

INSTALLATION INSTRUCTIONS

B-Vent Gas Fireplaces 36" LMBV Models

MERIT SERIES

P/N 850040M Rev. C 07/2010

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 francais. Simplement en faire la demande numéro de la pièce 506223-23.



WH Report No. 3106807

MODELS

Millivolt Models

LMBV-36RMN

LMBV-36RMP

Electronic Models

LMBV-36REN

WARNING A AVERTISSEMENT

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.

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

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

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

- Ne pas entreposer ni utilizer 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 aucan 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 incindies.
- 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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We suggest that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

This installation manual will help you obtain a safe, efficient, dependable installation for your appliance and vent system.

Please read and understand these instructions before beginning your installation.

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.

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.

Installation must conform to local codes. In the absence of local codes, installation must comply with the current National Fuel Gas Code, ANSI Z223.1 (NFPA 54). (In Canada, the current CAN/CGA B149 installation code.) Electrical wiring must comply with local codes. In the absence of local codes, installation must be in accordance with the National Electrical Code, NFPA 70, latest edition. (In Canada, the current CSA C22.1 Canadian Electric Code.)

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.

A 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.

Massachusetts and New York Requirements

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.

NEW YORK CITY, NEW YORK (MEA)

Installation of these fireplaces are approved for installation in New York City in the US state of New York, if the following additional requirement is met:

 An outside air kit (FOAK-4 or FOAK-4LD) must be installed. See *Installation Acces-sories* on *page 13*.

GENERAL INFORMATION

Note: Installation and repair should be performed by a qualified service person. The appliance should be inspected annually by a qualified professional service technician. More frequent inspections and cleanings may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that the control compartment, burners and circulating air passage ways of the appliance be kept clean.

S'assurer que le brùleur et le compartiment des commandes sont propres. Voir les instructions d'installation et d'utilisation qui accompagnent l'apareil.

WARNING: THESE FIREPLACES ARE VENTED DECORATIVE GAS APPLIANCES. DO NOT BURN WOOD OR OTHER MATERIAL IN THESE APPLIANCES.

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

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

Ne pas se servir de cet appareil s'il a été plongé dans l'eau, complètement ou en partie. Appeler un technicien qualifié pour inspecter l'appareil et remplacer toute partie du système de contrôle et toute commande qui ont été plongés dans l'leau.

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.

Cet appareil peut être installé dans un maison préfabriquée (É.-U. seulement) ou mobile déjà installée à demeure si les réglements locaux le permettent. Cet appareil doit être utilisé uniquement avec les types de gaz indiqués sur la plaque signalétique. Ne pas l'utiliser avec d'autres gaz sauf si un kit de conversion certifié est installé.

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 THE PROPERLY GROUNDED THREE-PRONG RECEPTACLE. DO NOT CUT OR REMOVE THE GROUNDING PRONG FROM THE PLUG.

WARNING: CHILDREN AND ADULTS SHOULD BE ALERTED TO THE HAZARDS OF HIGH SURFACE TEMPERATURES. USE CAUTION AROUND THE APPLIANCE TO AVOID BURNS OR CLOTHING IGNITION. YOUNG CHILDREN SHOULD BE CAREFULLY SUPERVISED WHEN THEY ARE IN THE SAME ROOM AS THE APPLIANCE.

WARNING: DO NOT PLACE CLOTHING OR OTHER FLAMMABLE MATERIALS ON OR NEAR THIS APPLIANCE.

WARNING: FAILURE TO COMPLY WITH THE INSTALLATION AND OPERATING INSTRUCTIONS PROVIDED IN THIS DOCUMENT WILL RESULT IN AN IMPROPERLY INSTALLED AND OPERATING APPLIANCE, VOIDING ITS WARRANTY. ANY CHANGE TO THIS APPLIANCE AND/OR ITS OPERATING CONTROLS IS DANGEROUS. IMPROPER INSTALLATION OR USE OF THIS APPLIANCE CAN CAUSE SERIOUS INJURY OR DEATH FORM FIRE, BURNS, EXPLOSION OR CARBON MONOXIDE POISONING.

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 itserviced by a qualified professional, as it may not be operating correctly.

AVERTISSEMENT: SURVEILLER LES ENFANTS. GARDER LES VÊTEMENTS, LES MEUBLES, L'ESSENCE OU AUTRES LIQUIDES À VAPEUR INFLAMMABLES LOIN DE L'APPAREIL.

