

P/N 725,035M REV. E 03/2010



OTL Report No. 116-F-32-5

Direct-Vent

MODELS

Millivolt Models

SSDVST-CNM-B
SSDVPF-CNM-B

Electronic Models

SSDVST-CNE-B
SSDVPF-CNE-B

Ce manuel d'installation est disponible en français, simplement en faire la demande. Numéro de la pièce 725,035CF

WARNING 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.**

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'incendie ou d'explosion ou pour éviter tout dommage matériel, toute blessure ou la mort.

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

CONGRATULATIONS!

In selecting this Superior direct-vent gas appliance you have chosen the finest and most dependable fireplace to be found anywhere. It's a beautiful, prestigious alternative to a wood burning fireplace. Welcome to a family of tens of thousands of satisfied Superior fireplace owners.

Please carefully read and follow all of the instructions found in this manual. Please pay special attention to the safety instructions provided in this manual. The care and operation instructions included here will assure that you have many years of dependable and enjoyable service from your Superior fireplace.

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This manual is part of a set of two supporting this product. Refer to manual 700,031M for Installation Instructions.



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.

INTRODUCTION

The fireplace models covered in this manual are direct-vent sealed combustion gas fireplace heaters designed for residential application. These direct-vent appliances operate with the combustion chamber completely isolated from the indoor environment.

All air for combustion is brought in from the outside and exhaust gases are vented through the same direct-vent, co-axial (intake/exhaust) vent system.

The **Millivolt** appliances have a millivolt gas control valve with piezo ignition system. If any optional accessories which require electrical power are being installed, the electrical power must be provided at the time of appliance installation.

The **Electronic** appliances have an electronic intermittent pilot system. External electrical power is required to operate these appliances.

These appliances comply with National Safety Standards and are tested and listed by OMNI-Test Laboratories, Inc. (Report No.116-F-32-5) to ANSI Z21.88b (in Canada, CSA-2.33b), and CAN/CGA-2.17-M91 in both USA and Canada, as vented gas fireplace heaters.

The Installation must conform to local codes or, in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1/NFPA 54-latest edition, or the Natural Gas and Propane Installation Code, CSA B149.1-latest edition. The appliance, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, the latest edition of the National Electrical Code, ANSI/NFPA 70, or the Canadian Electrical Code, CSA C22.1 - latest editions.

GENERAL INFORMATION



WARNING

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



AVERTISSEMENT

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.



WARNING

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



AVERTISSEMENT

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



WARNING

Improper installation, 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.

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.

Note: Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etcetera. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean. See maintenance instructions on Page 8.

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

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

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

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

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

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

Due to high temperatures the appliance should be located out of traffic and away from furniture and draperies. Locate furniture and window coverings accordingly.

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

The vent termination is hot while in operation and for a period of time following the use of the fireplace. Young children should be carefully supervised when they are in the same area as a hot termination. To prevent contact with hot surfaces, we recommend the use of a termination guard. See Page 15 for ordering information.

These fireplaces are designed as supplemental heaters. Therefore, it is advisable to have an alternate primary heat source when installed in a dwelling.

These appliances are designed to operate on natural gas or propane gas only. The use of other fuels or combination of fuels will degrade the performance of this system and may be dangerous.

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

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



WARNING

These fireplaces are vented gas appliances. Do not burn wood or other material in these appliances.



WARNING

Failure to comply with the installation and operating instructions provided 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 from fire, burns, explosion or carbon monoxide poisoning.



WARNING

This appliance is only for use with the type of gas indicated on rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used.



AVERTISSEMENT

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

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



AVERTISSEMENT

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

Millivolt Models - BTU Input

Millivolt models come standard with the manually-modulated gas valve; flame appearance and heat output can be controlled at the gas valve. The BTU Input for millivolt models is shown in **Table 1**:

Input (BTU) Manually-Modulated Gas Valves (millivolt models)		
Models	Fuel Type	Input Rate (BTU / HR)
SSDVST SSDVPF	Natural or Propane Gas	37,500 high 30,000 low

Table 1

Electronic Models -

Electronic models have a fixed rate gas valve. The BTU Input for electronic models is shown in **Table 2**:

Input (BTU) - Fixed Rate (electronic models)		
Models	Fuel Type	Input Rate (BTU / HR)
SSDVST SSDVPF	Natural or Propane Gas	37,500

Table 2

Gas Pressure -

Tables 3 and 4 show the appliances' gas pressure requirements.

Inlet Gas Supply Pressure (all models)		
Fuel #	Minimum	Maximum
Natural Gas	5.0" WC (1.24 kPa)	10.5" WC (2.61 kPa)
Propane	11.0" WC (2.74 kPa)	13.0" WC (3.23 kPa)

Table 3

Manifold Gas Supply Pressure (all models)		
Fuel #	Low (millivolt only)	High
Natural Gas	(Lo) 2.2" WC (.55 kPa)	(Hi) 3.5" WC (.87 kPa)
Propane	(Lo) 6.3" WC (1.57 kPa)	(Hi) 10.0" WC (2.49 kPa)

Table 4

Test gauge connections are provided on the front of the millivolt gas control valve, identified IN for the inlet and OUT for the manifold side (see **Figure 3** on **Page 6**). A 1/8" NPT Test gauge connection is provided at the inlet and outlet (manifold) ports on the electronic gas control valve (see **Figure 4** on **Page 6**).

These appliances must be isolated from the gas supply piping system (by closing their 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).

These appliances and their individual shut-off valves must be disconnected from the gas supply piping system during any pressure testing of that system at pressures **greater than** 1/2 psig (3.5 kPa).

Orifice Sizes - Sea Level to High Altitude (All Models)

These appliances are tested and approved for installation at elevations of 0-4500 feet (0-1372 meters) above sea level using the standard burner orifice sizes (marked with an "*" in **Table 5**). For elevations above 4500 feet, contact your gas supplier or qualified service technician.

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

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

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

NOTE: Flame appearance will diminish 4% per thousand feet.

NOTE: Each model has two burners and 2 Orifices.

Burner Orifice Sizes Elevation 0-4500 feet (0-1372 meters)		
Model Series	Nat. Gas drill size (inches)	Propane drill size (inches)
SSDVST SSDVPF	#44 (.086") * 60J80 •	#55 (.052") ** 19L52 •

* Standard size installed at factory
** Standard size in LP conversion kit
• Part /Cat. Number

Table 5

Burn-in Period

During the first few fires of this appliance there will be some odor due to the curing of the paint and burning off of lubricants used in the manufacturing process. Depending on your use, the burn-in period may take a few hours or a few days.

KEEP YOUR HOUSE WELL VENTILATED DURING THE CURING PROCESS. THE ODOR AND HAZE EMITTED DURING THE CURING PROCESS CAN BE QUITE NOTICEABLE AND MAY SET OFF A SMOKE DETECTOR.

If an optional blower is installed, Do Not turn it on during the Burn-In period.

A white film may develop on the glass front during the first few fires as part of the curing process. The glass should be kept clean during the first two weeks of use to prevent the film from baking on (making it very difficult to remove). See **Cleaning Glass** on **Page 8**.

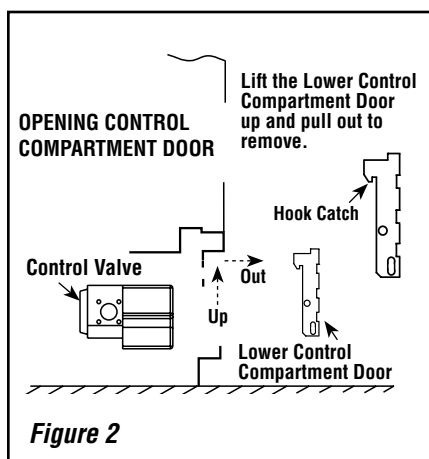
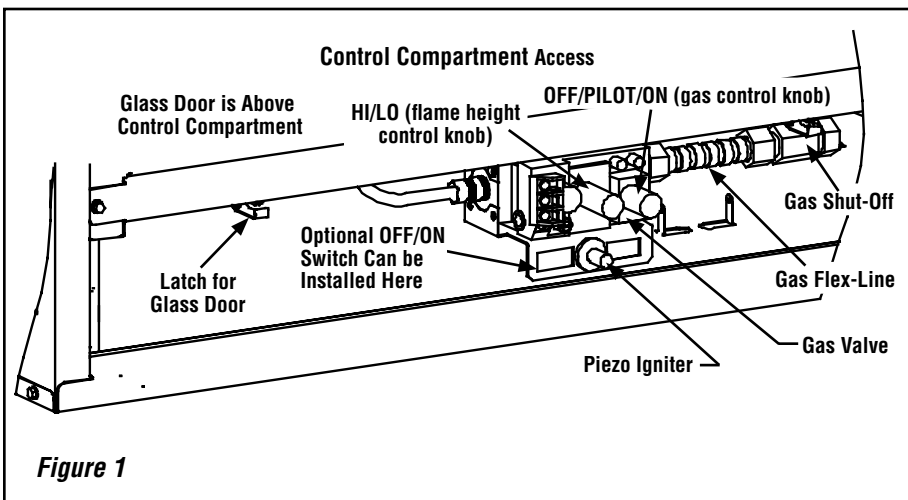
OPERATION AND CARE OF YOUR APPLIANCE

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.



Gas Controls/Control Compartment Access

The gas controls can be found behind the control compartment access door.

