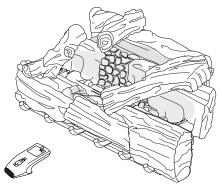


UNVENTED (VENT-FREE) GAS LOG HEATER OWNER'S OPERATION AND INSTALLATION MANUAL







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

www.nficertified.org

30" Remote-Ready Models MODELS LDL3930NRB AND LDL3930PRB Also Design-Certified As Vented Decorative Appliances

A 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.

- 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.

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SAFETY

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

A WARNING: This appliance is for installation only in a solid-fuel burning masonry or UL127 factory-built fireplace, or in a listed ventless firebox enclosure. It is design-certified for these installations in accordance with ANSI Z21.11.2. Exception: Do not install this appliance in a factory-built fireplace that includes instructions stating it has not been tested or should not be used with unvented gas logs.

WARNING: This is an unvented gas-fired heater. It uses air (oxygen) from the room in which it is installed. Provisions for adequate combustion and ventilation air must be provided. Refer to <u>Air for Combustion and Ventilation</u> section on page 5 of this manual.

This appliance may be installed in an aftermarket,* 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.

^{*} Aftermarket: Completion of sale, not for purpose of resale, from the manufacturer

SAFETY

Continued

WARNING: This product contains and/or generates chemicals known to the state of California to cause cancer or birth defects, or other reproductive harm.

IMPORTANT: Read this owner's manual carefully and completely before trying to assemble, operate, or service this fireplace. Improper use of this fireplace can cause serious injury or death from burns, fire, explosion, electrical shock, and carbon monoxide poisoning.

A DANGER: Carbon monoxide poisoning may lead to death!

Carbon Monoxide Poisoning: Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness, or nausea. If you have these signs, the heater may not be working properly. Get fresh air at once! Have heater serviced. 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.

Natural and Propane/LP Gas: Natural and propane/LP gases are odorless. An odormaking agent is added to the gas. The odor helps you detect a gas leak. However, the odor added to the gas can fade. Gas may be present even though no odor exists.

Make certain you read and understand all warnings. Keep this manual for reference. It is your guide to safe and proper operation of this heater.

WARNING: Any change to this heater or its controls can be dangerous.

WARNING: Do not use a blower insert, heat exchanger insert, or other accessory not approved for use with this heater.

WARNING: Do not allow fans to blow directly into the fireplace. Avoid any drafts that alter burner flame patterns. Ceiling fans can create drafts that alter burner flame patterns. Altered burner patterns can cause sooting.

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

Do not place clothing or other flammable material on or near the appliance. Never place any objects on the heater.

Heater base assembly becomes very hot when running heater. Keep children and adults away from hot surface to avoid burns or clothing ignition. Heater will remain hot for a time after shutdown. Allow surface to cool before touching.

Carefully supervise young children when they are in the room with heater. When using the handheld remote accessory, keep selector switch in the OFF position to prevent children from turning on burners with remote.

You must operate this heater with a fireplace screen in place. Make sure fireplace screen is closed before running heater.

Keep the appliance area clear and free from combustible materials, gasoline, and other flammable vapors and liquids.

SAFETY

Continued

- 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.
- Do not place propane/LP supply tank(s) inside any structure. Locate propane/LP supply tank(s) outdoors (propane/LP units only).
- 3. If you smell gas
 - · shut off gas supply
 - · 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
- This heater shall not be installed in a bedroom or bathroom, unless installed as a vented appliance. See <u>Installing Damper Clamp Accessory for Vented Operation</u>, page 11. This gas log set may not be installed as a vented appliance in a bedroom or bathroom in the Commonwealth of Massachusetts.
- 5. Before installing in a solid fuel burning fireplace, the chimney flue and firebox must be cleaned of soot, creosote, ashes and loose paint by a qualified chimney cleaner. Creosote will ignite if highly heated. A dirty chimney flue may create and distribute soot within the house. Inspect chimney flue for damage. If damaged, repair flue and firebox before operating heater.
- Do not burn solid-fuel in a masonry or UL127 factory-built fireplace in which a vent-free room heater is installed.
- 7. If fireplace has glass doors, never operate this heater with glass doors closed. If you operate heater with doors closed, heat buildup inside fireplace will cause glass to burst. Make sure there are no obstructions across opening of fireplace.
- To prevent the creation of soot, follow the instructions in <u>Cleaning and Maintenance</u>, page 22.
- Before using furniture polish, wax, carpet cleaner, or similar products, turn heater off. If heated, the vapors from these products may create a white powder residue within burner box or on adjacent walls and furniture.

- 10. This heater needs fresh, outside air ventilation to run properly. This heater has an Oxygen Depletion Sensing (ODS) safety shutoff system. The ODS shuts down the heater if enough fresh air is not available. See <u>Air for Combustion and Ventilation</u>, page 5. If heater keeps shutting off, see <u>Troubleshooting</u>, page 24.
- 11.Do not run heater
 - where flammable liquids or vapors are used or stored
 - · under dusty conditions
- 12. Do not use this heater to cook food or burn paper or other objects.
- 13. Do not use heater if any part has been exposed to or under water. Immediately call a qualified service technician to inspect the room heater and to replace any part of the control system and any gas control which has been under water.
- 14. Do not operate heater if any log is broken. Do not operate heater if a log is chipped (dime-sized or larger).
- 15. Turn heater off and let cool before servicing, installing, or repairing. Only a qualified service person should install, service, or repair heater.
- 16. Operating heater above elevations of 4,500 feet may cause pilot outage.
- 17. To prevent performance problems, do not use propane/LP fuel tank of less than 100 lb. capacity (propane/LP units only).
- 18. Provide adequate clearances around air openings.

LOCAL CODES

Install and use heater with care. Follow all local codes. In the absence of local codes, use the latest edition of *The National Fuel Gas Code ANSI Z223.1/NFPA 54**.

*Available from:

American National Standards Institute, Inc. 1430 Broadway

New York, NY 10018

National Fire Protection Association, Inc. Batterymarch Park Quincy. MA 02269

Note: Where listed vented decorative logs are required, thermostat operation is not permitted.

LOCAL CODES

Continued

State of Massachusetts: The installation must be made by a licensed plumber or gas fitter in the Commonwealth of Massachusetts

Sellers of unvented propane or natural gas-fired supplemental room heaters shall provide to each purchaser a copy of 527 CMR 30 upon sale of the unit.

Vent-free gas products are prohibited for bedroom and bathroom installation in the Commonwealth of Massachusetts.

UNPACKING

CAUTION: Do not remove the data plates from the grate assembly. The data plates contain important warranty and safety information.

- Remove logs and heater base assembly from carton. Note: Do not pick up heater base assembly by burners. This could damage heater. Always handle base assembly by grate.
- 2. Remove all protective packaging applied to logs and heater for shipment.
- Check all items for any shipping damage. If damaged, promptly inform dealer where you bought heater.

PRODUCT IDENTIFICATION

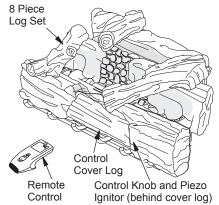


Figure 1 - Product Identification

PRODUCT FEATURES

OPERATION

This heater is clean burning. It requires no outside venting. There is no heat loss out a vent or up a chimney. Heat is generated by realistic flames. This heater is designed for vent-free operation with flue damper closed. It has been tested and approved to ANSI Z21.11.2 standard for unvented heaters. State and local codes in some areas prohibit the use of vent-free heaters. This heater may also be operated as a vented decorative (ANSI Z21.60) product by opening the flue damper.

SAFETY DEVICE

This heater has a pilot with an Oxygen Depletion Sensing (ODS) safety shutoff system. The ODS/pilot is a required feature for vent-free room heaters. The ODS/pilot shuts off the heater if there is not enough fresh air.

PIEZO IGNITION SYSTEM

This heater has a piezo ignitor. This system requires no matches, batteries, or other sources to light heater.

AIR FOR COMBUSTION AND VENTILATION

A WARNING: This heater shall not be installed in a room or space unless the required volume of indoor combustion air is provided by the method described in the National Fuel Gas Code, ANSI Z223.1/NFPA54, the International Fuel Gas Code, or applicable local codes. Read the following instructions to insure proper fresh air for this and other fuel-burning appliances in your home.

