

This Owner's Manual is provided and hosted by [Appliance Factory Parts](#).



LENNOX HEARTH DBV Owner's Manual

[Shop genuine replacement parts for LENNOX HEARTH
DBV](#)



[Find Your LENNOX HEARTH Fireplace Parts - Select From 237 Models](#)

----- Manual continues below -----



INSTALLATION AND OPERATION MANUAL

B-Vent Gas Fireplace Inserts

ELITE™ SERIES

Retain These Instructions For Future Reference

P/N 775,220M Rev. A, 05/2007

A French manual is available upon request. Order P/N 775,220CF.
Ce manuel d'installation est disponible en français, simplement
en faire la demande. Numéro de la pièce 775,220CF.

In the Commonwealth of Massachusetts:

- Installation must be performed by a licensed plumber or gas fitter
- See Table of Contents for location of additional Commonwealth of Massachusetts requirements

Tested &
Listed By  Beaverton
Oregon USA
OMNI-Test Laboratories, Inc.
Report No. 050-S-6c-5



Designer™ (DBV)



WARNINGS

- **Hot! Do not touch!** The glass and surfaces of this appliance will be hot during operation and will retain heat for a while after shutting off the appliance. Severe burns may result.
- Carefully supervise children in the same room as appliance.
- Suitable for installation into masonry or factory built fireplaces. These appliances may be installed in an after-market permanently located, manufactured (mobile) home, where not prohibited by local codes. This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases unless a certified kit is used.
- Lennox™ gas-burning appliances are designed for use as a supplemental heater. They are not intended for continuous use as a primary heat source.

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

FOR YOUR SAFETY

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

WHAT TO DO IF YOU SMELL GAS:

- **DO NOT** light any appliance.
- **DO NOT** touch any electrical switches.
- **DO NOT** use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow your gas supplier's instructions.
- If your gas supplier cannot be reached, 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.

POUR VOTRE SÉCURITÉ: Ne pas entreposer ni utiliser d'essence ni d'autres vapeurs ou liquides inflammables à proximité de cet appareil ou de tout autre appareil.

POUR VOTRE SÉCURITÉ: Que faire si vous sentez une odeur de gaz:

- Ne pas tenter d'allumer d'appareil.
- Ne touchez à aucun interrupteur.
- Ne pas vous servir des téléphones se trouvant dans le bâtiment
- Appelez immédiatement votre fournisseur de gaz depuis un voisin. Suivez les instructions du fournisseur.
- Si vous ne pouvez rejoindre le fournisseur 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.

Table of Contents

CAUTIONS & SAFETY	3
ORIFICE SIZE / ALTITUDE ADJUSTMENT	4
FIREPLACE REQUIREMENTS	4
CODES & APPROVALS	4
REQUIREMENTS FOR THE COMMONWEALTH OF MASSACHUSETTS	4
PRE-INSTALLATION	5-7
FEATURES	5
PACKAGING LIST	5
RATINGS	5
INSERT & FIREPLACE DIMENSIONS	6
CLEARANCES TO COMBUSTIBLES	7
INSERT LEVELING	7
INSTALLATION	8-11
VENTING INSTALLATION	8
FLUE COLLAR CONNECTION	8
EXTENDED DRAFT HOOD	8
ZERO CLEARANCE FIREPLACE INSTALLATION	9
LOG SET & EMBER INSTALLATION	9
SURROUND PANELS INSTALLATION	11
FACE INSTALLATION	11
GAS LINE INSTALLATION	12
GAS PRESSURE REQUIREMENTS	12
GAS SUPPLY LINE SIZING	12
LP & NATURAL GAS SUPPLIES	13
AIR SHUTTER ADJUSTMENT	13
OPERATING INSTRUCTIONS	14-17
PRE-LIGHTING CHECKLIST	14
LIGHTING INSTRUCTIONS	14
FLAME COLOR & BEHAVIOR	15
REPLACING BURNER ORIFICES	15
PAINT CURING	16
QUIET OPERATION	16
“ON-OFF” SWITCH AND THERMOSTAT	16
PILOT ADJUSTMENT	16
MILLIVOLT CONTROL SYSTEM	17
MAINTENANCE & SERVICING	18-20
MAINTENANCE CHECKLIST	18
GLASS MAINTENANCE	18
DOOR REMOVAL	19
BLOWER REMOVAL	19
FUEL CONVERSION & CASSETTE INSTALLATION	20
TROUBLESHOOTING	21
REPLACEMENT PARTS	22
INSERT LABELS	23-24
PRODUCT REFERENCE INFORMATION	25



CAUTIONS & SAFETY



- ◆ **FOR YOUR SAFETY** do not install or operate your Designer™ gas insert without first reading & understanding this manual. Any installation or operation of the appliance deviating from that which is stated in this manual **WILL** void the warranty & may be hazardous.
- ◆ **INSTALLATION & REPAIR SHOULD ONLY BE DONE BY A QUALIFIED SERVICE TECHNICIAN. DO NOT ATTEMPT TO SERVICE THE APPLIANCE YOURSELF.**
- ◆ The insert should be inspected & cleaned before use & at least annually by a qualified service technician. More frequent cleaning may be required due to excessive lint from bedding material, carpeting, etc.
- ◆ It is imperative that control compartments, burners, & circulating air passageways of the room heater be kept clean.
- ◆ Adequate clearances around the combustion chamber and accessibility clearances for servicing & proper operation must be maintained.
- ◆ Turn off the gas before servicing this appliance. It is recommended that a qualified service technician perform an appliance check-up at the beginning of each heating season.
- ◆ All installations must conform with all local, state, & national codes. In the absence of local codes, the installation must conform with National Fuel Gas Code ANSI Z223.1-latest edition, also known as NFPA 54 (In Canada, the current CAN/CSA B149.1 installation code). Refer to the National Fuel Gas Code & local zoning & code authorities for details on installation requirements. Your Designer gas insert must be vented to the outside in accordance with the latest edition of the National Fuel Gas Code.
- ◆ This gas insert **MUST** be vented directly to the outside & **MUST NEVER** be attached to a chimney serving a separate solid fuel burning appliance. Each gas appliance **MUST USE** a separate vent system. Common vent systems are **PROHIBITED**.
- ◆ 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. Contact your dealer if you suspect such a situation exists.
- ◆ Mobile home installations must conform with the Mobile Home Construction and Safety Standard, Title 24 CFR, Part 3280 (in Canada CAN/CSA Z240 MH), or, when such a standard is not applicable, the Standard for Mobile Home Installations, ANSI A225.1 - latest edition.
- ◆ The appliance, when installed, must be electrically grounded in accordance with local codes or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70 - latest edition. In Canada, the current CSA C22-1 Canadian Electrical Code - latest edition.
- ◆ Your Lennox™ gas insert must be equipped for the proper fuel type & altitude at which it will be operated. Any operation outside the parameters outlined in this manual may result in a hazardous condition & will void the warranty. Please carefully read the sections pertaining to these subjects and/or be sure your appliance is properly equipped.
- ◆ Do not use this insert if any part has been under water. Immediately call a qualified service technician to inspect the appliance & to replace any part of the control system & any gas control which has been under water.
- ◆ Due to high temperatures, the insert should be located out of traffic areas & away from furniture & draperies.
- ◆ Children & adults should be alerted to the hazards of high surface temperature & should stay away to avoid burns or clothing ignition. Young children should be carefully supervised when they are in the same room as the Lennox gas insert. Clothing or any other flammable material should not be placed on or near the insert.
- ◆ Never use solid fuels such as wood, paper, cardboard, coal, or any flammable liquids, etc., in this appliance.
- ◆ Any grill, panel, or glass removed for service **MUST** be replaced prior to operating the insert. Do not operate appliance with the glass front removed, cracked or broken. Replacement of the glass should be done by a qualified service technician.
- ◆ **DO NOT USE** abrasive cleaner on the glass door assembly. **DO NOT ATTEMPT** to clean the glass door when it is hot.
- ◆ Gold & nickel plated surfaces must be cleaned with glass cleaner & a clean soft cloth before firing the first time or fingerprints will remain permanently. **NEVER** use brass polish to clean gold or nickel, this will remove the plating!!!
- ◆ When opening the lower door on the face while the insert is burning, pull at the far left or far right vent openings, because the door is hot during operation.
- ◆ Lennox Hearth Products, its employees, or any of its representatives assume no responsibility for any damages caused by an inoperable, inadequate, or unsafe condition as a result of any improper operation, service or installation procedures, whether direct or indirect.
- ◆ **INSTALLER: THESE INSTRUCTIONS ARE TO REMAIN WITH THE HOME OWNER!**

Orifice Size/Altitude Adjustment

For altitudes above 2,000 feet (In Canada 4,500 FT/1370 M), the orifice should be de-rated by 4% for every 1,000 feet to maintain the proper ratio of gas to air. Improper orifice sizing may result in damage and unsafe conditions. Changing the orifice should only be done by a qualified service technician. Contact your Lennox Hearth Products dealer for proper orifice sizes. (see Page 15 for more information)

The Designer™ Insert

- Must conform with all local, state, and national installation codes. In the absence of local codes, the installation must conform with National Fuel Gas Code ANSI Z223.1 - latest edition, also known as NFPA 54 (In Canada, the current CAN/CSA B149.1 installation code). Refer to the National Fuel Gas Code and local zoning and code authorities for details on installation requirements.
- Must conform with the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280 (in Canada CAN/CSA Z240 MH), or when such a standard is not applicable, the Standard for Manufactured Home Installations, ANSI A225.1 - latest edition for manufactured (mobile) home installations.
- Must be vented directly to the outside in accordance with the latest edition of the National Fuel Gas Code and must never be attached to a chimney serving a separate solid fuel burning 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. Contact your dealer if you suspect such a situation exists.
- Has been certified for use with either natural gas or propane.
- Is not for use with solid fuels.
- Is approved for sitting rooms and/or bedrooms.

Fireplace Requirements

These heaters are designed to be installed into an existing masonry fireplace (built to UBC 37 or ULC S628 standards) or factory built solid fuel, wood burning fireplace (listed to UL 127 or ULC S610) only. All exhaust gases must be vented outside the structure. Combustion air is drawn from outside the structure. When installing in a factory built fireplace, the fireplace grate must be removed and the damper must be removed or secured open.

If the factory-built fireplace has no gas access hole(s) provided, an access hole of 1-1/2 inches (38 mm) or less may be drilled through the lower sides or bottom of the firebox in a proper workmanship like manner. This access hole must be plugged with a non-combustible insulation after the gas supply line has been installed. The installer must mechanically attach the marking supplied with the gas fireplace insert to the inside of the firebox of the fireplace into which the gas fireplace insert is installed.

IMPORTANT: When installing these appliances into a factory built fireplace or heat-form, the air flow within and around the fireplace shall not be altered by the installation of the insert (i.e. DO NOT BLOCK louvers or cooling air inlet or outlet ports, circulating air chambers in a steel fireplace liner or metal heat circulator).



Codes & Approvals

CERTIFICATION

Gas appliances must be tested and certified by a nationally recognized testing and certification laboratory to ANSI (American National Standard Institute) gas appliance safety standards.

This insert has been tested and certified by OMNI -Test Laboratories to ANSI Z21.88-2005/CSA 2.33-2005 Standard for Vented Gas Fireplace Heater and CGA 2.17-M91 and UL 307B Gas Burning Heating Appliances for Manufactured (Mobile) Homes.

It has met all necessary ANSI Standards and is fully certified for installation in any community. If there are any questions or if you need further substantiation either write to or call your Lennox Hearth Products dealer. If you have further questions, please contact Lennox Hearth Products.

COMMONWEALTH OF MASSACHUSETTS REQUIREMENTS

Installation of these fireplaces are approved for installation in the US state of Massachusetts if the following additional requirements are met -

- 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.

Pre-Installation

FEATURES

Installation Options

Residential - Vented Vertical Only
 Manufactured (Mobile) Home
 Natural Gas Or Propane (LP)
 Bedrooms
 Optional Wall-mounted Or Remote Thermostat

Electrical

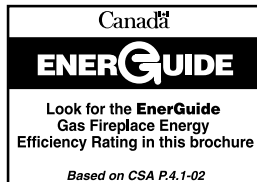
The fan motor requires 120 Volts AC for operation. The fireplace is not dependent on the fan or an outside electrical supply to operate.

Millivolt Valve

This insert is operated with a millivolt valve and therefore burns even during a power outage.

Fuel

This insert comes from the factory equipped to burn natural gas at a specified elevation. The insert can be converted to burn LP (liquid propane) by installing a conversion kit. Only Lennox Hearth Products conversion kits can be used to convert from NG to LP or LP to NG. Contact your Lennox Hearth Products dealer for details.



PACKAGING LIST

To install a Designer insert, an insert body, face, surround (flange) kit, and brick panel are required.