NOTE: The top louvered panel and the bottom louvered control compartment door will remove and install the same way as follows:

Removing Control Compartment Door:

Open the door by gently lifting it upward until the hook catches on both sides clear the locating slots. Then pull door out to remove.

On millivolt systems, the piezo igniter, HI/LO flame adjustment knob, and pilot and main gas OFF/PILOT/ON control knob are located below the glass panel enclosure. The gas valve for electronic systems is also located below the glass enclosure panel. See **Figure 1**.

Reinstalling Control Compartment Door:

To reinstall, insert the hook catches on each side of the door into the corresponding slots in the control compartment opening, then gently push forward and slide down until it locks in place.

The standard controls for appliance operation are located behind the lower louvered control compartment door located below the appliance front glass enclosure panel (see **Figure 1**). Optional control switches are also available (see **Page 14**- *Rocker Switch, Remote Wall Switch, Remote Control, Unit Mounted Rocker Switch or Wall Thermostat*).

Operation of millivolt and electronic gas control systems are different. Before lighting and operating your appliance determine if you have a millivolt or electronic appliance. Familiarize yourself with the gas control valve that your appliance uses. Refer to **Figure 2** for access to the gas control valve.

Millivolt Appliances - Appliances with Millivolt systems will be fitted with the gas control valve shown in **Figure 3 on Page 6**.

Electronic Appliances - Appliances with electronic systems will be fitted with the electronic valve shown in **Figure 4 on Page 6**.

Millivolt Appliances

To light millivolt appliances refer to **Figure 1**. Detailed lighting instructions are found on **Pages 17 and 18**. Millivolt appliance lighting instructions may also be found on the pull out lighting instruction labels attached to the gas control valve.

Once the pilot is lit, the main burner may be turned ON and OFF using a wall switch, remote control, optional on unit rocker switch (FRS), or wall thermostat. To operate: Toggle the switch between its ON and OFF positions.

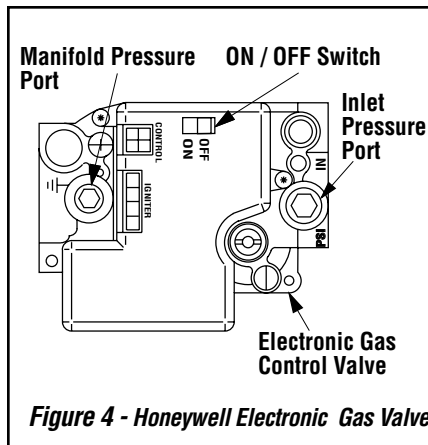
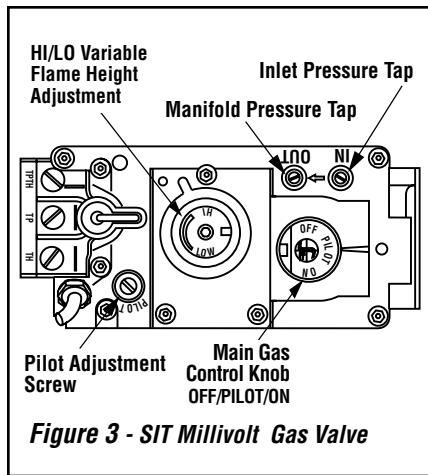
If your millivolt appliance is equipped with an optional remote switch kit (wall switch, remote control, rocker switch, or wall thermostat) and the pilot is lit, the appliance main burner may be turned on and off using the optional switch.

Note: To prevent excessive resistance in burner circuit (which can cause burner operation problems), only one burner control switch should be wired to valve.

Electronic Appliances -

To light electronic appliances refer to detailed lighting instructions found on **Pages 19 and 20**. **Electronic appliance lighting instructions may also be found on the pull out lighting instruction labels attached to the gas control valve.**

Once the pilot is lit, if your electronic appliance is equipped with an optional burner control switch kit the appliance main burner may be turned on and off using the optional switch (See optional accessories on **Page 14** - Wall Switch, Wall Thermostat Or Remote Control Receiver).



Variable Flame Height Adjustment (Millivolt Appliances only)

All Millivolt appliances are equipped with a variable gas control valve. Flame height for these models may be adjusted through a range between fixed low and high settings while the appliance is in operation. Adjust the flame height as desired after lighting the appliance by rotating the variable adjustment control knob (HI/LO) located on the front of the valve (refer to **Figure 3**).

HOMEOWNER'S INSTRUCTIONS - ATTACHING SAFETY IN OPERATION WARNINGS

ATTACHING SAFETY IN OPERATION WARNINGS

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

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

Cat. No. H8024 Replacement Label Kit

LENNOX HEARTH PRODUCTS
1-800-9-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

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

1. Repérez l'interrupteur ou le thermostat mural qui contrôle le foyer (vérifiez que l'interrupteur contrôle le fonctionnement du foyer en le faisant basculer de Marche à Arrêt, et vice-versa). Nettoyez soigneusement la plaque murale de l'interrupteur ou le thermostat mural pour éliminer la poussière et les traces de graisse ou d'huile. Collez l'étiquette sur la surface de la plaque de l'interrupteur mural qui contrôle le foyer (*Figure A*) ou du thermostat mural (*Figure B*). Choisissez la langue qui est principalement parlée dans la résidence du propriétaire.
2. Si une télécommande est utilisée pour contrôler le foyer, nettoyez la soigneusement pour éliminer la poussière et les traces de graisse ou d'huile. Collez l'étiquette sur le boîtier de la télécommande (*Figure C*). Choisissez la langue qui est principalement parlée dans la résidence du propriétaire.
3. Si vous ne trouvez pas les étiquettes, veuillez appeler Lennox Hearth Products ou votre distributeur Lennox Hearth Products local pour recevoir gratuitement des étiquettes supplémentaires.

Étiquettes de remplacement, n° cat. H8024

LENNOX HEARTH PRODUCTS
1-800-9-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

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

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

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

LENNOX HEARTH PRODUCTS
1-800-9-LENNOX

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

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

⚠ AVERTISSEMENT

Un foyer chaud peut causer de graves brûlures
Ne laissez jamais un enfant toucher à la vitre ou à toutes autres parties du foyer



Figure A

⚠ ADVERTENCIA

La chimenea caliente causará quemaduras graves
Nunca permita que los niños toquen el vidrio ni otras partes de la chimenea



Figure B

⚠ WARNING

Hot Fireplace Will Cause Severe Burns
Never Allow Children to Touch Glass or other Fireplace Parts



Figure C

NOTE: DIAGRAMS & ILLUSTRATIONS ARE NOT TO SCALE.

MAINTENANCE

(See Maintenance Schedule, **Page 21**)

Refer to the maintenance schedule for maintenance tasks, procedures, frequency and by whom they should be performed. Always verify proper operation of the appliance after servicing.



WARNING

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

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

Verify proper operation after servicing.

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

Always turn off gas to the pilot (millivolt appliances) before cleaning. Before re-lighting, refer to the lighting instructions in this manual. Instructions are also found on a pull-out panel located in the control compartment.

Inspect Venting System

The appliance and venting system should be thoroughly inspected before initial use and at least annually by a qualified service technician (inspection should include ensuring that exhaust or intake passages are unobstructed and vent components are properly assembled and not damaged). **Homeowner must contact a qualified service technician at once if any abnormal condition is observed.**

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

Cleaning Glass

(see *Front Glass Enclosure Panel, Removal and Installation* on **Page 9**).

Note: Clean glass after first two weeks of operation (after Burn-In period is over) and then only when necessary and when the fireplace is cool. Wipe surface with clean, dampened, soft cloth. Follow with a dry, soft towel as desired. Take care not to scratch the glass surface.

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

The viewing glass should be cleaned periodically to remove any build-up caused from the following:

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

It is recommended that the glass be cleaned two or three times during each heating season, depending on the circumstances present. The following cleaning solutions are approved for use to clean glass:

- Non-ammonia based household cleaner
- 50%-50% mix of white vinegar and water
- Gas fireplace/stove glass cleaner

Inspect Glass Gasket - Visually inspect the gasket on the backside of the glass enclosure panels. The gasket surface must be clean, free of irregularities and seated firmly.

Clean Control Compartment

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

Clean Logs And Burner

Carefully remove the logs (use care when handling the fiber logs, as they become quite fragile after curing). Vacuum out any foreign matter (lint, carbon, etc.) on the burner. Ensure the burner ports are "open." Remove any carbon deposits from the under side of the logs using a vacuum cleaner, or a soft bristled brush (i.e. paint brush).

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

Replacing Logs

If the logs become damaged by accident or improper handling and need replacement, use only the proper replacement logs from manufacturer (see **Page 24** for ordering information).

Re-Install Embers, Logs and Volcanic Stone

Carefully follow placement instructions on **Page 10**. All logs should fit onto corresponding pins and/or log stoppers. This will ensure a proper flame and safe combustion.

Inspect Wiring

Refer to wiring diagrams on **Page 13**.

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

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

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

- Terminals at the Valve
- OFF/ON Switch
- (Optional Control Switch) Wall Thermostat, Remote Control or Remote Wall Switch Kit

Inspect Burner Flame Appearance

Ensure that the burner flame appearance resembles the flame shown in **Figures 7 and 10** and as described in *Flame Appearance and Sooting* on **Page 11**. The Homeowner must contact a qualified service technician at once if any abnormal condition is observed.