WARNING: THIS APPLIANCE MAY ONLY BE FITTED WITH DOORS CERTIFIED FOR USE WITH THE APPLIANCE. NO SUBSTITUTES ALLOWED.

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).

Test gage 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 gage connection is provided at the inlet and manifold side of the electronic gas control valve.

Minimum inlet gas pressure to the appliance is 4.5 inches water column (1.24 kPa) for natural gas and 11 inches water column (2.74 kPa) for propane for the purpose of input adjustment.

Maximum inlet gas supply pressure to the appliance is 10.5 inches water column (2.61 kPa) for natural gas and 13.0 inches water column (3.23 kPa) for propane.

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

The appliance and its individual shut-off valve must be disconnected from the gas supply piping system during any pressure testing of that system at pressures in excess of 1/2 psig (3.5 kPa).

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

Input of appliance is 24,000 BTU/HR.

Gas Type	Orifice Size	Elevation
Natural	#42 (.0935)	0 - 4500' (0 - 1370 m)
Propane	(.058)	0 - 4500' (0 - 1370 m)

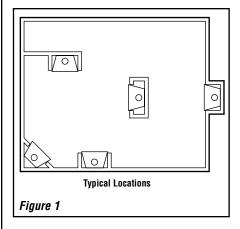
Nominal operating pressures for the manifold side of the gas control system are; 3.5 inches water column (0.87 kPa) for natural gas models and 10 inches water column (2.49 kPa) for propane gas models.

LOCATION

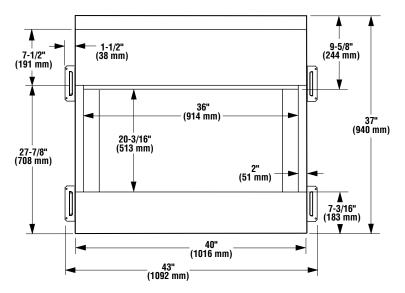
See *Figure 1*. In selecting the location, the aesthetic and functional use of the appliance are primary concerns. However, vent system routing to the exterior and access to the fuel supply are also important. **Due to high temperatures the appliance should be located out of traffic and away from furniture and draperies.** Consideration should be given to traffic ways, furniture, draperies, etc., due to elevated surface temperatures. The location should also be free of electrical, plumbing or other heating/air conditioning ducting.

The appliance should 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, etc., a metal or wood barrier covering the entire bottom surface must be used.

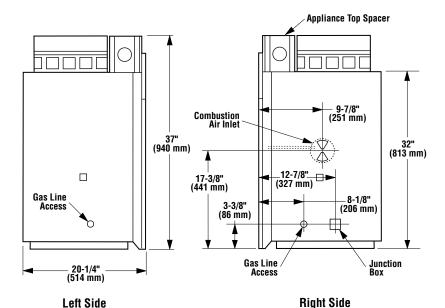
These appliances may be used for bedroom installations in the United States and are listed accordingly. These units may not be installed in bedrooms in Canada.



APPLIANCE SPECIFICATIONS



Front View



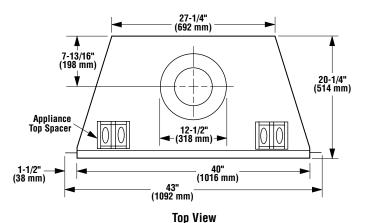


Figure 2

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).

Venting

Gas Vent Rule – Gas vent caps are not permitted within 8 feet (2.4 mm) of a vertical wall or similar obstruction. Gas vent caps that are located 8' 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 *Table 1* (Figure 3), provided that in no case shall any discharge opening on the cap be less than 2' (610 mm) horizontally from the roof surface (National Fuel Gas Code ANSI Z223.1 (NFPA 54) 7.6.2) (CAN/CGA B149).

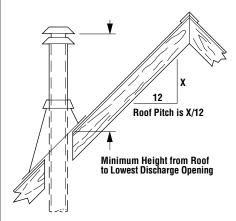


Figure 3

Roof Slope	Minimum Height from Roof to Lowest Discharge Opening	
	Feet	Meters
Flat to 6/12	1' 0"	0.3
Over 7/12 to 9/12	2' 0"	0.6
Over 10/12 to 12/12	4' 0"	1.2
Over 13/12 to 16/12	6' 0"	1.8
Over 17/12 to 21/12	8' 0"	2.4

Note: Venting terminals shall not be recessed into a wall or siding.

