. A millivolt gas control valve with piezo ignition system provides safe, efficient operation.

The electronic appliances are designed to operate on either natural or propane gas. An electronic intermittent pilot system provides safe, efficient operation. External electrical power is required to operate these units.

Use Only These Approved Vent Components - These vented gas fireplaces are designed for residential applications. They must be installed with approved Type-B, 6" diameter double wall vent pipe systems and a listed vent termination routed to the outside atmosphere.

GENERAL INFORMATION

⚠ WARNING

B-Vent appliances are not designed to operate in negatively pressured environments (pressure within the home is less than pressures outside). Significant negatively pressured environments caused by weather, home design, or other devices may impact the operation of these appliances. Negative pressures may result in poor flame appearance, sooting, damage to property and/or severe personal injury. Do not operate these appliances in negatively pressured environments.

⚠ 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.

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.

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.

⚠ 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

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.

⚠ WARNING

THIS APPLIANCE MAY ONLY BE FITTED WITH DOORS CERTIFIED FOR USE WITH THE APPLIANCE.

Note: Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning 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.

Remarque : 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.

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.

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.

Only trim kit(s) supplied by the manufacturer shall be used in the installation of this appliance.

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

These appliances comply with National Safety Standards and are tested and listed by Warnock Hersey (Report No. 3106807) to ANSI Z21.50, latest edition (in Canada, CSA 2.22, latest edition), and CAN/CGA-2.17-M91 in both USA and Canada, as vented gas fireplaces.

Both millivolt and electronic versions of these appliances may be used in bedrooms (USA only) when the room is an "unconfined space" as defined by the National Fuel Gas Code. Use in bedrooms may not be allowed by your local building codes. You should obtain prior approval from the Authority having jurisdiction prior to installation.

This appliance uses room air for combustion. It is imperative that provisions for adequate combustion and ventilation air be made. This appliance is NOT designed to and will not operate in a negative pressure.

Misc. Codes / Standards -

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 appliance, 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.

Provide adequate clearances around air openings and adequate accessibility clearance for service and proper operation. Never obstruct the front or back openings of the appliance.

These appliances 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 are designed as decorative appliances and are not intended for use as area heaters. They must Not be equipped with wall thermostats or remote controls with thermostat functions.

These appliances must not be connected to a chimney or flue serving a separate solid fuel burning appliance.

The appliance area be kept clear and free from combustible materials, gasoline and other flammable vapors and liquids.

These appliances are equipped with an integral combustion air door and actuator arm. Combustion air kits are optional and must be installed before removing the securing screw allowing the movement of the combustion air actuator arm (*see Step 7*).

Millivolt Models - The millivolt appliances are manually controlled and feature a spark igniter (piezo) that allows the appliance's pilot gas to be lit without the use of matches or batteries. This system provides continued service in the event of a power outage. The BTU Input for these appliances is shown in **Table 1**.

Electronic Models - Electronic models have a fixed rate gas valve. Input of electronic models is shown in **Table 1**.

Input (BTU) Gas Valves (all models)		
All Models	Fuel Type	Input Rate (BTU / HR)
Millivolt	Natural	24,000
Millivolt	Propane	24,000
Electronic	Natural	24,000
Electronic	Propane	24,000

Table 1

Gas Pressure - All Models

Tables 2 and 3 show the appliances' inlet and manifold gas pressure requirements:

Inlet Gas Supply Pressure (all models)		
Fuel #	Minimum	Maximum
Natural Gas	4.5" WC (1.12 kPa)	10.5" WC (2.62 kPa)
Propane	11.0" WC (2.74 kPa)	13.0" WC (3.24 kPa)

Table 2

Manifold Gas Supply Pressure (all models)		
Fuel #	Low	High
Natural Gas	(Lo) 2.2" WC (0.55 kPa)	(Hi) 3.5" WC (0.87 kPa)
Propane	(Lo) 6.3" WC (1.57 kPa)	(Hi) 10.0" WC (2.49 kPa)

Table 3

Test gauge connections are provided on the front of the millivolt gas control valve (identified E for the inlet and A for the manifold side). A 1/8" NPT test gauge connection is provided at the inlet and manifold side of the electronic gas control valve.

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 (All Models)

These appliances are tested and approved for installation at elevations of 0-4500 feet (0-1372 meters) above sea level using the standard burner orifice sizes (marked with an "*" in **Table 4**). For elevations above 4500 feet, contact your gas supplier or qualified service technician.

Deration - At higher elevations, the amount of BTU fuel value delivered must be reduced by either:

- Using gas that has been derated by the gas company.
- By 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.

Install the appliance according to the regulations of the local authorities having jurisdiction and, in the USA, the National Fuel Gas Code NFPA 54 / ANSI Z223.1 - latest edition or, in Canada, the CAN/CGA-B149.1 - latest edition.

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

In Canada - CAN/CGA-2.17-M91 (R2009) (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.

Burner Orifice Sizes (all models)		
Elevation Feet (meters)	Natural Gas drill size (inches)	Propane Gas drill size (inches)
0-4500 (0-1372)	#42 (0.0935") * H3721 •	(0.058") * 67L28 •

Table 4

* Standard size installed at factory
• Part /Cat. Number

Gas Valve Diagrams

See **Figure 1** for Millivolt models and **Figure 2** For Electronic Models.

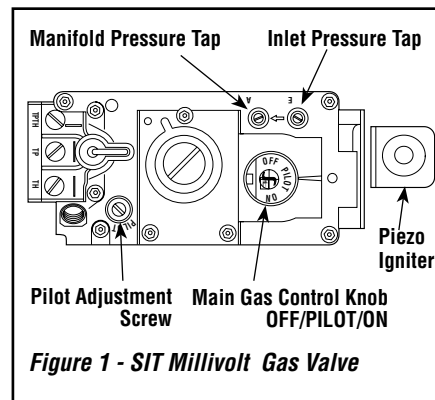


Figure 1 - SIT Millivolt Gas Valve

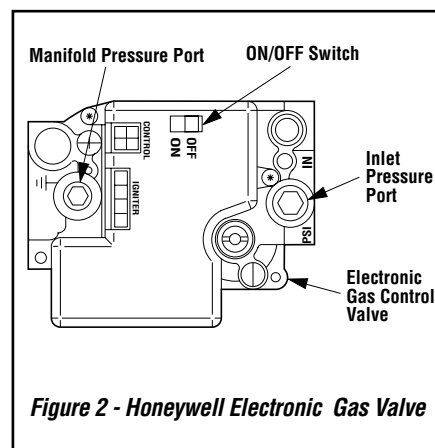


Figure 2 - Honeywell Electronic Gas Valve

REQUIREMENTS FOR THE COMMONWEALTH OF MASSACHUSETTS

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

- Install this appliance 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 inches (92 centimeters) in length.
- The individual manual shut-off must be a T-handle type valve.

COLD CLIMATE INSULATION

For cold climate installations, seal all cracks around your appliance 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 appliance rests, if floor is above ground level. Gas line holes and other openings should be caulked or stuffed with unfaced fiberglass insulation.

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 cold transfer to the fireplace and into the room. It also helps to sheetrock inside surfaces and tape for maximum air tightness and caulk firestops.

MANUFACTURED HOUSING

B-Vent Fireplaces are not approved for use in OEM or aftermarket manufactured housing built to HUD standards.

LOCATION

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

Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies (Figure 3).

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 (Figure 3).

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

Be aware that this is a heat producing appliance. Objects placed above the unit are exposed to elevated temperatures.

Do not insulate the space between the appliance and the area above it.

The appliance must be mounted on a fully supported base extending the full width and depth of the unit. The appliance 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.

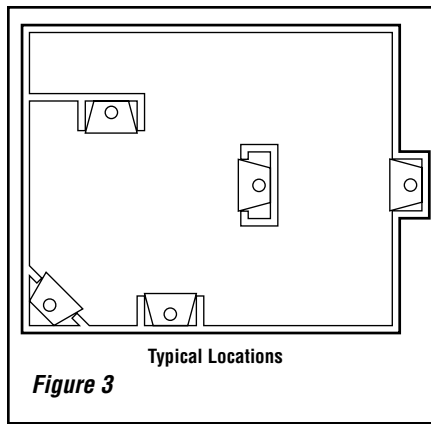


Figure 3

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) in the USA or the current standards of CAN/CGA-B149.1 in Canada.

Vertical Vent Termination Clearances

Gas Vent Rule—Gas vent caps are not permitted within 8 ft. (2.4 m) of a vertical wall or similar obstruction.

Gas vent caps that are located 8 ft. or more from a portion of a building which extends at an angle greater than 45° upward from the horizontal may terminate in accordance with **Figure 4**, provided that in no case shall any discharge opening on the cap be less than 2 ft. (.6 m) horizontally from the roof surface (National Fuel Gas Code ANSI Z223.1 (NFPA 54)-(CAN/CGA B149.1).