Small Area Paint Touch-up

Only use a factory supplied paint kit for touch-ups. Paint is available at your local authorized LHP dealer. Never attempt to paint a hot fireplace.

If the surface later becomes stained or marred, it may be lightly sanded and touched up with spray paint.

Front Glass Enclosure Panel, Removal and Installation

WARNING

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

WARNING

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

AVERTISSEMENT

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

WARNING

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

AVERTISSEMENT

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

Only doors certified with the appliance shall be used.

Seules des portes certifiées pour cet appareil doivent être utilisées.

CAUTION: DO NOT abuse glass door by striking or slamming shut.

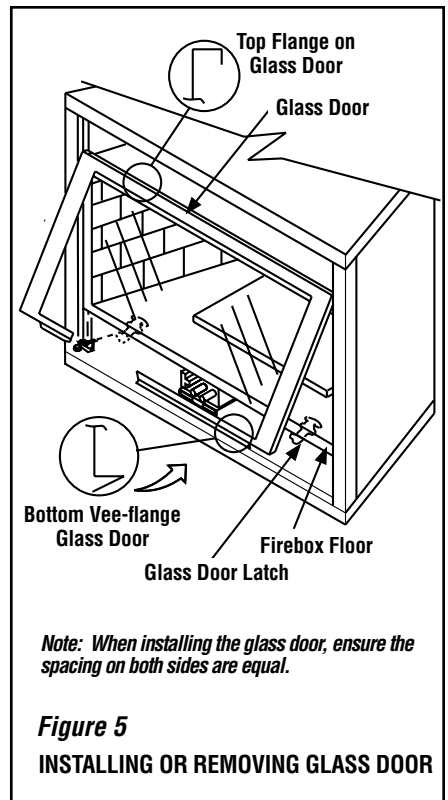
These are direct-vent appliances. They are designed to operate only when the front glass enclosure panels are installed. Generally the front glass enclosure panel should not be removed except to gain access to the components within the firebox.

Removing Glass Enclosure Panels (see Figure 5)

1. Remove the top louver assembly the control compartment louver assembly by lifting them up, then pulling out (see **Figure 2 on Page 5**).
2. Locate the two (2) latches at the top of the control compartment. To disengage the two latches from the bottom vee-flange of the glass enclosure panel, reach for the handles located towards the back of the latches and pull the handles down toward the front of the appliance.
3. Swing the bottom of the door out and raise it slightly to lift the top flange of the door frame away from the appliance.

Installing Glass Enclosure Panels (see Figure 5)

1. Visually inspect the gasket on the backside of the panels. The gasket surface must be clean, free of irregularities and seated firmly.
2. Position the glass enclosure panel in front of the firebox opening at a 45 degree angle and engage the top flange over the lip at the top of the firebox opening.
3. Swing the glass enclosure panel down and back. Ensure the gasket seats evenly as the panel draws shut. Engage the Vee-flange at the bottom of the panel with the latches and close the latches to secure the panel.
4. Reinstall the lower control compartment door (see **Figure 2 on Page 5**).



INSTALLING LOG SET, VOLCANIC STONE AND GLOWING EMBERS

WARNINGS

- **DO NOT** attempt to install the logs until the appliance installation has been completed, the gas line connected and tested for leaks and the initial burner operation has been checked out.
- The size and position of the log set was engineered to give the appliance a safe, reliable and attractive flame pattern. Any attempt to use a different log set in the fireplace will void the warranty and will result in incomplete combustion, soot-ing, and poor flame quality.
- Logs get very hot and will remain hot up to one hour after gas supply is turned off. Handle only when logs are cool. Turn off all electricity to the appliance before you install grate, volcanic stone, embers and logs.

⚠ WARNINGS

- This appliance is not designed to burn wood. Any attempt to do so could cause irreparable damage to appliance and prove hazardous to your safety.
- If logs are not installed according to the log installation instructions, flame impingement and improper combustion could occur and result in soot and/or excessive production of carbon monoxide (CO), a colorless, odorless, toxic gas.

Burner / Grate Location Reference (see Figures 8 and 9)

Note: If the burners have been removed for any reason, rear burner must be installed before front burner. See Figures 8 and 9.

Install the decorative volcanic stone and glowing embers (rockwool):

Spread the decorative volcanic stone on the simulated brick floor of the firebox around the burners to simulate ashes. Maintain a 1/2 inch (13 mm) gap between the bottom of the horizontal grate section and the top of the pile of decorative volcanic stone. Place a few quarter-sized pieces of the glowing ember material on the pan burner in front of the burned out area on both sides of the log set. The glowing embers may touch one another, but should not overlap each other.

Install the unitized log set:

- The bottom of the log set is notched to accommodate the pilot.
- Place the log set so that the four inner notches on the underside of the log set fit over the four risers located on the burner ends. See **Figure 7**. This procedure is accomplished primarily by feel, as the log set masks the burner risers as it is being installed.
- As a final check for correct log set placement, check that the four outer notches on the underside of the log set fit over the burner tines as indicated in **Figure 7**.

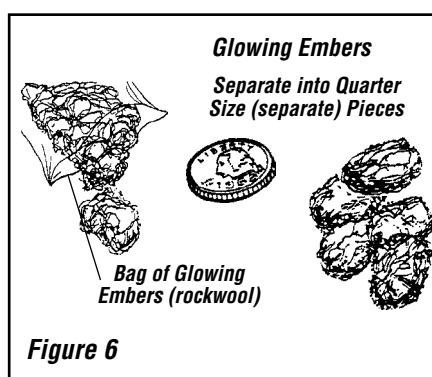


Figure 6

REFERENCE Firebox Accessories / Parts		
Cat. No.	Model No.	Description
88L53	FGE	Bag of Glowing Embers
80L42	FDVS	Bag of Decorative Volcanic Stone

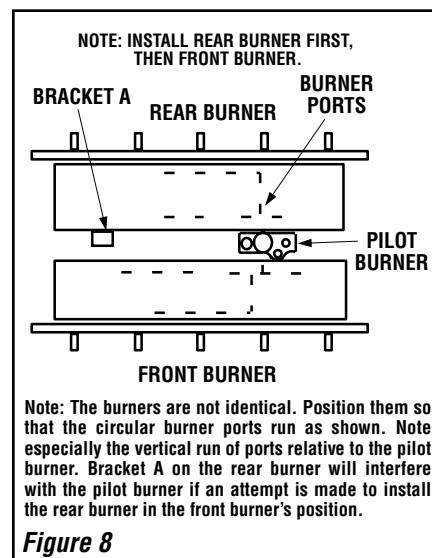


Figure 8

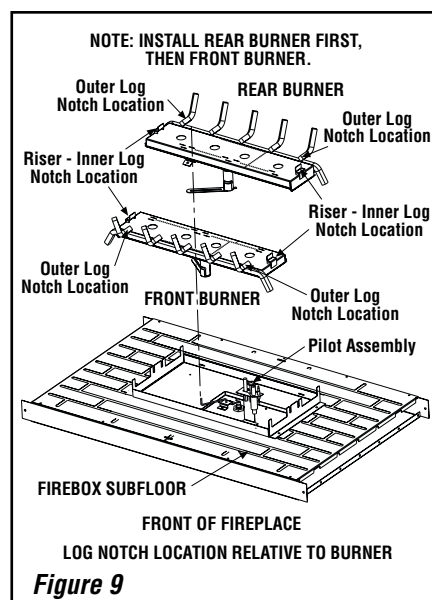


Figure 9

Proper Burner Flame Appearance

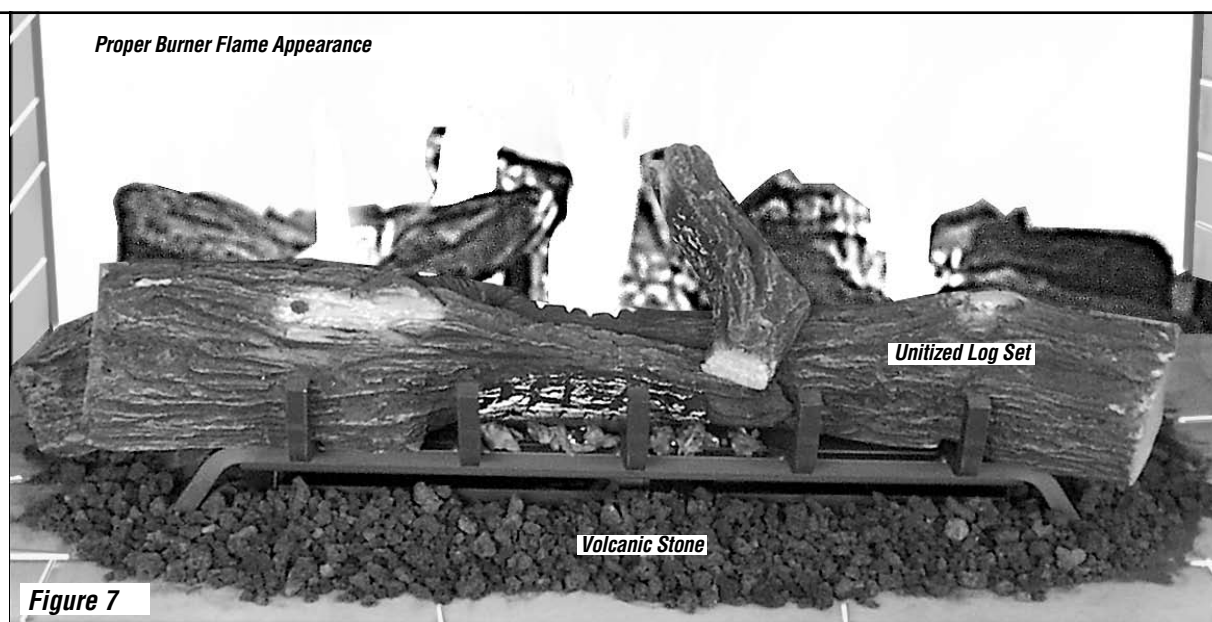


Figure 7

BURNER ADJUSTMENTS
(QUALIFIED TECHNICIANS ONLY)

Flame Appearance and Sooting

Proper flame appearance is a flame which is blue at the base and becomes yellowish-orange in the body of the flame. When the appliance is first lit, the entire flame may be blue and will gradually turn yellowish-orange during the first 15 minutes of operation. After 15 minutes of operation, if the flame is blue, or if the flame is orange with evidence of sooting (black tip), the air shutter opening may need to be adjusted.