Table 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.

FIREPLACE INSTALLATION

TYPICAL INSTALLATION SEQUENCE

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

herein.			
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Installing the Fireplace:			
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010p	Framing page	6	
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Step 3.	Position Appliancepage	7	
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Step 4.	Install Vent System and	7	
04 5	Exterior Termination page	1	
Step 5.	Field Wiring; Install (Optional)	_	
	Wall Switchpage	8	
Step 6.	Connect to Gas Line page	8	
Step 7.	Install (Optional) Outside		
	Air Kitpage	9	
Step 8.	Install Logs and		
	Glowing Embers page	10	
Appliance	Operation:		
Step 9.	Check Appliance		
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	Manual Limit Switch page	10	
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	Electronic Checkout page	10	
Stop 10		11	
	Adjust Burnerpage	11	
Step 11. Attach "Safety-in-			
	Operation" Warnings page	12	

FRAMING SPECIFICATIONS

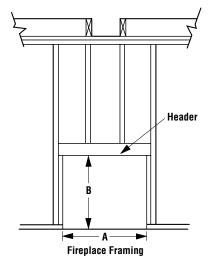


Figure 4

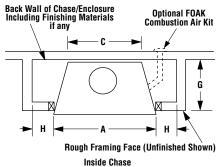


Figure 5

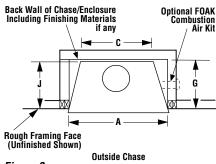


Figure 6

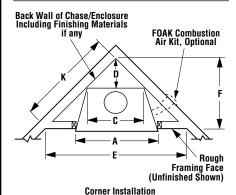


Figure 7

ure 7

Framing Dimensions

A	42-1/4"	1073 mm	
В	37-1/2"	953 mm	
С	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.

NOTE: DIAGRAMS & ILLUSTRATIONS ARE NOT TO SCALE.

PRE-INSTALLATION NOTES

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. 2×6 's, 2×8 's or 2×10 '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.

INSTALLING THE FIREPLACE

Step 1. Construct Appliance Framing

Frame appliance enclosure as illustrated in *Figures 4 through 7*.

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.

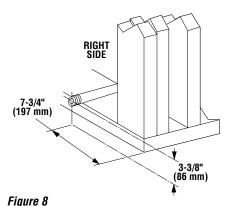
If the appliance is to be elevated above floor level, a solid continuous platform must be constructed.

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 8*. 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.) heaters 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 UNREGULATED 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

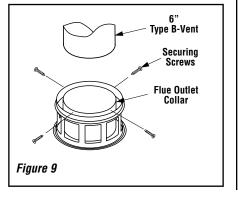
Slide the fireplace into prepared framing or position fireplace in its final position and frame later.

Refer to fireplace drawings and specifications on *pages 5 and 6* 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 2) 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 inch 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

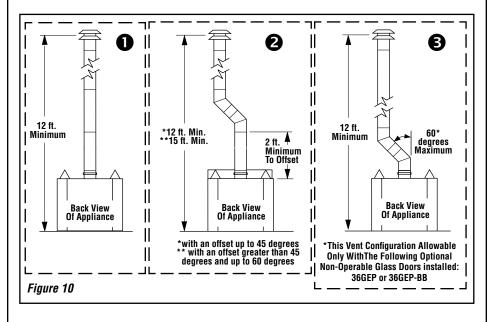
- A. Connect a 6" (152 mm) Type B vent system to the appliance flue collar with four (4) No. 8 sheet metal screws (Figure 9) and install the remainder of the Type B vent to the outside.
- **B.** The following venting configurations may be installed *(see Figure 10):*
 - • Vertical Minimum overall height 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.

CAUTION: THIS APPLIANCE CANNOT BE VENTED HORIZONTALLY.

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.

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 11).

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.

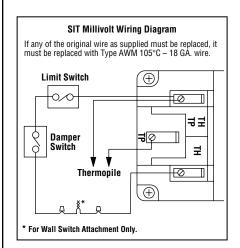


Figure 11

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 12 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 12).
- **3.** After wiring is complete, replace the appliance junction box cover and secure with the hex head screws previously removed.

IMPORTANT: Ground lead must be connected to the green screw located on the outlet box. See Figure 12. 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/NFPA70-(latest edition). (In Canada, the current CSA C22-1 Canadian Electrical Code.)

