

ROBERT H. PETERSON CO.



OWNER'S MANUAL

Hand-Crafted Gas Logs Since 1949

G9 SERIES VENT-FREE GAS LOG SET INSTRUCTIONS FOR NATURAL OR PROPANE GAS

Burner Systems:

G9-20/24/30(P) G9-20/24/30-12(M)(P) G9-20/24/30-15(M)(P)

Log Sets:

Golden Oak Designer (RD9)
Split Oak (S9)
Forest Oak (FO9)





DESIGN CERTIFIED

to

Unvented Room Heater Standard
ANSI Z21.11.2-2007
and
Vented Decorative Appliance
ANSI Z21.60b-2004

▲ 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:

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

Installation and service must be performed by a qualified professional installer, service agency, or the gas supplier.



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. INSTALLER: Leave this manual with the appliance. CONSUMER: Retain for future reference.

Important: Read this manual carefully before starting installation of the log set.

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 gasses.

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 the section entitled VENTILATION AND CONFINED SPACE INFORMATION.

This appliance is designed as an "attended appliance." Adults must be present when the unit is operating. Do not leave this unit burning when unattended or while anyone is sleeping.

Installation/service MUST be performed by an NFI Certified or other qualified professional installer or service agency who is familiar with important safety information applicable to vent-free gas log heaters, and with current provisions of ANSI 223.1/NFPA54 and pertainant codes.

This gas log set must be installed in accordance with local codes and ordinances, or in the absence of local codes, with either the latest National Fuel Gas Code (ANSI Z223.1/NFPA 54), and Natural Gas and Propane Storage and Handling Installation Code (CSA-B149.1).

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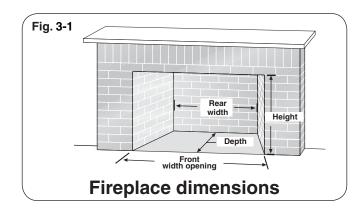
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G9 SPECIFICATIONS AND REQUIREMENTS

APPROVED INSTALLATIONS

Subject to minimum fireplace size requirements specified below:

- 1. Solid-fuel-burning fireplaces;
 - A) Prefabricated fireplaces listed to UL-127
 - B) All other masonry fireplaces
- 2. Universal-listed vent-free fireplaces.



FIREPLACE SIZE REQUIREMENTS AND BTU RATING INFORMATION									
The m	The minimum size of FIREPLACE for installation of this G9 unvented gas log set is:					BTU rating			
Log	Width				High	setting	Low s	etting	
set size	Manual valve	Millivolt valve	Depth	Height	Millivolt valve	Manual valve	Millivolt valve	Manual valve	
20"	24" front 20" rear	31" front 22" rear	14"	18"	36,000	36,000	21,000	17,000	
24"	29" front 20" rear	31" front 22" rear	14"	18"	36,000	36,000	21,000	17,000	
30"	34" front 26" rear	40" front 29" rear	14"	18"	36,000	36,000	21,000	17,000	

G9 Series vent-free gas log sets are available with a variable flame-height control valve that can be used with the optional remote transmitter and receiver.

A spark ignition system (piezo) allows the gas ODS pilot to be lit without the use of matches, and permits the operation of the appliance during a power outage.

This vent-free gas log set is equipped with an Oxygen Depletion Sensor (ODS) safety pilot system. The ODS pilot senses the amount of oxygen available in the room and shuts the log set off before the oxygen level drops below 18%. The ODS pilot can only be relit when fresh air is available. This may require opening a window or a door to another room or cracking the damper open slightly.

This gas log set has been certified to two standards: UNVENTED ROOM HEATER-ANSI Z21.11.2-2007

VENTED DECORATIVE APPLIANCE-ANSI Z21.60b-2004

Check local or state codes to determine if vent-free heaters are permitted in the locality before you install this log set as a vent-free appliance. If not permitted, you may install and operate this log set as a vented appliance.

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

Important: For safe operation and proper performance of this product and to comply with certification, listings, and building code acceptances, use ONLY Peterson Real-Fyre[®] controls, parts, and accessories that have been specifically listed or certified for use with this burner system. Use of other controls, parts, or accessories is prohibited and will void all warranties, certifications, listings, and building code approvals, and may cause property damage, personal injury, and loss of life.