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

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

Air Shutter Adjustment Guidelines

- If there is smoke or soot present, first check the log set positioning to ensure that the flames are not impinging on any of the logs. If the log set is properly positioned and a sooting condition still exists, then the air shutter opening should be increased.
- The more offsets in the vent system, the larger the air shutter opening will need to be.
- An appliance operated with the air shutter opened too far, may have flames that appear blue and transparent. These weak, blue and transparent flames are termed anemic.
- Propane models may exhibit flames which candle or appear stringy. If this is present and persists, adjust the air shutter to a more open position, then operate the appliance for a few more minutes to ensure that the flame normalizes and the flames do not appear sooty.

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

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



Figure 10 - Burner Flame Appearance

Burner Air Shutter Adjustment Procedure

⚠️ WARNINGS

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

⚠️ CAUTIONS

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

1. Locate adjustment rod and adjust air shutter to the standard setting as shown in **Figure 11** (adjustment rod is located in the lower control area).

Note: Rotating the adjustment rod counterclockwise decreases air and clockwise increases air.

2. Light appliance (follow lighting procedure on lighting label in control compartment or see care and operation manual).
3. Allow the burner to operate for at least 15 minutes while observing the flame continuously to ensure that the proper flame appearance has been achieved (see **Figures 7 and 10**). If the following conditions are present, adjust accordingly.
 - If flame appears weak or sooty, adjust the air shutter, incrementally, to a more open position until the proper flame appearance is achieved.
 - If flame stays lowered blue, adjust the air shutter, incrementally, to a more closed position until the proper flame appearance is achieved.
4. Leave the control knob (off/pilot/on) in the ON position and the burner OFF/ON switch OFF (and remote switches, if applicable).
5. When satisfied that the burner flame appearance is normal, close the lower control compartment door then proceed to finish the installation.

***Main Burner Factory Air Shutter Opening Setting - All Models	
Natural Gas inches (mm)	Propane Gas inches (mm)
* TWO 1/8 (3) Slots	** TWO 11/16 (17) Slots

Adjustment Rod Positions, viewed from above:

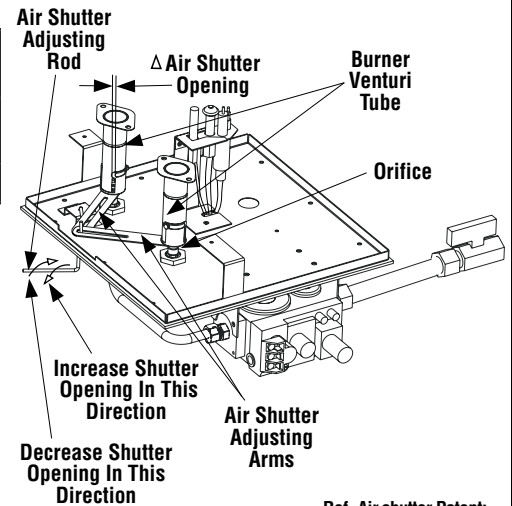
* Natural Gas - fully clockwise

** Propane - fully counter clockwise

***Settings are shown for each burner.

△ Note - Both air shutters open and close simultaneously when the air shutter adjusting rod is moved.

Burners are omitted in this view for clarity.



Ref. Air shutter Patent:
U.S. Pat. 5,553,603

Figure 11

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" (10 mm) at the pilot generator (thermopile) and the top 1/8" minimum (tip) of the quick drop out thermocouple should be engulfed in the pilot flame. The flame should project 1" (25 mm) beyond the hood at all three ports (see **Figure 12**).

To light the burner, refer to the lighting instructions on **Pages 17 and 18**.

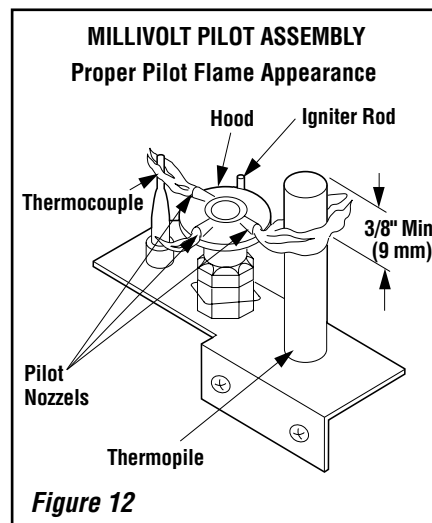


Figure 12

Electronic Appliance Checkout

To light the burner, refer to the lighting instructions on **Pages 19 and 20**. Ensure the igniter lights the pilot. The pilot flame should engulf the flame sensor as shown in **Figure 13**.

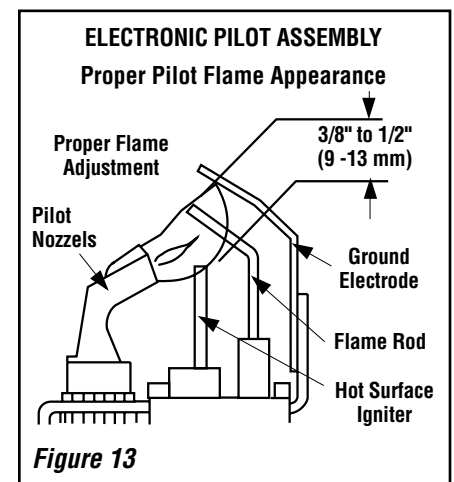


Figure 13

NOTE: DIAGRAMS & ILLUSTRATIONS ARE NOT TO SCALE.

WARRANTY

Your gas appliance is covered by a limited twenty year warranty. You will find a copy of the warranty accompanying this manual. Please read the warranty to be familiar with its coverage.

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

REPLACEMENT PARTS

A complete parts list is found at the end of this manual. Use only parts supplied from the manufacturer.

With proper care and maintenance, your appliance will provide many years of enjoyment. If you should experience any problem, first refer to the troubleshooting guide in this manual. If problem persists, contact your LHP dealer or distributor.

Normally, all parts should be ordered through your LHP 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 dealer or distributor.

LHP

1508 Elm Hill Pike, Suite 108
Nashville, TN 37210
visit us at www.Lennox.com
1-800-9-LENNOX

PRODUCT REFERENCE INFORMATION

We recommend that you record the following important information about your fireplace. Please call LHP for the phone number of your nearest LHP dealer who will answer your questions or address your concerns.