Insert Body Packaging List

- 1 Insert Body with Burner Cassette
- 1 Set of Refractory Brick Panels - Left and Right Sides
- 1 Log Set
- 1 Bag of Embers
- 1 Fasteners: 6 slotted 1/4" truss screws
6 speed nuts
9 spring clips
3 plastic adhesive wire restraints
- 1 Installation and Operation Manual

Decorative Faces - One Required

Arch Inset
 Classic
 Screen
 Foundry
 Cast Pillar

Surround Kits - One Required

Traditional 1-pc. (41"W x 29"H)

Traditional 3-pc (29"W x 41"H, 29"W x 48"H, 33"W x 41"H, or 33"W x 48"H)

Cast Iron (45-1/2"W x 30"H-Cast Pillar face only)

Surround Kit Contents

- 1 Top Surround
- 2 Side Surrounds
- 3 Gold Colored Trim Pieces
- 2 Elbowed Trim Fasteners

RATINGS	Designer™ (DBV)	
	NATURAL GAS	LP GAS
MAX/MIN INPUT BTUH 0-2,000 FT (0-610 M) ❶	30,000/20,500	28,500/17,100
MANIFOLD PRESSURE (IN. WC)	3.5	10.0
MIN. INLET PRESSURE (IN. WC)	5.0	10.5
MAXIMUM HEAT OUTPUT BTUS/ HOUR "STEADY STATE"	25,600	24,800
P4 Efficiency ENERGUIDE ❷	55.63%	57.89%
ORIFICE (DMS) 0-2,000 FT (0-610 M) ❶	#37	#52
❶ Unit factory equipped for 0-2000 FT/0-610 M, In Canada 0-4500 FT/0-1370 M ❷ Tested to CSA P.4.1-02 "Testing Method for Measuring Annual Fireplace Efficiency. Electrical Rating: 120 VAC, 60 HZ, Less Than 2 Amps		

INSERT DIMENSIONS

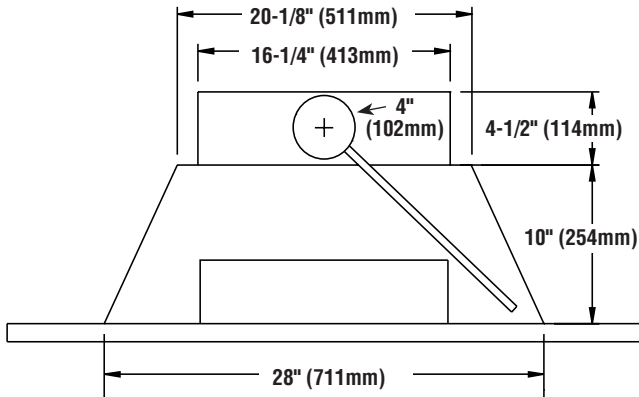


Figure 1 Top View

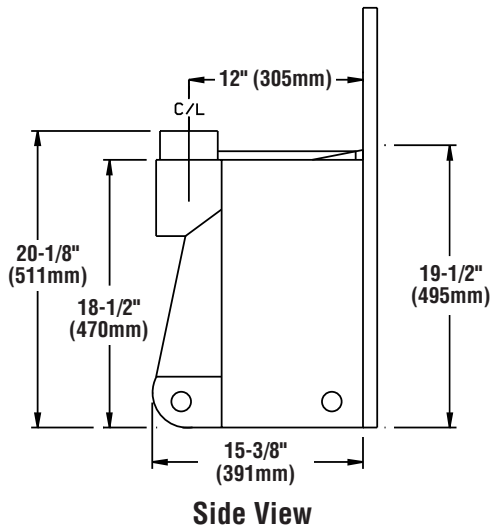


Figure 2 Side View

Insert Dimensions	
Width of insert behind Surround Panels	28" (711mm)
Rear height	18-1/2" (470mm)
Insert depth into fireplace	15-3/8" (391mm)
Flue center line from back of surround with standard draft hood	12" (305mm)
Flue center line from back of surround with extended draft hood	16" (406mm)
Flue collar diameter (OD)	3-15/16" (100mm)

MINIMUM FIREPLACE CAVITY

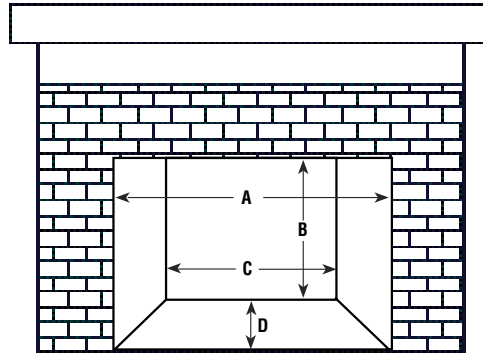


Figure 3

MINIMUM FIREPLACE OPENING REQUIRED

- A = 29-3/4" (756mm) Front Opening
- B = 19-1/2" (495mm) Height
- C = 19" (483mm) Rear Width
- D = 15-5" (394mm) Fireplace Depth

* Top air duct will need to be removed for short ZC applications. Replace tap tights when removed.

⚠ CAUTIONS

- The fireplace in which this gas insert is to be installed must be thoroughly cleaned if it has been used to burn wood or synthetic logs. Have the chimney and all inside surfaces of the fireplace brushed and vacuumed so that no soot, embers, or loose combustion deposits can be drawn into the heat circulation blower and blown into the living area.
- If any portion of the chimney system shows signs of structural or mechanical weaknesses, such as: cracks, leaky joints, corroded or warped surfaces, the faulty portion must be repaired or replaced prior to installing this appliance.
- The factory built firebox must accept the insert without modification other than removing bolted or screwed together pieces such as baffles / smoke shelf / deflectors, ash lips, glass door, screen or door tracks, log grates, refractory or masonry lining and damper assemblies. Any fireplace component, which is removed, must be retained so they can be reinstalled to restore the fireplace to its original operating condition. The removal of any part must not alter the integrity of the outer shell of the pre-engineered fireplace cabinet in any way. Any parts removed must be replaceable. If any components are removed from (or altered) from the existing fireplace, a Warning Label (see Page 4) must be affixed inside the fireplace firebox, so that it shall be visible upon removal of the fireplace insert. Note: RTV high temperature silicone is an approved adhesive to affix the label.

Clearances to Combustibles

CLEARANCES

MINIMUM CLEARANCES TO COMBUSTIBLES

E & J = 32.0" (813mm) from Top Facing or Mantel to Bottom of Insert

F = 10.5" (267mm) from Edge of Glass to Side Facing or Side Wall

HEARTH PROTECTION

G = Minimum Hearth Protection from Front of Insert*

H = Vertical Distance from Insert Bottom to Combustible Material.

G	13"(330mm)	10"(254mm)	0"(0mm)
H	0"(0mm)	2"(21mm)	4"(102mm)

Note: Hearth protection to be min. 3/8" (10mm) thick non-combustible or equivalent, with a k factor of .84.

INSERT LEVELING

At each front and rear corner of the insert is an adjustable leg provided to level the insert should the hearth of the fireplace be uneven. To adjust the legs, loosen the two 5/32" allen head screws, move the leg to the desired height, and then tighten the screws. Repeat these steps for each adjusting leg.

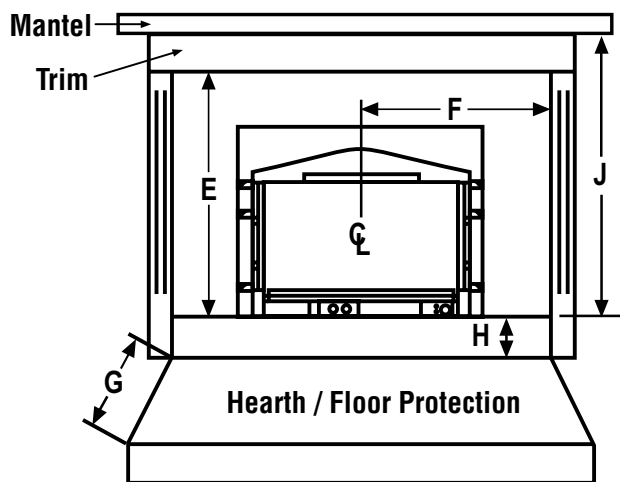


Figure 4

Installation

INSERT VENTING

WARNING: This appliance is equipped with a safety control system designed to protect against improper venting of combustion products. Operation of this heater when not connected to a properly installed and maintained venting system or tampering with the blocked vent shut-off system can result in carbon monoxide (CO) poisoning and possible death.

Insert must be vented to the outside in accordance with the current edition of the National Fuel Gas Code ANSI-Z223.1-latest edition, also known as NFPA 54 (In Canada, the current CAN/CSA B149.1 installation code). The insert must **not** be connected to a chimney flue serving a separate solid fuel burning appliance.

This gas insert requires a 4" diameter B-vent or listed flex aluminum or stainless chimney liner extending the entire length of the chimney to ensure proper operation. The vent should terminate with a chimney cap or rain cap. Chimney should be sealed around cap to prevent air and rain from entering chimney. Adhere to vent manufacturer's instructions for installation and vent termination.

The insert must be installed so the draft hood is in the same atmospheric pressure zone as the combustion air inlet to the appliance.

FLUE COLLAR CONNECTION

This insert has a detachable flue collar to ease installation. To detach flue collar, unscrew the draft tube retaining screw and slide draft tube and flue collar to the rear. Attach flue collar (with 3 sheet metal screws or a B-vent connector) to vent pipe previously installed in chimney. As the insert is pushed into fireplace, guide draft tube and flue collar into the guide brackets until draft tube retaining screw can be reinstalled in its original hole.

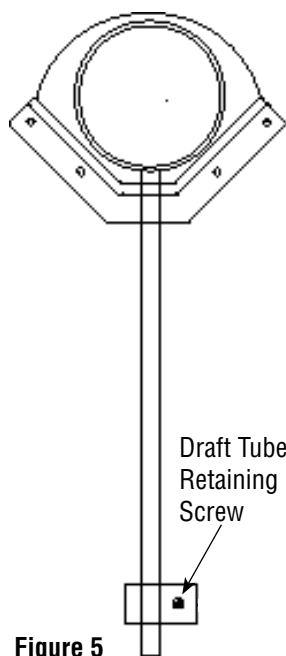


Figure 5

EXTENDED DRAFT HOOD

To aid in installing the Designer™ gas insert, an optional extended draft hood is available. When installed, the extended draft hood moves the flue collar four inches farther to the rear.

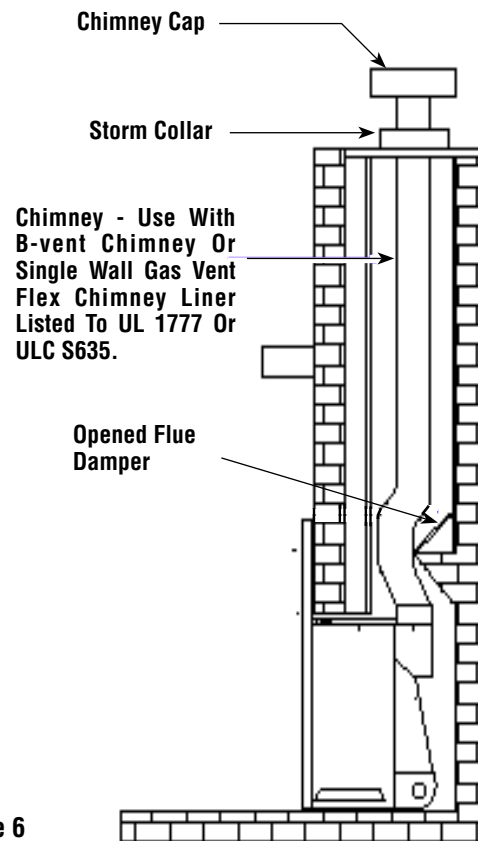


Figure 6

⚠ WARNING

Do not substitute the heat-rated flex liner (UL1777 or ULC S635) for the exhaust with any other type liner or a fire may result causing property damage, personal injury or loss of life.



Figure 7

VENT KITS		
Cat. #	Model	Description
H0906	VKBVI25	BVI, 4" Dia. x 25' Length
H0907	VKBVI35	BVI, 4" Dia. x 35' Length

ZERO CLEARANCE FIREPLACE INSTALLATION

This insert may be installed in a masonry or factory built / zero clearance (ZC) fireplace. When installing in a ZC fireplace the ZC grate must be removed and the ZC damper must be removed or secured open. The ZC doors, screen, refractory or masonry lining, baffles, and smoke shelf may be removed if necessary to install the gas insert. However, **do not cut or alter the fireplace components**. The removal of any parts to facilitate installation must not alter the integrity of the inner or outer shells of the fireplace cabinet. Any parts removed must be replaceable if the insert is taken out of the fireplace or the fireplace clearly marked with a paint stick that "This fireplace has been altered and is no longer safe to operate."

The insert is designed to fit into a ZC fireplace with a minimum firebox height of 19-1/2 inches (495mm). To facilitate this installation the flue collar is removable (See "Flue Collar Connection").

GLASS DOOR REMOVAL

See page 19 for Glass Door Removal Instructions.

BRICK LINER INSTALLATION

The brick panels are extremely fragile so handle them with care.

1. Remove the panels from their packing material.
2. The long rectangular panel goes in the rear of the firebox - the thin layer of bricks should be down. The brick panel rests on the air control panel. The rear brick panel is held in place by the side panels.
3. The rounded edge of the side panels goes to the front. Install the side panels by sliding them along the side of the firebox. They are held in place by two screws protruding from the top of the firebox.