Electronic Wiring Diagram (Honeywell) (Optional ON/OFF Switch Wiring) 1. If any of the original wire as supplied must be replaced, it must be replaced with Type AWM 200°C – 18 GA. wire. 2. 120V, 60Hz – Less than 3 amps. Gas Valve PILOT OPT. ACCESSORY SWITCH S

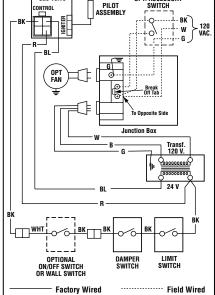
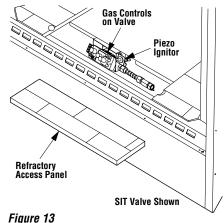


Figure 12

Step 6. Connect to Gas Line

Make gas line connections. All codes require a shut-off valve mounted in the supply line. *Figure 15* 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 13)*.



riyure io

The millivolt control valve has a 3/8" (10mm) 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).

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. **Never use an open flame to check for leaks.**

- **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.

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.

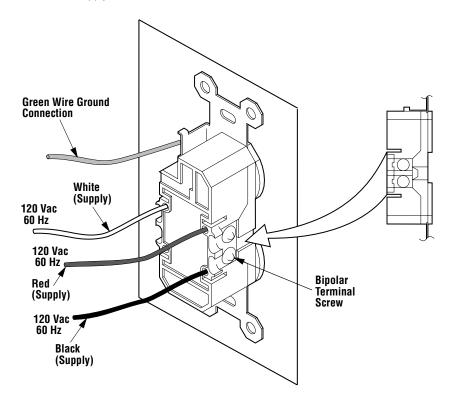
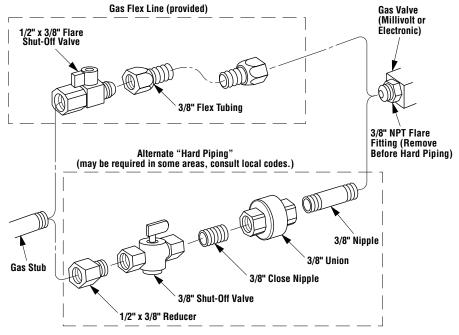


Figure 14



Note: 1/2" NPT At Inlet Of Gas Valve For Electronic Models.

Figure 15

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 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 16*. After completing the installation of the Outside Combustion Air Kit remove and discard the actuator arm locking screw.

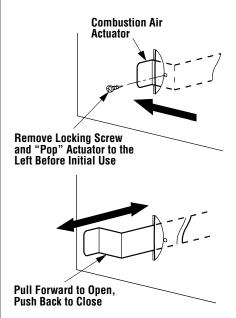


Figure 16

To operate, push the end of the actuator to the left as shown in *Figure 16*, 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 actuators 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.

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.

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 ignitor is located in the control compartment (see *Figure 13*).

Note: Instructions are also found on the pull out labels attached to the gas control valve. The valve is shown in **Figure 17**.

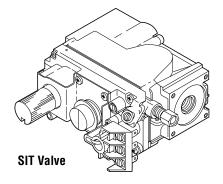
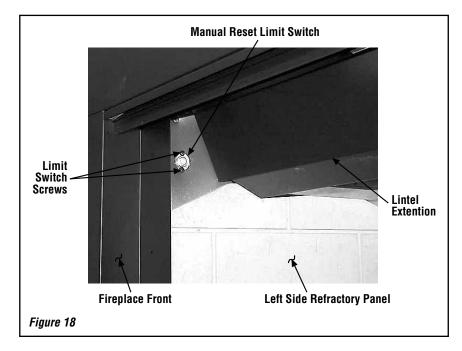


Figure 17

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 18* 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 19*).

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).

NOTE: DIAGRAMS & ILLUSTRATIONS ARE NOT TO SCALE.

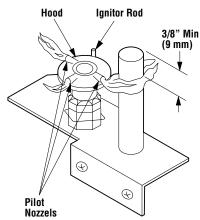


Figure 19: Millivolt Pilot

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 ignitor lights the pilot. The pilot flame should engulf the flame rod as shown in *Figure 20*.