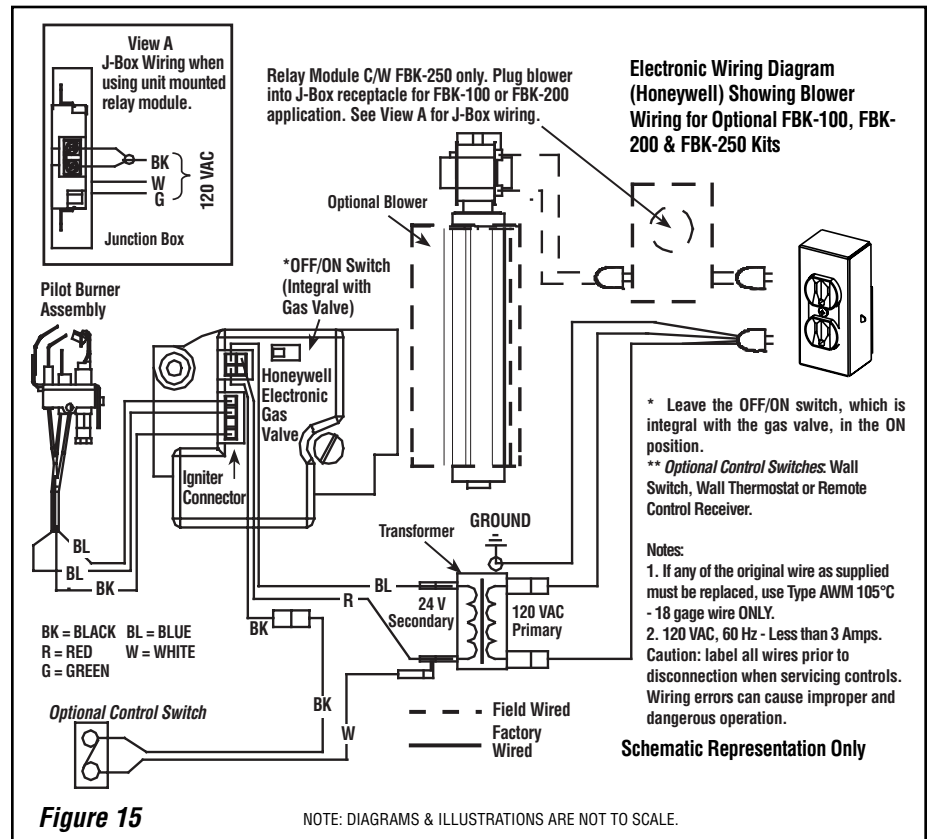
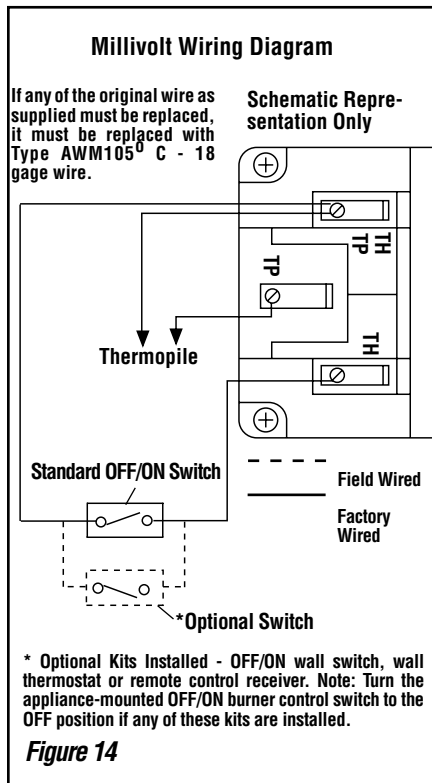
Your Fireplace's Model Number _____
Your Fireplace's Serial Number _____
The Date On Which Your Fireplace Was Installed _____
The Type of Gas Your Fireplace Uses _____
Your Dealer's Name _____

WIRING DIAGRAMS

Wiring diagrams are provided here for reference purposes only. This information is also provided on schematics attached directly to the appliance on a pullout panel located within the control compartment.

CAUTION: LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS. WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS APPLIANCE OPERATION.

ATTENTION : AU MOMENT DE L'ENTRETIEN DES COMMANDES, ÉTIQUETEZ TOUS LES FILS AVANT DE LES DÉBRANCHER. DES ERREURS DE CÂBLAGE PEU-VENT ENTRAÎNER UN FONCTIONNEMENT INADÉQUAT ET DANGEREUX.



ACCESSORY COMPONENTS

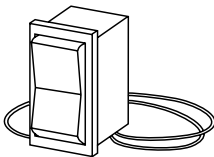
PRODUCT REFERENCE INFORMATION			
Cat. No.	Model	Ship Wt.	Ship. Volume
H3335	SSDVPF-CNM	270 lbs	52W x 27D x 44 1/2H (36.2 cu.ft.)
H3336	SSDVPF-CNE	270 lbs	52W x 27D x 44 1/2H (36.2 cu.ft.)
H3333	SSDVST-CNM	282 lbs	52W x 27D x 44 1/2H (36.2 cu.ft.)
H3334	SSDVST-CNE	282 lbs	52W x 27D x 44 1/2H (36.2 cu.ft.)



Digital Wall Thermostat

The wall thermostat kit provides temperature control for optimum comfort.

Wall Thermostat, Millivolt		
Cat. No.	Model No.	Description
H4635	DWTK	Wall Thermostat Kit, White



Unit-Mountable Rocker Switch

This rocker switch kit can be installed directly in the gas valve mounting bracket (millivolt gas valve equipped fireplaces) to provide On/Off operation in lieu of a wall switch.

Rocker Switch Kit		
Cat. No.	Model No.	Description
80L41	FRS	Rocker Switch Kit

(ref. Form # 750,037M)



Standard Remote Control System

The Model RCL (Standard) Remote Control System, features a simplistic OFF/ON control function for the fireplace. This model includes a hand-held transmitter, a remote receiver with wall-mount cover plate and all hardware required to install the unit. The remote receiver can be wall or hearth mounted.

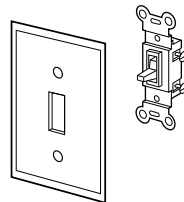
The transmitter has ON and OFF functions that are activated by pressing either button on the face of the transmitter. When a button on the transmitter is pressed, a signal light illuminates briefly to verify that a signal has been sent.

The Model RCL is designed to operate with all millivolt ignition systems, as well as electronic ignition systems. It may be installed with use for either natural gas or propane gas appliances. The RCL offers ease of installation and allows you to execute on-off commands to the fireplace effortlessly with one simple motion.

The Model RCL comes complete with detailed operating instructions.

Remote Control Kit, Standard		
Cat. No.	Model No.	Description
H0249	RCL	Remote Control System (Standard)

(ref. Form # 750,127M)



OFF/ON Wall Switch Kit

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

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



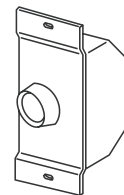
Deluxe Remote Control System

The Model RCL-T (Deluxe) Remote Control System has all of the features of the standard system along with an added easy to read LCD screen which presents access to many enhancements, including; battery power level indicator, timer, mode of operation, thermostatic display including room temperature in either metric or English units, flame indicator and clock. Fully programmable, the Model RCL-T allows for virtual command over nearly all operational and temperature variables, using the hand held remote control transmitter.

The Model RCL-T (Deluxe) remote control system is installed in the same manner as the standard system, may be operated with electronic and millivolt systems with either natural gas or propane gas. The RCL-T comes complete with detailed operating instructions.

Remote Control Kit, Deluxe		
Cat. No.	Model No.	Description
H0251	RCL-STAT	Remote Control System (Deluxe)

(ref. Form # 750,129M)



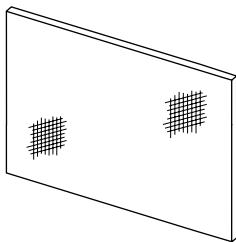
Variable Speed Wall Switch

Provides variable speed control if optional blower kit is purchased.

Variable Speed Wall Switch		
Cat. No.	Model No.	Description
045571H	VSWS	Variable Speed Switch

NOTE: DIAGRAMS & ILLUSTRATIONS ARE NOT TO SCALE.

ACCESSORY COMPONENTS (CONTINUED)

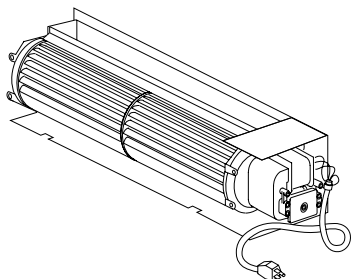


Barrier Screen Panel Kits		
Cat. No.	Model No.	Models Where Used
26M49	HG40M	40 inch Wide Glass Door
98K74	HG24	24 Inch Wide Glass Door

(ref. Form # 750,101M)

Barrier Screen Panel Kit

This easy to install optional screen panel installs over the standard glass enclosure panel to prevent contact with the hot glass surface. These screen panels cannot be used in conjunction with the arch door kits or door frame kits.



Forced Air Blower Kits		
Cat. No.	Model No.	Description
80L84	FBK-100	Blower, Standard (single speed)
80L85	FBK-200	Blower, Variable Speed (w/wall-mounted switch)
80L86	FBK-250	Blower, Variable Speed (w/unit-mounted switch)
94L89	FBK-100-36	Blower, Standard, 36 Pack
94L90	FBK-200-36	Blower Kit - Variable Speed with Wall Switch 36 Pack
H0543	FBK-250-36	Blower Kit - Variable Speed with Thermo Snap Switch 36 Pack

(ref. Form # 750,028M & 750,029M)

Forced Air Kit

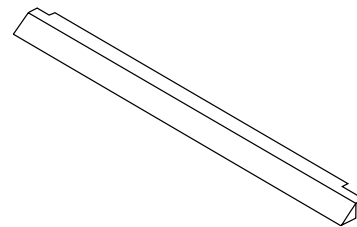
The FBK-100 blower provides constant velocity forced air circulation. The FBK-200 assembly with variable speed, wall-mountable switch provides variable speed forced air circulation. The FBK-250 assembly with variable speed unit-mountable switch, also provides variable speed forced air circulation.

Note: Door & Trim Kits are for 1 side only

Eyebrow Hood Kits				
Polished Brass		Brushed Stainless		Where Used
Cat. #	Model	Cat. #	Model	
98K28	EB24PB	88L47	EB24BS	24"
96K68	EB40PB	88L50	EB40BS	40"

* These hood kits replace the standard hood that comes with these fireplaces.

(ref. Form #504,142M)

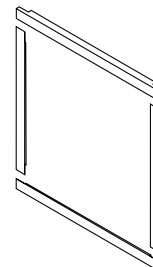


Polished Brass & Brushed Stainless Hood Kits

Attractive hoods are available in two styles. These hoods are designed to be fitted to the glass viewing sides of the appliance. In addition to providing an aesthetically pleasing appearance to your appliance installation, the hood reduces heat effects to decorative mantles and finish materials located above the fireplace opening. The hood kit replaces the standard hood that comes with these appliances and snaps into place. These kits can be retrofitted to previously installed appliances.