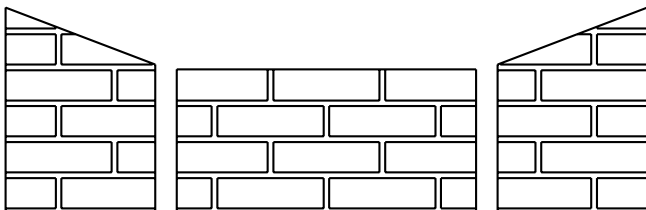


Figure 9

LOG SET & EMBER INSTALLATION

Caution: If the logs are not properly installed, your insert will not function properly.

Parts list: rear log, left front log, right front log, left top log, right top log, and small straight twig

- 1) Remove the logs from the box and carefully unwrap them. The logs are fragile so handle them with care.
- 2) At the rear of the firebox is a log retainer (the circled area in Figure 10). This retainer can be rotated forward to increase the size of the flames in front of the rear log. Rotate the retainer by loosening screw A. For inserts burning propane the retainer may be rotated half the way forward. For inserts burning natural gas, the retainer may be rotated all the way forward. It may be necessary to try various setting to find the optimum one. Never rotate the retainer to such an extent as to cause sooting.
- 3) Align the holes in the bottom of the rear log (the longest log in the set) with the two pegs just to the rear of the rear burner tube and slide the log down onto the pegs. See Figure 10. The charred black surface of the log should face the front. (Continued on the following page).

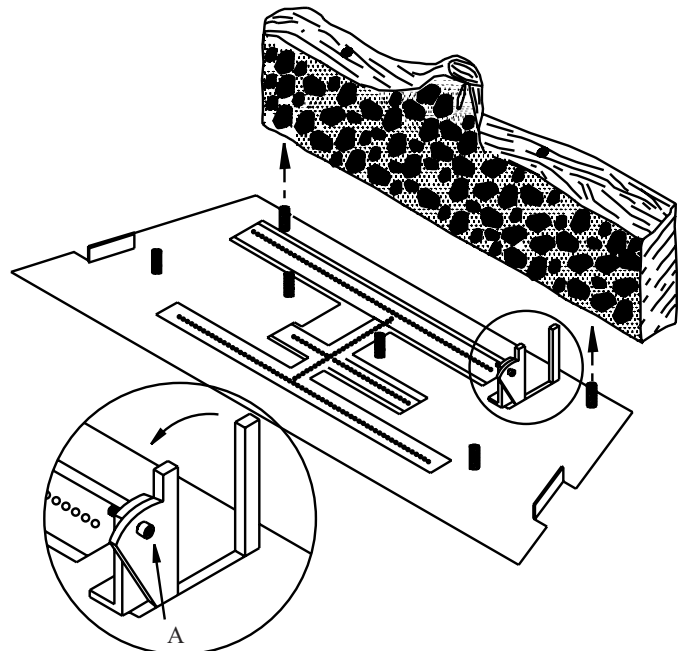


Figure 10

- 4) Rotate the right front log (3018 is cast into its bottom surface) so the black charred surface is toward the front. Place this log so the two holes in its bottom surface slide onto the two pegs on the right side of the air control panel. See Figure 11.
- 5) Rotate the left front log (3017 is cast into its bottom surface) so the black charred surface is toward the front and place it on the pegs protruding from the left side of the air control panel as shown in Figure 11.
- 6) The small straight top twig (3021) should be turned so the black flat end is turned to the rear. Slide the holes in the bottom of this twig over the right peg on the left front log and the hole on the right front log. See Figure 12.
- 7) The left top log (3019) should be positioned as shown in Figure 12. Slide the holes in the bottom of this log over the hole in the left end of the rear log and the peg in the left end of the left front log. The right top log (3020) should be positioned as shown in Figure 12. Slide the holes in the bottom of this log over the peg in the right end of the right front log and rest it on the flat spot on the rear log.
- 8) Figure 13 shows the entire log set assembled. The embers provided may be placed one high in front of the front burner tube using care not to cover all the burner ports. Any extra embers may be placed at the ends of the front log, off the burner. Place small pinches of rockwool on top of the embers.

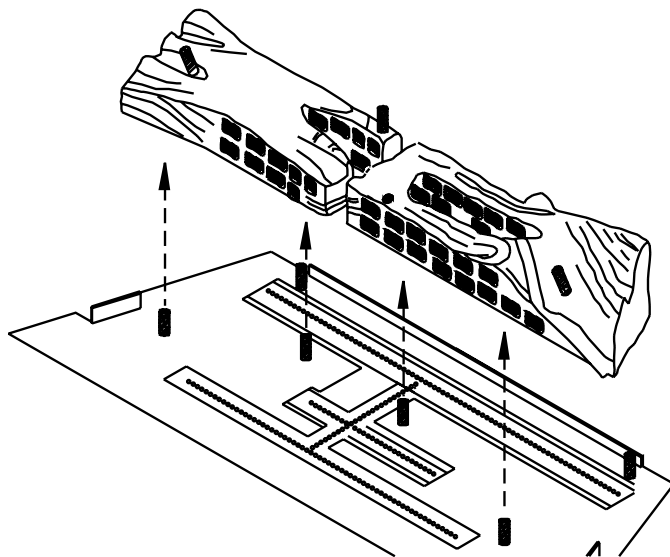


Figure 11

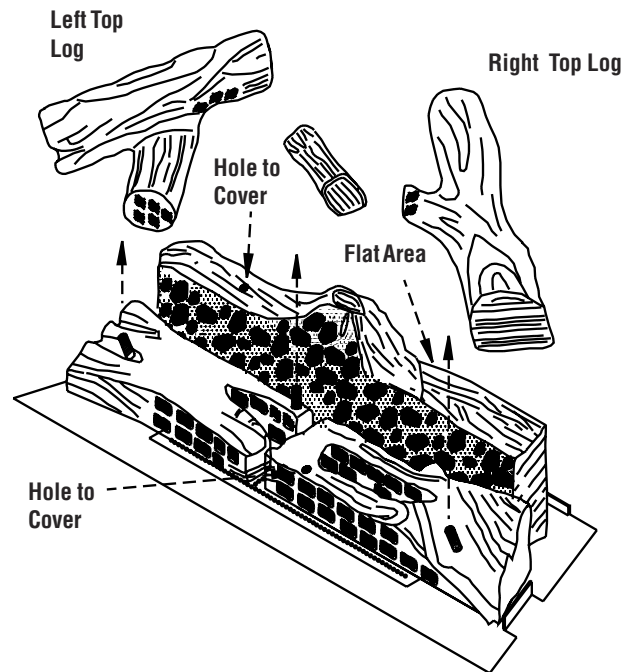


Figure 12

Note: The pilot flame can be viewed through this hole in the front log.

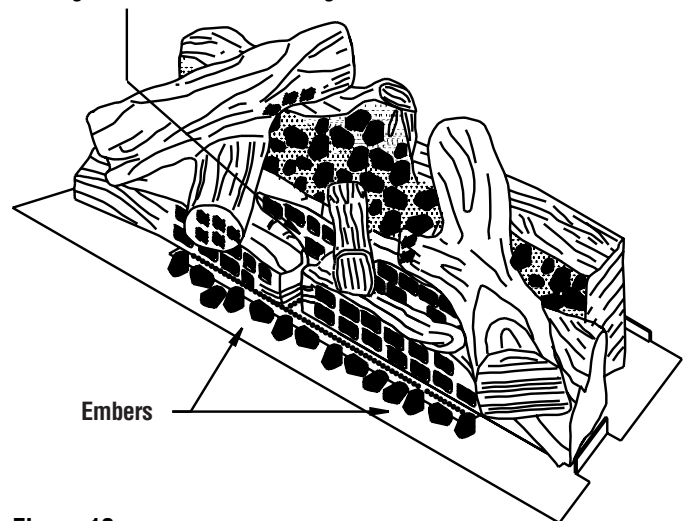


Figure 13

SURROUND PANELS INSTALLATION

The Designer™ insert surround panels are made of heavy gage steel for durability and, if desired, for the ease of making an inside fit in the fireplace. See "Packaging List" for sizes available.

1. Remove the speed nuts from the parts bag and install (with the flat surface forward) on the six holes in the surround brackets, three on each side of the insert (See A in Figure 14). A flat bladed screwdriver may help in installing the nuts.
2. Install all surround panels and trim with the insert positioned in the fireplace but a few inches in front of its final location.
3. If the insert face is to be installed on the insert, the sight obstructor that comes with the face must be installed prior to installing the surround panels. With the curved edge down and the bent top edge positioned toward the insert, slide the tabs at the ends of the obstructor in the slots on the surround brackets (see C in Figure 14).
4. Install the side surround panels by lining up the holes in the tabs on the side surround panels in front of the holes on the surround brackets. Next insert two slotted 1/4" truss screws for each side surround panel and secure loosely.
5. Fasten top surround panel with the remaining two truss screws. Tighten all six truss screws after adjusting the surround panels to eliminate space between side and top surround panels.
6. Assemble the surround trim by inserting the elbowed retainer in the rectangular slot in the ends of the longest piece of trim and secure by tightening the screw in the retainer. Slide the mitred ends of the two side trim pieces onto the elbowed retainer and secure by tightening the retainer screw.
7. The fastened trim pieces should now be horseshoe shaped. Slide the trim down over the surround panels so the edge of the surround panel fits just behind the rounded edge of the trim.
8. Install three spring clips (found in parts bag in firebox) in each piece of trim by inserting them between the rear of the surround and the channel of the trim. The spring clips will push the trim tight to the surround.

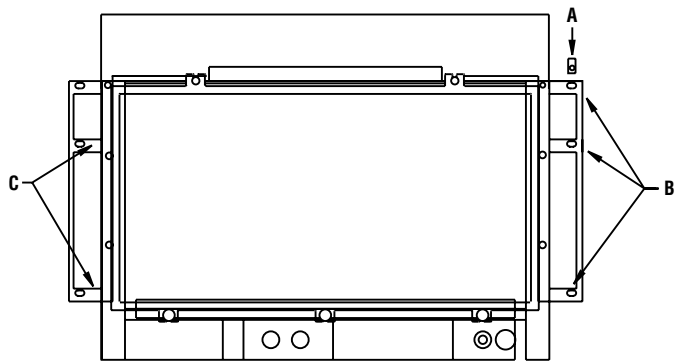


Figure 14

FACE INSTALLATION AND CLEANING

A number of different face finishes and shapes are available for your Designer™ Flush Gas Insert. The insert Face comes with a sight obstructor that must be installed prior to installing the surround panels (see step 3 on Page 11) and face. The faces come with hooked brackets. To install the face, hang the hooked bracket on the surround brackets (D in Figure 14).

NOTE: GOLD PLATED SURFACE MUST BE CLEANED WITH GLASS CLEANER AND SOFT RAG BEFORE FIRING THE FIRST TIME OR FINGER PRINTS AND STAINS WILL REMAIN PERMANENTLY. NEVER USE BRASS POLISH TO CLEAN GOLD, THIS WILL REMOVE GOLD PLATING!

ORIFICE SIZE/ALTITUDE ADJUSTMENT

See instructions on page 4

Gas Line Installation

After leveling, position the insert in the fireplace, holding it about six inches out from its final location.

Caution: Specific Hearth Requirements apply (see Clearances and Specifications). The Designer™ gas insert must be connected to the gas line in accordance with local codes and / or the National Fuel Gas Code--- Z223.1-latest edition, also known as NFPA 54 (In Canada, the current CAN/CSA B149.1 installation code). Included in the manual package is a 8" gas nipple. Locate the threaded gas inlet on the lower left of the insert. Thread the 8" gas nipple into the inlet with a teflon sealer or equiv. Attach the gas supply line to this hard pipe. The hard pipe can receive a 3/8" inch female iron pipe coupling, or a shut off valve. After connecting the gas line, all joints in the line and connections at the valve should be checked for leaks.

GAS PRESSURE REQUIREMENTS

A MAJOR CAUSE OF OPERATING PROBLEMS WITH GAS APPLIANCES IS IMPROPER GAS PRESSURE!

The most important item to check during the initial installation and the first thing to check when operating problems occur is gas pressure! This appliance will not function properly unless the required gas pressure is supplied. See the table on this page for gas pressure requirements.

Two pressure taps are provided on the insert's valve to check gas pressures. The taps are located to the right of the on/off/pilot knob (see Figure 15). The bottom tap is the inlet (supply) pressure side. To check inlet pressure (with the insert burning), insert a small phillips screw driver into the tap and turn a half turn counter-clockwise. Cover the tap with the line from a manometer and check the pressure. Close tap gently but securely after completing the check. The manifold (outlet) tap is above the inlet tap. To check manifold pressure (with the insert burning at the high burn setting) insert a small phillips screw driver into the tap and turn a half turn counter-clockwise. Cover the tap with the line from the manometer and check the pressure. Again close the tap gently but securely after completing the check. Check the taps for gas leaks with a gas leak test solution (retighten if necessary).