Today's homes are built more energy efficient than ever. New materials, increased insulation, and new construction methods help reduce heat loss in homes. Home owners weather strip and caulk around windows and doors to keep the cold air out and the warm air in. During heating months, home owners want their homes as airtight as possible.

While it is good to make your home energy efficient, your home needs to breathe. Fresh air must enter your home. All fuel-burning appliances need fresh air for proper combustion and ventilation.

AIR FOR COMBUSTION AND VENTILATION

Continued

Exhaust fans, fireplaces, clothes dryers, and fuel burning appliances draw air from the house to operate. You must provide adequate fresh air for these appliances. This will insure proper venting of vented fuel-burning appliances.

PROVIDING ADEQUATE VENTILATION

The following are excerpts from National Fuel Gas Code, ANSI Z223.1/NFPA 54, Air for Combustion and Ventilation.

All spaces in homes fall into one of the three following ventilation classifications:

- 1. Unusually Tight Construction
- 2. Unconfined Space
- Confined Space

The information on pages 5 through 7 will help you classify your space and provide adequate ventilation.

Unusually Tight Construction

The air that leaks around doors and windows may provide enough fresh air for combustion and ventilation. However, in buildings of unusually tight construction, you must provide additional fresh air.

Unusually tight construction is defined as construction where:

- a. walls and ceilings exposed to the outside atmosphere have a continuous water vapor retarder with a rating of one perm (6 x 10⁻¹¹ kg per pa-sec-m²) or less with openings gasketed or sealed <u>and</u>
- b. weather stripping has been added on openable windows and doors <u>and</u>
- c. caulking or sealants are applied to areas such as joints around window and door frames, between sole plates and floors, between wall-ceiling joints, between wall panels, at penetrations for plumbing, electrical, and gas lines, and at other openings.

If your home meets all of the three criteria above, you must provide additional fresh air. See <u>Ventilation Air From Outdoors</u>, page 7.

If your home does not meet all of the three criteria above, proceed to <u>Determining</u> <u>Fresh-Air Flow For Heater Location</u>.

Confined and Unconfined Space

The National Fuel Gas Code, ANSI Z223.1/ NFPA 54 defines a confined space as a space whose volume is less than 50 cubic feet per 1,000 Btu/hr (4.8 m³ per kw) of the aggregate input rating of all appliances installed in that space and an unconfined space as a space whose volume is not less than 50 cubic feet per 1,000 Btu/hour (4.8 m³ per kw) of the aggregate input rating of all appliances installed in that space. Rooms communicating directly with the space in which the appliances are installed*, through openings not furnished with doors, are considered a part of the unconfined space.

* Adjoining rooms are communicating only if there are doorless passageways or ventilation grills between them.

DETERMINING FRESH-AIR FLOW FOR HEATER LOCATION

Determining if You Have a Confined or Unconfined Space

Use this work sheet to determine if you have a confined or unconfined space.

Space: Includes the room in which you will install heater plus any adjoining rooms with doorless passageways or ventilation grills between the rooms.

1.	Determine the volume of the space	(lengt	h x
	width x height).		
	Length x Width x Height =	cu.	ft.

(volume of space)

Example: Space size 20 ft. (length) x 16 ft.
(width) x 8 ft. (ceiling height) = 2560 cu. ft.
(volume of space)

If additional ventilation to adjoining room is supplied with grills or openings, add the volume of these rooms to the total volume of the space.

 Multiply the space volume by 20 to determine the maximum Btu/Hr the space can support. (volume of space) x 20 = (Maximum Btu/Hr the space can support)

Example: 2560 cu. ft. (volume of space) x 20 = 51,200 (maximum Btu/Hr the space can support)

3. Add the Btu/Hr of all fuel burning appliances in the space.

Vent-free heater	Btu/Hr
Gas water heater*	Btu/Hr
Gas furnace	Btu/Hr
Vented gas heater	Btu/Hr
Gas fireplace logs	Btu/Hr
Other gas appliances* +	Btu/Hr
Total =	=Btu/Hr

* Do not include direct-vent gas appliances. Direct-vent draws combustion air from the outdoors and vents to the outdoors.

AIR FOR COMBUSTION AND VENTILATION

Continued

Exam	la	e:

Gas water heater		40,000	Btu/Hr
Vent-free heater	+	33,000	 Btu/Hr
Total	=]	73,000	Btu/Hr

 Compare the maximum Btu/Hr the space can support with the actual amount of Btu/Hr used.

_____ Btu/Hr (maximum the space can support)

Btu/Hr (actual amount of

Btu/Hr used)

Example:

51,200 Btu/Hr (maximum the space can support)

73,000 Btu/Hr (actual amount of Btu/Hr used)

The space in the above example is a confined space because the actual Btu/Hr used is more than the maximum Btu/Hr the space can support. You must provide additional fresh air. Your options are as follows:

- A. Rework worksheet, adding the space of an adjoining room. If the extra space provides an unconfined space, remove door to adjoining room or add ventilation grills between rooms. See <u>Ventilation Air From Inside Building</u>.
- B. Vent room directly to the outdoors. See Ventilation Air From Outdoors.
- C. Install a lower Btu/Hr heater, if lower Btu/Hr size makes room unconfined.

AWARNING: If the area in which the heater may be operated does not meet the required volume for indoor combustion air, combustion and ventilation air shall be provided by one of the methods described in the National Fuel Gas Code, ANSI Z223.1/NFPA 54, the International Fuel Gas Code, or applicable local codes.

VENTILATION AIR

Ventilation Air From Inside Building

This fresh air would come from an adjoining unconfined space. When ventilating to an adjoining unconfined space, you must provide two permanent openings: one within 12" of the ceiling and one within 12" of the floor on the

wall connecting the two spaces (see options 1 and 2, Figure 2). You can also remove door into adjoining room (see option 3, Figure 2). Follow the National Fuel Gas Code, ANSI Z223.1/NFPA 54, Air for Combustion and Ventilation for required size of ventilation grills or ducts.

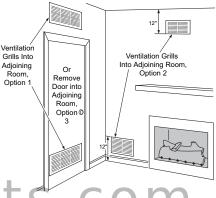


Figure 2 - Ventilation Air from Inside
Building

Ventilation Air From Outdoors

Provide extra fresh air by using ventilation grills or ducts. You must provide two permanent openings: one within 12" of the ceiling and one within 12" of the floor. Connect these items directly to the outdoors or spaces open to the outdoors. These spaces include attics and crawl spaces. Follow the *National Fuel Gas Code, ANSI Z223.1/NFPA 54, Air for Combustion and Ventilation* for required size of ventilation grills or ducts.

IMPORTANT: Do not provide openings for inlet or outlet air into attic if attic has a thermostat-controlled power vent. Heated air entering the attic will activate the power vent.

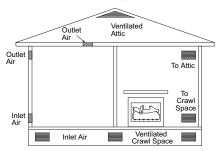


Figure 3 - Ventilation Air from Outdoors

NOTICE: This heater is intended for use as supplemental heat. Use this heater along with your primary heating system. Do not install this heater as your primary heat source. If you have a central heating system, you may run system's circulating blower while using heater. This will help circulate the heat throughout the house. In the event of a power outage, you can use this heater as your primary heat source.

WARNING: A qualified service person must install heater. Follow all local codes.

NOTICE: State or local codes may only allow operation of this appliance in a vented configuration. Check your state or local codes.

WARNING: Make sure the selector switch is in the AUTO position before installing heater.

WARNING: Before installing in a solid fuel burning fireplace, the chimney flue and firebox must be cleaned of soot, creosote, ashes and loose paint by a qualified chimney cleaner. Creosote will ignite if highly heated. A dirty chimney flue and firebox may create and distribute soot within the house. Inspect chimney flue for damage. If damaged, repair flue before operating heater.

WARNING: Seal any fresh air vents or ash clean-out doors located on floor or wall of fireplace. If not, drafting may cause pilot outage or sooting. Use a heat-resistant sealant. Do not seal chimney flue damper.

WARNING: Never install the heater

- in a bedroom or bathroom unless installed as a vented appliance, see page 11
- · in a recreational vehicle
- where curtains, furniture, clothing, or other flammable objects are less than 36" from front and 42" from top of heater. For side clearances see Figure 4, page 9
- in high traffic areas
- · in windy or drafty areas

A CAUTION: This heater creates warm air currents. These currents move heat to wall surfaces next to heater. Installing heater next to vinyl or cloth wall coverings or operating heater where impurities (such as, but not limited to, tobacco smoke, aromatic candles, cleaning fluids, oil or kerosene lamps, etc.) in the air exist, may discolor walls or cause odors.