Multiple Terminations

These appliances may vent adjacent to and at the same level with any other gas appliances (including direct-vent appliances) provided that there is at least 2 ft. (0.6m) between the proximal edges of the vent caps. These appliances may be vented adjacent to a chimney vent servicing a solid fuel fireplace provided the B-vent cap is at least 2 ft. (0.6m) away from the nearest point of the chimney opening.

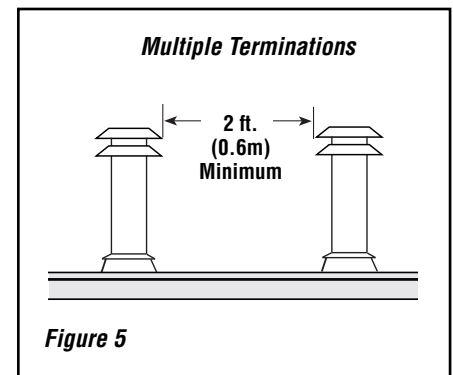
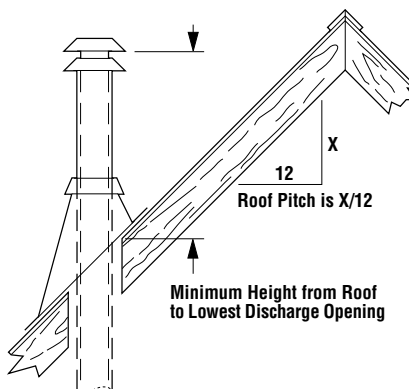


Figure 5

Vertical Vent Termination Clearances



The vent / air intake termination clearances above the high side of an angled roof is as shown in the following chart:

Figure 4

Termination Heights For Vents
Above Flat Or Sloped Roofs
Ref. NFPA 54 / ANSI Z223.1

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

CLEARANCES

Minimum clearance to combustibles for the appliance is as follows: sides and back - 0" (0 mm), floor - 0" (0 mm), adjacent wall - 0" (0 mm), ceiling - 64" (1625 mm). Service Clearances, Front - 3' (0.9 m).

NOTE: 3" (75 mm) minimum clearance is required above any inclined vent component. 1" minimum clearance is required to the sides of vertical vent.

Hearth Extension - A hearth extension is not required with this appliance. 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.

Wall Finishes / Surrounds / Mantels

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

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

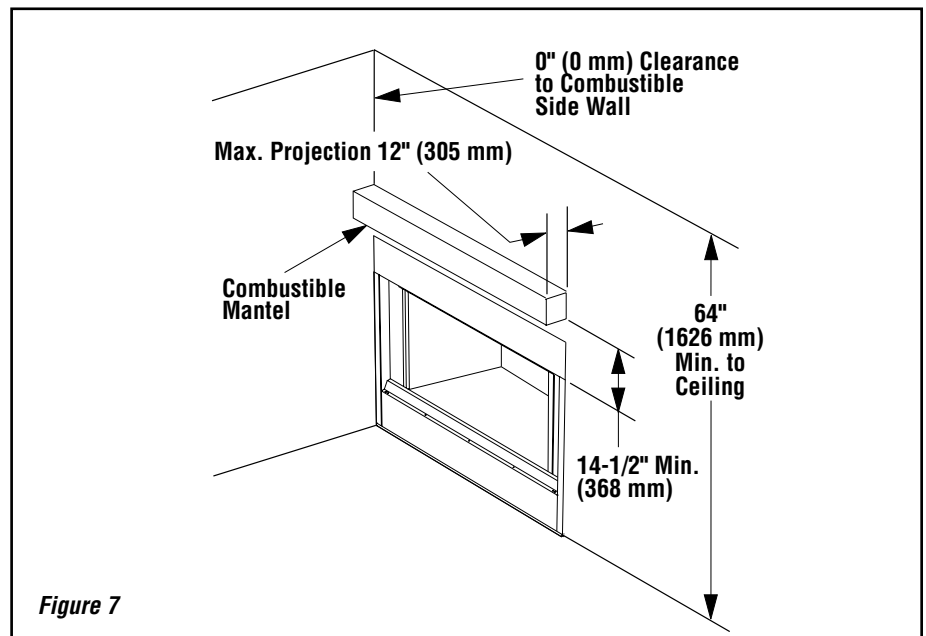
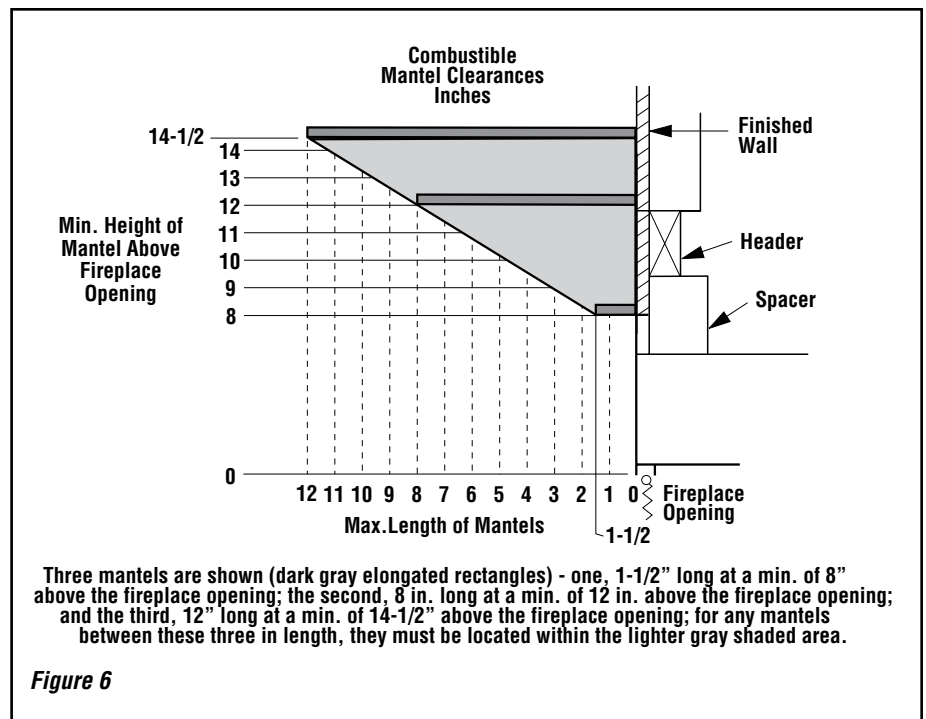
Vertical installation clearances to combustible mantels vary according to the depth of the mantel. See **Figure 6**. Mantels constructed of non-combustible materials may be installed at any height above the appliance opening; however, do not allow anything to hang below the fireplace hood.

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

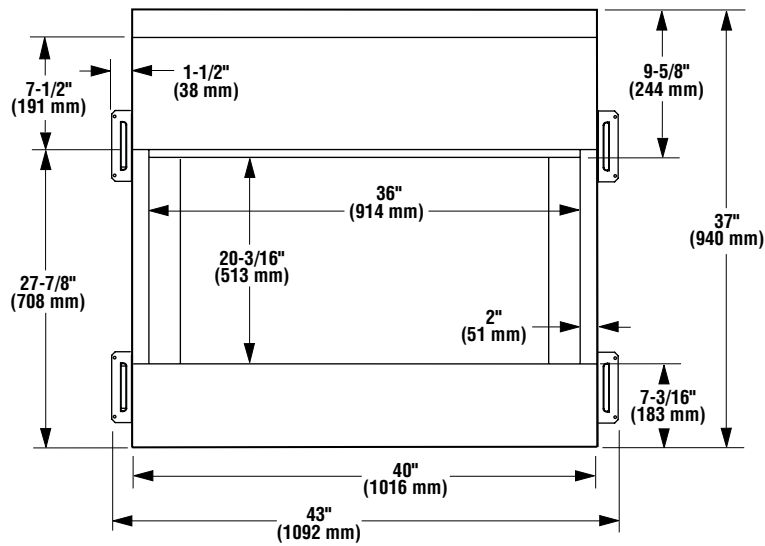
NOTE: We recommend the use of high temperature paint (rated 175° F or higher) on the underside of the mantel.