If the pressure is not sufficient, make sure the gas supply line is large enough, the supply regulator is properly adjusted, and the total gas load for the residence does not exceed the amount supplied.

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

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. Check with your gas supplier or plumber.

Fuel Type	Inlet Pressure			Manifold Pressure	
	Desired	Minimum	Maximum	On Hi Fire	On Lo Fire
Natural Gas	7" WC	5" WC	10.5" WC	3.5" WC	1.7" WC
LP Gas	11" WC	10.5" WC	13" WC	10.0" WC	5.4" WC

Robertshaw Millivolt Gas Valve

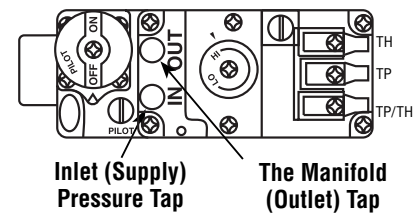


Figure 15

Gas Supply Line Sizing

The proper gas line diameter must be selected to run from the supply regulator to the insert. Refer to the following table for proper gas pipe diameters.

NOTE: Some areas allow copper tubing - check with local approval agencies and codes.

COPPER TUBING NOT ALLOWED IN MASSACHUSETTS IN NATURAL GAS INSTALLATIONS, NEVER USE GALVANIZED OR PLASTIC PIPES.

Pipe Length (Feet from Supply Regulator)	Schedule 40 Pipe Inside Diameter (Black Pipe)		Tubing, Type L Outside Diam- eter (Copper) (Do Not Use Copper in Massachusetts with Natural Gas)	
	Natural Gas	L.P.	Natural Gas	L.P.
0-10	1/2" (1.3 cm)	3/8" (1.0 cm)	1/2" (1.3 cm)	3/8" (1.0 cm)
10-40	1/2" (1.3 cm)	1/2" (1.3 cm)	5/8" (1.6 cm)	1/2" (1.3 cm)
40-100	1/2" (1.3 cm)	1/2" (1.3 cm)	3/4" (2.0 cm)	1/2" (1.3 cm)
100-150	3/4" (2.0 cm)	1/2" (1.3 cm)	7/8" (2.3 cm)	3/4" (2.0 cm)
150-200	3/4" (2.0 cm)	1/2" (1.3 cm)	7/8" (2.3 cm)	3/4" (2.0 cm)

Figure 16

PROPANE (LP) AND NATURAL GAS SUPPLIES

Your Designer™ gas insert is equipped from the factory for use with natural gas only as specified on the Safety / Listing label attached to the appliance. This appliance can only be operated using propane gas (LP) if a certified fuel conversion kit provided by Lennox Hearth Products is installed by a qualified service technician.

Also check the orifice size on the label on the igniter bracket. It must be the correct size for the fuel and altitude.

Do not run propane tank dry. Running the tank dry may cause a hazardous condition due to pressure drop in empty tank.

Solid fuel is **NOT** to be used with this unit.

AIR SHUTTER ADJUSTMENT

The Designer gas insert has an air shutter control lever located behind the lower door on the insert's face and to the left of the gas valve. See Figure 17. The lever is linked to the primary air shutter on the main burner. The air shutter regulates the amount of primary air the burner receives and therefore how clean the insert burns. The air shutter should only be adjusted by a qualified gas technician. The insert should burn for about 15 minutes with the logs installed before adjusting the air shutter. Pulling the lever out will open the shutter and turn the flames more transparent and blue. Pushing the lever in will close the shutter and turn the flames more orange.

Caution: The air shutter should never be set so as to make the tips of the flames sooty or create sooting on the viewing glass, logs, or heat exchanger. If soot begins to form after burning, the air shutter should be opened gradually until the sooting condition stops. Gas quality and gas pressure may vary, which can affect the burning characteristics of the insert.

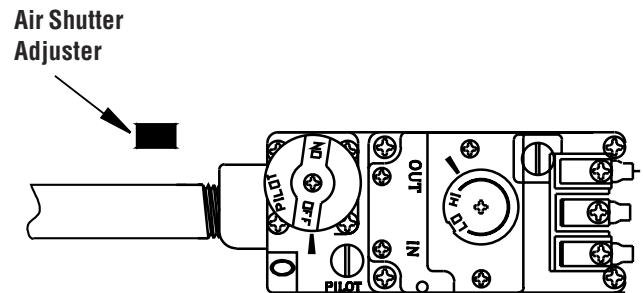


Figure 17

Operating Instructions

PRE-LIGHTING CHECKLIST

Be sure to check these items before the initial lighting of the insert:

- All packaging materials are removed from the firebox; brick panels and logs are installed.
- The insert gas label must correspond to the gas supply available---that is "natural gas" for natural gas; "LP gas" for LP gas.
- Be sure the gas pressure has been carefully checked (see Gas Pressure Requirements).
- Fingerprints or other marks are cleaned (while the insert is cool) from any gold or nickel surfaces with denatured alcohol and a soft cloth. Marks left on these surfaces may become etched into the finish if not removed prior to burning the unit.
- Check all gas fittings for leaks.
- Remove all combustible materials from the area in front of the insert and ensure the vented areas of the insert face are unobstructed.
- Check to ensure all clearances to combustibles are met---see page 7.
- Make sure the glass door is in place and properly sealed before burning the appliance
- Ventilate the house to clear initial paint curing odors---see page 16.

Lighting Instructions

The following is a copy of the operating and lighting instructions found with each insert:

FOR YOUR SAFETY READ BEFORE OPERATING

WARNING: IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, INJURY, OR LOSS OF LIFE.

CAUTION: HOT WHILE IN OPERATION. DO NOT TOUCH. KEEP CHILDREN, FURNITURE, GASOLINE, AND OTHER LIQUIDS WITH FLAMMABLE VAPORS AWAY. NEVER OPERATE UNIT WITH GLASS OFF OR ATTEMPT TO REMOVE THE GLASS WHILE HOT.

- A. This appliance is equipped with a piezo ignition device to light the pilot. When lighting the pilot, follow these instructions exactly.
- B. **BEFORE LIGHTING**, smell around the appliance area for gas. Be sure to smell next to the floor, because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS:






DO NOT try to light the appliance.
DO NOT touch any electric switch,
DO NOT use any phone in the building. Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions. If you cannot reach your gas supplier, call the fire department.

- C. Use only your hand to push in or turn the gas control knob. Never use any tool. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- D. **DO NOT** use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.


OPERATING INSTRUCTIONS

CAUTION: Your Lennox™ gas INSERT MUST ALWAYS BE OPERATED WITH GLASS IN PLACE.

STOP!! Read the safety information above before proceeding.

1. Open the lower door. Make sure gas supply shut-off cocks are open and ON/OFF rocker switch is "OFF." If equipped with a thermostat, set it to the lowest setting.
2. Turn off all electrical power to the appliance.
3. Push in gas cock dial slightly and turn clockwise  to "OFF."
NOTE: Dial cannot be turned from "PILOT" to "OFF" unless dial is pushed in slightly. Do not force.
4. Wait five minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" above. If you don't smell gas continue.
5. Locate the pilot by looking over the top of the left front log. A blue flame will be seen when the pilot is lit.
6. Turn the gas control knob counter-clockwise  to the "PILOT" position.
7. Push the knob all the way in and hold in that position. Immediately light the pilot by pressing the igniter button several times until pilot is lit. Continue to hold the knob in for about 30 seconds after the pilot is lit. Release knob and it will pop back out. Pilot should remain lit. If it goes out, repeat steps 4-8 holding knob in an additional 15 seconds after pilot is lit. If knob does not pop out when released, stop and immediately call your service technician or gas supplier. If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or your gas supplier.
8. After pilot is lit, turn gas control knob counter-clockwise  to "ON." Knob can only be turned to "ON" if the knob has popped out.
9. To turn burner on, turn "ON/OFF" rocker switch to "ON" or set the thermostat to the desired temperature above room temperature.
10. Adjust the flame height (and heat output) by turning the flame height knob clockwise  for full flame and counter-clockwise  for reduced flame.
11. Turn on the electric power to the appliance and set the blower to the desired air flow after it turns on when the appliance reaches operating temperature.

TO TURN OFF GAS TO APPLIANCE

1. Turn off the "ON/OFF" rocker switch and/or thermostat (if installed) to its lowest setting.
2. Turn off electric power to the appliance if service is to be performed.
3. Push in gas control knob slightly and turn clockwise  to "OFF." Do not force.

This appliance needs fresh air for safe operation and must be installed so there are provisions for adequate combustion and ventilation air.

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage. For assistance or additional information, consult a qualified installer, service agency, or your gas supplier.

Operation of this appliance when not connected to a properly installed and maintained venting system can result in carbon monoxide (CO) poisoning and possible death.

SHUTDOWN PROCEDURE

To turn off the burner, turn the rocker switch to "OFF" or adjust the thermostat (if installed) to a setting below room temperature. The pilot will remain lit for future burner ignition. For complete shutdown, see "TO TURN OFF GAS TO APPLIANCE" above.

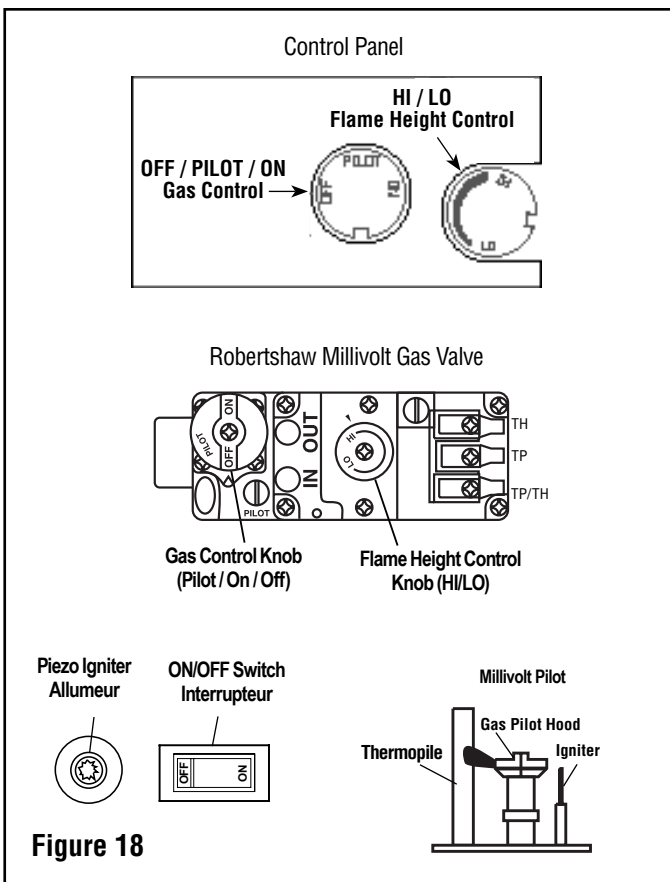


Figure 18

Flame Color & Behavior

Your Designer™ gas insert is designed for maximum heating efficiency. Therefore, upon lighting of the main burner the flames will be semi-transparent or "bluish." After 10-20 minutes of operation the logs will heat up and the flames will become a yellow/orange color.

Adjusting the insert to cause the flames to turn orange sooner may result in poor combustion, sooting, and a hazardous situation. See the drawing to the right showing proper flame appearance.

Burner Flame Appearance

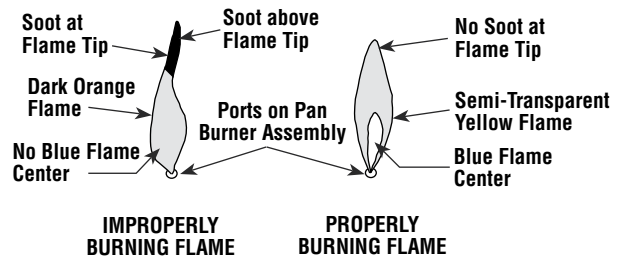


Figure 19

REPLACING BURNER ORIFICES

This insert has two separate burner tubes and therefore an orifice for each. The front and rear orifices have different thread types so that a front orifice cannot be installed in the rear orifice location and visa-versa. Installing them in the wrong location will destroy the orifice threads.

To change orifices, first remove the cassette (see Fuel Conversion and Cassette Installation). Then remove the burner retaining plate by removing the allen head screw C (see Figure 9). This allows the front and rear burner tubes to be removed providing access to the two orifices.

The rear orifice has 9/16-24 threads and can be removed by unscrewing the 5/8 compression nut and then unscrewing the 3/4" jam nut from the orifice. The front orifice is a 3/8" NPT and can be unscrewed with a 3/4" wrench.

REDUCING THE ORIFICE SIZE FOR HIGHER ALTITUDES MAINTAINS THE PROPER BTU INPUT TO AIR RATIO. TOO LARGE AN ORIFICE WILL RESULT IN HIGHER BTU INPUTS THAN THE DESIGN ALLOWS, MAY RESULT IN AN UNSAFE CONDITION AND MAY VOID YOUR WARRANTY.

For altitudes above 2,000 ft. (610M) (In Canada 4,500 FT/1370 M) the appliance should be derated by four (4%) percent every 1,000 ft. (305M).