4 Piece Door Trim Kits				
Polished Brass		Brushed Stainless		Where Used
Cat. #	Model	Cat. #	Model	
26M83	4DFK40PB	26M86	4DFK40BS	40"

(ref. Form # 750,098M)



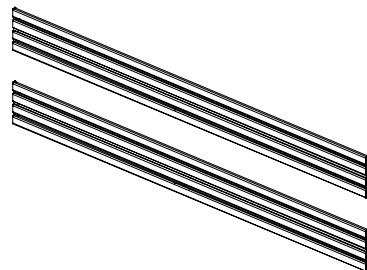
Door Frame Kits

A decorative door frame kit is available for use with these appliances. It is designed to attach directly to the front face of the appliance at the four edges of the glass enclosure panel resulting in the appearance of a picture frame.

* Assembled 8-Piece Louver Kits				
Polished Brass		Brushed Stainless		Where Used
Cat. #	Model	Cat. #	Model	
H1530	LKE-600B	H1531	LKE-600BS	24"
*H1526	LK-600B	*H1527	LK-600BS	40"

(ref. Form # 750,166M)

* Superior Nameplate Logo, 56L93, is not included.

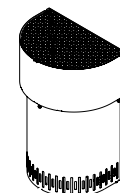


Polished Brass and Brushed Stainless Louvers Kits

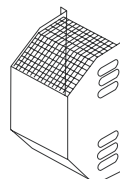
These kits include a top 4-louver assembly and a bottom 4-louver assembly. They provide a touch of elegance. These kits can be retrofitted to previously installed appliances.

Termination Guard Kits (all models)		
Cat. No.	Model No.	Description
H5820	4.5HTSK	Termination Shroud
87L02	SV4.5HGS	Termination Guard, Deluxe
17M52	SV4.5HGS-1	Termination Guard, Square

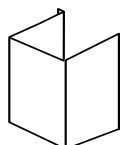
Termination Shroud
(ref. Form # 750,246M)



Deluxe Termination
(ref. Form # 750,055M)



Square Termination
(ref. Form # 750,109M)



NOTE: DIAGRAMS & ILLUSTRATIONS ARE NOT TO SCALE.

ACCESSORY COMPONENTS (CONTINUED)

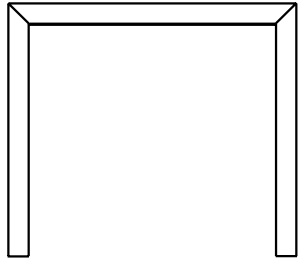
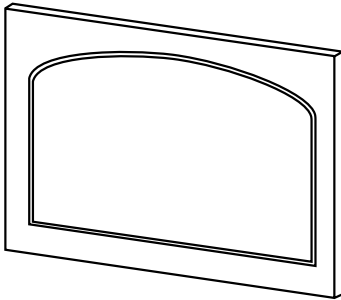
Arch Door Kit - Polished Brass		
Cat. No.	Model	Where Used
80L95	ADKE-60B	24"
80L93	ADK-6/60B	40"

Arch Door Kit - Brushed Stainless Steel		
Cat. No.	Model	Where Used
81L05	ADKE-60P	24"
81L03	ADK-6/60P	40"

(ref. Form # 750,021M)

Arch Door Kits

The arch door kits are easy to install and do not require hardware to attach them to the standard door frame. The decorative arch kits can not be used in conjunction with the screen panel kit.

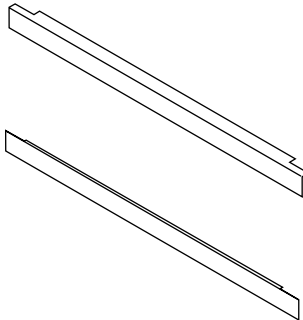


3 Piece Trim Kit (SSDVST only)		
Cat. No.	Model No.	Description
96K22	TK40PB3	40" Polished Brass
H1816	TK40BS3	40" Brushed Stainless
H4823	TK40C3	40" Black

(ref. Form # 750,147M)

2- Piece Door Frame Kits				
Polished Brass		Brushed Stainless		Where Used
Cat. #	Model	Cat. #	Model	
26M94	DTKE-6B	26M95	DTKE-6BS	24"
19M89	DTK-6B	19M90	DTK-6BS	40"

(ref. Form # 750,098M)



2-Piece Door Trim Kits

These kits are designed to attach directly to the front face of the fireplace at the top and bottom edges of the glass enclosure panel.

Touch-Up Paint Kits (all models)		
Cat. No.	Model No.	Description
90L73	TPK-B	Touch-Up Paint (Black)

(ref. Form # 750,050M)

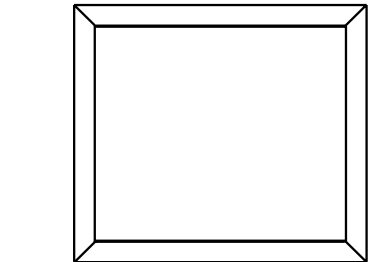
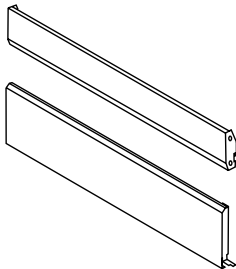


Touch-Up Paint Kit

Repair of minor scratches and discoloration of the appliance painted surfaces may be accomplished with the touch-up paint kit.

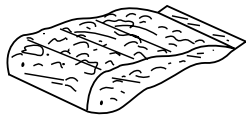
Radiant Panel Kits		
Cat. #	Model	Where Used
80L79	CFPKE60	24"
80L77	CFPK-6/60	40"

(ref. Form # 750,030M)



4 Piece Trim Kit (SSDVST only)		
Cat. No.	Model No.	Description
96K18	TK40PB4	40" 4 Piece Finish Trim Kit, Polished Brass

(ref. Form # 750,147M)



Decorative Firebox Accessories (all models)		
Cat. No.	Model No.	Description
88L53	FGE	Bag of Glowing Embers (1 oz. rockwool)
80L42	FDVS	Bag of Decorative Volcanic Stone

(FDVS ref. Form #750,010M)

Bag of Glowing Embers

Bag of Volcanic Stone

Replacement ember materials or volcanic stone are available for use with these appliances. Order kits as part of the periodic maintenance of the appliance.

LIGHTING INSTRUCTIONS – MILLIVOLT GAS VALVE

FOR YOUR SAFETY READ BEFORE LIGHTING

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

- A.** This appliance has a pilot which must be lit with a piezo igniter. When lighting the pilot, follow these instructions exactly.
- B. BEFORE LIGHTING** smell all around the appliance area for gas. Ensure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS

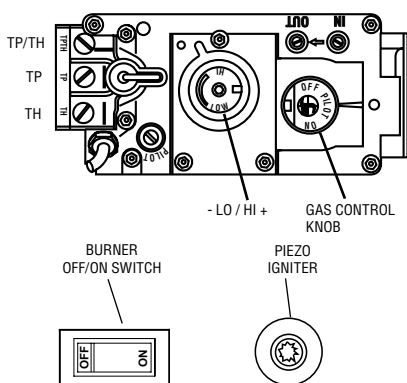
- Do not try to light any appliance.
 - Do not touch any electric switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- C.** Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, do not try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or an explosion.
- D.** Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

LIGHTING INSTRUCTIONS

- STOP!** Read the safety information above on this page.
- Access the lower control compartment.
- Turn OFF/ON switch to "OFF" (and remote wall switch, if applicable).
- Verify main line shut-off valve is open.
- Push in gas control knob slightly and turn clockwise to "OFF."



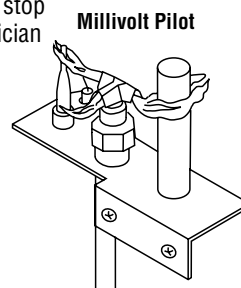
SIT Millivolt Gas Valve



Note: Knob cannot be turned from "PILOT" to "OFF" unless the knob is pushed in slightly. Do not force.

- Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above (to the left) on this label. If you don't smell gas, go to the next step.
- Push in gas control knob slightly and turn counterclockwise to "PILOT."
- Push in control knob all the way and hold in. Immediately light the pilot by triggering the spark igniter (pushing the button) until pilot lights. Continue to hold the control knob in for about 1-1/2 minutes after the pilot is lit. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 5 through 8.

- If knob does not pop up when released, stop and immediately call your service technician or gas supplier.
- If pilot will not stay lit after several tries, turn the control knob to "OFF" and call your service technician or gas supplier.



- Turn gas control knob counterclockwise to "ON."
- Close lower control compartment.
- If the appliance will not operate, follow the instructions "To Turn Off Gas To Appliance" and call your service technician or gas supplier.

TO TURN OFF GAS TO APPLIANCE

- Turn remote wall switch "OFF." The pilot will remain lit for normal service.
- For complete shutdown, turn remote wall switch to "OFF."
- Access the lower control compartment.
- Depress gas control knob slightly and turn clockwise to "OFF." Do not force.
- Close lower control compartment.

OPERATING INSTRUCTIONS — ELECTRONIC

FOR YOUR SAFETY READ BEFORE OPERATING

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

A. This appliance is equipped with an ignition device which automatically lights the pilot. Do not try to light the pilot by hand.

B. BEFORE OPERATING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
- Do not touch any electric switch; do not use any phone in your building.

- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

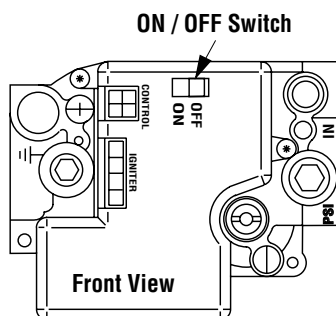
C. If any portion of this appliance does not operate as the instructions indicate, do not try to repair it, call a qualified service technician. Do not use tools. Force or attempted repair may result in a fire or explosion.

D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

OPERATING INSTRUCTIONS

1. **STOP!** Read the safety information above on this page.
2. Turn remote wall switch to "OFF."
3. Open lower control compartment door.
4. Verify main line shut-off valve is open.
5. Turn the OFF/ON switch to "OFF". Do not force.

Honeywell Electronic Gas Control Valve



6. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above (to the left) on this label. If you don't smell gas, go to the next step.
7. Turn the OFF/ON switch to "ON". Do not force.
8. Turn "ON" all electrical power to appliance (remote wall or appliance switch).
9. Close lower control compartment door.
10. If the appliance will not operate, follow the instructions "To Turn Off Gas To Appliance" and call your service technician or gas supplier.

TO SHUT OFF

1. Turn off all electrical power to the appliance (remote wall switch).

TO TURN OFF GAS TO APPLIANCE

1. For complete shut-down, turn remote wall switch to "OFF."
2. Open lower control compartment door.
3. Turn the OFF/ON switch to "OFF". Do not force.
4. Close the main line shut-off valve.
5. Close lower control compartment door.

NOTE: DIAGRAMS & ILLUSTRATIONS ARE NOT TO SCALE.

MAINTENANCE SCHEDULE

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

Annually (Before the onset of the Burning Season)

MAINTENANCE TASK	ACCOMPLISHING PERSON	PROCEDURE
Inspect/Clean Burner, Logs and Controls	Qualified Service Technician	Inspect valve and ensure it is properly operating. Check piping for leaks. Vacuum the control compartment, fireplace logs and burner area.
Check Flame Patterns and Flame Height	Qualified Service Technician	Refer to Figure 10 on Page 11 and verify the flame pattern and height displayed by the appliance conforms to the picture. Flames must not impinge on the logs. Ensure flames are steady (not lifting or floating).
Inspect/Clean Pilot and Burner	Qualified Service Technician	Refer to Figures 12 and 13 on Page 12 . Remove any surface build-up on pilot and burner assembly. Wipe the pilot nozzles, igniter/flame rod and hood. Ensure the pilot flame engulfs the flame sensor as shown.
Check Vent System	Qualified Service Technician	Inspect the vent system at the top and at the base (within the firebox) for signs of blockage or obstruction. Look for any signs of dislocation or deterioration of the vent components. Note: Excessive condensation can cause corrosion of caps, pipe & fittings (excessive condensation can be caused by long lateral runs, too many elbows and/or exterior portions of the system being exposed to cold weather). Also inspect wall straps or plumbers's tape to ensure it is secure and in place.
Appliance Checkout	Qualified Service Technician	Perform the appropriate appliance checkout procedure detailed in this manual.
Replacing Glowing Embers	Homeowner/Qualified Service Technician	Remove old ember materials (rockwool) and vacuum the ember placement area. Place new embers as described on Page 10 .

Periodically (After the Burning Season)

MAINTENANCE TASK	ACCOMPLISHING PERSON	PROCEDURE
Clean Firebox Interior	Homeowner	Carefully remove logs, embers (rockwool) and volcanic stone. Vacuum out interior of the firebox. Clean firebox walls and log grate. Replace logs, embers and volcanic stone as detailed in this manual.
Check Flame Patterns and Flame Height	Homeowner	Refer to Figure 10 on Page 11 and verify the flame pattern and height displayed by the appliance conforms to the picture. Flames must not impinge on the logs.
Check Vent System	Homeowner	Inspect the vent system at the top and at the base (within the firebox) for signs of blockage or obstruction. Look for any signs of dislocation of the vent components.
Clean Front Glass Enclosure Panel	Homeowner	Clean as necessary following the directions provided in this manual. DO NOT TOUCH OR ATTEMPT TO CLEAN GLASS WHILE HOT.

TROUBLESHOOTING THE MILLIVOLT CONTROL SYSTEM

Note: Before troubleshooting the gas control system, Ensure external gas shut off valve, located at gas supply inlet, (and wall switch, iff applicable), is in the "ON" position.

Important: Valve system troubleshooting should only be accomplished by a qualified service technician.

SYMPTOM	POSSIBLE CAUSES	CORRECTIVE ACTION
<p>1. Spark igniter will not light pilot after repeated triggering of igniter button.</p> <p>WARNING: if the pilot will not light after 1 minute of attempting, wait for at least 5 minutes for gas to clear before attempting again.</p>	A. Defective igniter (no spark at electrode).	Check for spark at electrode and pilot; if no spark and electrode wire is properly connected, replace igniter.
	B. Defective or misaligned electrode at pilot (spark at electrode).	Using a match, light pilot. If pilot lights, turn off pilot and trigger the igniter button again. If pilot lights, an improper gas mixture caused the bad lighting and a longer purge period is recommended. If pilot will not light – check gap at electrode and pilot – should be 1/8" to have a strong spark. If gap does not measure 1/8", replace pilot (see Figure 12 on Page 12).
	C. Gas supply pressure errant.	Check inlet gas pressure. It should be within the limits as marked on the rating plate.
	D. Pilot orifice plugged.	Clean or replace pilot orifice.
2. Pilot will not stay lit after carefully following the lighting instructions.	A. Defective pilot generator (thermocouple).	Check pilot flame, it must impinge on thermocouple (see Figure 12 on Page 12). Clean and/or adjust pilot for maximum flame impingement on thermocouple. Ensure that the connection between the valve and thermocouple are tight and secure.
<p>3. Pilot burning, no gas to burner, Valve knob "ON," and the (standard) burner OFF/ON switch is "ON." Read important note below.</p> <p>IMPORTANT NOTE: If an optional *remote switch is used for burner operation, the unit-mounted burner OFF/ON switch (if installed) must be in the "OFF" position.</p> <p>* Optional remote switch kits - wall switch, wall thermostat or remote control.</p>	A. Wall switch or wires defective.	Check wall switch and wires for proper connections. Jumper wire across terminals at wall switch, if burner comes on, replace defective wall switch. If okay, jumper wires across wall switch wires at valve, if burner comes on, wires are faulty or connections are bad.
	B. Thermopile may not be generating sufficient millivolts.	Check thermopile with millivolt meter. Take reading at thermopile terminals of gas valve. Should read 325 millivolts minimum with optional wall switch "OFF." Replace faulty thermopile if reading is below specified minimum.
	C. Plugged burner orifice.	Check burner orifice for blockage and remove.
	D. OFF/ON Switch & *Remote Switch are in the "ON" position resulting in excessive resistance.	When turning on the burner using a *remote switch, ensure that the standard OFF/ON switch is in the "OFF" position. If both switches are in the ON position, it may result in excessive resistance (& millivolt drainage) and the burner may not come on.
4. Frequent pilot/burner outage problem.	A. Pilot flame may be too low or blowing (high) causing the pilot/valve safety to drop out.	Clean and/or adjust pilot flame for maximum flame impingement on thermocouple (see Figure 12 on Page 12).

TROUBLESHOOTING GUIDE - ELECTRONIC IGNITION SYSTEM

SYMPTOM	POSSIBLE CAUSES	CORRECTIVE ACTION
1. Burner will not light.	A. Faulty Valve System.	See Below.
	B. "OFF/ON" or wall switch defective.	Disconnect the two black wires from the wire nuts. Test switch(s) for continuity with a multimeter. If continuity is not indicated, switch(s) is defective and must be replaced. Note: Before replacing "OFF/ON" switch, Ensure to check wiring for loose connections or broken wires and repair as needed.
2. Burners come "ON," then turns "OFF."	A. Burner orifice plugged.	Check main burner orifice(s) for blockage. Clean or replace.
	B. Obstructed vent system.	Check vent system for obstructions.

TROUBLESHOOTING PROCEDURE - ELECTRONIC IGNITION SYSTEM

START

- Turn Off Gas Supply.
- Ensure Valve Switch Is In ON Position.
- Disconnect Control Harness.
- Set Thermostat To Call For Heat.

2

- Check for proper voltage at control harness (see insert A). Voltage should be 24V between thermostat or pressure switch and 24V common and 24V hot.

NO

CHECK

- Line voltage power
- Low voltage transformer
- Limit controller
- Thermostat
- Wiring

YES

- Plug control harness into valve. Wait for internal check delay.

↓

- Igniter warms up and glows red.

NO

- 1 • With pilot burner cable connected, measure voltage at valve HSI element output. 24V nominal. (See insert B)
- 2

NO

- Replace valve.

YES

- Replace igniter/flame rod assembly.

YES

- Check that pilot gas is flowing. Wait to ensure pilot gas tubing is purged. Recycle call for heat if necessary.

NO

- Replace valve.

YES

- Measure voltage between 24V hot and 24V common leads to valve control. Must measure at least 19.5 VAC with igniter powered (see insert A). To identify proper lead, this check must be done with the valve control connected and igniter powered.

NO

- Check transformer and line volt supply.

YES

- Replace Pilot Assembly.

1

YES

- Turn on gas supply.
- Pilot burner lights.