Wall Details and Combustible Mantels

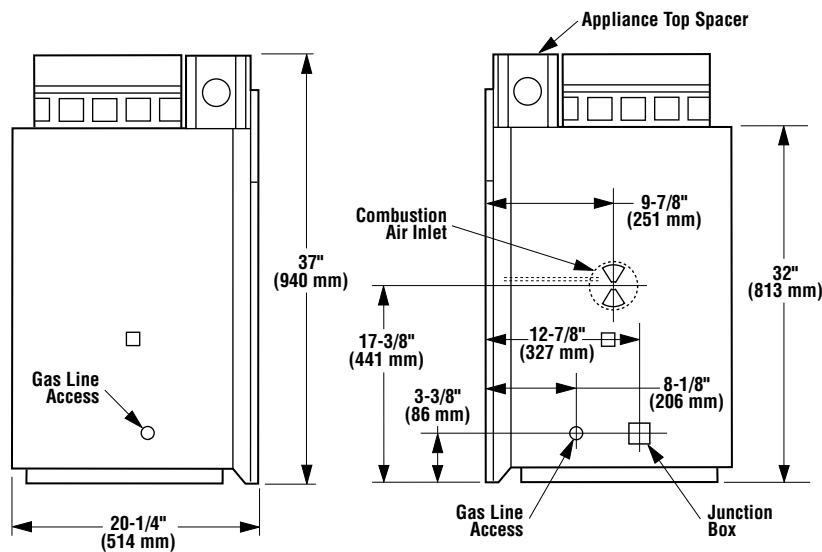
Complete finished interior wall. To install the appliance facing flush with the finished wall, position framework to accommodate the thickness of the finished wall (**Figure 6**). This Figure also indicates vertical installation clearances to combustible mantels. **Figure 7** also shows an example of a combustible mantel shelf projecting a maximum of 12" (305 mm) from the wall, and which must be installed a minimum distance of 14-1/2" (368 mm) from the top of the firebox opening.



APPLIANCE AND FRAMING SPECIFICATIONS

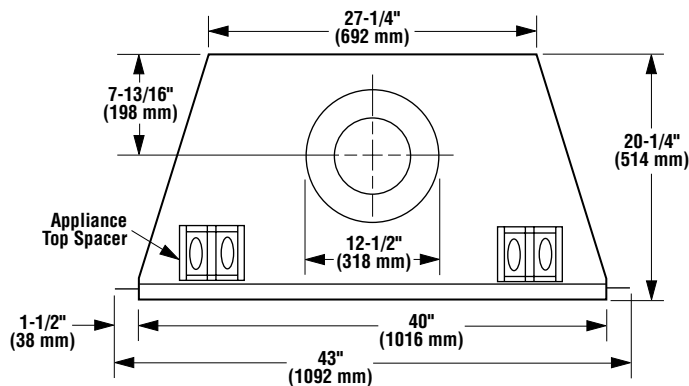


Front View

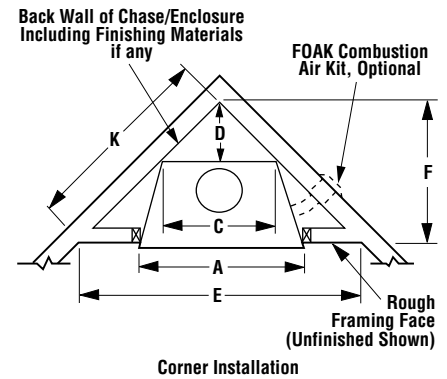
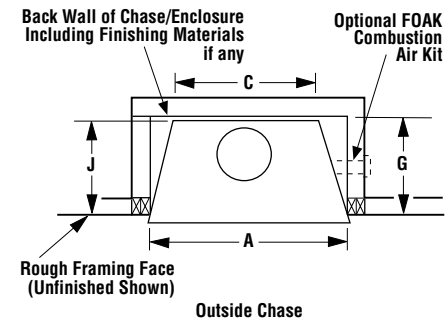
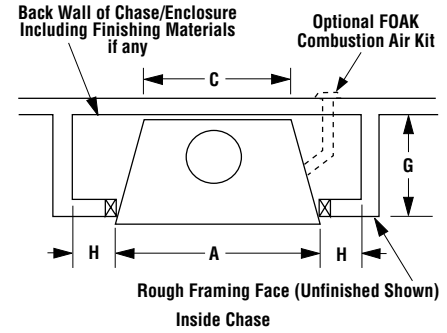


Left Side

Right Side



Top View



Framing Dimensions

A	42-1/4"	1073 mm
B	37-1/2"	953 mm
C	28-3/4"	730 mm
D	15-3/8"	391 mm
E	70"	1778 mm
F	35"	889 mm
G	20-5/8"	524 mm
H*	4"	102 mm
J	19-5/8"	498 mm
K	49-1/2"	1257 mm

* When FOAK is used.

NOTE: All framing dimensions calculated for 1/2" dry wall at the appliance face. If sheathing the chase or finishing with other thickness materials, calculations will need to be made.

Figure 8

! 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.

PRE-INSTALLATION STEPS

The fireplace may be installed directly on a combustible floor or raised on a platform of an appropriate height. Do not place fireplace on carpeting, vinyl or other soft floor coverings. It may, however, be placed on flat wood, plywood, particle board or other hard surfaces. Be sure fireplace rests on a solid continuous floor or platform with appropriate framing for support and so that no cold air can enter the room from under the fireplace.

The fireplace may be positioned and then the framing built around it, or the framing may be constructed and the fireplace positioned into the opening.

Usually, no special floor support is needed for the fireplace, however, to be certain:

1. Estimate the total weight of the fireplace system and surround materials such as brick, stone, etc., to be installed.
2. Measure the square footage of the floor space to be occupied by the system, surrounds and hearth extensions.
3. Note the floor construction, i.e. 2 x 6's, 2 x 8's or 2 x 10's, single or double joists, type and thickness of floor boards.
4. Use this information and consult your local building code to determine if you need additional support.

If you plan to raise the fireplace and hearth extension, build the platform assembly then position fireplace and hearth extension on top. Secure the platform to the floor to prevent possible shifting.

TYPICAL INSTALLATION SEQUENCE

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

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Installing the Fireplace:

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Step 3. Position Appliance.....	Page 7
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Step 6. Connect to Gas Line	Page 8
Step 7. Install (Optional) Outside Air Kit	Page 9
Step 8. Install Logs and Glowing Embers	Page 10

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INSTALLING THE FIREPLACE**Step 1. Construct Appliance Framing**

Frame appliance enclosure as illustrated in **Figure 8**.

Note: The framed depth, 20-5/8" (524 mm) from a framed wall, must always be measured from a finished surface. If a wall covering such as drywall is to be attached to the rear wall, then the 20-5/8" (524 mm) must be measured from the drywall surface. It is important that this dimension be exact.

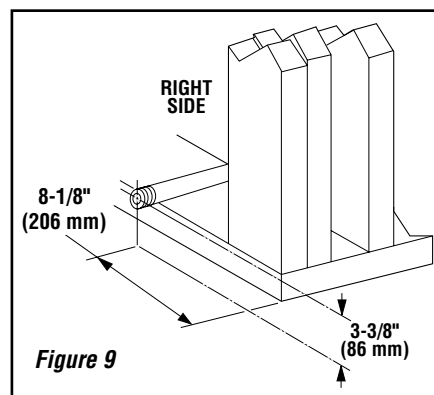
If the appliance is to be elevated above floor level, a solid continuous platform must be constructed.

The header may rest on the top metal spacers, but must not be notched to fit around them.

Consult all local codes.

Step 2. Route Gas Supply Line

Refer to **Figure 9**. Using techniques and materials prescribed by local and/or national codes. It is recommended that a gas line of 1/2" or greater diameter be used to allow full gas volume to the fireplace. Undue pressure loss will occur if the pipe is too small. The appliance, as set up at the factory, is best suited for use with a gas line routed from the right side. The gas line may however be alternately routed from the left side.



Note: Ensure the Millivolt valve wire is not routed through the same hole as the gas line. Route the Millivolt wire through the opposite side from the gas line.

When rigid pipe is used, an ANSI approved manual shut-off valve and union must be installed upstream of the fireplace.

Ensure that a sediment trap is installed in the existing gas line, if not, install a sediment trap upstream to prevent moisture and contaminants from passing through trap to the appliance controls and burners. Failure to do so could prevent the appliance from operating reliably.

An external regulator must be used on all propane (L.P.G.) appliances to reduce the supply tank pressure to 13" W.C. (maximum). Any copper tubing used to supply propane (L.P.G.) from the tank must be internally tinned.

IMPORTANT: HOLD GAS VALVE SECURELY TO PREVENT MOVEMENT WHEN CONNECTING TO INLET GAS LINE

! WARNING

CONNECTING DIRECTLY TO AN UN-REGULATED PROPANE (L.P.G.) TANK MAY CAUSE AN EXPLOSION.

All appliances are equipped with a gas flex line and shutoff valve attached directly to the gas control valve. To quickly and easily complete the gas line routing, use the gas flex line kit.

Step 3. Position Appliance

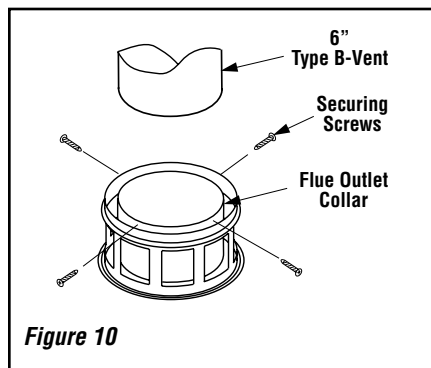
Slide the fireplace into prepared framing or position fireplace in its final position and frame later.