IMPORTANT: Vent-free heaters add moisture to the air. Although this is beneficial, installing heater in rooms without enough ventilation air may cause mildew to form from too much moisture. See Air for Combustion and Ventilation, page 5.

CHECK GAS TYPE

Use the correct gas type (natural or propane/ LP) for your unit. If your gas supply is not correct, do not install log set. Call dealer where you bought log set for proper type fireplace.

WARNING: This appliance is equipped for either natural gas or propane/LP gas but not both. Gas type is indicated on the rating plate. Field conversion is not permitted.

Continued

INSTALLATION AND CLEARANCES FOR VENT-FREE OPERATION

WARNING: Maintain the minimum clearances. If you can, provide greater clearances from floor, ceiling, and adjoining wall.

MINIMUM FIREPLACE CLEARANCE TO COMBUSTIBLE MATERIALS

Side Wall 16", Ceiling 42", Front 36"

LOG SIZING REQUIREMENTS			
Minimum Firebox			
Height	Depth	Front Width	Rear * Width
17"	14"	34"	24"

* Measured at 14" depth.

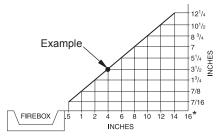
Carefully follow the instructions below. This will ensure safe installation into a masonry, UL127-listed manufactured fireplace, or listed vent-free firebox.

Minimum Clearances For Side Combustible Material, Side Wall, and Ceiling

A. Clearances from the side of the fireplace cabinet to any combustible material and wall should follow diagram in Figure 4. Example: The face of a mantel, bookshelf, etc. is made of combustible material and protrudes 3 ¹/₂" from the wall. This combustible material must be 4" from the side of the fireplace cabinet (see Figure 4).

Note: When installing your gas logs into a manufactured firebox, follow firebox manufacturer's instructions for minimum clearances to combustible materials.

B. Clearances from the top of the fireplace opening to the ceiling should not be less than 42".



*Minimum 16" from Side Wall

Figure 4 - Minimum Clearance for Combustible to Wall

NOTICE: Manual control heaters may be used as a vented product. If so, you must always run heater with chimney flue damper open. If running heater with damper open, noncombustible material above fireplace opening is not needed. Go to <u>Installing Damper Clamp Accessory for Vented Operation</u>, page 11.

MINIMUM NONCOMBUSTIBLE MATERIAL CLEARANCES

If Not Using Mantel

Note: If using a mantel proceed to If Using Mantel. If not using a mantel, follow the information on this page.

You must have noncombustible material(s) above the fireplace opening. Noncombustible materials (such as slate, marble, tile, etc.) must be at least 1/2" thick. With sheet metal, you must have noncombustible material behind it. Noncombustible material must extend at least 8" up. If noncombustible material is less than 12", you must install the fireplace hood accessory. See Figure 5, page 10 for minimum clearances.

Continued

Noncombustible Material Distance (A)	Requirements for Safe Installation
12" or more	Noncombustible material OK.
Between 8" and 12"	Install fireplace hood accessory (GA6050, GA6052, or GA6053 see <i>Accessories</i> , page 29).
Less than 8"	Noncombustible material must be extended to at least 8". See Between 8" and 12", above. If you cannot extend material, you must operate heater with flue damper open.

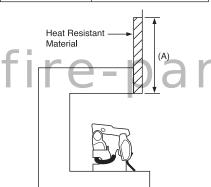


Figure 5 - Heat Resistant Material (Slate, Marble, Tile, etc.) Above Fireplace

If Using Mantel

You must have noncombustible material(s) above the fireplace opening. Noncombustible materials (such as slate, marble, tile, etc.) must be at least 1/2" thick. With sheet metal, you must have noncombustible material behind it. Noncombustible material must extend at least 8" up. If noncombustible material is less than 12", you must install the fireplace hood accessory. Even if noncombustible material is more than 12", you may need the hood accessory to deflect heat away from your mantel shelf. See Figures 5. 6 and 7 for minimum clearances. IMPORTANT: If you cannot meet these minimum clearances, you must operate heater with chimney flue damper open. Go to Installing Damper Clamp Accessory for Vented Operation, page 11.

MANTEL CLEARANCES

In addition to meeting noncombustible material clearances, you must also meet required clearances between fireplace opening and mantel shelf. If you do not meet the clearances listed below, you will need a hood.

Determining Minimum Mantel ClearanceIf you meet minimum clearance between

If you meet minimum clearance between mantel shelf and top of fireplace opening, a hood is not required (see Figure 6).

Determining Minimum Mantel Clearance When Using a Hood

If minimum clearances in Figure 6 are not met, you must have a hood. When using a hood there are still certain minimum mantel clearances required. Follow minimum clearances shown in Figure 7 when using hood.

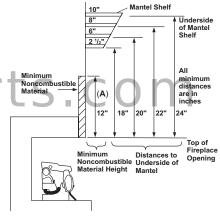


Figure 6 - Minimum Mantel Clearances Without Using Hood

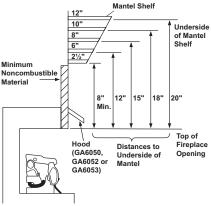


Figure 7 - Minimum Mantel Clearances When Using Hood

Continued

NOTICE: Surface temperatures of adjacent walls and mantels become hot during operation. Walls and mantels above the firebox may become hot to the touch. If installed properly, these temperatures meet the requirement of the national product standard. Follow all minimum clearances shown in this manual.

NOTICE: If your installation does not meet the minimum clearances shown, you must do one of the following:

- operate the logs only with the flue damper open
- raise the mantel to an acceptable height
 - remove the mantel

FLOOR CLEARANCES

- A. If installing appliance on the floor level, you must maintain the minimum distance of 14" to combustibles (see Figure 8).
- B. If combustible materials are less than 14" to the fireplace, you must install appliance at least 5" above the combustible flooring (see Figure 9).

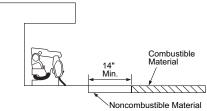


Figure 8 - Minimum Fireplace Clearances If Installed at Floor Level

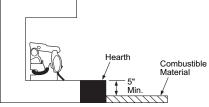


Figure 9 - Minimum Fireplace Clearances
Above Combustible Flooring

INSTALLING DAMPER CLAMP ACCESSORY FOR VENTED OPERATION

Note: When used as a vented heater, appliance must be installed only in a solid-fuel burning fireplace with a working flue and constructed of noncombustible material.

For Massachusetts Residents Only: Installation of this vented gas log set in the Commonwealth of Massachusetts requires damper be permanently removed or welded in fully open position.

You may use this heater as a vented product. There are three reasons for operating your heater in the vented mode.

- Fireplace does not meet clearance to combustibles requirements for vent-free operation.
- 2. State or local codes do not permit vent-free operation.
- 3. You prefer vented operation.

If reasons 1 or 2 above apply to you, you must permanently open chimney flue damper. You must install damper clamp accessory (to order, see <u>Accessories</u>, page 29). This will insure vented operation (see Figure 10). Damper clamp will keep damper open. Installation instructions are included with clamp accessory.

See chart below for minimum permanent flue opening you must provide. Attach damper clamp so minimum permanent flue opening will be maintained at all times.

AREA OF VARIOUS STANDARD ROUND FLUES		
Diameter	Area	
5"	20 sq. inches	
6"	29 sq. inches	
7"	39 sq. inches	
8"	51 sq. inches	
Chimney	Minimum Permanent	
Height	Flue Opening	
6' to 15'	39 sq. inches	

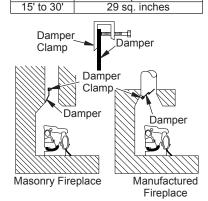


Figure 10 - Attaching Damper Clamp

Continued

INSTALLING HEATER BASE ASSEMBLY

WARNING: You must secure this heater to fireplace floor. If not, heater will move when you adjust controls. Moving heater may cause a gas leak or log misplacement.

WARNING: If installing in a sunken fireplace, special care is needed. You must raise the fireplace floor to allow access to heater control panel. This will insure adequate air flow and guard against sooting and controls being damaged. Raise fireplace floor with noncombustible material. Make sure material is secure.

CAUTION: Do not pick up heater base assembly by burners. This could damage heater. Only handle base assembly by grates.