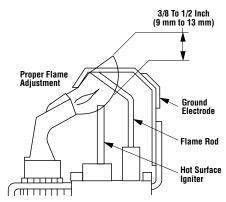


Figure 20: Electronic Pilot

Step 10. Adjust Burner

The following paragraphs address adjustment concerns and procedures.

Flame Appearance and Sooting

Proper flame appearance is a matter of taste. Generally most people prefer the warm glow of a yellow to orange flame. Appliances operated with air shutter openings that are too large, or with long vertical vent runs, will exhibit flames that are blue and transparent. These weak, blue and transparent flames are termed anemic.

If the air shutter opening is too small 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 a lack of combustion air entering the air shutter opening.

To achieve a warm yellow to orange flame with an orange body that does not soot, the shutter opening must be adjusted between these two extremes.

No smoke or soot should be present. Reposition the log set if the flames impinge on any of them.

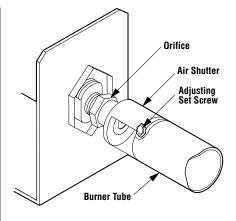
If sooting conditions exist, the air shutter opening on the main burner can be adjusted. Normally, the more offsets in the vent system, the greater the need for the air shutter to be opened further.

WARNING: AIR SHUTTER ADJUSTMENT SHOULD ONLY BE PERFORMED BY A QUALIFIED PROFESSIONAL SERVICE TECHNICIAN.

Adjustment

To adjust the flame, position the air shutter to the nominal setting *(Figure 21)*. 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.



Nominal Air Shutter Settings Natural Gas - 1/16" (1.59 mm) Open Propane Gas - 1/4" (6.35 mm) Open

Figure 21

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

Step 11. ATTACH "SAFETY-IN-OPERATION" WARNINGS

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 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 (Figure A) and if used on the remote control handheld transmitter (see 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:

- 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
- 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.
- 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 1-800-9-LENNOX

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

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 :

- 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.
- 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.
- 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 1-800-9-LENNOX

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

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:

- 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.
- 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.
- 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 - Nº de cat. H8024

LENNOX HEARTH PRODUCTS 1-800-9-LENNOX

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

SAFETY LABEL DIAGRAMS / DIAGRAMMES DES ÉTIQUETTES DE SÉCURITÉ / DIAGRAMAS DE ETIQUETAS DE SEGURIDAD

▲WARNING

Hot Fireplace Will Cause Severe Burns

Never Allow Children to Touch Glass or other Fireplace Parts

AAVERTISSEMENT

Un foyer chaud peut causer de graves brûlures

Ne laissez jamais un enfant toucher à la vitre ou à toutes autres parties du foyer

A ADVERTENCIA

La chimenea caliente causará quemaduras graves

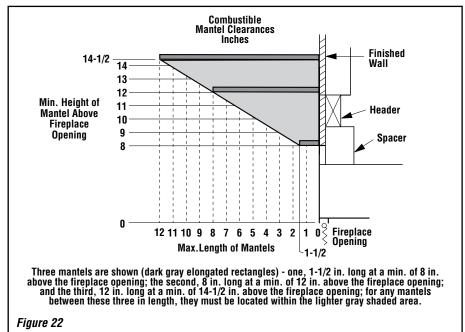
Nunca permita que los niños toquen el vidrio ni otras partes de la chimenea

Figure A



Figure B

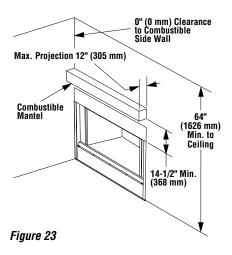




Wall Details and Combustible Mantels

FINISHING REQUIREMENTS

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 22*). This figure also indicates vertical installation clearances to combustible mantels. *Figure 23* 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.



A hearth extension is not required with this appliance. Any hearth extension used is for appearance only and does not have to conform to standard hearth extension installation requirements.

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 front face.

COLD CLIMATE INSULATION

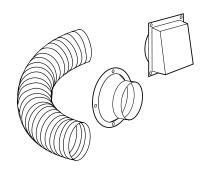
If you live in a cold climate, seal all cracks around your appliance with noncombustible material and wherever cold air could enter the room. It is especially important to insulate outside chase cavity between studs and under floor on which appliance rests, if floor is above ground level.

INSTALLATION ACCESSORIES

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

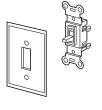
Outside Air Kits Models FOAK-4 and FOAK-4LD

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.