Refer to fireplace drawings and specifications on **Page 7** for framing dimensions and details. Framing header may be positioned directly on the fireplace top spacers.

IMPORTANT: UNDER NO CIRCUMSTANCES CAN THE FIREPLACE TOP SPACERS (REFER TO FIGURE 8) BE REMOVED OR MODIFIED, NOR MAY YOU NOTCH THE HEADER TO FIT AROUND OR BE INSTALLED LOWER THAN THE SPACERS. THE HEADER MAY BE IN DIRECT CONTACT WITH THE TOP SPACERS BUT MAY NOT BE SUPPORTED BY THEM.

Fireplace should be secured to side framing members using the full length 1/2" nailing flanges that are integral to the appliance at each side. Use 8d nails or equivalent.

NOTE: The nailing tabs and the area directly behind the nailing tabs are exempt from the clearances described on the fireplace clearance label.



Step 4. Install Vent System and Exterior Termination

- A. Connect a 6" (152 mm) Type B vent system to the appliance flue collar with four (4) No. 8 sheet metal screws (**Figure 10**) and install the remainder of the Type B vent to the outside.
- B. The following venting configurations may be installed (**see Figure 11**):

① - **Vertical** - Minimum overall height of the vent system and appliance without an offset must be 12' (3.66 m)

② - **With Offset**

a. Minimum overall height of the vent system and appliance must be 12' (3.66 m) when an offset up to 45 degrees from the vertical is used. There must be a minimum vertical vent height of 2 ft (0.6 m) above the appliance collar before the offset can be applied.

b. Minimum overall height of the vent system and appliance must be 15' (4.57 m) when an offset, more than 45 degrees but less than 60 degrees from the vertical, is used. There must be a minimum vertical vent height of 2 ft (0.6 m) above the appliance collar before the offset can be applied.

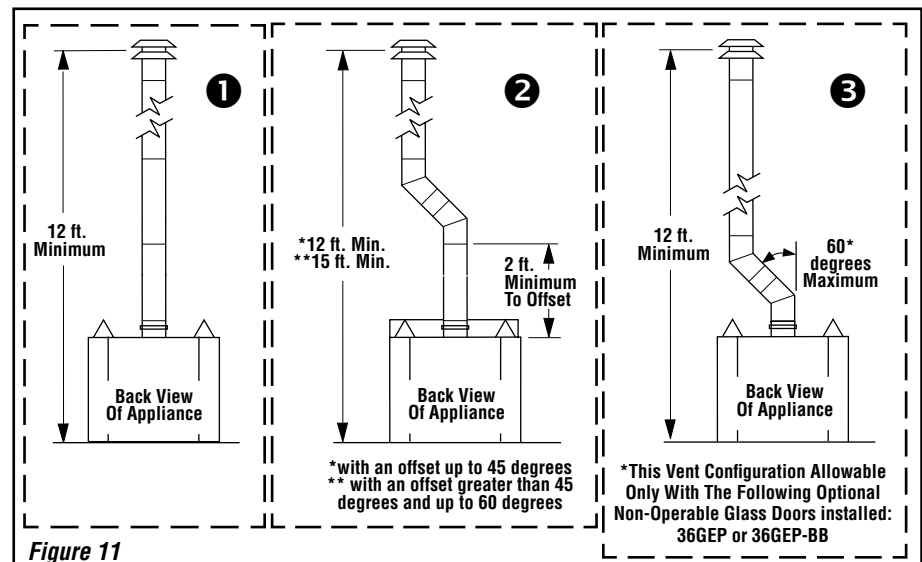
③ - **With Offset, when using the optional, 36GEP or 36GEP-BB, non-operable glass doors**

Minimum overall height of the vent system and appliance must be 12' (3.66 m) when an offset up to 60 degrees from the vertical is used. The lower part of the offset may start at the appliance flue collar.

Maximum overall height of the vent system and appliance should not exceed 40 feet (12.19 m).

Install the B-vent system in accordance with the vent manufacturer's instructions.

NOTE: Refer to the vent manufacturers installation instructions for variations of venting techniques. If common venting of several units is contemplated, it should be discussed with an architect and the local Building Department. Install the B-vent system in accordance with the vent manufacturer's instructions.



CAUTION

THIS APPLIANCE CANNOT BE VENTED HORIZONTALLY.

Step 5. Field Wiring; Install Optional Wall Switch

Refer to Section A, below, for millivolt appliances and Section B, below, for electronic appliances.

A. Millivolt Wiring

The gas valve has been set in place and has been pre-wired at the factory. No additional wiring is required unless the optional wall switch or optional remote control kit is to be installed. Locate the optional wall switch or optional remote control in the desired location and connect the millivolt wire (see Figure 12).

CAUTION: DO NOT CONNECT THE WALL SWITCH TO A 120V POWER SUPPLY.

NOTE: Optional wall switch not supplied. If the optional wall switch is not installed, the ends of the 15' coiled wire must be connected with a wire nut (not supplied) for the appliance to operate.

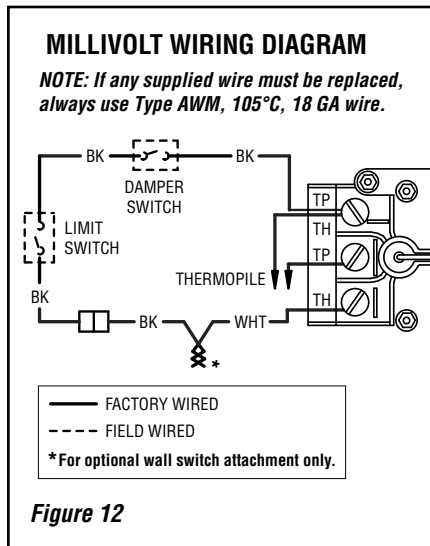


Figure 12

B. Electronic Wiring

The electronic appliance must be connected to the main power supply. To install:

1. Route a 3-wire 120V 60Hz power supply to the appliance junction box and ground. (See Figures 13 and 14).
2. Locate and install a low voltage (24V) wall switch (not supplied) in the desired location. Connect the low voltage wire to this switch (see Figure 13).
3. After wiring is complete, replace the appliance junction box cover and secure with the hex head screws previously removed.



CAUTION

Ground supply lead must be connected to the wire attached to the green ground screw located on the outlet box. See Figure 14. 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).

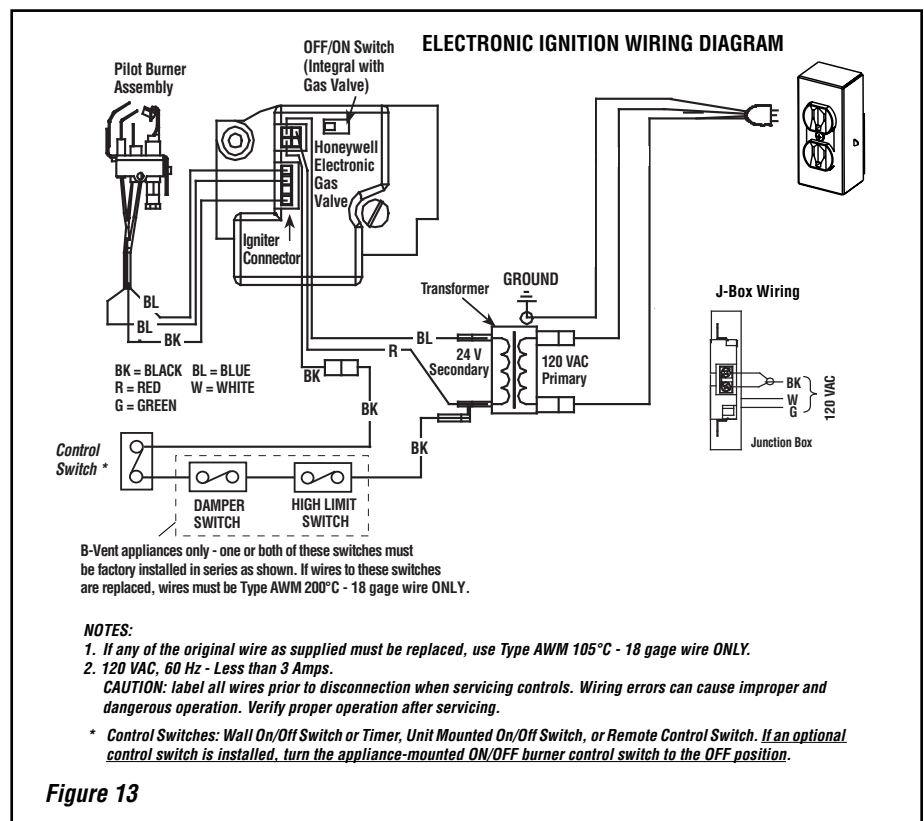
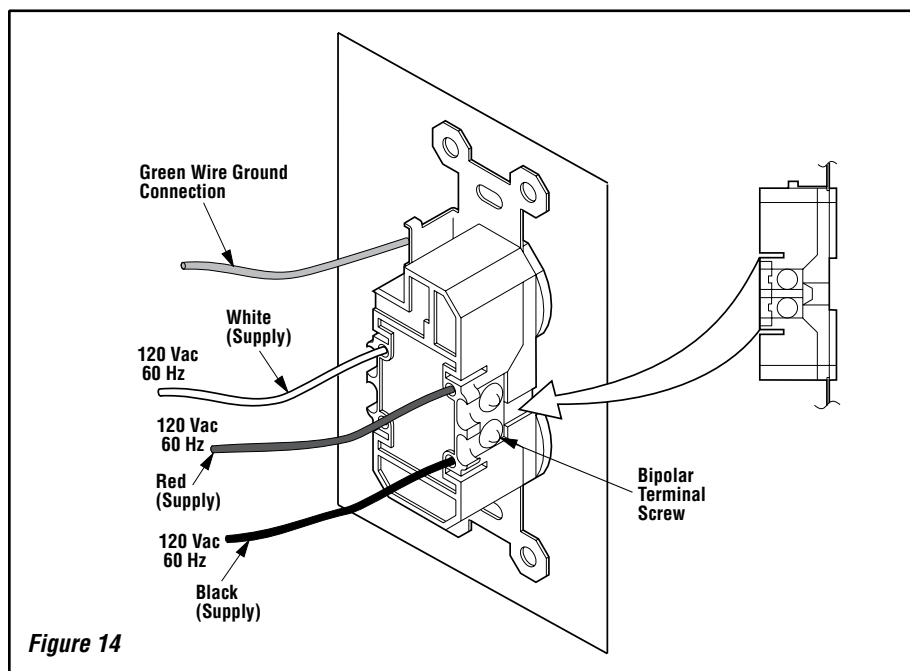