IMPORTANT: Make sure the heater burners are level. If heater is not level, heater will not work properly.

Installation Items Needed

- hardware package (provided with heater)
- approved flexible gas hose and fittings (not provided) (if allowed by local codes)
- sealant (resistant to propane/LP gas, not provided)
- electric drill with 3/16" drill bit (metal or masonry as applicable)
- · flat head screwdriver
- · pipe wrench
- Apply pipe joint sealant lightly to male threads of gas fitting (not provided). Connect approved flexible gas hose to gas control fitting in heater (see Figure 11). IMPORTANT: Hold gas fitting with wrench when connecting flexible gas hose.
- 2. Locate two masonry screws in hardware package.
- 3. Place heater base in fireplace.

- 4. Place logs in their proper position on heater base (see *Installing Logs*, page 16).
- 5. Center heater base and logs front-to-back and side-to-side in fireplace.
- 6. Carefully remove logs without moving heater base.
- Mark screw locations through one hole on each side of the base (see Figure 12). If installing in a brick-bottom fireplace, mark screw locations in mortar joint of bricks.
- Drill holes at marked locations using 3/16" drill bit.
- Attach base assembly to fireplace floor using two masonry screws (in hardware package).

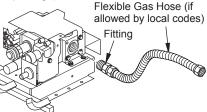


Figure 11 - Attaching Flexible Gas Hose

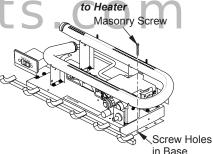


Figure 12 - Attaching Heater to Fireplace

INSTALLING BATTERIES IN REMOTE CONTROL AND RECEIVER

▲ WARNING: Make sure your selector switch is in OFF position before installing or changing batteries in your hand-held remote or receiver.

Installing Battery into Remote

- Remove battery housing cover from back of hand-held remote.
- 2. Install 3 AAA batteries.
- 3. Replace battery housing cover.

When batteries are installed, the "little house" icon with current room temperature will be dis-

Continued

played (see Figure 14). This icon will always show in the control window as long as the batteries have power.

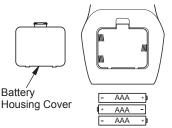


Figure 13 - Battery Install Hand-Held Remote Control

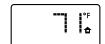


Figure 14 - Remote Display

Installing Battery into Remote Receiver

- Remove screws from cover plate.
- 2. Remove battery housing cover.
- 3. Install 4 AA batteries.
- 4. Replace battery housing cover.
- 5. Replace cover plate.

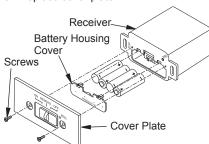


Figure 15 - Battery Install Remote Control Receiver

Installing Cover Plate Onto Remote Receiver

- Locate and remove cover plate from packaging.
- 2. Make sure sliding selector switch fits over switch on receiver.
- 3. Attach cover plate to receiver with 2 screws as shown in Figure 15.
- See page 21 for instructions on programming remote receiver to hand-held remote control.
 Note: For hand-held remote control to work, programming (synchronizing) remote to receiver must be completed.

CONNECTING TO GAS SUPPLY

WARNING: This appliance requires a 1/2" NPT (National Pipe Thread) inlet connection to the pressure regulator.

WARNING: A qualified service person must connect heater to gas supply. Follow all local codes.

CAUTION: Never connect propane/LP fireplace directly to the propane/LP supply. This heater requires an external regulator (not supplied). Install the external regulator between the heater and propane/LP supply.

WARNING: Never connect natural gas fireplace to private (non-utility) gas wells. This gas is commonly known as wellhead gas.

Installation Items Needed

Before installing heater, make sure you have the items listed below.

- external regulator (supplied by installer)
- piping (check local codes)
- sealant (resistant to propane/LP gas)
- · equipment shutoff valve *
- test gauge connection *
- sediment trap
- tee joint
- pipe wrench
- * A CSA design-certified equipment shutoff valve with 1/8" NPT tap is an acceptable alternative to test gauge connection. Purchase the optional CSA design-certified equipment shutoff valve from your dealer.

For propane/LP units, the installer must supply an external regulator. The external regulator will reduce incoming gas pressure. You must reduce incoming gas pressure to between 11" and 14" of water. If you do not reduce incoming gas pressure, heater regulator damage could occur. Install external regulator with the vent pointing down as shown in Figure 16, page 14. Pointing the vent down protects it from freezing rain or sleet.

Continued

CAUTION: Use only new, black iron or steel pipe. Internally-tinned copper tubing may be used in certain areas. Check your local codes. Use pipe of 1/2" diameter or greater to allow proper gas volume to heater. If pipe is too small, undue loss of volume will occur.

Installation must include an equipment shutoff valve, union, and plugged 1/8" NPT tap. Locate NPT tap within reach for test gauge hook up. NPT tap must be upstream from heater (see Figure 17).

IMPORTANT: Install equipment shutoff valve in an accessible location. The equipment shutoff valve is for turning on or shutting off the gas to the appliance.

Check your building codes for any special requirements for locating equipment shutoff valve to fireplaces.

Apply pipe joint sealant lightly to male NPT threads. This will prevent excess sealant from going into pipe. Excess sealant in pipe could result in clogged heater valves.

WARNING: Use pipe joint sealant that is resistant to liquid petroleum (LP) gas.

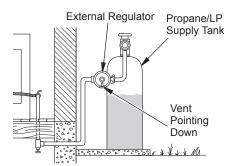


Figure 16 - External Regulator With Vent Pointing Down

We recommend that you install a sediment trap in supply line as shown in Figure 17. Locate sediment trap where it is within reach for cleaning. Install in piping system between fuel supply and heater. Locate sediment trap where trapped matter is not likely to freeze. A sediment trap traps moisture and contaminants. This keeps them from going into heater controls. If sediment trap is not installed or is installed wrong, heater may not run properly.

CAUTION: Avoid damage to gas control. Hold gas fitting with wrench when connecting it to gas piping and/or fittings.

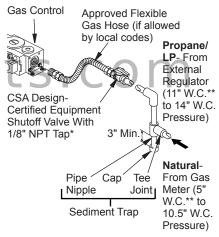


Figure 17 - Gas Connection

- * Purchase the optional CSA design-certified equipment shutoff valve from your dealer.
- ** Minimum inlet pressure for purpose of input adjustment.

Continued

CHECKING GAS CONNECTIONS

WARNING: Test all gas piping and connections, internal and external to unit, for leaks after installing or servicing. Correct all leaks at once.

WARNING: Never use an open flame to check for a leak. Apply a noncorrosive leak detection fluid to all joints. Bubbles forming show a leak. Correct all leaks at once.

CAUTION: Make sure external regulator has been installed between propane/LP supply and heater. See guidelines under <u>Connecting to Gas Supply</u>, page 13.

PRESSURE TESTING GAS SUPPLY PIPING SYSTEM

Test Pressures In Excess Of 1/2 PSIG (3.5 kPa)

- Disconnect appliance with its appliance main gas valve (control valve) and equipment shutoff valve from gas supply piping system. Pressures in excess of 1/2 psig will damage heater regulator.
- 2. Cap off open end of gas pipe where equipment shutoff valve was connected.
- Pressurize supply piping system by either opening propane/LP supply tank valve for propane/LP gas or opening main gas valve located on or near gas meter for natural gas, or using compressed air.
- Check all joints of gas supply piping system. Apply noncorrosive leak detection fluid to all joints. Bubbles forming show a leak.
- Correct all leaks at once.
- Reconnect heater and equipment shutoff valve to gas supply. Check reconnected fittings for leaks.

Test Pressures Equal To or Less Than 1/2 PSIG (3.5 kPa)

- Close equipment shutoff valve (see Figure 18).
- Pressurize supply piping system by either opening propane/LP supply tank valve for propane/LP gas or opening main gas valve located on or near gas meter for natural gas, or using compressed air.
- Check all joints from gas meter to equipment shutoff valve for natural gas or propane/LP supply to equipment shutoff valve for propane/LP (see Figures 19 and 20).
 Apply noncorrosive leak detection fluid to all joints. Bubbles forming show a leak.
- 4. Correct all leaks at once.