Outside Combustion Air Kits (with duct) 8 (without duct) 8

81L87 81L88 FOAK-4 FOAK-4LD



Wall Switch Kit

85L87

FWSK

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 AUTHORIZED AGENCY 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 INSTALLATION IS NOT PROPER AND COMPLETE UNTIL THE OPERATION OF THE CONVERTED APPLIANCE IS CHECKED AS SPECIFIED IN THE OWNER INSTRUCTIONS SUPPLIED WITH THE KIT.

AVERTISSEMENT: CET ÉQUIPEMENT DE CONVERSION SERA INSTALLÉ PAR UNE AGENCE QUALIFIÉE DE SERVICE CONFORMÉMENT AUX INSTRUCTIONS DU FABRICANT ET TOUTES EXIGENCES ET CODES APPLI-CABLES DE L'AUTORISÉS AVOIR LA JURIDICTION. SI L'INFORMATION DANS CETTE INSTRUCTION N'EST PAS SUIVIE EXACTEMENT, UN FEU, EXPLOSION OU PRODUC-TION DE PROTOXYDE DE CARBONE PEUT RÉSULTER LE DOMMAGES CAUSER DE PROPRIÉTÉ, PERTE OU BLES SURE PERSONNELLE DE VIE. L'AGENCE QUALIFIÉE DE SERVICE EST ESPONSABLE DE L'INSTALLATION PROPRE DE CET ÉQUIPMENT. L'INSTALLATION N'EST PAS PROPRE ET COMPLÉTE JUSQU'À L'OPÉRATION DE L'APPAREIL CONVERTI EST CHÉQUE SUIVANT LES CRITÈRES ÉTABLIS DANS LES INSTRUCTIONS DE PRO-PRIÉTAIRE PROVISIONNÉES AVEC L'ÉQUIPEMENT.

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 CAN1-B149.1 AND .2 INSTALLATION CODE.

LA CONVERSION DEVRA ÊTRE EFFECTUÉE CONFORMÉMENT AUX RECOMMANDATIONS DES AUTORITÉS PROVINCIALES AYANT JURIDICTION ET CONFORMÉMENT AUX EXIGENCES DU CODE D'INSTALLATION CAN1-B149.1 ET.2.

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 **Step 1.** Turn off the gas supply to the appliance. 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 24* 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. lb. torque.

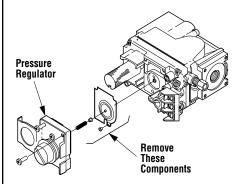


Figure 24

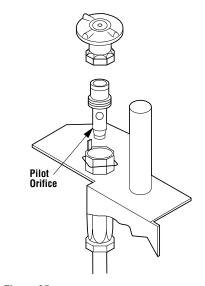


Figure 25

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

Step 6. Refer to *Figure 25* 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 27 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 fro natural gas units.

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

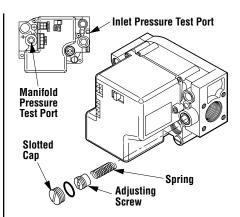
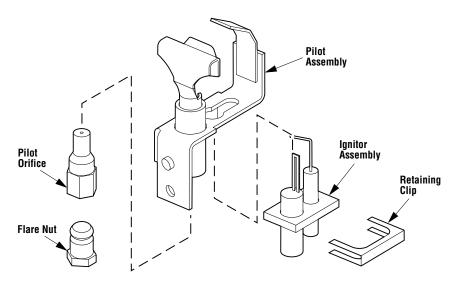


Figure 27

See *Figure 26* and replace the pilot orifice as follows: Remove the ignitor assembly retainer clip, and carefully remove the ignitor assembly. Exercise extreme care to prevent damage to or breakage of the ignitor 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.



Note: If the ignitor assembly is damaged, a replacement kit is available; order Catalog Number 87L54.

Figure 26

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

All Models

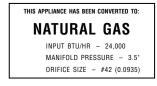
Step 8. Unscrew the orifice from the manifold and replace it with the one provided with the kit, #42 (0.0935) for natural gas units and (0.058) for propane *(see Figure 28)*.



Figure 28

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 8**, **Step 6**).

Step 10. Attach appropriate conversion kit label *(see Figure 29)* next to the rating plate on the appliance.



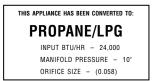


Figure 29

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

Notes

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