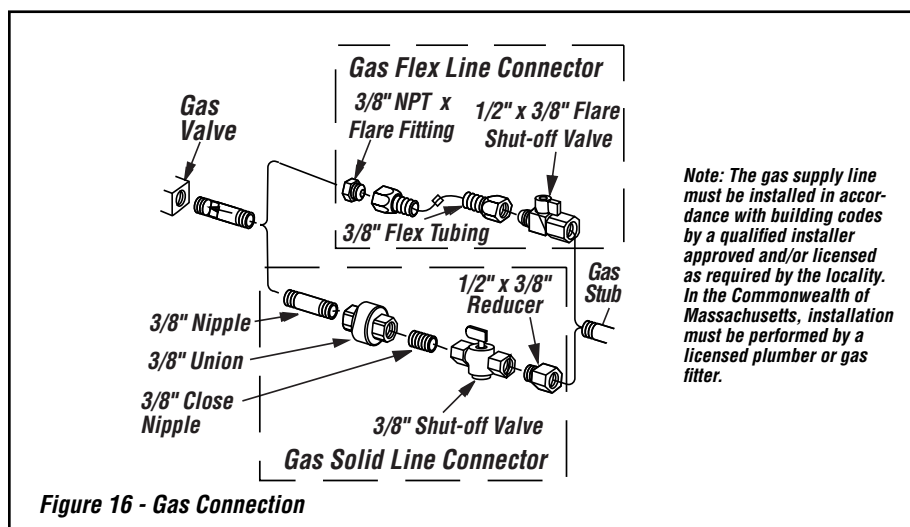
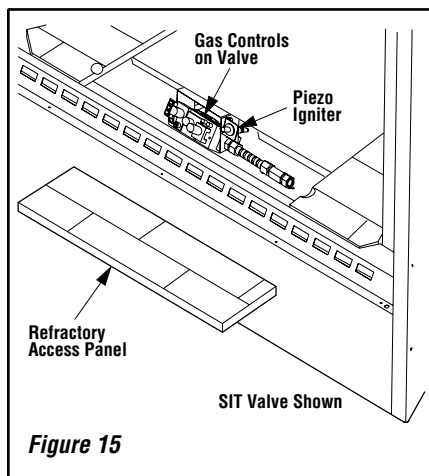
Figure 13

NOTE: Supply wires may be alternatively connected to the outlet using the screw terminals, however the black supply wire must be wired to a terminal that is opposite (across the outlet) the point where the white supply wire is connected.



Step 6. Connect to Gas Line

Make gas line connections. All codes require a shut-off valve mounted in the supply line. **Figure 16** 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. The gas control valve is located in the lower control compartment. To access the valve remove the refractory access panel and set aside (**Figure 15**).



The millivolt control valve has a 3/8" (10 mm) NPT thread inlet port.

The electronic control valve has a 1/2" (13 mm) NPT thread inlet port and is fitted with a 1/2" x 3/8" (13 mm x 10 mm) NPT fitting.

Both the millivolt and electronic models are fitted with a 3" (76 mm) long nipple, 3/8" NPT. Plan the connections accordingly.

Secure all joints tightly using appropriate tools and sealing compounds (ensure propane resistant compounds are used in propane applications).

TEST ALL CONNECTIONS FOR GAS LEAKS (FACTORY AND FIELD):

! 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 referred to as bubble leak solution).

NOTE: Using a soapy water solution (50% dish soap, 50% water) 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.

A. Light the appliance (refer to the lighting instructions label in the control compartment or in the Homeowner's Care and Operation Instructions).

B. 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 to the "OFF" position. Either tighten or refasten the leaking connection and retest as described above.

C. When the gas lines are tested and leak free, be sure to rinse off the leak testing solution.

D. When the gas lines are tested and leak free, observe the individual tongues of flame on the burner. Make sure all ports are open and producing flame evenly across the burner. If any ports are blocked, or partially blocked, clean out the ports.

Step 7. Install (Optional) Outside Air Kit

These appliances are equipped with an outside (make-up) air door and integral actuator arm. If the appliance is to be installed with an outside air vent system, use only Lennox Hearth Products Models FAOK-4 or FAOK-4LD Combustion Air Kits.

After completing the installation of the optional combustion air vent system the actuator arm must be put in service and tested to ensure proper operation before completing any enclosure around the firebox. Failure to do so may result in extensive and costly rework.

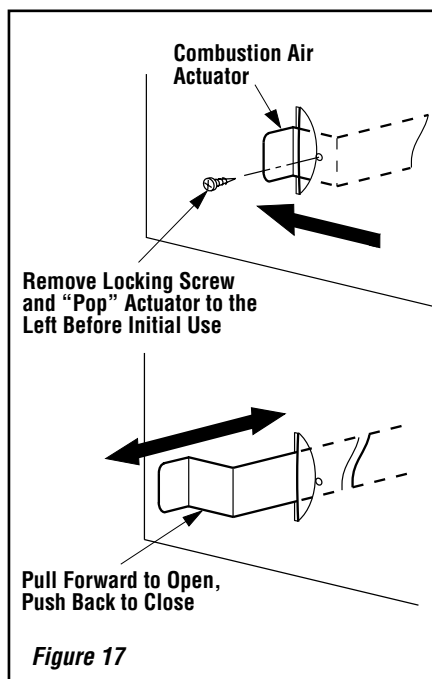
WARNING

DO NOT REMOVE THE ACTUATOR ARM LOCKING SCREW UNLESS THE COMPLETE OUTSIDE AIR VENT SYSTEM HAS BEEN INSTALLED IN ACCORDANCE WITH THE DETAILED INSTRUCTIONS PROVIDED WITH THE KIT.

Locate the actuator arm along the right side of the appliance firebox opening and refer to **Figure 17**. After completing the installation of the Outside Combustion Air Kit remove and discard the actuator arm locking screw.

To operate, push the end of the actuator to the left as shown in **Figure 17**, until it "pops" free of its "locked" position. Pull the actuator forward to open the combustion air door, and push it back to close. To "lock" the combustion air door closed, ensure the actuator is pushed all the way back then push the end of the actuator to the right until the step in the actuator moves behind the appliance front face within the slotted opening.

Operate the actuator through several cycles including the "lock" position. Ensuring proper operation and freedom of movement. Return the actuator arm to the locked position.



CAUTION

Never locate inlet where it can be blocked by shrubs, snow drifts, etc. Never locate inlet in garage or any area where there is another fuel burning appliance or products emitting combustible gases such as paint, gasoline, etc. In cold climates, it is recommended the outside air duct be insulated.

Step 8. Install Logs and Glowing Embers

The logs are packaged and boxed within the firebox. The bag of glowing embers is in the lower control compartment. Remove the glowing embers from the packaging and tear into quarter size pieces (see the Care and Operation Instructions).

Carefully position the ceramic fiber log assembly onto the burner, refer to the Care and Operation Instructions for detailed log description and placement instructions. Position the logs onto the pins of the burner, with the cutouts fitted around the burner tube. Ensure the rear log matches the cutout on its bottom with the position of the pilot.