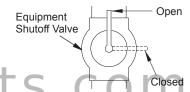


Figure 18 - Equipment Shutoff Valve

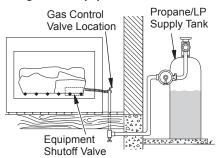


Figure 19 - Checking Gas Joints (Propane/LP only)

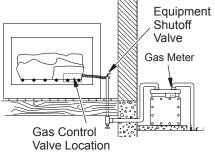


Figure 20 - Checking Gas Joints (Natural Gas only)

Continued

PRESSURE TESTING HEATER GAS CONNECTIONS

- 1. Open equipment shutoff valve (see Figure 18, page 15).
- Open main gas valve located on or near gas meter for natural gas or open propane/ LP supply tank valve.
- Make sure control knob of heater is in the OFF position.
- Check all joints to gas control (see Figures 19 or 20, page 15). Apply noncorrosive leak detection fluid to all joints. Bubbles forming show a leak.
- 5. Correct all leaks at once.
- 6. Light heater (see <u>Operation</u>, page 17). Check all other internal joints for leaks.
- 7. Turn off heater (see <u>To Turn Off Gas to Appliance</u>, page 19).

INSTALLING LOGS

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

A CAUTION: After installation and periodically thereafter, check to ensure that no flame comes in contact with any log. With the heater set to HI, check to see if flames contact any log. If so, reposition logs according to the log installation instructions in this manual. Flames contacting logs will create soot.

It is very important to install the logs exactly as instructed. Do not modify logs. Only use logs supplied with heater.

- 1. Place rear log (log #1) behind burner on the two pins on rear bracket (see Figure 21).
- 2. Place cutouts of middle log (log #2) on burner as shown in Figure 22.
- 3. Place left front log (log #3) on grate prongs as shown in Figure 23.

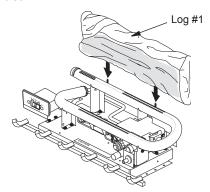


Figure 21 - Rear Log (Log #1) Placement

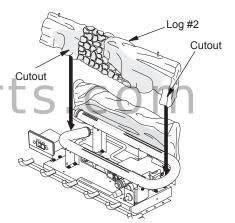


Figure 22 - Middle Log (Log #2)
Placement

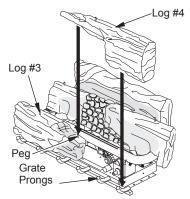


Figure 23 - Placement of Front Logs (Log #3 and Log #4)

Continued

- Place right front log (log #4) on peg of log #3 and grate prongs as shown in Figure 23, page 16.
- 5. Place left crossover log (log #5) on pegs of log #2 and #3 (see Figure 24). Place

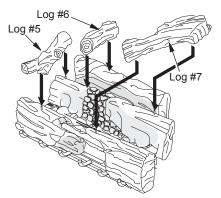


Figure 24 - Placement of Crossover Logs (Logs #5, #6, and #7)

- middle crossover log (log #6) on pegs of log #1 and #2 (see Figure 24). Place right crossover log (log #7) on pegs of log #2 and #4 (see Figure 24).
- Slide control cover log (log #8) into place between front logs #3 and #4 (see Figure 25).

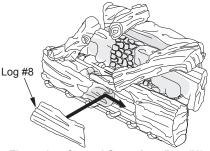


Figure 25 - Control Cover Log (Log #8)

Placement

OPERATION



FOR YOUR SAFETY
READ BEFORE LIGHTING

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- A. This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.
- B. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS

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

- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician or gas supplier. 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.

Continued



LIGHTING INSTRUCTIONS

A WARNING

- If fireplace has glass doors, never operate this heater with glass doors closed. If you operate heater with doors closed, heat buildup inside fireplace will cause glass to burst. Make sure there are no obstructions across opening of fireplace.
- You must operate this heater with a fireplace screen in place. Make sure fireplace screen is closed before running heater.

NOTICE: During initial operation of new heater, burning logs will give off a paper-burning smell. Orange flame will also be present. Open damper or window to vent smell. This will only last a few hours.

Note: Home owners generally prefer to operate their heater with the chimney damper closed. This will put all the heat into the room. However, there may be times you will desire the full flames of the highest heat setting but will find the heat output excessive. You can open the chimney damper (if you have one) fully or partially to release some of the heat.

WARNING: Damper handle will be hot if heater has been running.

MARNING: Burners will come on automatically within one minute when the control valve is in the ON position after the pilot is lit.

- STOP! Read the safety information on page 17.
- Make sure equipment shutoff valve is fully open.
- 3. Remove control cover log (see Figure 26).
- 4. Set remote selector switch in the REMOTE position (see Figure 27).
- 5. Press in and turn control knob clockwise to the OFF position (see Figure 27).
- 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, page 17. If you don't smell gas, go to the next step.
- Press in and turn control knob counterclockwise to the PILOT position. Press in control knob for five (5) seconds (see Figure 27).

Note: You may be running this heater for the first time after hooking up to gas supply. If so, the control knob may need to be pressed in for 30 seconds or more. This will allow air to bleed from the gas system.

 With control knob pressed in, press and release ignitor button. This will light pilot. The pilot is attached to the rear of the front burner. If needed, keep pressing ignitor button until pilot lights.

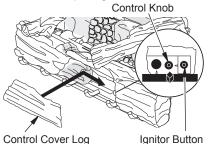


Figure 26 - Control Knob (Shown in the OFF Position) and Ignitor Button Location

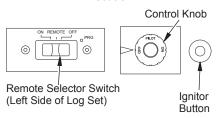


Figure 27 - Remote Selector Switch, Control Knob and Ignitor Button

Continued

Note: If pilot does not stay lit, contact a qualified service person or gas supplier for repairs. Until repairs are made, light pilot with match. To light pilot with match, see Manual Lighting Procedure.

- Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob.
 - If control knob does not pop out when released, contact a qualified service person or gas supplier for repairs.
 - Note: If pilot goes out, repeat steps 4 through 8.
- 10. Slightly push in and turn control knob counterclockwise to the ON position.
- 11. Press the on/off key on the remote control to turn on appliance main burner. Wait at least 5 seconds before setting desired flame height.
- 12. Select manual flame height function by pressing MODE button on remote until a flame is shown in lower left corner of display. Use the UP/DOWN arrow button to set desired flame height (see Figure 32, page 20).
- 13. Replace control cover log (see Figure 26, page 18).
- 14. To leave pilot lit and shut off burners only, press the on/off key on remote control or turn control knob clockwise to PILOT position.

A CAUTION: Do not try to adjust heating levels by using the equipment shutoff valve.

Note: The pilot flame on natural gas units will have a slight curve, but flame should be blue and have no yellow or orange color.

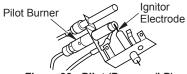


Figure 28 - Pilot (Propane/LP)

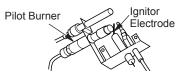


Figure 29 - Pilot (Natural)

TO TURN OFF GAS TO APPLIANCE

- Press on/off key on remote control and turn control knob clockwise to the OFF position (see Figure 27, page 18).
- 2. Close equipment shutoff valve (see Figure 18, page 15).



MANUAL LIGHTING PROCEDURE



- Follow steps 1 through 7 under <u>Lighting</u> <u>Instructions</u>, page 18.
- Depress control knob and light pilot with match.
- Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob. Now follow steps 9 through 11 under <u>Lighting Instructions</u> in column 1.



HAND-HELD REMOTE OPERATION



BATTERIES

▲ WARNING: Make sure your selector switch is in OFF position before installing or changing batteries in your hand-held remote or receiver.

For installing or replacing batteries in remote control or receiver, see <u>Installing Batteries in</u> Remote Control and Receiver on page 12.

Low Battery - Hand-Held Remote Control When batteries in hand-held remote control are low, an icon will appear on display (see Figure 30).

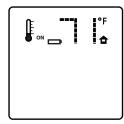


Figure 30 - Low Battery Display

Low Battery - Remote Receiver

When batteries in receiver are low, no acoustic signal will be given when ON/OFF button is pressed. If batteries in receiver are low, fireplace can be switched on manually by moving remote selector switch to ON (see Figure 27, page 18).

Continued

FAHRENHEIT/CELSIUS INDICATOR

You can set your hand-held remote control to display the temperature in either Fahrenheit or Celsius. With remote control off, press THER-MOSTAT button and MODE button at the same time. This will toggle the display from °F to °C.

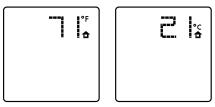


Figure 31 - Remote Control Display Fahrenheit to Celsius

OPERATING REMOTE CONTROL

MARNING: Fireplace can turn on suddenly. Keep away from burner.