PRE-INSTALLATION AND FIREPLACE PREPARATION SAFETY

CAUTION: Installation and repair must be done by an NFI Certified or other qualified professional installer.

Installer: Carefully read these instructions before installing this gas burner system. Be sure you understand all safety precautions and warnings contained in this manual.

- **A.** This appliance is designed as an **attended appliance**. Adults must be present when this gas appliance is operating. Do not leave this unit burning when unattended or while anyone is sleeping.
- **B.** 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 gasses.
- C. BE CAREFUL: If not installed, serviced, and used correctly per these instructions, this product can cause serious personal injury, property damage, or loss of life.

PRE-INSTALLATION AND FIREPLACE PREPARATION SAFETY GUIDELINES

- **D. WARNING:** Before installing in a solid-fuel-burning fireplace, <u>the chimney flue, damper, and firebox must be thoroughly CLEANED</u> of soot, creosote, ashes, and loose paint, and must be inspected by a qualified chimney cleaner. Some older fireplaces may need repair prior to installing this appliance.
- **E.** CHECK GAS TYPE (natural or propane): The gas supply must be the same as stated on your burner system rating plate. If gas supply is different, **DO NOT INSTALL**. Contact your dealer for immediate assistance.
- **F.** Any outside air ducts and/or ash dumps located on the floor or walls of the fireplace <u>must</u> be permanently sealed shut before the installation. Use a heat-resistant sealant. Do not seal the chimney flue damper.
- **G.** INSUFFICIENT GAS PRESSURE WILL KEEP THE ODS (OXYGEN DEPLETION SENSOR) PILOT FROM OPERATING PROPERLY. DO NOT USE IF GAS PRESSURE IS LOWER THAN THE MINIMUM REQUIREMENT.
- H. The minimum inlet gas-supply pressure for purposes of input adjustment is 5" water column (w.c.) on <u>natural gas</u> and <u>11"</u> w.c. on <u>propane gas</u>. Insufficient gas pressure will affect proper operation of the ODS pilot. Do not install this gas appliance if minimum pressure is not available. The maximum inlet gas-supply pressure is 10.5" w.c. on natural gas and 13" w.c. on propane gas. The propane source must be regulated. (Do not connect this appliance directly to an unregulated propane gas tank this can cause an explosion.)
- I. The gas piping system must be sized to provide minimum inlet pressure at the maximum flow rate (BTU/hr). Undue pressure loss will occur if the pipe is too small, or the run is too long.
- **J.** The minimum clearance from the fireplace opening to combustible materials on side walls and ceiling must be maintained as outlined in MINIMUM CLEARANCE TO COMBUSTIBLES WALLS AND CEILING.
- **K.** At least 10"-12" of noncombustible or heat-resistant material is required above the fireplace. A fireplace hood will be required to act as a heat deflector in protecting combustible fireplace surrounds (facing and/or mantel) if certain minimum clearances cannot be met.
- **L.** Be certain that combustible flooring material (i.e., carpet, tile, etc.) is not too close to this gas appliance. If this appliance is at floor level or less than 6" above the floor, there must be at least 12" of noncombustible material between the base of the fireplace and any combustible flooring.
- **M.** Input ratings shown in BTU per hour are for elevations up to 2,000 ft. For elevations above 2,000 ft., refer to the National Fuel Gas Code or contact the Robert H. Peterson Company before installing this product.
- **N.** This gas appliance and its main gas valve must be disconnected from the gas-supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig.
- O. This gas appliance must be isolated from the gas-supply piping system by closing the equipment shutoff valve connected to the gas-supply line during any pressure testing of the gas-supply piping system at test pressures equal to or less than ½ psig.
- **P.** Do not use this appliance if any part has been underwater. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control that has been underwater.

WARNING

THIS APPLIANCE IS EQUIPPED FOR (NATURAL OR PROPANE) GAS. FIELD CONVERSION IS NOT PERMITTED.

IMPORTANT SAFETY INFORMATION

CAUTION: Installation and repair must be done by an NFI Certified or other qualified professional

installer.

Installer: Carefully read these instructions before installing this gas log set. Be sure you understand all

safety precautions and warnings contained in this manual.