WARNING

- **DO NOT attempt to install the logs until the appliance installation has been completed, the gas line connected and tested for leaks and the initial burner operation has been checked out.**
- **The size and position of the log set was engineered to give the appliance a safe, reliable and attractive flame pattern. Any attempt to use a different log set in the fireplace will void the warranty and will result in incomplete combustion, soot-ing, and poor flame quality.**
- **Logs get very hot and will remain hot up to one hour after gas supply is turned off. Handle only when logs are cool. Turn off all electricity to the appliance before you install grate and logs.**
- **This appliance is not designed to burn wood. Any attempt to do so could cause irreparable damage to the appliance and prove hazardous to your safety.**
- **If logs are not installed according to the log installation instructions, flame impingement and improper combustion could occur and result in soot and/or excessive production of carbon monoxide (CO), a colorless, odorless, toxic gas.**

Proper log placement is critical to prevent soot-ing. Carefully position the ceramic fiber logs over the burner as described in the following steps, and detailed in **Figures 18 through 23**.

NOTE: Logs should be placed in the gaps between the flame peaks and should be positioned so that at no time they impinge the flames.

Step 1. Remove the glowing embers (rockwool) from the packaging and tear into nickel size pieces. Spread the glowing embers evenly on top of the burner. Do not use more than is necessary. The glowing embers should not cover the burner ports, as shown in **Figure 18**.

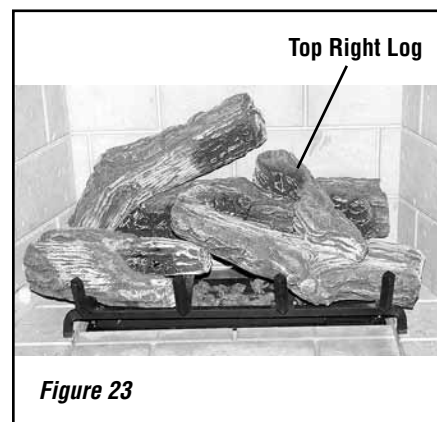
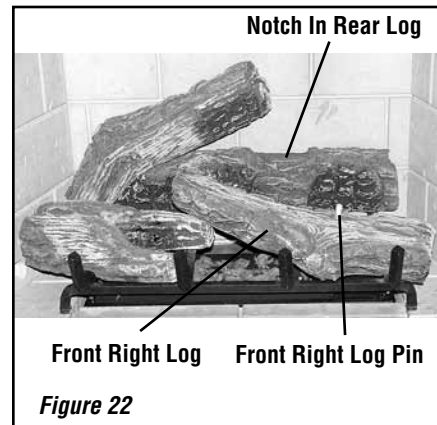
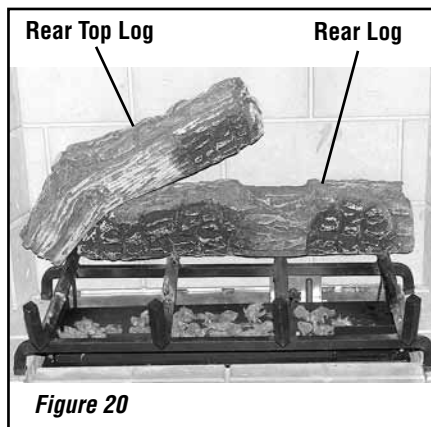
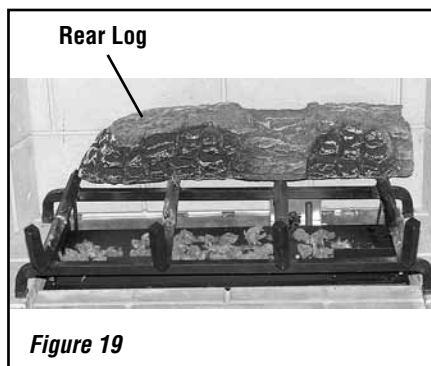
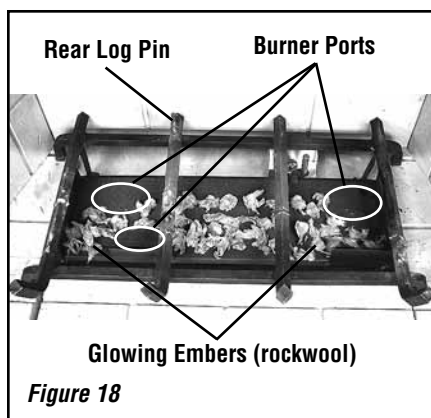
Step 2. Place the hole at the bottom of the Rear Log over the pin at the rear of the log grate, as shown in **Figure 19**. The log should rest against the back refractory.

Step 3. Place the Rear Top Log over the left side of the Rear Log. Lay the log over the top left corner of the Rear Log, as shown in **Figure 20**. The log should rest against the back refractory.

Step 4. Engage the bottom hole of the Front Left Log with designated pin on the grate, and align the bottom groove of the log over the far left grate bar. See **Figure 21**.

Step 5. Engage the bottom hole of the Front Right Log with designated pin on the far right grate bar. Align the groove on the bottom of the log over the far right grate bar. See **Figure 22**.

Step 6. Engage the bottom hole of the Top Right Log, over the pin on the Front Right Log. Rest the upper portion of the log in the notch of the Rear Log. See **Figure 23**.

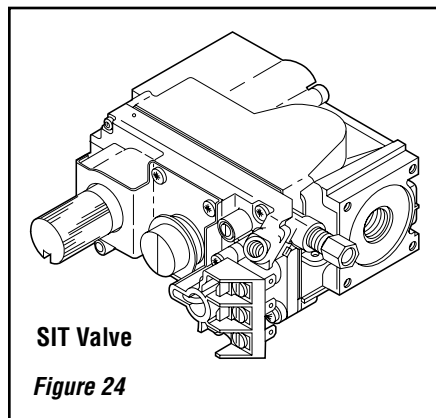


APPLIANCE OPERATION

Step 9. Check Appliance Operation

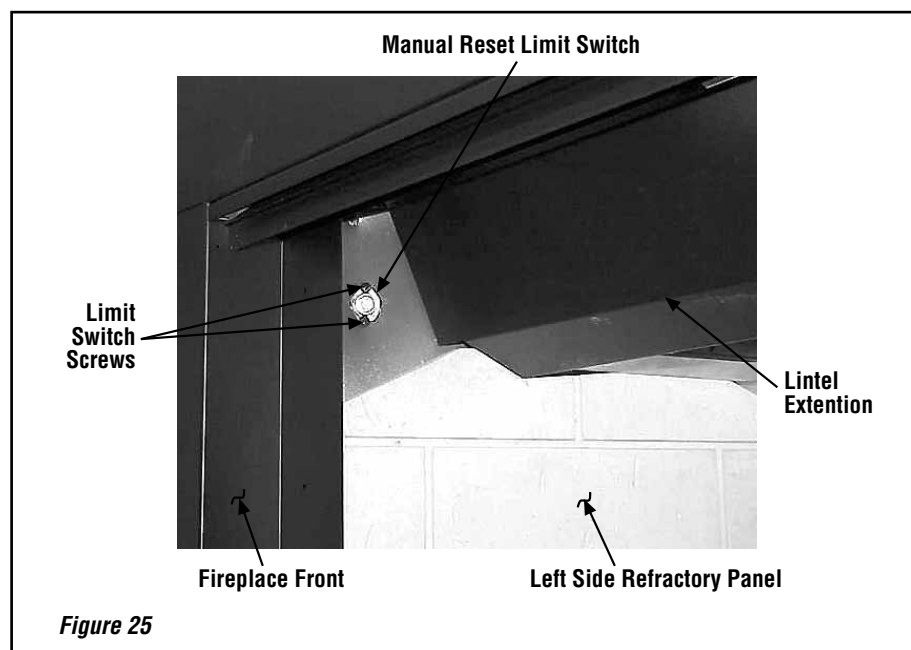
With the gas line installed, run initial system checkout before closing up the front of the unit. Follow the pilot lighting instructions provided in the Care and Operation Instructions. The piezo igniter is located in the control compartment (see **Figure 15**).

NOTE: Instructions are also found on the pull out labels attached to the gas control valve. The valve is shown in **Figure 24**.



When first lighting the appliance, it will take a few minutes for the line to purge itself of air. Once purging is complete, the pilot and burner will light and operate as indicated in the instruction manual.

Subsequent lightings of the appliance will not require such purging. Inspect the pilot flame (remove logs, if necessary, handling carefully).



Manual Limit Switch (manually-reset blocked flue safety switch)

This appliance is equipped with a manually-reset blocked flue safety switch. Refer to **Figure 25** for its location. If during appliance operation, the flame goes out (independently of the burner on/off wall switch), it may be due to the operation of this safety limit switch. First **allow the appliance to cool**. Then reset the safety switch by pushing the red reset button on the back of the switch.