After lighting pilot, let pilot flame burn for about one minute. Slide remote selector switch to REMOTE position. You can now turn the burner on and off with the remote.

IMPORTANT: Do not leave selector switch in the REMOTE or ON position when pilot is not lit. This will drain batteries.

When any button is pushed on remote control, the LCD display will glow blue. The blue glow will go off after several seconds if no action is being taken with remote.

ON/OFF

Push ON/OFF button and burners will come on in high position (see Figure 32). A beep from the receiver confirms the command.

Push ON/OFF button again and burners will turn off. A beep from the receiver confirms the command.

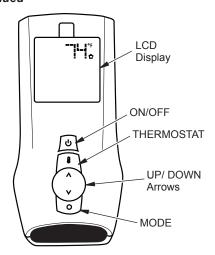


Figure 32 - Hand-Held Remote Control

FLAME HEIGHT

This function allows you to control the height of the flames through 5 levels. Select manual flame height function by pressing MODE button until a flame is shown in lower left corner of display. Use the UP/DOWN arrow button to set desired flame height (see Figure 32). A beep from the receiver confirms the command.

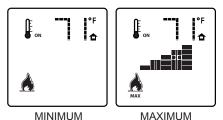


Figure 33 - Remote Control Display of Flame Height Minimum and Maximum

ROOM THERMOSTAT

The remote control can operate as a room thermostat. The thermostat can be set to a desired temperature to control the comfort level in the room.

To activate, press THERMOSTAT button on remote control (see Figure 32). The word ON will appear to the right of temperature bulb graphic on display (see Figure 34, page 21). Use UP/DOWN arrow button to set desired room temperature. Control system will cycle fireplace on or off to maintain selected temperature.

Continued

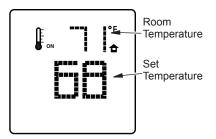


Figure 34 - Room Temperature Setting

SMART THERMOSTAT

The Smart Thermostat adjusts flame height in accordance to differences between set temperature and room temperature. As room temperature gets closer to set temperature the smart function will modulate the flame lower. As room temperature cools, it will modulate the flame higher.

To activate this function, press THERMOSTAT button until the word SMART appears to the right of temperature bulb graphic on display. Use UP/DOWN arrow button to set desired room temperature. The control system will cycle the fireplace on or off to maintain selected temperature.



Figure 35 - Smart Thermostat Setting

CHILD SAFETY LOCK-OUT

This function lets you deactivate the remote control buttons. It is active when the lock icon is lit on the display.

To activate, press MODE button and UP arrow button at the same time. To deactivate, press again.

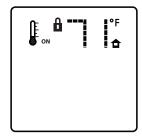


Figure 36 - Child Safety Lock-Out
PROGRAMING HAND-HELD REMOTE
CONTROL TO RECEIVER

If your remote ever needs to be replaced you will not need to replace the receiver.

To program receiver with a new hand-held remote, insert a small pin or paper clip into hole on receiver face plate marked PRG. The receiver will beep 3 times to indicate it is ready to accept a new remote transmitter. Press the ON/OFF button on your remote and the receiver will beep 4 times to confirm it receives commands from the new remote.

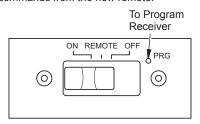


Figure 37 - Programing Remote Control to Receiver

INSPECTING HEATER

Check pilot flame pattern and burner flame patterns often.

PILOT FLAME PATTERN

Figure 38 shows a correct pilot flame pattern. Figure 39 shows an incorrect pilot flame pattern. The incorrect pilot flame is not touching the thermocouple. This will cause the thermocouple to cool. When the thermocouple cools, the heater will shut down.

If pilot flame pattern is incorrect, as shown in Figure 39

- turn heater off (see <u>To Turn Off Gas to Appliance</u>, page 19)
- see *Troubleshooting*, page 24

Note: The pilot flame on natural gas units will have a slight curve, but flame should be blue and have no yellow or orange color.

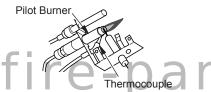


Figure 38 - Correct Pilot Flame Pattern (Your pilot may vary from pilots shown)

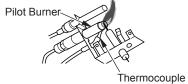


Figure 39 - Incorrect Pilot Flame Pattern (Your pilot may vary from pilots shown)

BURNER PRIMARY AIR HOLES

Air is drawn into the burner through the holes in the fitting at the burner entrance. These holes may become blocked with dust or lint. Periodically inspect these holes for any blockage and clean if needed. Blocked air holes will create soot.

MAIN BURNER

Periodically inspect all burner flame holes with the heater running. All slotted burner flame holes should be open with yellow flame present. All round burner flame holes should be open with a small blue flame present. Some burner flame holes may become blocked by debris or rust, with no flame present. If so, turn off heater and let cool. Remove blockage, blocked burner flame holes will create soot.

CLEANING AND MAINTENANCE

WARNING: Turn off heater and let cool before cleaning.

A CAUTION: You must keep control areas, burners, and circulating air passageways of heater clean. Inspect these areas of heater before each use. Have heater inspected yearly by a qualified service person. Heater may need more frequent cleaning due to excessive lint from carpeting, pet hair, bedding material, etc.

WARNING: Failure to keep the primary air opening(s) of the burner(s) clean may result in sooting and property damage.

BURNER INJECTOR HOLDER AND PILOT AIR INLET HOLE

The primary air inlet holes allow the proper amount of air to mix with the gas. This provides a clean burning flame. Keep these holes clear of dust, dirt, lint, and pet hair. Clean these air inlet holes prior to each heating season. Blocked air holes will create soot. We recommend that you clean the unit every three months during operation and have heater inspected yearly by a qualified service person.

We also recommend that you keep the burner tube and pilot assembly clean and free of dust and dirt. To clean these parts we recommend using compressed air no greater than 30 PSI. Your local computer store, hardware store, or home center may carry compressed air in a can. If using compressed air in a can, please follow the directions on the can. If you don't follow directions on the can, you could damage the pilot assembly.

1. Remove control cover log and front log.

CLEANING AND MAINTENANCE

Continued

- 2. Shut off unit, including the pilot. Allow the unit to cool for at least thirty minutes.
- Inspect burner, pilot, and primary air inlet holes on injector holder for dust and dirt (see Figures 40 and 41).
- 4. Blow air through the ports/slots and holes in the burner.
- Check injector holder located at the end of the burner tube again. Remove any large particles of dust, dirt, lint, or pet hair with a soft cloth or vacuum cleaner nozzle.
- 6. Blow air into the primary air holes on the injector holder.
- In case any large clumps of dust have now been pushed into the burner repeat steps 3 and 4.
- 8. Replace front log and control cover log (see *Installing Logs*, page 16).

Clean the pilot assembly also. A yellow tip on the pilot flame indicates dust and dirt in the pilot assembly. There is a small pilot air inlet hole about 2" from where the pilot flame comes out of the pilot assembly (see Figure

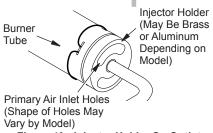


Figure 40 - Injector Holder On Outlet Burner Tube

41). With unit off, lightly blow air through the air inlet hole. You may blow through a drinking straw if compressed air is not available.

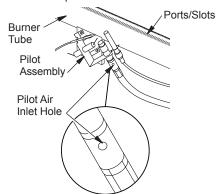


Figure 41 - Pilot Inlet Air Hole

LOGS

- If you remove logs for cleaning, refer to <u>Installing Logs</u>, page 16, to properly replace logs.
- Replace log(s) if broken or chipped (dimesized or larger).

MAIN BURNER

Periodically inspect all burner flame holes with the heater running. All slotted burner flame holes should be open with yellow flame present. All round burner flame holes should be open with a small blue flame present. Some burner flame holes may become blocked by debris or rust, with no flame present. If so, turn off heater and let cool. Remove blockage. Blocked burner flame holes will create soot.

SPECIFICATIONS

LDL3930NRB

Rating (Variable): 26,000/39,000 Btu/hr

Type Gas: Natural

Ignition: Piezo

· Manifold Pressure: 3.5" W.C.

Inlet Gas Pressure (in. of water)
 Maximum 10.5" W.C., Minimum* 5" W.C.