To operate safely, your Designer™ gas insert must have the proper burner orifice size determined by the altitude at which it will be operated and other variables such as pressure and valve tolerances. If you have reason to believe your insert's orifice size may be incorrect for your altitude, have it checked and remedied (if necessary) by a qualified service technician.

PAINT CURING

This insert has been painted with Stovebright high temperature metallic stove paint. It leaves the factory dry to the touch, but finishes curing as the insert is used. Fire the insert four successive times for ten minutes each time with a five minute cool down between each firing. Ventilate the house during these first firings as the paint gives off carbon dioxide and unpleasant odors. It is recommended that persons sensitive to an imbalance in the indoor air quality avoid the insert during the curing process.

Quiet Operation

GAS NOISE: The sound of gas flowing through the insert may be detectable while the unit is in operation. This is a normal operating sound, however if it is objectionable, it can be reduced by turning down the flame. Turning down the flame will reduce heat output.

BLOWER NOISE: As the insert heats up, the blower will come on to move hot air through the heat exchanger and into the room. Adjust the fan speed with the fan control knob to the sound level and air flow desired.

BLOWER

Your Designer gas insert comes equipped with a 150 CFM blower with a variable speed control and an automatic temperature activated On / Off snap switch.

Operation:

1. Plug the blower power cord into a grounded (three prong) outlet. This appliance is equipped with a three prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three - prong receptacle. Do not cut or remove the grounding prong from this plug.
2. After the insert warms up, the fan will come on if the speed control (located at the far right below the firebox) is left in the on position. The fan will not operate until the insert is warm.
3. Once the fan comes on, turn the knob to the desired speed. No further adjustment is necessary, the fan will come on automatically whenever the insert is warm.
4. If you do not wish to have the fan on, turn the knob until it clicks into the OFF position.

“On-Off” Switch And Thermostat

Your gas insert comes with an “ON/OFF” rocker switch used to turn the burner on and off while the pilot is on. The rocker switch can be installed in the hole in the right side of the top surround panel or in the hole in the panel to the left of the igniter button. The hole in the panel is covered by a label which must be carefully cut out before installing the rocker switch. The switch must be disconnected from the coil of wire to which it is attached, the plastic nut unscrewed from the back side of the switch, and then the switch can be inserted into the hole at either location. If the switch is to be located in the surround, route the wire behind the igniter bracket and through the hole in the lower right side of the insert. Attach the three plastic adhesive wire restraints (found in the bag in the firebox) to the side surround panel. Feed the wire through these restraints and up to the switch. Care should be taken to ensure the wire does not come in contact with the hot surfaces of the firebox. Reconnect the wires to the switch.

A wall thermostat or remote thermostat can be used to supplement the rocker switch. The thermostat and rocker switch will turn the burner on and off independently. Be sure to set the rocker switch to the “Off” position when using the thermostat and set the thermostat to the lowest temperature when you wish to use the rocker switch only, otherwise one may override the other. If a remote thermostat is to be used with the insert, do not place the receiver under the firebox.

PILOT ADJUSTMENT

All pilots are burned and checked at the factory prior to shipment. (NOTE: If upon initial insert installation the pilot flame flickers or will not remain lit, most likely the pilot is fine but there is air in the gas line or the gas pressure is too low). Pilot adjustment is not normally required, but should it be necessary, it should be done only by a qualified service technician. The pilot adjustment screw is located below the ON/OFF/PILOT control knob. With a flat bladed screw driver, remove the pilot adjusting cover to access the pilot adjusting screw. Adjust pilot screw to the properly sized flame. The flames should completely surround the thermopile and extend across the main burner tube ports. Be careful not to back the adjusting screw out of its threads. Replace the cover and check for gas leaks.

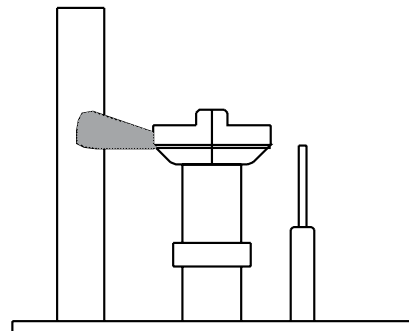


Figure 20

NOTE: DIAGRAMS & ILLUSTRATIONS ARE NOT TO SCALE.

Do not splice any millivolt wires. Consult the table on this Page to determine the proper gage of wire for the thermostat or wall switch connections. This table refers to the total length of the wire (out to the switch and back). The thermostat must be a millivolt type. A 24-volt furnace thermostat will not work. Never hook up household current - 120 Volts - to the millivolt system. It is not recommended to hook up any more than two switches to the insert (for example a rocker switch and a wall thermostat). Additional switches may affect the system resistance and increase the chance of the burner not igniting. Follow the instructions included with the thermostat or remote control for wiring.

The thermostat, remote control, and rocker switch will turn the burner on and off independently. Be sure to set the rocker switch to the "OFF" position when using the thermostat or remote control and set the thermostat or remote control to the lowest temperature when you wish to use the rocker switch only, otherwise one may override the other. If a remote thermostat is to be used with the insert, do not place the receiver under the firebox.

Thermostat Wire	
Wire Size	Maximum Length
12 Gage	100 Feet
14 Gage	64 Feet
16 Gage	40 Feet
18 Gage	25 Feet
20 Gage	16 Feet

MILLIVOLT CONTROL SYSTEM

This insert operates on a millivolt control system. As such, no addition power supply is needed for the insert to operate. The pilot assembly contains a **Thermopile**, that when heated by the pilot flame, generates electricity (millivolts, mV=1/1000 of a volt) that travels to terminal #1. From this terminal it travels through a black wire to the **Vent Safety Snap Switch**. If this switch overheats through a flue blockage or vent pipe disconnection it will open, stop the flow of mV and shut the insert off. This switch will automatically reset (close), when it is cooled down to normal operating temperature. During normal operation, it is closed allowing the mV to flow back to the valve, which opens so gas can flow through.

Millivolt and System Checks				
Check Test	To Test	Connect Meter Leads to Terminals	Thermostat Connects	Meter Reading Should Be
A	Complete System	2 & 3	Closed	100 MV or More
B	Thermopile Output	1 & 2	Open	Greater Than 325 MV
C	System Resistance	2 & 3	Closed	2.5 Ohms

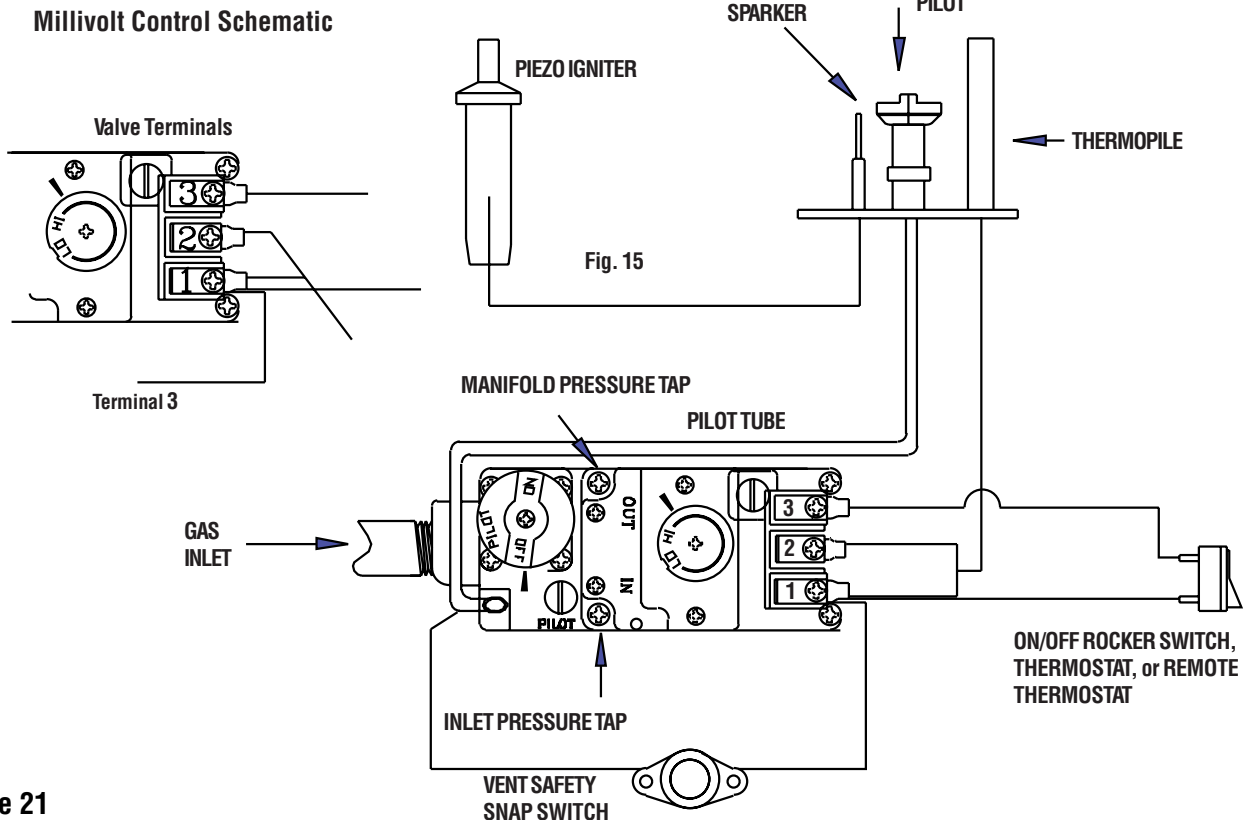


Figure 21

NOTE: DIAGRAMS & ILLUSTRATIONS ARE NOT TO SCALE.

Maintenance & Servicing

MAINTENANCE CHECKLIST

Should Only Be Performed by a Qualified Service Technician.

Caution: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

1. Annual inspection should be made and the following checks performed:

- a) With unit cool, remove glass and inspect burner for dirt, soot, and lint accumulations and remove if necessary. If excessive soot accumulation is present on burner, have a qualified serviceman adjust burner for proper combustion.
- b) Clean any deposits from inside glass with gas fireplace glass cleaner. NEVER attempt to remove or clean glass when the unit is hot.
- c) Check the hot air outlet vents to make sure they are free from lint or other accumulations. Never block or restrict vent openings or use vents other than Lennox™ products.
- d) Check that chimney and its outlet are open and free from soot, blockage, or debris.
- e) Inspect the pilot system for proper flame. See instructions on page 16.
- f) Check the Millivolt system as per the table on page 17.
- g) The appliance area must be kept clear and free of combustible materials, gasoline, and other flammable vapors and liquids.
- h) Check glass gaskets once a year. Gaskets must be tight. Replace if necessary.

2. The viewing glass should be cleaned periodically (see Glass Maintenance).

Glass Maintenance

Cleaning: When cool, the glass may be cleaned with a clean, soft cloth and Windex. For cleaning white condensation from the interior glass, use KEL KEM gas fireplace glass cleaner available from your insert dealer. Use of caustic or abrasive cleaners may damage the glass. DO NOT operate the insert with broken glass. DO NOT clean door or glass when hot. DO NOT abuse the glass door by striking or slamming it shut. DO NOT use substitute materials if replacing the glass. DO NOT spray commercial glass cleaner with ammonia on the door and glass gasket as it may dissolve the gasket glue.

Replacement: The glass in the insert door cannot be replaced separately. Should the glass be damaged, the entire glass, gasket, and metal frame assembly must be replaced as a unit. This replacement glass assembly is available from your Lennox Hearth Products dealer. The glass is neo-ceramic and alternative types must not be used.

WARNING: Do not operate appliance with the glass panel removed, cracked, or broken. Do not remove glass door while the insert is hot. Replacement of the glass door should be done by a qualified service technician.

GLASS DOOR REMOVAL

Caution: Do not slam or strike glass door or damage may occur.

Do not remove the glass door while the insert is hot. To remove the glass door, pull forward and up on the top latches. Lift the glass door up and off the lower spring latch. Be careful not to damage or scratch the glass while handling. To reinstall the glass, reverse the removal steps. Do not operate the insert with the glass removed.

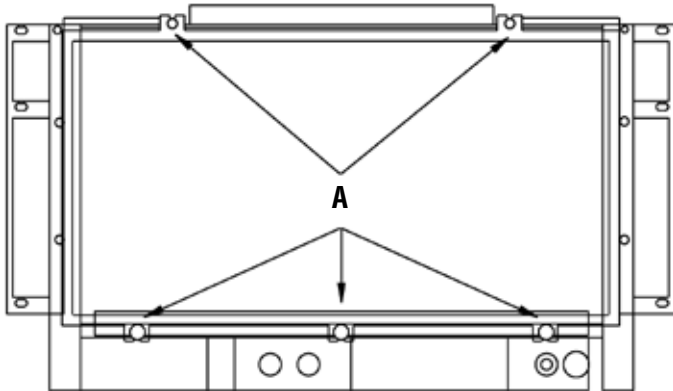


Figure 22

GLASS DOOR CLEANING AND REPAIR

Cleaning: Do not remove or clean the glass door when hot. A gas door glass cleaner (available from your Lennox Hearth Products dealer) or windex should be used with a soft cloth to clean the glass. Do not use an abrasive cleaner.