CAUTION: THE ELECTRONIC APPLIANCE SHOULD BE TURNED OFF BEFORE REMOVING THE LIMIT SWITCH.

To access the safety limit switch reset button, remove the two screws. Pull out limit switch with low voltage wires attached, push the reset button, then reinstall the limit switch. At this time turn the electronic appliance back on.

The appliance should then relight and remain lit. If this does not occur, **turn off the appliance and call a qualified service technician**.

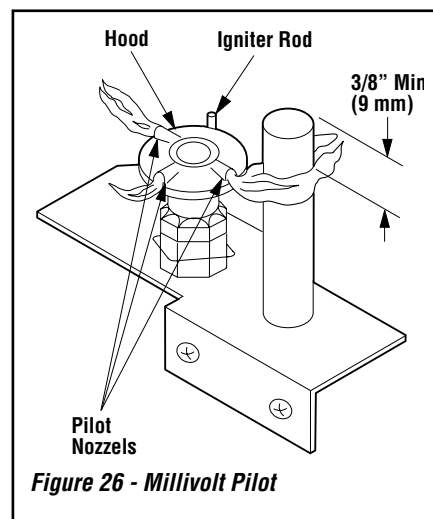
Millivolt Appliance Checkout

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" (9 mm) at the pilot generator (thermopile) should be engulfed in the pilot flame. The flame should project 1" (25 mm) beyond the hood at all three ports (**Figure 26**).

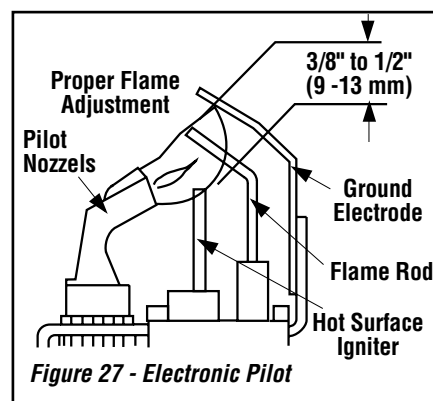
Replace logs if removed for pilot inspection.

To light the burner; turn "ON" the remote wall switch and rotate the gas valve control knob counterclockwise to the "ON" position ("ON" will be to the left hand side of the valve).



Electronic Appliance Checkout

To light the burner, turn "ON" the optional remote wall switch and turn the gas control switch to the "ON" position. Ensure the Igniter lights the pilot. The pilot flame should engulf the flame rod as shown in **Figure 27**.



Step 10. Burner Adjustments

Flame Appearance and Sooting

Proper flame appearance is a flame which is blue at the base and becomes yellowish-orange in the body of the flame.

When the appliance is first lit, the entire flame may be blue and will gradually turn yellowish-orange during the first 15 minutes of operation. After 15 minutes of operation, if the flame is 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, appliance 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 yellowish-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 there is smoke or soot 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 still exists, then the air shutter opening should be increased.
- The more offsets in the vent system, the larger the air shutter opening will need to be.
- An appliance 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 which candle or appear stringy. If this is present and persists, adjust the air shutter to a more closed position, then operate the appliance for a few more minutes to ensure that the flame normalizes and the flames do not appear sooty.

The following chart is provided to aid you in achieving the correct air shutter adjustment for your installation.

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

Burner Air Shutter Adjustment Procedure

WARNING

- Air shutter adjustment should only be performed by a qualified professional service technician.

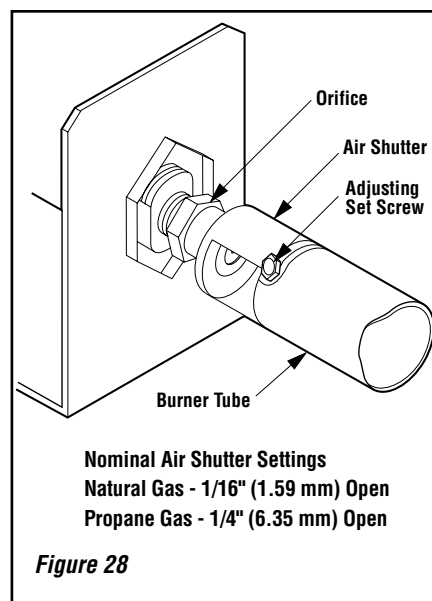
CAUTION

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

Burner Adjustment Procedure

To adjust the flame, position the air shutter to the nominal setting (**Figure 28**). Allow the burner to operate for at least 30 minutes. Observe the flame continuously. If it appears weak or sooty as previously described, adjust the air shutter open or closed until desired effect is achieved.

NOTE: If the flame still appears anemic with the air shutter closed all the way (usually a result of lengthy vertical venting runs), turn off the appliance, turn off the gas supply, wait for the parts to cool and access the air shutter. The shutter is prevented from actually closing by a tab that is bent over into the opening. Remove this obstruction by bending back. Reassemble and restart the appliance and after 30 minutes reobserve the flame. Adjust the air shutter as described.



When satisfied that the appliance operates properly, leave the control knob/lever in the "ON" position and turn the remote switch "OFF." Replace the refractory access panel.

STEP 11. ATTACHING SAFETY IN OPERATION WARNINGS

It is the installers 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 appliance.

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 (See **Figure A**) and if used on the remote control handheld transmitter (**Figure B**). To properly complete the installation of this fireplace, locate the multi-lingual adhesive labels provided with the Care and Operation Instructions and proceed as follows:

1. Locate the wall switch that controls the fireplace (verify the switch operates the fireplace by turning it on and off). Clean the wall switch plate 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**). 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 B**). 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 call Lennox Hearth Products or your nearest Lennox Hearth Products dealer to receive additional safety instruction labels free of charge.

Cat. No. H8024 Replacement Label Kit

LENNOX HEARTH PRODUCTS
1-800-655-2008

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 (voir **Figure A**) et, le cas échéant, sur le boîtier de la télécommande (**Figure B**). Pour achever l'installation correcte de ce foyer, procédez comme suit avec les étiquettes adhésives en langues étrangères fournies avec les instructions d'utilisation et d'entretien :

1. Repérez l'interrupteur 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 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**). 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 B**). 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 trouvez pas les étiquettes, veuillez appeler Lennox Hearth Products ou votre distributeur Lennox Hearth Products local pour recevoir gratuitement des étiquettes supplémentaires.

Étiquettes de remplacement, n° cat. H8024

LENNOX HEARTH PRODUCTS
1-800-655-2008

Remarque : 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 (ver la **Figura A**) y en el transmisor de control remoto (**Figura B**) si se usa. Para completar correctamente la instalación de esta chimenea, encuentre las etiquetas adhesivas multilingües incluidas con las instrucciones de cuidado y operación y haga lo siguiente:

1. Identifique el interruptor de pared que controla la chimenea (verifique que el interruptor opera la chimenea encendiéndola y apagándola). Limpie bien la placa del interruptor 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**). 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 límpielo bien para quitar el polvo y aceite. Pegue la etiqueta en la superficie del transmisor (**Figura B**). Seleccione el idioma que más se habla en la casa. Si no sabe cuál es, use la etiqueta en inglés.
3. Si no puede encontrar las etiquetas, sírvase llamar a Lennox Hearth Products o al distribuidor de Lennox Hearth Products más cercano para recibir etiquetas de instrucciones de seguridad adicionales gratuitas.

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

LENNOX HEARTH PRODUCTS
1-800-655-2008

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**

*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

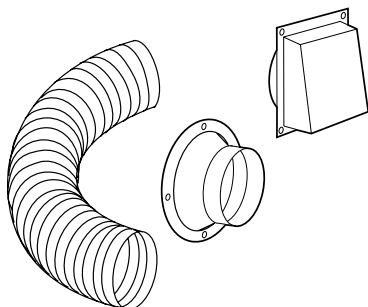


Figure B



INSTALLATION ACCESSORIES

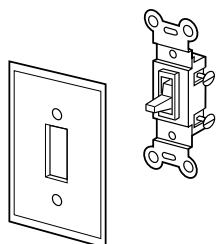
The following accessory items are available for use in the installation of this appliance.



Outside Combustion Air Kits		
Cat. No.	Model No.	Description
81L87	FOAK-4	(with duct)
81L88	FOAK-4LD	(without duct)

Outside Air Kits Models FOAK-4 and FOAK-4LD

Outside Air kits are available with duct (FOAK-4) and without duct (FOAK-4LD) for use if outside combustion air is required or desired. If model FOAK-4LD is used it must be used in conjunction with locally purchased, non-combustible Class 1 or Class 0 flexible duct.