LDL3930PRB

- Rating (Variable): 26,000/39,000 Btu/hr
- · Type Gas: Propane/LP
- · Ignition: Piezo
- · Manifold Pressure: 8" W.C.
- Inlet Gas Pressure (in. of water)
 Maximum 14" W.C., Minimum* 11" W.C.

^{*} For purpose of input adjustment

A WARNING: Turn off heater and let cool before servicing. Only a qualified service person should service and repair heater.

A CAUTION: Never use a wire, needle, or similar object to clean ODS/pilot. This can damage ODS/pilot unit.

Note: All troubleshooting items are listed in order of operation.

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
When ignitor button is pressed, there is no spark at	Ignitor electrode not con- nected to ignitor cable	1. Reconnect ignitor cable
ODS/pilot	Ignitor cable pinched or wet	2. Free ignitor cable if pinched by any metal or tubing. Keep ignitor cable dry
	3. Piezo ignitor nut is loose	Tighten nut holding piezo ignitor to base panel of log set. Nut is located behind base panel
	4. Broken ignitor cable	4. Replace ignitor cable
	5. Bad piezo ignitor	Replace piezo ignitor
	6. Ignitor electrode positioned	Replace pilot assembly
fire-r	wrong 7. Ignitor electrode broken	7. Replace pilot assembly
When ignitor button is pressed, there is spark at ODS/pilot but no ignition	Gas supply turned off or equipment shutoff valve closed	Turn on gas supply or open equipment shutoff valve
e .ge	Control knob not in PILOT position	Turn control knob to PILOT position
	3. Control knob not pressed in while in PILOT position	 Press in control knob while in PILOT position
	Air in gas lines when installed	Continue holding down control knob. Repeat ig- niting operation until air is removed
	5. Depleted gas supply (pro-	5. Contact local propane/LP
	pane/LP only)	gas company
	6. ODS/pilot is clogged	6. Clean ODS/pilot (see <u>Cleaning and Mainte-nance</u> , page 22) or replace ODS/pilot assembly
	7. Gas regulator setting is not correct	7. Replace gas regulator

Continued

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
ODS/pilot lights but flame goes out when control knob is released	Control knob not fully pressed in Control knob not pressed in long enough	Press in control knob fully After ODS/pilot lights, keep control knob pressed in 30 seconds
	Safety interlock system has been triggered	Wait one minute for safety interlock system to reset. Repeat ignition operation
	Equipment shutoff valve not fully open	 Fully open equipment shut- off valve
	Pilot flame not touching thermocouple, which allows thermocouple to cool, caus-	A) Contact local natural or propane/LP gas company
	ing pilot flame to go out. This problem could be caused by one or both of the following: A) Low gas pressure B) Dirty or partially clogged ODS/pilot	B) Clean ODS/pilot (see Cleaning and Maintenance, page 22) or replace ODS/pilot assembly
fire-p	6. Thermocouple connection loose at control valve 7. Thermocouple damaged 8. Control valve damaged	Hand tighten until snug, then tighten 1/4 turn more Replace pilot assembly Replace control valve
Burner does not light after ODS/pilot is lit	Inlet gas pressure is too low Burner orifice(s) clogged	Contact local natural or propane/LP gas company Clean burner(s) (see Cleaning and Maintenance, page 22) or replace burner orifice
	Thermopile leads discon- nected or improperly con- nected	3. Reconnect leads (see <u>Wir-ing Diagram</u> , page 28)
	Burners will not come on in remote position	Replace battery in hand- held remote and receiver
Delayed ignition of one or both burners	Manifold pressure is too low	Contact local natural or propane/LP gas company
	Burner orifice(s) clogged	Clean burner(s) (see <u>Cleaning and Mainte-nance</u> , page 22) or replace burner orifice(s)
Burner backfiring during combustion	Burner orifice is clogged or damaged	Clean burner (see <u>Cleaning and Maintenance</u> , page 22) or replace burner orifice
	Damaged burner Gas regulator defective	Replace damaged burner Replace gas regulator

Continued

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Slight smoke or odor during initial operation	1. Not enough air	Check burner for dirt and debris. If found, clean burner (see <i>Cleaning and Maintenance</i> , page 22)
	Gas regulator defective Residues from manufacturing processes and logs curing	Replace gas control Problem will stop after a few hours of operation
Heater produces a whistling noise when burners are lit	Turning control knob to HI position when burners are cold	Turn control knob to LO position and let warm up for a minute
	2. Air in gas line	Operate burners until air is removed from line. Have gas line checked by local natural or propane/LP gas company
	Air passageways on heater blocked	3. Observe minimum installation clearances (see pages 9 through 11)
fire-p	4. Dirty or partially clogged burner orifice(s)	4. Clean burners (see <u>Cleaning</u> <u>and Maintenance</u> , page 22) or replace burner orifice
White powder residue forming within burner box or on adjacent walls or furniture	When heated, vapors from furniture polish, wax, car- pet cleaners, etc. may turn into white powder residue	Turn heater off when using furniture polish, wax, carpet cleaners, or similar products
Moisture/condensation noticed on windows	Not enough combustion/ ventilation air	Refer to <u>Air for Combustion</u> <u>and Ventilation</u> requirements (page 5)
Dark residue on logs inside of their fireplace Note: After	1. Improper log placement	1. Properly locate logs (see Installing Logs, page 16)
removing all causes of residue deposits, completely clean fireplace and appliance off	Drafts or other air currents affecting flame pattern	Eliminate source of drafts around heater
residue before reusing ap- pliance	3. Air holes at burner inlet blocked	Clean out air holes at burner inlet. Periodically repeat as needed
	4. Burner flame holes blocked	4. Remove blockage
Remote does not function	Battery is not installed. Battery power is low	Replace 4 AA batteries in receiver and 3 AAA bat- teries in hand-held remote control
	Wire connection loose or wire broken	Check wiring connections (see <i>Wiring Diagram</i> , page 28). Replace wiring harness if necessary

Continued

▲ WARNING: If you smell gas

- · Shut off gas supply.
- 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.

IMPORTANT: Operating heater where impurities in air exist may create odors. Cleaning supplies, paint, paint remover, cigarette smoke, cements and glues, new carpet or textiles, etc., create fumes. These fumes may mix with combustion air and create odors. These odors will disappear over time.

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Heater produces a clicking/ ticking noise just after burners are lit or shut off	Metal expanding while heating or contracting while cooling	This is normal with most heaters. If noise is ex- cessive, contact qualified service person
Heater produces unwanted odors	1. Heater burning vapors from paint, hair spray, glues, cleaners, chemicals, new carpet, etc. (See IMPORTANT statement above)	Open window to ventilate room. Stop using odor causing products while heater is running
	Low fuel supply (propane/ LP only) Gas leak. See Warn- ing statement at top of page	Refill supply tank (propane/LP only) Locate and correct all leaks (see <u>Checking Gas Connections</u> , page 15)
Heater shuts off in use (ODS operates)	Not enough fresh air is available Low line pressure ODS/pilot is partially clogged	Open window and/or door for ventilation Contact local natural or propane/LP gas company Clean ODS/pilot (see Cleaning and Maintenance, page 22)
Gas odor even when control knob is in OFF position	Gas leak. See Warning statement at top of page Control valve defective	Locate and correct all leaks (see <u>Checking Gas Connections</u> , page 15) Replace control valve
Gas odor during combustion	Foreign matter between control valve and burner Gas leak. See Warning statement at top of page	Take apart gas tubing and remove foreign matter Locate and correct all leaks (see <u>Checking Gas Connections</u> , page 15)

SERVICE HINTS

When Gas Pressure Is Too Low

- · pilot will not stay lit
- · burners will have delayed ignition
- · heater will not produce specified heat
- for propane/LP units, propane/LP gas supply may be low

You may feel your gas pressure is too low. If so, contact your local propane/LP or natural gas supplier.

TECHNICAL SERVICE

You may have further questions about installation, operation, or troubleshooting. If so, contact DESA Heating, LLC at 1-866-672-6040. When calling please have your model and serial numbers of your heater ready.

You can also visit DESA Heating, LLC's web site at www.desatech.com.

fire-par

REPLACEMENT PARTS

Note: Use only original replacement parts. This will protect your warranty coverage for parts replaced under warranty.