NO

- Check that pilot gas is flowing. Wait to ensure pilot gas tubing is purged. Recycle call for heat if necessary.

NO

- Replace valve.

YES

- Measure voltage between 24V hot and 24V common leads to valve control. Must measure at least 19.5 VAC with igniter powered (see insert A). To identify proper lead, this check must be done with the valve control connected and igniter powered.

NO

- Check transformer and line volt supply.

YES

- Replace Pilot Assembly.

YES

- Main valve opens and main burner lights.

NO

- Check that pilot flame makes good contact with pilot burner flame rod.
- Check for good electrical connection through the pilot tubing.
- If both of the above are good, replace igniter/flame rod assembly.

YES

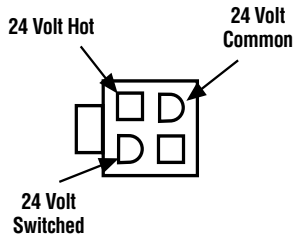
- Cycle thermostat off and back on.

YES

- System Is okay.

Insert A

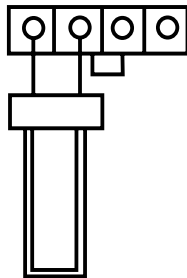
End View of Control Harness Connector



Check For Damaged or Missing Terminals in Connector

Insert B

Igniter Terminals



1

Igniter will cycle off and back on once during the 90 second ignition trial. All voltage measurements must be taken while the igniter is powered.

2

When measuring voltage at connections, use care to ensure terminals are not damaged.

- Main burner lights.

NO

- Replace valve.

REPLACEMENT PARTS LIST

MISC. COMPONENTS				
Item	Cat.No	Description	Qty.	Where Used
1a	98K95	Hood, Black - 24 in.	1	SSDVPF
1b	97K52	Hood, Black - 40 in.	2	All Models
2a	H3437	Upper Louver Panel, Black - 24 in.	1	SSDVPF
2b	H3377	Upper Louver Panel, Black - 40 in.	2	All Models
3a	H3725	Glass Enclosure Assembly - 24 in.	1	SSDVPF
3b	H3724	Glass Enclosure Assembly - 40 in.	2	All Models
4a	H3438	Lower Louver Panel, Black - 24 in.	1	SSDVPF
4b	H3380	* Lower Louver Panel, Black - 40 in.	2	All Models
5	56L93	Nameplate Logo (Brand)	2	All Models
6	69L62	Log Set	1	All Models
7	88L53	Bag of Glowing Gas Embers	1	All Models
8	80L42	Bag of Decorative Volcanic Stone	2	All Models
10a	H4865	Main Burner Set, Rear	1	All Models
10b	H4866	Main Burner Set, Front	1	All Models
11	19L51	Gasket, Burner Tray Mounting	1	All Models
12	43K85	Gasket, Venturi Tube Mounting (per burner)	1	All Models
13a	74L92	Venturi Tube / Air Shutter, Rear	1	All Models
13b	60L40	Venturi Tube / Air Shutter, Front	1	All Models
14	69L21	Latch, Glass Enclosure Panel	4(ST) & 6 (PF)	All Models
16	H4897	Burner Adjustment Rod	1	All Models
17	93L32	Flex Gas Line Connector, FFGC	1	All Models
* Superior Nameplate Logo, 56L93, is sold separately.				

Contact an Authorized LHP dealer to obtain any of these parts. Never use substitute materials. Use of non-approved parts can result in poor performance and safety hazards.

(MV) MILLIVOLT - GAS COMPONENTS				
Item	Cat.No	Description	Qty.	Where Used
30	H6209	Gas Valve - SIT, Natural Gas	1	SSDVST-NM
30	88J53	Gas Valve - SIT, Propane	1	SSDVST-PM
31	10K86	Piezo Igniter	1	SSDVST-NM & SSDVST-PM
32	69L17	Pilot Assembly, Natural Gas	1	SSDVST-NM
32	69L18	Pilot Assembly, Propane	1	SSDVST-PM
33	60J79	Pilot Generator	1	SSDVST-NM & SSDVST-PM
34	74L57	Thermocouple	1	SSDVST-NM & SSDVST-PM
35	74L56	Pilot Tube	1	SSDVST-NM & SSDVST-PM
36	74L58	Electrode And Cable	1	SSDVST-NM & SSDVST-PM
37	60J80	Orifice, Burner, Natural Gas, #44 (.086")	2	All NG Models
37	19L52	Orifice, Propane, #55 (.052")	2	All LP Models

(E) ELECTRONIC - GAS COMPONENTS				
Item	Cat.No	Description	Qty.	Where Used
40	62L18	Gas Valve - Honeywell, Electronic, Natural Gas	1	SSDVST-NE
40	62L19	Gas Valve - Honeywell, Electronic, Propane	1	SSDVST-PE
41	62L14	Pilot Assembly, Electronic, Natural Gas	1	SSDVST-NE
41	62L15	Pilot Assembly, Electronic, Propane	1	SSDVST-PE
42	42J32	Transformer, Electronic	1	SSDVST-NE (& PE)
43	87L54	Igniter Assembly (Kit)	1	SSDVST-NE (& PE)
45	H4867	Pilot Tube, Electronic	1	SSDVST-NE (& PE)
37	60J80	Orifice, Burner, Natural Gas, #44 (.086")	2	All NG Models
37	19L52	Orifice, Propane, #55 (.052")	2	All LP Models



WARNING

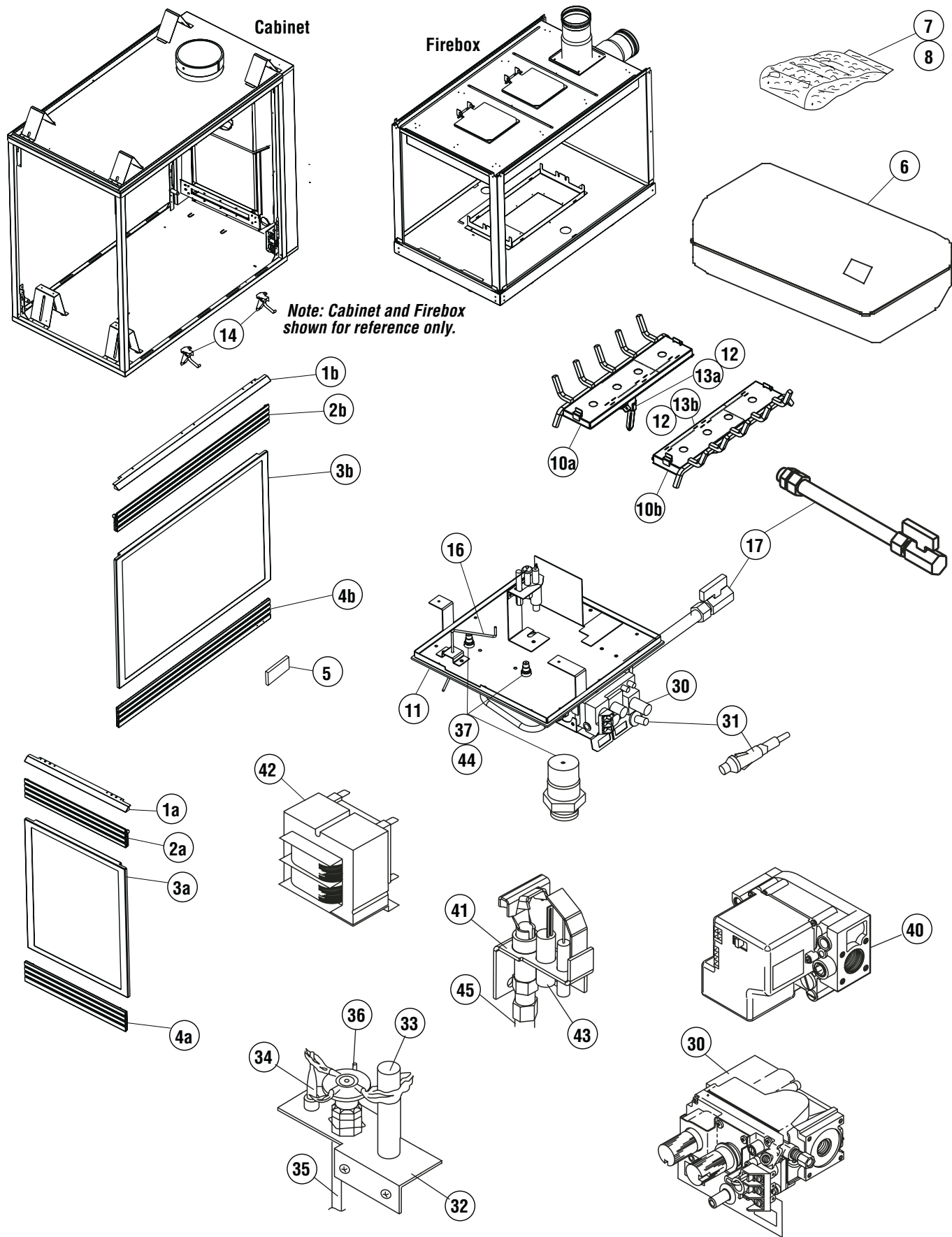
Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.



AVERTISSEMENT

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

REPLACEMENT PARTS DIAGRAMS



NOTE: DIAGRAMS & ILLUSTRATIONS ARE NOT TO SCALE.

LHP 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.