OFF/ON Wall Switch Kit

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

White Wall Switch Kit		
Cat. No.	Model No.	Description
85L87	FWSK	OFF/ON Wall Switch Kit



Cost Effective Solution

- Simple On/Off operation
- Works with millivolt and low voltage electronic ignition controls

Kit includes:
Remote and Receiver

G-Fire Remote, Simple On/Off		
Cat. No.	Model No.	Description
H8840	KIT-RC-G-FIRE	Remote Control



Wall Control

- 4-button timer with 30/60/120/OFF minutes
- Wall surface mounted
- Connects to wall switch wire
- Perfect for rental and resort applications

Wall Switch, Countdown Timer		
Cat. No.	Model No.	Description
H8863	WS-S-TMR	Wall Switch



Manual or up to 3 hr Countdown Timer modes

- LCD display
- Displays room temp. in °F or °C
- Flame icon and low battery indicator
- Includes batteries
- Wall clip included
- Receiver may be wall mounted or placed in the control compartment
- Includes white face plate
- Flame icon
- Low battery indicator
- Batteries included

Remote, Two Button, Timer, On/Off Or Timer Mode		
Cat. No.	Model No.	Description
H8860	RC-S-1	Remote Control

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 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 JURISDICTION ET CONFORMÉMENT AUX EXIGENCES DU CODE D'INSTALLATION CAN/CGA-B149.1.

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

Kit part numbers are listed below and the following steps detail the conversion procedure.

Millivolt Conversion Kits

H5703 — Natural to Propane
H5704 — Propane to Natural

Electronic Conversion Kits

H5705 — Natural to Propane
H5706 — Propane to Natural

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

ATTENTION: AVANT D'EFFECTUER LA CONVERSION, COUPEZ D'ABORD L'ALIMENTATION EN GAZ, ENSUITE, COUPEZ L'ALIMENTATION ÉLECTRIQUE.

Step 1. TURN OFF THE GAS SUPPLY TO THE APPLIANCE and disconnect power supply at the circuit breaker. Ensure appliance is cold. Remove the front glass door/frame (if used) from the appliance. Access the control compartment.

Step 2. Carefully remove the logs. Exercise care as not to break the logs.

Step 3. Locate the screws securing the burner (tray) to the appliance. Remove the burner and retain the securing screws.

Millivolt Appliances

Step 4. SIT Systems - Refer to **Figure 29** and the instructions provided with the kit. Using a Torx T20, remove and discard the three pressure regulator mounting screws. Remove the pressure regulator, spring, poppet, diaphragm and bushing. **Discard all removed components.**

Ensure the rubber gasket installed on the back of the replacement pressure regulator is properly positioned and install the new pressure regulator using the new screws supplied with the kit. Tighten screws to 25 in-lbs of torque.

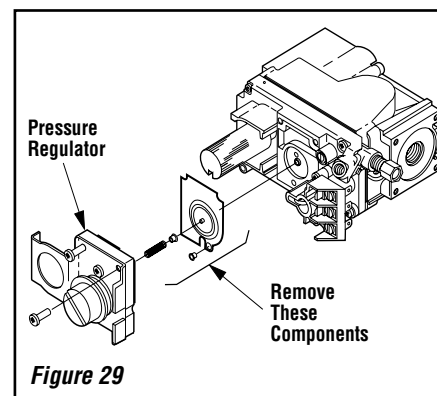


Figure 29

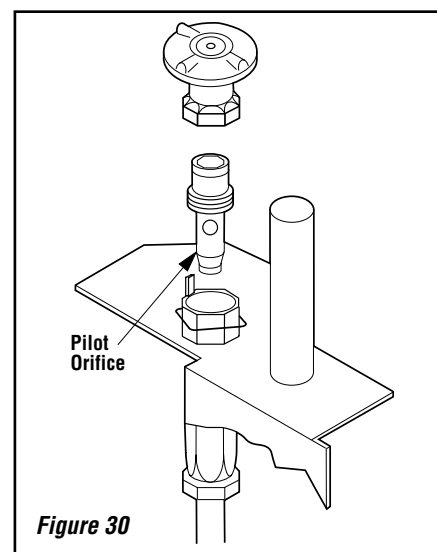


Figure 30

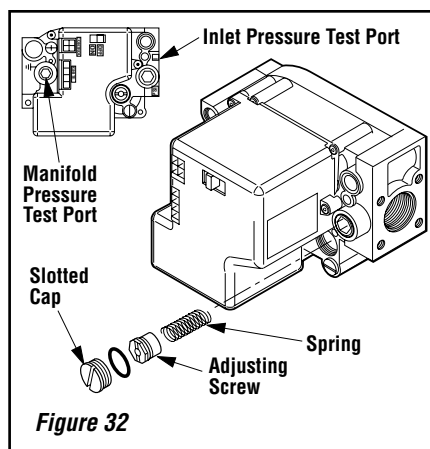
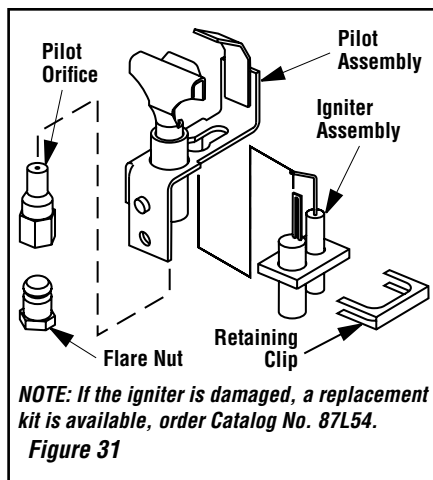
Step 5. All Millivolt Systems – Attach manometer to the manifold side pressure test fitting and verify manifold pressure reads 3.5" water column (0.87 kPa) for natural gas, and 10.0" water column (2.49 kPa) for propane gas.

Step 6. Refer to **Figure 30** and remove the pilot hood assembly to access the hexed pilot orifice. Remove and replace the orifice with the one provided with the kit.

Electronic Appliances

Step 7. Honeywell Electronic Valves - See **Figure 32** and the instructions provided with the kit. Remove the slotted cap screw, o-ring, pressure-regulating adjusting screw and spring. Retain all parts for possible later use. Install new components from the kit. Black cap and red spring for propane gas units. Silver cap and stainless steel spring for natural gas units.

Before installing the cap, attach manometer to the manifold side pressure test fitting and adjust screw until pressure reads 3.5" water column (0.87 kPa) for natural gas, and 10.0" water column (2.49 kPa) for propane gas.



See **Figure 31** and replace the pilot orifice as follows: Remove the igniter assembly retainer clip, and carefully remove the igniter assembly. Exercise extreme care to prevent damage to or breakage of the Igniter assembly. Remove the screw securing the pilot assembly to its mounting bracket. Back off the flare nut at the end of the pilot gas line to free the pilot assembly from the gas line. Remove the pilot orifice and replace it with the one provided with the conversion kit. Reinstall the pilot assembly by reversing the steps detailed here.

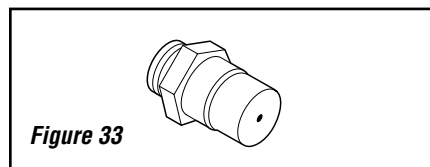
When reinstalling the igniter assembly, use extreme care to prevent damage and breakage. Do not apply any leverage to the igniter assembly while restoring the retainer clip to its original position.

All Models

Step 8. Unscrew the orifice from the manifold and replace it with the one provided with the kit, #42 (0.0935) for natural gas units and (0.058) for propane (see **Figure 33**).

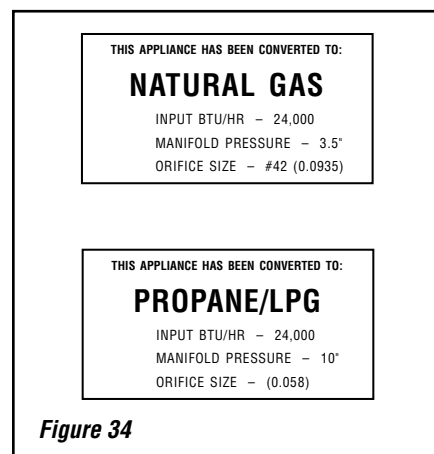
Burner Orifice Sizes (all models)		
Elevation Feet (meters)	Natural Gas drill size (inches)	Propane Gas drill size (inches)
0-4500 (0-1372)	#42 (0.0935") * H3721 •	(0.058")* 67L28 •

Table 5 * Standard size installed at factory
• Part /Cat. Number



Step 9. Reassemble all removed components by reversing the procedures outlined in the preceding steps. Use pipe joint compound or Teflon tape on all pipe fittings before installing (ensure propane resistant compounds are used in propane applications, do not use pipe joint compounds on flare fittings). Check for leaks (refer to **Page 11, Step 6**).

Step 10. Attach appropriate conversion kit label (see **Figure 34**) next to the rating plate on the appliance.



Step 11. Turn on gas supply and test for gas leaks.

Step 12. Attach manometer to the manifold side pressure test fitting and verify manifold pressure reads 3.5" water column (0.87 kPa) for natural gas, and 10.0" water column (2.49 kPa) for propane gas.

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