PARTS UNDER WARRANTY

Contact authorized dealers of this product. If they can't supply original replacement part(s), call DESA Heating, LLC at 1-866-672-6040. When calling DESA Heating, LLC, have ready:

- · your name
- your address
- · model and serial numbers of your heater
- · how heater was malfunctioning
- · purchase date

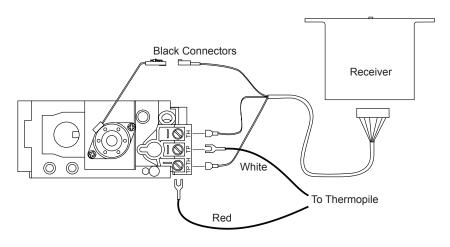
Usually, we will ask you to return the part to the factory.

PARTS NOT UNDER WARRANTY

Contact authorized dealers of this product. If they can't supply original replacement part(s), call DESA Heating, LLC at 1-866-672-6040 for referral information. A list of authorized dealers can be found by visiting www.desatech.com. When calling DESA Heating, LLC, have ready:

- · model and serial numbers of your heater
- · the replacement part number

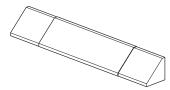
WIRING DIAGRAM



ACCESSORIES

NOTICE: All accessories may not be available for all fireplace models.

Purchase these accessories from your local dealer. If they can not supply these accessories call DESA Heating, LLC at 1-866-672-6040 for information. You can also write to the address listed on the back page of this manual.



FIREPLACE HOOD

Black - GA6050 Brass - GA6052

Antique Brass - GA6053

For all models. Helps deflect heat away from mantel or wall above fireplace. Fits openings 28" to 48" wide.

DAMPER CLAMP - GA6080

For all models. Permanently opens chimney flue damper for vented operation.

LAVA ROCK - GA6060

For all models. Order when additional rock is desired.

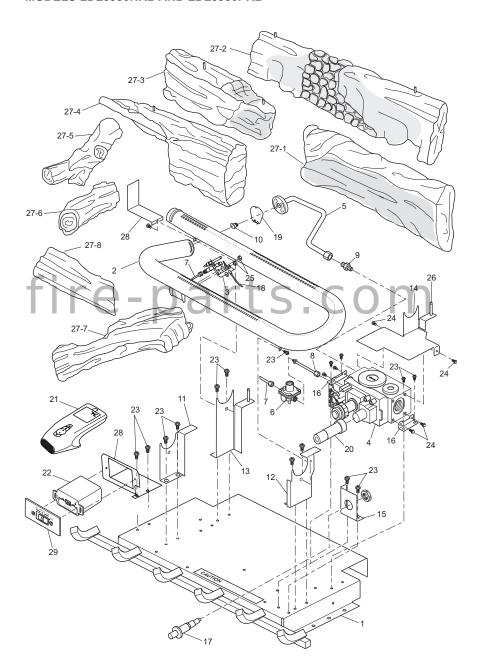
CLEANING KIT - CCK

For all models. Your vent-free gas appliance requires regular cleaning and maintenance to prevent performance problems. This kit gives you the tools and instructions to make it easy to clean all critical areas of your appliance.

ts.com

PARTS

MODELS LDL3930NRB AND LDL3930PRB



PARTS

This list contains replaceable parts used in your heater. When ordering parts, follow the instructions listed under *Replacement Parts* on page 28 of this manual.

RB RB

				LDL303	LDL303	405.	
	KEY			73	يّ رُ	<i>[</i>]	
	NO.	PART NO.	DESCRIPTION	3	3	QTY.	
	1	**	Low Profile Base Assembly, Painted	•	•	ı	
	2	102772-01	Dual Burner	٠	٠	1	
	3	PP231	ODS Pilot (Natural Gas)	٠		1	
		PP225	ODS Pilot (Propane/LP)		•	1	
	4	111440-03	Gas Valve	•		1	
	_	111440-04	Gas Valve		٠	1	
	5	111195-02	Outlet Tube	•	•	1	
	6	099918-02		٠		1	
	7	•	Pilot Tube (Natural Gas)	•		1	
	8	100609-01		٠		1	
	9	•	Male Connector	•	•	1	
	10		Injector (Natural Gas)	•		1	
fir	4.4	•	Injector (Propane/LP)		•	1	
	11	÷	Left Front Burner Bracket	•	•	1	
	12	110790-02	Right Front Burner Bracket	•	•	1	
	13	110790-03	Rear Burner Bracket	•	•	1	_
			Remote Burner Bracket	ij		1	
	15	110793-01	Piezo Bracket	•	٠	1	
			Remote Bracket	٠	•	2	
		•	Piezo Ignitor Service Kit	•	•	1	
	18	•	Ignitor Cable	•	•	1	
	19	111124-01	Burner Retainer Spring	•	•	1	
	20	103784-01		•	_		
	21	121129-01		•	•	1	
	22	121129-02		•	•	1	
	23	•	Screw, HWH AB 10-16 x 0.38	•	•	17	
	25	÷	Screw, Hex SLT WSR, 10-32 x 0.38	•		6 2	
	26	098249-01				2	
		108631-01 111502-17	· · · · · · · · · · · · · · · · · · ·	·		1	
			Rear Log Middle Log			1	
		111502-14 111502-15	Left Front Log	·		1	
			ů .			1	
		111502-16	Right Front Log	·		1	
		111502-06	Left Front Crossover Log			1	
		111502-18 111502-07	Back Crossover Log Right Front Crossover Log	·		1	
		111502-07	Control Cover Log			1	
	28		Proflame Module Bracket	·		1	
	29		Proflame Receiver Plate			1	
	23	:	ARTS AVAILABLE — NOT SHOWN			'	
		5	Warning Plate			1	
		100303-01	•			1	
		GA6060	Lava Rock			1	
			Hardware Kit			1	
			Proflame Wiring Harness		•	1	
	44 8 1						

^{**} Not a field replaceable part.

WARRANTY

KEEP THIS WARRANTY

Model (located on product or identification tag)
Serial No. (located on product or identification tag)
Date Purchased

Keep receipt for warranty verification.

DESA HEATING, LLC LIMITED WARRANTIES

New Products

Standard Warranty: DESA Heating, LLC warrants this new product and any parts thereof to be free from defects in material and workmanship for a period of one (1) year from the date of first purchase from an authorized dealer provided the product has been installed, maintained and operated in accordance with DESA Heating, LLC's warnings and instructions.

For products purchased for commercial, industrial or rental usage, this warranty is limited to 90 days from the date of first purchase.

Factory Reconditioned Products

Limited Warranty: DESA Heating, LLC warrants factory reconditioned products and any parts thereof to be free from defects in material and workmanship for 30 days from the date of first purchase from an authorized dealer provided the product has been installed, maintained and operated in accordance with DESA Heating, LLC's warnings and instructions.

Terms Common to All Warranties

The following terms apply to all of the above warranties:

Always specify model number and serial number when contacting the manufacturer. To make a claim under this warranty the bill of sale or other proof of purchase must be presented.

This warranty is extended only to the original retail purchaser when purchased from an authorized dealer, and only when installed by a qualified installer in accordance with all local codes and instructions furnished with this product.

This warranty covers the cost of part(s) required to restore this product to proper operating condition and an allowance for labor when provided by a DESA Heating, LLC Authorized Service Center or a provider approved by DESA Heating, LLC. Warranty parts must be obtained through authorized dealers of this product and/or DESA Heating, LLC who will provide original factory replacement parts. Failure to use original factory replacement parts voids this warranty.

Travel, handling, transportation, diagnostic, material, labor and incidental costs associated with warranty repairs, unless expressly covered by this warranty, are not reimbursable under this warranty and are the responsibility of the owner.

Excluded from this warranty are products or parts that fail or become damaged due to misuse, accidents, improper installation, lack of proper maintenance, tampering, or alteration(s).

This is DESA Heating, LLC's exclusive warranty, and to the full extent allowed by law; this express warranty excludes any and all other warranties, express or implied, written or verbal and limits the duration of any and all implied warranties, including warranties of merchantability and fitness for a particular purpose to one (1) year on new products and 30 days on factory reconditioned products from the date of first purchase. DESA Heating, LLC makes no other warranties regarding this product.

DESA Heating, LLC's liability is limited to the purchase price of the product, and DESA Heating, LLC shall not be liable for any other damages whatsoever under any circumstances including indirect, incidental, or consequential damages.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

For information about this warranty contact:



121486 01 NOT A UPC

DESA Heating, LLC 2701 Industrial Drive Bowling Green, KY 42101 www.desatech.com 1-866-672-6040

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