Repair: If the glass is broken in the glass door, the entire door (metal frame, gasket, and glass) should be replaced as a unit. This replacement unit is available from your Lennox Hearth Products dealer. Do not use substitute parts or materials.

Caution: Do not operate this insert with broken glass.

BLOWER REMOVAL

Unplug the power supply cord from the electrical outlet prior to removing the blower. The fan can be accessed through the back wall of the firebox. **Caution:** Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing. See the fan-wiring diagram below for reference. Remove the insert face, glass door, log set, and brick panels. All of these items are fragile so handle them with care. Remove the two allen head screws at the left and right front of the air control panel and lift the panel out. Next, remove the nine allen head screws around the outside of the panel fastened to the back wall of the firebox. Rotate the top of this panel toward the front, remove the two wires connected to the fan, and then lift the panel with the fan attached out of the firebox. To reinstall the fan, repeat these steps in the reverse order.


ELECTRICAL REQUIREMENTS

This gas insert operates without an outside power source, however the fan/blower requires a 120 Volt electrical service outlet. The blower must be electrically grounded in accordance with local codes. In the absence of local grounding codes, the National Electrical Code ANSI/ NFPA 70 - latest edition. In Canada, the current CSA C22-1 Canadian Electrical Code - latest edition. The blower is equipped with a three pronged (grounding) plug for your protection against electrical shock hazard and should only be plugged into a properly grounded three prong receptacle. **DO NOT CUT OR REMOVE THE GROUNDING PRONG FROM THE PLUG FOR ANY REASON!**

(See Millivolt Control Schematic section for information on thermostat and On/ Off switch).

Blower Wiring Schematic

Power Source

Ground (Green) 
Black (Hot)
White (Neutral)

Fan Snap Switch

Fan Speed Control

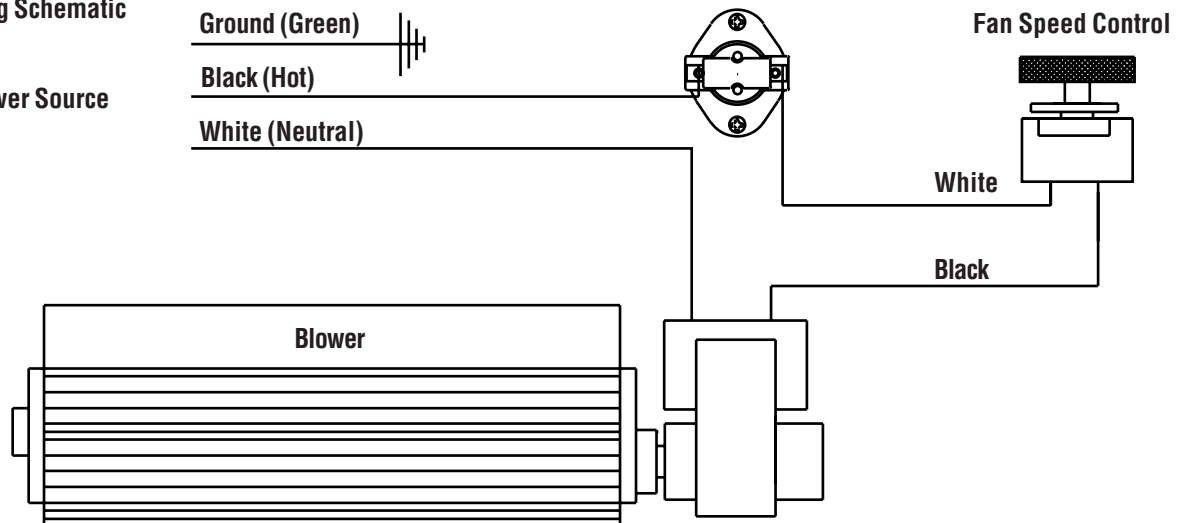


Figure 23

NOTE: DIAGRAMS & ILLUSTRATIONS ARE NOT TO SCALE.

FUEL CONVERSION & CASSETTE INSTALLATION

Converting your Designer™ gas insert between natural gas and LP can be accomplished by either changing the cassette (valve and pilot assembly) or installing a conversion kit (valve regulator, burner orifice, and pilot orifice). Only a qualified service technician should perform the conversion, as it requires disconnecting the gas supply line and other procedures that should only be performed by a qualified technician.

Cassette Removal:

1. Be sure the gas supply is off and fan power cord is disconnected before beginning the conversion. Disconnect the gas supply from the insert being careful not to apply pressure to the valve in the process.
2. Remove the face, glass door, log set, and brick panels (see related topics).
3. Remove the two allen head screws at the center front of the firebox securing the air control panel. Lift out the air control panel.
4. Label and disconnect the black wires from terminals 1 and 3 from the ON/OFF switch and thermostat (if installed) and the black wire at terminal 1 to the vent safety snap switch.
5. Remove the one allen head screw which holds the burner in place. Grasp the burner air shutter with your left hand and the burner with your right hand, then pull the right end of the burner up and to the right (releasing the air shutter from the air shutter linkage wire).
6. Disconnect the wire from the back of the piezo igniter (push button igniter).
7. Remove all six allen head screws (around the perimeter of the cassette panel) fastening the cassette to the firebox.
8. Grasp the air shutter linkage wire in your left hand and pull it up as you lift and rotate the rear of the cassette panel up and through the firebox.
9. Install new, converted, or serviced cassette in the reverse order of removal. All parts and wires must be correctly reinstalled to ensure safe and proper operation of the unit. Check for gas leaks prior to burning the insert.

Conversion Kit:

Please see instructions provided with conversion kit.

Troubleshooting

NOTE: When troubleshooting the gas control system, be sure the external gas shut off valve, located at the gas supply inlet is in the “ON” position.

IMPORTANT: Call your gas supplier or plumber for additional help with any gas control problem. Valve system troubleshooting should only be accomplished by a qualified service technician.

SYMPTOM	PROBABLE CAUSE	CORRECTIVE ACTION
Thin black coating (soot) forms on the viewing glass, logs, or firebox	<ol style="list-style-type: none"> 1) Improper log or ember placement 2) Improper air shutter setting 3) Not enough combustion air 4) Incorrect gas pressure 	<ol style="list-style-type: none"> 1) See Log Set and Ember Installation on Pages 9 & 10. If there is soot in one specific location, the rockwool below this location needs to be adjusted. This can be done by pulling embers forward slightly. If the flames have soot tails, the shutter will need to be opened. 2) If sooting continues open air shutter (see Air Shutter Adjustment on Page 13) 3) Check for debris obstructing air flow in valve compartment under insert or in front of lower venting. 4) Have gas supplier check for correct gas pressure (7" W.C. natural gas; 11" W.C. propane gas)
Humming or whistling coming from insert.	<ol style="list-style-type: none"> 1) Normal operating noise 2) Obstructed orifice opening 3) Defective regulator 	<ol style="list-style-type: none"> 1) See Quiet Operation on Page 16. The noise may be reduced by slightly turning down the flame. Turning the flame down will reduce the heat output of the insert. 2) If noise is excessive or is “whistling” have your gas supplier check the regulator and orifices and replace if necessary. 3) If noise is excessive or is “whistling” have your gas supplier check the regulator and orifices and replace if necessary.
A change in flame appearance or burner operation.	<ol style="list-style-type: none"> 1) A change in gas pressure 2) Improper ember placement 	<ol style="list-style-type: none"> 1) Have your gas supplier check for correct gas pressure (7" W.C. / po. C.E. [1.74 kPa] natural gas; 11" W.C. / po. C.E. [2.74 kPa] LP gas). NOTE: NEVER BLOCK OR OBSTRUCT AIR INTAKE OR OUTLET VENTS. 2) See Log Set and Ember Installation Instructions.
Spark igniter will not light pilot after repeated tries.	<ol style="list-style-type: none"> 1) No gas supplied to unit or air in line 2) Defective igniter (no spark at electrode) 3) Defective or mis-aligned electrode at pilot (spark at electrode) 	<ol style="list-style-type: none"> 1) Check gas supply. To purge, hold in gas cock on valve for 1-2 minutes and try again. 2) Check for spark at electrode and pilot, if no spark and electrode wire is properly connected, replace igniter and igniter wire. 3) Using a match, light pilot. If pilot lights, turn off pilot and trigger the igniter again. If pilot lights, an intermittent gas/air supply may be the problem, if longer purge will not light - check gap between electrode and pilot - should be 1/8 inch (3 mm) to have a strong spark. If OK, replace pilot.
Pilot will not stay lit after carefully following lighting instructions.	<ol style="list-style-type: none"> 1) Vent Safety Snap Switch shut down. 2) Improper Flame impingement 3) Low gas inlet pressure 4) Defective thermopile 5) Bad connection 6) Defective automatic valve operator 	<ol style="list-style-type: none"> 1) Snap switch activated --- have venting system inspected for blockage, down draft or bad snap switch. 2) Check pilot flame adjustment (see "Maintenance" section). 3) Check inlet pressure and adjust pilot if necessary. 4) Be sure wire connections from thermopile are tight at gas valve terminals and at vent safety snap switch. 5a) Either rocker switch or thermostat wires may be grounded. Remove wires from valve terminals. If pilot stays lit, trace switch wiring for a ground. May be grounded to insert or gas supply. 5b) Check open circuit millivolt output of thermopile. Reading should be greater than 325mV. Also check thermopile wire for kinks that can cause loss of mV. Replace faulty thermopile if wire is okay and reading is less than 325mV. 6) Turn valve knob to “ON” and thermostat (if installed) to 90°. Millivolt meter should read greater than 100 mV. If reading is OK and burner does not turn on, replace gas valve (qualified service technician only).
Pilot burning, but no flame on main burner with valve knob “ON”, rocker switch and thermostat “ON”.	<ol style="list-style-type: none"> 1) Pilot has gone out 2) Rocker switch, thermostat, or wires defective 3) Thermopile may not be generating sufficient millivolts 4) Plugged burner orifice. 	<ol style="list-style-type: none"> 1) See Lighting Instructions. 2) Disconnect rocker switch and thermostat wires at terminals 1 and 3 on valve. Jumper across from 1 to 3 with pilot lit. If burner comes on either rocker switch, thermostat, or wiring is not functioning. If not, jumper wires across switch wires at gas valve. If burner comes on, wires are faulty or connections are bad. 3) Check thermopile with millivolt meter (see Maintenance and Servicing), recheck symptom #2. 4) Check burner for stoppage and remove.

REPLACEMENT PARTS LIST

Designer™ (DBV)

<u>Part Number</u>	<u>Description</u>
H3047	Cassette Assembly, NG (if LP, also requires 75173 conversion kit)
H5935	Burner Assembly
H5937	Gas Control Valve, NG (if LP, also requires H5941 LP regulator)
H5939	Regulator, NG
H5941	Regulator, LP
H5947	Pilot Assy NG
H2830	Pilot Assy LP
H5882	Thermopile
H5962	Orifice, Main Burner, NG, #37
H5927	Orifice, Main Burner, LP, #52
H5745	Piezo Igniter
70006	Thermostat
70005	AC Remote Control Thermostat
71155	DC Remote Control Thermostat
H5862	Log Set
H5857	Brick Panel Set
H3048	Front Door Black
H3049	Glass
H5908	Glass, Center, Bay Face
H2747	Glass, Side, Bay Face
75173	Conversion Kit, NG to LP
75174	Conversion Kit, LP to NG
H5728	Blower (150 CFM)
H5744	On/Off Switch
H5875	Blower Snap Switch
H5876	Vent Safety Snap Switch
H5975	Power Cord
H5863	Bag of Embers (volcanic stone)
H5864	Bag of Rockwool
H5865	Bag of Steel Wool

SAFETY / LISTING LABEL

Tested & Listed By **Certified** Beaverton Oregon USA
 OMNI-Test Laboratories, Inc.
 Report No. / Numéro de Rapport
 050-S-6c-5

MODEL / MODÈLE **Designer™** SERIAL NO. **DBV**

Manufactured By / Fabriqué Par:
LENNOX HEARTH PRODUCTS
 PO BOX 987
 AUBURN, WA., USA 98071



FACTORY EQUIPPED FOR NATURAL GAS. IF CONTROL PANEL CONTRADICTS THIS LABEL, UNIT FUEL TYPE HAS BEEN CONVERTED. CET APPAREIL EST MUNI D'ÉQUIPEMENT POUR L'USAGE DU GAZ NATUREL. SI L'ÉTIQUETTE DU PANNEAU DES COMMANDES CONTRDIT CETTE ÉTIQUETTE, C'EST QUE LE TYPE DE CARBURANT DE CET APPAREIL A ÉTÉ CONVERTI.

LISTED VENTED GAS FIREPLACE HEATER - FIREPLACE INSERT - NOT FOR USE WITH SOLID FUEL
 TESTED TO ANSI Z21.88-2005/CSA 2.33-2005 "VENTED GAS FIREPLACE HEATERS", UL307b, CSA P.4.1-02, AND CGA 2.17-M91.