ANSI Z21.11.2-2007 UNVENTED ROOM HEATER GENERAL SAFETY INFORMATION

A. WARNING: CARBON MONOXIDE POISONING MAY LEAD TO DEATH.

When used without fresh air, gas log sets may give off carbon monoxide, an odorless, colorless, poisonous gas. Early signs of carbon monoxide poisoning are similar to the flu, with headaches, dizziness, and/or nausea. If you have these signs, the gas log set may not be installed correctly, or may not be working properly. GET FRESH AIR AT ONCE! STOP USING THE LOG SET IMMEDIATELY! Have the log set serviced before use continues. Some people, including pregnant women; persons with heart or lung disease, asthma, or anemia; those under the influence of alcohol; and persons at high altitudes, are more affected by carbon monoxide than others.

If there are ANY signs of carbon monoxide, GET FRESH AIR AT ONCE! STOP USING THE LOG SET IMMEDIATELY!

- **B.** If any soot appears on the log set or other areas of the fireplace in which this appliance is installed, shut system off and call a qualified professional service technician, **vent-free gas log technician**, or your local gas company.
- C. WHEN INSTALLING AS A DECORATIVE VENTED LOG SET, THE UNIT MUST CONFORMTO ALL LOCAL CODES AND TO THE LATEST EDITION OF THE NATIONAL FUEL GAS CODE ANSI Z223.1 OR NFPA54.
- **D.** DO NOT MODIFY THIS VENT-FREE HEATER OR ITS CONTROLS. Any change may be dangerous. Improper installation or use of your vent-free gas log set can cause serious injury or death from fire, burns, explosions, or carbon monoxide poisoning.
- **E.** This appliance is designed as an "attended appliance." Adults must be present when the unit is operating. Do not leave this unit burning when unattended or while anyone is sleeping.
- **F.** This appliance may be installed in an aftermarket, permanently located, manufactured (mobile) home where not prohibited by local codes. Installation of appliances designed for manufactured homes or mobile homes must conform with the *Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280* in the U.S.; or with *CAN/CSA Z240 MH* in Canada; or with *ANSI/NCSBCS A225.1/NFPA 501A, Manufactured Home Installations Standard* when such as standard is not applicable.
- **G.** Eliminate drafts **before** using the gas log set by closing heating and air conditioning vents, returns, and outside air vents. Fans blowing directly into the fireplace must be turned off when the log set is operating.
- **H.** 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 gasses.
- I. CAUTION: If not installed, serviced, and used correctly per these instructions, this product can cause serious personal injury, property damage, or loss of life.
- **J. WARNING:** This appliance is for installation only in a solid-fuel-burning masonry or UL 127 factory-built fireplace or in a listed ventless firebox enclosure. It has been design certified for these installations. 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.

INSTALLATION SAFETY INFORMATION

CAUTION: Installation and repair must be done by an NFI Certified or other qualified professional

installer.

Installer: Carefully read these instructions before installing this gas log set. Be sure you understand all

safety precautions and warnings contained in this manual.

INSTALLATION SAFETY GUIDELINES

A. Before installing in a solid-fuel-burning fireplace, the chimney flue and firebox **must be thoroughly cleaned** of soot, creosote, ashes, and loose paint by a qualified chimney cleaner. Some older fireplaces may need repair prior to installing this product.