THIS APPLIANCE MUST BE INSTALLED IN ACCORDANCE WITH LOCAL CODES, IF ANY. IF NOT, FOLLOW THE CURRENT ANSI Z223.1/NFPA 54-LATEST EDITION (USA) OR CAN/CSA B149.1-LATEST EDITION (CANADA). THIS APPLIANCE MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTION. FOR INSTALLATION IN SOLID FUEL BURNING FIREPLACES ONLY - MASONRY OR FACTORY BUILT. THIS VENTED GAS FIREPLACE HEATER IS NOT FOR USE WITH AIR FILTERS.

THIS APPLIANCE IS ONLY FOR USE WITH THE TYPE OF GAS INDICATED ON THE RATING PLATE AND MAY BE INSTALLED IN AN AFTERMARKET, PERMANENTLY LOCATED, MANUFACTURED (MOBILE) HOME WHERE NOT PROHIBITED BY LOCAL CODES. SEE OWNER'S MANUAL FOR DETAILS. THIS APPLIANCE IS NOT CONVERTIBLE FOR USE WITH OTHER GASES UNLESS A CERTIFIED KIT IS USED.

DANGER: RISK OF ELECTRICAL SHOCK. DISCONNECT POWER BEFORE SERVICING UNIT.

IF ELECTRICALLY CONNECTED, CONNECTIONS AND GROUNDING MUST BE IN ACCORDANCE WITH LOCAL CODES, IF ANY. IF NOT, FOLLOW THE CURRENT NATIONAL ELECTRICAL CODE ANSI/NFPA 70-LATEST EDITION (USE) OR CSA C22-1-LATEST EDITION (CANADA).

RATINGS	Designer (DBV)	
	NATURAL GAS	LP GAS
MAXIMUM INPUT BTUH 0-2,000 FT (0-610 M)*	30,000/20,500	28,500/17,100
MANIFOLD PRESSURE (IN. WC)	3.5	10.0
MIN. INLET PRESSURE (IN. WC)	5.0	10.5
ORIFICE (DMS) 0-2,000 FT (0-610 M)*	#37	#52
*UNIT FACTORY EQUIPPED FOR 0-2000 FT/0-610 M, IN CANADA 0-4500 FT/0-1370M ELECTRICAL RATING: 120 VAC, 60 HZ, LESS THAN 2 AMPS		

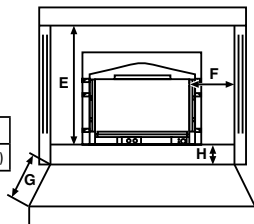
CHIMNEY - USE WITH B-VENT CHIMNEY OR SINGLE WALL. GAS VENT FLEX CHIMNEY LINER LISTED TO UL 1777 OR ULC S635. THIS APPLIANCE MUST BE PROPERLY CONNECTED TO A VENTING SYSTEM IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

FOR ALTITUDES ABOVE 2,000 FT/610M (IN CANADA 4500 FT/1370M) DE-RATE THE APPLIANCE BY FOUR (4)% FOR EVERY 1,000 FT (405 M).

MINIMUM CLEARANCES TO COMBUSTIBLES

E = 32.0" (813mm) from Top Facing or Mantel to Bottom of Insert
 F = 10.5" (267mm) from Edge of Glass to Side Facing or Side Wall
 * See owner's manual for additional mantel clearances and options

MINIMUM CLEARANCES



MINIMUM FIREPLACE SIZES REQUIRED

A = 29.75" (756mm) Front Opening
 B = 19.50" (495mm) Height
 C = 19.00" (483mm) Rear Width
 D = 15.50" (394mm) Fireplace Depth

HEARTH PROTECTION

G = Minimum Hearth Protection from Front of Insert
 H = Vertical Distance from Insert Bottom to Combustible Material

G	13" (330mm)	10" (254mm)	0" (0mm)
H	0" (0mm)	2" (21mm)	4" (102mm)

Note: Hearth protection to be min. 3/8" (10mm) thick non-combustible or equivalent, with a k factor of .84.

CAUTION:

HOT WHILE IN OPERATION. DO NOT TOUCH. SEVERE BURNS MAY RESULT. KEEP CHILDREN, CLOTHING, FURNITURE, GASOLINE AND OTHER LIQUIDS HAVING FLAMMABLE VAPORS AWAY. KEEP BURNER AND CONTROL COMPARTMENT CLEAN. SEE INSTALLATION AND OPERATING INSTRUCTIONS ACCOMPANYING APPLIANCE. FOR USE WITH GLASS DOORS CERTIFIED WITH THIS APPLIANCE ONLY. DO NOT OPERATE THE APPLIANCE WITH GLASS REMOVED, CRACKED OR BROKEN. REPLACEMENT OF THE PANEL(S) SHOULD BE DONE BY A LICENSED OR QUALIFIED PERSON.

WARNING: IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE CAN CAUSE INJURY OR PROPERTY DAMAGE. REFER TO THE OWNER'S INFORMATION MANUAL PROVIDED WITH THIS APPLIANCE. FOR ASSISTANCE OR ADDITIONAL INFORMATION CONSULT A QUALIFIED INSTALLER, SERVICE AGENCY OR GAS SUPPLIER.

Part No. / No. pièce #36237 Rev. A, 05/2007

DO NOT REMOVE OR COVER THIS LABEL

HOMOLOGUÉ FOYER RADIANT PRÉFABRIQUÉ AU GAZ - INSERTION DE FOYER AU GAZ - NE PAS UTILISER AVEC DU COMBUSTIBLE SOLIDE

TESTÉ SELON LA NORME ANSI Z21.88-2005/CSA 2.33-2005 «FOYER RADIANT AU GAZ», UL307B, CSA P.4.1-02, ET CGA 2.17-M91. CET APPAREIL DOIT ÊTRE INSTALLÉ CONFORMÉMENT AUX EXIGENCES DES CODES RÉGIONAUX ET DU CODE D'INSTALLATION ANSI NFPA 54-DERNIÈRE ÉDITION (ÉTATS-UNIS), OU CAN/CSA-B149.1-DERNIÈRE ÉDITION (CANADA). CET APPAREIL DOIT ÊTRE INSTALLÉ SELON LES DIRECTIVES D'INSTALLATION DU FABRICANT. POUR L'INSTALLATION DANS DES FOYERS À COMBUSTIBLE SOLIDE SEULEMENT - DE MAÇONNERIE OU PRÉFABRIQUÉ EN USINE. CE FOYER RADIANT AU GAZ À ÉVACUATION N'EST PAS CONÇU POUR ÊTRE UTILISÉ AVEC DES FILTRES À AIR.

CET APPAREIL DOIT ÊTRE UTILISÉ AVEC LE TYPE DE GAZ INDICÉ SUR LA PLAQUE SIGNALÉTIQUE ET PEUT ÊTRE INSTALLÉ DANS UNE MAISON PRÉUSINÉE OU DANS UNE MAISON MOBILE FIXE, LA OÙ LES CODES RÉGIONAUX LE PERMETTENT. VOIR LE MANUEL D'ENTRETIEN POUR PLUS DE DÉTAILS. CET APPAREIL NE PEUT PAS ÊTRE CONVERTI POUR L'USAGE AVEC D'AUTRES TYPES DE GAZ À MOINS D'UTILISER UNE TROUSSE DE CONVERSION HOMOLOGUÉE.

DANGER: RISQUE DE CHOC ÉLECTRIQUE. DÉBRANCHEZ L'APPAREIL AVANT D'EN FAIRE L'ENTRETIEN.

SI L'APPAREIL REQUIERT UN BRANCHEMENT ÉLECTRIQUE, LES RACCORDEMENTS ET LA MISE À LA TERRE DOIVENT ÊTRE CONFORMES AUX EXIGENCES DES CODES RÉGIONAUX ET DU CODE D'INSTALLATION ANS/NFPA 70 OU CSA C22-1.

SPÉCIFICATIONS	Designer (DBV)	
	GAZ NATUREL	GAZ PROPANE
ENTRÉE MAX/MIN BTU/HR 0-4500 pi (0-1370 M)*	30000/20500	28500/17100
PRESSION À LA SORTIE (IN. WC/E.)	3,5	10,0
PRESSION MINIMUM D'ENTRÉE DU GAZ (IN. WC/E.)	5,0	10,5
ORIFICE (DMS) 0-4500 pi (0-1370 M)*	#37	#52
*L'APPAREIL PRÉUSINÉ EST MUNI D'ÉQUIPEMENT POUR 0-2000 PIEDS (0-610 M), AU CANADA 0-4500 PIEDS (0-1370M). SPÉCIFICATIONS ÉLECTRIQUE 120 VCA, 60 HZ, MOINS DE 2 AMPÈRES		

CHEMINÉE - ÉVACUATION :INSTALLER AVEC DE L'ÉVENT À GAZ DE TYPE B-VENT OU UN CONDUIT FLEXIBLE À SIMPLE PAROI HOMOLOGUÉ COMME TUBAGE.

CET APPAREIL DOIT ÊTRE RELIÉ À UN SYSTÈME D'ÉVACUATION TEL QUE SPÉCIFIÉ DANS LE MANUEL D'INSTALLATION DU FABRICANT.

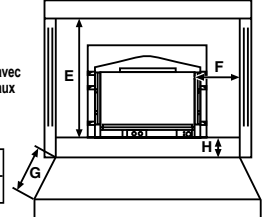
EN ALTITUDE, AU-DELÀ DE 2000 PI/610 M, (AU CANADA 0-4500 PI/0-1370M) LA CAPACITÉ ÉNERGÉTIQUE DE L'APPAREIL DIMINUE DE QUATRE (4)% POUR CHAQUE 1000 PI (405 M).

DÉGAGEMENTS AUX COMBUSTIBLES - DBV40/DBV33

E = Dessus du foyer à partir de la base 35" (889mm)
 F = Mur latéral à partir du centre du foyer 30" (762mm)

* Voir le manuel d'entretien pour les informations supplémentaires reliées aux distances à respecter pour le manteau de foyer

DÉGAGEMENTS MINIMUMS



DIMENSIONS MINIMUMS DE FOYER REQUISES

A = 29.75" (756mm) Ouverture avant
 B = 19.50" (495mm) Hauteur
 C = 19.00" (483mm) Largeur arrière
 D = 15.50" (394mm) Profondeur du foyer

Note: Extension d'âtre fabriqué avec 3/8" (10mm) minimum de matériaux non-combustible ou équivalent possédant un facteur k de 0.84.

PROTECTION DU FOYER

G = Extension d'âtre min. devant le foyer
 H = Distance verticale de la base de l'appareil aux combustibles

G	13" (330mm)	10" (254mm)	0" (0mm)
H	0" (0mm)	2" (21mm)	4" (102mm)

DANGER:

CET APPAREIL DÉGAGE DES TEMPÉRATURES ÉLEVÉES ET DEVRAIT ÊTRE INSTALLÉ À L'ÉCART DES ENDROITS TRÈS PASSANTS ET LOIN DES MEUBLES ET RIDEAUX. SURVEILLEZ LES ENFANTS QUI SE TROUVENT DANS LA PIÈCE. GARDEZ LA ZONE AUTOUR DU FOYER EXEMPTÉ DE MATÉRIAUX COMBUSTIBLES, D'ESSENCE ET AUTRES VAPEURS ET LIQUIDES INFLAMMABLES. MAINTENEZ LE BRÛLEUR ET LE BOÎTIER DES COMMANDES PROPRE EN TOUT TEMPS. VOIR LES MANUELS D'INSTALLATION ET D'ENTRETIEN QUI ACCOMPAGNENT L'APPAREIL. SEUL LE PANNEAU VITRÉ FOURNI PAR LE MANUFACTURIER PEUT ÊTRE UTILISÉ AVEC CET APPAREIL. EN AUCUN CAS, L'APPAREIL NE PEUT ÊTRE UTILISÉ SANS LA VITRE OU AVEC LA VITRE BRISÉE. LE REMPLACEMENT DE LA VITRE DOIT ÊTRE EFFECTUÉ PAR UN TECHNICIEN DE SERVICE QUALIFIÉ.

AVERTISSEMENT: UNE INSTALLATION INADÉQUATE DE MÊME QU'UN AJUSTEMENT, UNE MODIFICATION, UNE RÉPARATION OU UN ENTRETIEN INCORRECTS PEUVENT CAUSER DES BLESSURES OU DOMMAGES À LA PROPRIÉTÉ. RÉFÉREZ-VOUS AU MANUEL D'ENTRETIEN LIVRÉ AVEC CET APPAREIL. POUR DE L'ASSISTANCE, CONSULTEZ UN INSTALLATEUR QUALIFIÉ, UNE ENTREPRISE DE SERVICE OU UN FOURNISSEUR DE GAZ.

DATE OF MANUFACTURE / DATE DE FABRICATION

2007 2008 2009 2010 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
 JANV FEVR MARS AVR MAI JUIN JULI AOÛT SEPT OCT NOV DEC

N'ENLEVEZ PAS OU NE COUVREZ PAS CETTE ÉTIQUETTE

IGN

Lighting Label

FOR YOUR SAFETY READ BEFORE OPERATING

WARNING: IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, INJURY OR LOSS OF LIFE.