- **B.** Carefully inspect the burner and log cartons for shipping damage. If any parts are missing/damaged, call your dealer. **Do not attempt** to install the appliance unless all parts are in good condition.
- **C.** Insufficient gas pressure will keep the ODS pilot from operating properly. Do not use if gas pressure is lower than the minimum requirement. Reference INSTALLATION section, CHECKING GAS PRESSURE.
- D. Correct installation of the ceramic refractory log set and proper placement and installation of burner assembly, including ember placement and Lava Granule placement, are crucial to safe operation of your set. Problems WILL occur if all items are not properly installed. Reference INSTALLATION section, LOG PLACEMENT.
- E. When installing in a wood-burning fireplace, place the log set <u>forward</u> in the fireplace while making certain that no part of the assembly protrudes (forward) beyond the face of the fireplace. **DO NOT PUSH THE UNIT ALL THE WAY TO THE BACK.**
- **F.** If you use Lava Granules for decorative use, do not allow Lava Granules into or on any part of the burner or on the logs. Lava Granules should only be placed on the floor of the fireplace, in front of and to the sides of the burner, but away from the controls.
- **G.** <u>DO NOT PLACE</u> logs or other accessories, such as wood chips, pine cones, or vermiculite, on this appliance. These items will cause improper burning, sooting, and/or high levels of carbon monoxide. Additional logs and/or accessories <u>may</u> be placed around the burner system, as long as they do not interfere with the burning of your gas log set.
- **H.** Due to high temperatures, the log set should be located out of traffic and away from furniture/draperies.
- I. A fireplace screen must be in place when the gas log set is in operation. Unless other provisions for combustion air are provided, the screen shall have an opening(s) for introduction of combustion air.
- **J.** Connecting directly to an unregulated propane tank can cause an explosion.
- K. Special care is required if you are installing the unit into a sunken fireplace. You must raise the fireplace floor to allow access to gas log controls. This will ensure adequate airflow and guard against sooting. Raise the fireplace floor using noncombustible materials.
- L. The installation of appliances designed for manufactured home or mobile home installation must conform with the Standard CAN/CSA Z240 MH, Mobile Housing in Canada; or with the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280 in the United States; or when such a standard is not applicable, ANSI/NCSBCS A225.1/NFPA 501A, Manufactured Home Installations Standard.
- **M.** A vent-free room heater having an input rating of more than 10,000 BTU per hour shall not be installed in a bedroom (ANSI Z21.11.2). If local codes allow, you may install a G8-xxR burner, having a rating of 9,500 BTU, in a bedroom. An unvented room heater having an input rating of more than 6,000 BTU per hour shall not be installed in a bathroom (ANSI Z21.11.2).

OPERATIONAL SAFETY INFORMATION

CAUTION: Installation and repair must be done by an NFI Certified or other qualified professional

installer.

Installer: Carefully read these instructions before installing this gas log set. Be sure you understand all

safety precautions and warnings contained in this manual.

OPERATING YOUR UNVENTED GAS LOG SET SAFELY AND CORRECTLY

A. SOLID FUEL MUST NOT BE BURNED in a fireplace where your vent-free gas log is installed.

- B. GLASS DOORS MUST BE FULLY OPEN when your vent-free gas log set is operating. This appliance MUST NOT BE ON if glass doors are closed, as it can lead to sooting, burner outages, and possibly explosion, causing damage or injury.
- C. WARNING: DO NOT ALLOW DRAFTS INTO OR AROUND THE FIREPLACE. CLOSE (SHUT) HEATING AND AIR CONDITIONING VENTS, RETURNS, AND OUTSIDE AIR VENTS. DO NOT OPERATE FANS (WINDOW FANS, CEILING FANS, FLOOR FANS), WHICH MAY ALTER FLAME PATTERNS. Sooting, excess carbon monoxide, or ODS pilot outages may occur due to drafts.
- **D.** WARNING: DO NOT USE A BLOWER INSERT, HEAT EXCHANGER INSERT, or any other accessory that is not specifically certified for use with your vent-free gas log set.
- **E.** If you use Lava Granules for decorative use, do not allow Lava Granules into or on any part of the burner or on the logs. Lava Granules should only be placed on the floor of the fireplace, in front of and to the sides of the burner, but away from the controls.
- **F.** Make sure there is adequate combustion and ventilation air when your log set is operating. You may need to crack the damper or open a window slightly.
- **G.** Discontinue using if you smell odors, or experience headaches, nausea, or dizziness.
- **H.** To light the log set, it may be necessary to purge the unit for longer than one minute after long periods of non-use.
- I. If you operate your vent-free gas log set fueled by propane, operating characteristics may vary as the fuel in the tank approaches empty (less than 1/4 full). Sooting and other increases in combustion by-products will occur. Turn off your log set, refill your propane tank, and have your burners cleaned.
- **J.** During manufacturing, various parts of this unit are treated with oils or paints. Though not harmful, they may produce annoying smoke and smells as they are burned off during initial operation. This is a normal occurrence. Initial break-in period should last four to six hours; maximum ventilation should be provided by opening windows, doors, or chimney flue.
- **K.** Keep the area around your gas log set clear of combustible materials, gasoline, and any other flammable vapors/liquids. Provide adequate clearance for servicing and operation. Be especially cautious if your gas log set is installed in a basement or converted garage.
- **L.** Do not place clothing or any flammable material on or near your vent-free gas log set. Matches, paper, garbage, or any other material must not be thrown on top of the logs, burner, or into the flame.
- **M.** Young children should be carefully supervised when in the same room with this appliance.
- N. Children and adults should be alerted to the hazard of high surface temperatures and should stay away to avoid burns or clothing ignition.