CAUTION: HOT WHILE IN OPERATION. DO NOT TOUCH. KEEP CHILDREN, FURNITURE, GASOLINE AND OTHER LIQUIDS WITH FLAMMABLE VAPORS AWAY. NEVER OPERATE UNIT WITH GLASS DOOR OFF OR ATTEMPT TO OPEN THE DOOR WHILE HOT.

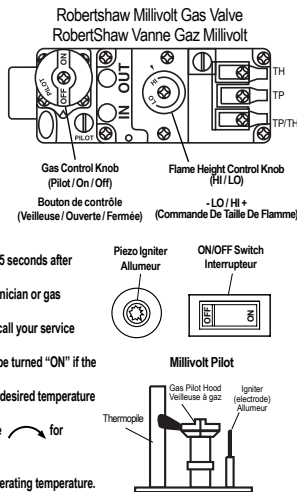
- This appliance is equipped with a piezo ignition device to light the pilot. When lighting the pilot, follow these instructions exactly.
 - BEFORE LIGHTING**, smell around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
- WHAT TO DO IF YOU SMELL GAS:**
- DO NOT try to light the appliance.
 - DO NOT touch any electric switch; do not use any phone in the 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.
- Use only your hand to push in or turn the gas control knob. Never use any tool. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.
 - 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.

OPERATING INSTRUCTIONS

CAUTION: YOUR COUNTRY GAS APPLIANCE MUST ALWAYS BE OPERATED WITH GLASS DOOR IN PLACE.

STOP! Read the safety information above before proceeding.

- Open the lower door. Make sure gas supply shut-off cocks are open and ON/OFF Rocker Switch is "OFF". If equipped with a thermostat, set it to the lowest setting.
- Turn off all electrical power to the appliance.
- Push in Gas Control Knob slightly and turn clockwise to "OFF".
NOTE: Knob cannot be turned from "PILOT" to "OFF" unless Knob is pushed in slightly. Do not force.
- Wait five (5) minutes to clear out any gas. If you smell gas, STOP! Follow "B" above. If you don't smell gas continue.
- Locate the pilot by looking through the burned out V in the left front lower log. Blue flame will be seen when the pilot is lit.
- Turn the gas control knob counterclockwise to the "PILOT" position.
- Push the knob all the way in and hold in that position. Immediately light the pilot by pressing the igniter button several times until pilot is lit. Continue to hold the knob in for about 30 seconds after the pilot is lit. Release knob and it will pop back out. Pilot should remain lit. If it goes out, repeat steps 4-8 holding knob in an additional 15 seconds after pilot is lit.
 - If knob does not pop out when released, stop and immediately call your service technician or gas supplier.
 - If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or your gas supplier.
- After pilot is lit, turn gas control counterclockwise to "ON". Knob can only be turned "ON" if the knob has popped out.
- To turn burner on, turn "ON/OFF" rocker switch to "ON" or set the thermostat to the desired temperature above room temperature.
- Adjust the flame height (and heat output) by turning the flame height knob clockwise for reduced flame and counterclockwise for full flame.
- Turn on all electrical power to the appliance.
- Set the blower to the desired air flow after it turns on when the appliance reaches operating temperature.



TO TURN OFF GAS TO APPLIANCE

- Turn off the "ON/OFF" rocker switch and/or thermostat (if installed).
- Turn off electric power to the appliance if service is to be performed.
- Turn gas control knob clockwise to "OFF". Do not force.

This appliance needs fresh air for safe operation and must be installed so there are provisions for adequate combustion and ventilation air. See Installation and Operation Manual accompanying appliance.

WARNING: Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. For assistance or additional information, consult a qualified installer, service agency or your gas supplier.

Operation of this appliance when not connected to a properly installed and maintained venting system can result in carbon monoxide (CO) poisoning and possible death.

SHUTDOWN PROCEDURE

- To turn off the burner, switch the rocker switch to "OFF" or adjust the thermostat to a setting below room temperature (if installed). The pilot will remain lit for future burner ignition.

#63237 Rev. A, 04/07

For complete shutdown: See "TO TURN OFF GAS TO APPLIANCE" above.

POUR VOTRE SÉCURITÉ, LIRE AVANT L'ALLUMAGE

AVERTISSEMENT: SI VOUS NE RESPECTEZ PAS RIGOREUSEMENT LES INSTRUCTIONS CI-DESSOUS, VOUS POURRIEZ ENCOURIR UN RISQUE D'INCENDIE ET/OU D'EXPLOSION QUI POURRAIENT CAUSER DES DOMMAGES MATÉRIELS ET CORPORELS POUVANT ENTRAÎNER LA MORT.

DANGER: CET APPAREIL DÉGAGE DES TEMPÉRATURES ÉLEVÉES ET DEVRAIT ÊTRE INSTALLÉ À L'ÉCART DES ENDROITS TRÈS PASSANTS ET LOIN DES MEUBLES ET RIDEAUX. GARDEZ LA ZONE AUTOUR DU FOYER EXEMPTÉ DE MATÉRIAUX COMBUSTIBLES, D'ESSENCE ET AUTRES VAPEURS ET LIQUIDES INFLAMMABLES.

- Cet appareil utilise un système d'allumage par étincelle (allumeur Piézo-électrique) pour allumer la veilleuse. Assurez-vous de suivre rigoureusement les instructions d'allumage de la veilleuse.
 - AVANT D'ALLUMER L'APPAREIL**, assurez-vous qu'il n'y a pas d'odeur de gaz près de l'appareil ni près du sol car certains gaz plus lourds que l'air auraient tendance à s'y accumuler en cas de fuite.
- QUE FAIRE SI VOUS SENTEZ UNE ODEUR DE GAZ:**
- N'ALLUMEZ aucun appareil.
 - Ne touchez aucune prise électrique; N'utilisez aucun téléphone dans votre édifice.
 - Sortez de la maison. À partir d'un autre endroit, appelez immédiatement votre fournisseur de gaz et suivez les directives.
 - S'il est impossible de joindre le distributeur du gaz, appelez les pompiers.
- N'utilisez aucun outil pour tourner ou pousser le dispositif de contrôle du gaz. Si vous ne pouvez le faire manuellement, n'essayez pas de réparer l'appareil. Appelez un technicien de service qualifié. Si vous tentez de forcer ou réparer le dispositif de contrôle du gaz vous pourriez encourir un risque d'incendie et/ou d'explosion.
 - N'utilisez pas cet appareil si une de ses composantes a été émergée dans l'eau. Appelez immédiatement un technicien de service qualifié et reconnu afin qu'il inspecte et remplace au besoin toutes pièces du système qui auraient été en contact avec l'eau.

ALLUMAGE

DANGER: VOTRE APPAREIL AU GAZ LENNOX DOIT ÊTRE OPÉRÉ AVEC DES PORTES DE VERRE.

ATTENTION: Lisez les consignes de sécurité ci-dessous avant d'opérer votre appareil.

- Ouvrir la porte du bus. Assurez-vous que l'alimentation en gaz est à la position Fermée "OFF". Si l'appareil est équipé d'un thermostat, placez-le à la température la plus basse.
- Couper le courant électrique qui alimente l'appareil.
- Enfoncer légèrement le bouton de contrôle du gaz et tournez-le dans le sens des aiguilles d'une montre à la position "OFF".
NOTE: Le bouton de contrôle du gaz ne peut être tourné de la position "PILOT" à "OFF" sans qu'une légère pression ne soit appliquée.
- Attendez au moins 5 minutes pour que le gaz qui se trouve dans la chambre de combustion puisse s'échapper. Si vous sentez une odeur de gaz ARRÊTEZ! Référez-vous à la section B ci-dessus. Si vous ne sentez pas d'odeur de gaz, allez à la prochaine étape.
- Vous pouvez aussi voir le pilote en regardant à travers le V situé dans le bas de la bûche gauche avant. Une flamme bleue est visible lorsque la veilleuse est allumée.
- Tournez le bouton de contrôle de gaz dans le sens inverse des aiguilles d'une montre pour le placer sur "PILOT".
- Cet appareil de chauffage est équipé d'un système d'allumage par étincelle (allumeur Piézo-électrique), devant être utilisé pour l'allumage de la veilleuse. Poussez complètement le bouton de contrôle du gaz et le maintenir dans cette position. Appuyez immédiatement sur le bouton (allumeur Piézo-électrique) situé à gauche du robinet de contrôle du gaz. L'étincelle produite par l'allumeur Piézo-électrique doit allumer la veilleuse. Continuez à maintenir le bouton de contrôle dans cette position pendant environ 30 secondes après l'allumage de la veilleuse. Relâchez le bouton de contrôle du gaz qui reviendra à la position initiale. La veilleuse doit rester allumée. Répétez les étapes 4 à 8 pendant 15 secondes supplémentaires si la veilleuse s'éteint.
- Si le bouton de contrôle du gaz ne revient pas à la position initiale une fois relâché, appeler immédiatement un technicien qualifié ou votre distributeur de gaz.
- Si la veilleuse ne reste pas allumée après plusieurs essais, tournez le bouton de contrôle du gaz à la position "OFF" et appelez immédiatement un technicien qualifié ou votre distributeur de gaz.
- Lorsque la veilleuse est allumée, tournez le bouton de contrôle du gaz dans le sens inverse des aiguilles d'une montre pour le placer à la position "ON". Le bouton de contrôle peut-être tourné à la position "ON" seulement si il n'est plus enfoncé.
- Pour allumer le brûleur, mettre l'interrupteur à la position "ON" ou ajustez le thermostat à la température souhaitée.
- Ajustez la flamme et la température souhaitée en tournant le bouton de réglage de la flamme dans les sens des aiguilles d'une montre pour l'augmenter et dans le sens contraire pour l'abaisser.
- Allumez l'alimentation électrique de l'appareil.
- Ajustez le ventilateur au volume désiré lorsque l'appareil aura atteint la température de fonctionnement.

POUR COUPER L'ALIMENTATION EN GAZ DE L'APPAREIL

- Fermez l'interrupteur et/ou le thermostat «MARCHÉ/ARRÊT».
- Coupez l'alimentation électrique de l'appareil si vous prévoyez en faire le service.
- Tournez le bouton de commande du gaz dans le sens des aiguilles d'une montre à "OFF". Ne le forcez pas.

Cet appareil a besoin d'air frais pour opérer sècrairement et doit être installé pour qu'il y ait un apport en air suffisant. Référez-vous aux manuels d'entretien et d'installation fournis avec l'appareil.

AVERTISSEMENT: Une installation inadéquate, un mauvais ajustement, une altération ou toutes autres modifications inappropriés pourraient entraîner des blessures physiques et/ou des dommages matériels. Référez-vous au guide d'utilisation fourni avec ce foyer. Pour assistance ou information supplémentaires contactez un installateur qualifié, un agent de service ou un fournisseur de gaz.

Si vous opérez cet appareil sans qu'il ne soit correctement raccordé à un conduit d'évacuation, vous pourriez risquer d'être empoisonné au monoxyde de carbone (CO) ce qui pourrait entraîner des conséquences grave ou la mort.

PROCÉDURE D'ARRÊT

- Pour arrêter le brûleur, mettre l'interrupteur à la position "OFF" ou ajustez le thermostat à une température en dessous de la température ambiante. La veilleuse restera allumée pour permettre un allumage ultérieur.

Pour un arrêt complet: Consultez la procédure ci-dessus «POUR COUPER L'ALIMENTATION EN GAZ DE L'APPAREIL».

IGN

WARRANTY

Your gas insert is covered by a limited warranty (provided with appliance). Please read the warranty to be familiar with its coverage.

Retain this manual. File it with your other documents for future reference.

PRODUCT REFERENCE INFORMATION

We recommend that you record the following important information about your fireplace. Please contact your Lennox Hearth Products dealer for any questions or concerns. For the number of your nearest Lennox Hearth Products dealer, please call 877-247-3673.

REPLACEMENT PARTS

See **Page 22** for a complete replacement parts list. Use only parts supplied from the manufacturer.

Normally, all parts should be ordered through your Lennox Hearth Products distributor or dealer. Parts will be shipped at prevailing prices at time of order.

When ordering repair parts, always give the following information:

1. The model number of the appliance.
2. The serial number of the appliance.
3. The part number.
4. The description of the part.
5. The quantity required.
6. The installation date of the appliance.

If you encounter any problems or have any questions concerning the installation or application of this system, please contact your distributor, or Lennox Hearth Products directly:

LENNOX HEARTH PRODUCTS
PO Box 987
Auburn, WA 98071
Visit us at www.Lennox.com

Your Fireplace Insert's Model Number _____
Your Fireplace Insert's Serial Number _____
The Date On Which Your Fireplace Insert Was Installed _____
The Type of Gas Your Fireplace Insert Uses _____
Your Dealer's Name _____
Fuel Type (Check one) Natural Gas Propane Gas (LP)

**NATIONAL
FIREPLACE
INSTITUTE**



CERTIFIED
www.nficertified.org

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

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

Printed in U.S.A. © Lennox Hearth Products 2007
P/N 775,220M REV. A 05/2007



HEARTH PRODUCTS
1110 West Taft Avenue • Orange, CA 92865