OPERATIONAL SAFETY INFORMATION (Cont.)

CAUTION: Installation and repair must be done by an NFI Certified or other qualified professional

installer.

Installer: Carefully read these instructions before installing this gas log set. Be sure you understand all

safety precautions and warnings contained in this manual.

OPERATING YOUR UNVENTED GAS LOG SET SAFELY AND CORRECTLY

O. Vent-free gas logs are supplemental zone heaters, not to be used as a primary heating source. Water vapor produced by vent-free gas logs can create moisture problems in a home when operated for extended periods of time. If condensation begins to occur, open your damper or a window.

As a supplemental zone heater, this set should not be used more than six continuous hours per day or more than 40 hours per week. More frequent use indicates that this unit is being used as a primary heat source. The higher presence of carbon monoxide generated by this amount of use can be considered unsafe.

- **P. DO NOT PLACE** logs or other accessories, such as wood chips, pine cones, or vermiculite, on this appliance. These items will cause improper burning, sooting, and/or high levels of carbon monoxide. Additional logs and/or accessories <u>may</u> be placed around the burner system, if they do not interfere with log set operation.
- Q. Do not use your vent-free gas log set if any part of it has been underwater. Immediately call a qualified professional service technician to inspect the set. Replace any part of the control system or gas control affected.
- **R.** If the gas quality is poor or pressure low, your ODS pilot may not stay lit, the burners may produce soot, or the unit may backfire. Contact your local gas supplier immediately.
- **S.** This appliance is designed for adults to be present while in operation. Do not leave this unit burning when <u>unattended</u> or while sleeping. **This is an attended appliance.**
- T. WARNING: Failure to keep the primary air opening(s) of the burner(s) clean may result in sooting and property damage.
- U. WARNING: All previously applied loose material, such as embers, must be removed prior to reapplication. All replacement loose material must be purchased from the original appliance manufacturer.
- V. Unusually tight construction is defined as:
 - a) Walls and ceilings exposed to the outside atmosphere have a continuous water vapor retarder with a rating of 1 perm (6x10¹¹ kg per pa-sec-m²) or less with openings that are sealed or use gaskets;
 - b) Weather stripping has been added on openable windows and doors; AND
 - 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.

VENTILATION AND CONFINED SPACE SAFETY INFORMATION

IT MAY BE NECESSARY TO OPEN A WINDOW SLIGHTLY (1"- 2") OR OTHERWISE INCREASE VENTILATION. Conditions requiring this include, but are not limited to:

- 1. Installation in a confined space.
- 2. Installation in a tightly constructed home.
- 3. Installation at high altitudes.
- **4.** Certain medical or physical conditions of the homeowner that may be adversely impacted by combustion products created by burning natural or propane gas.

Your vent-free gas log set SHALL NOT BE INSTALLED IN A CONFINED SPACE or unusually tight construction unless provisions are made for adequate combustion and ventilation air.

The National Fuel Gas Code, ANSI Z223.1/NFPA 54 defines a confined space as a space whose volume is less than 50 cu. ft. per 1,000 BTU per hour (4.8 meters 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.

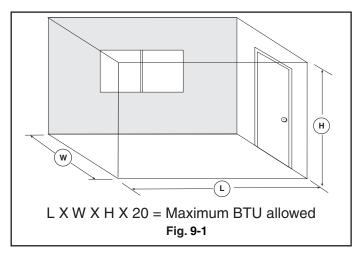
An unconfined space is a space where volume is <u>at least 50 cu. ft.</u> per 1,000 BTU per hour (4.8 meters³ per kw) of the aggregate input rating of all appliances in that space. Rooms communicating directly with the space in which the appliances are installed, through openings not furnished with doors, are considered a part of the space.

WARNING: Do not install the unvented burner system where the room is considered a confined space (see Fig. 9-1).

To determine if the area where this gas log set is to be installed fits the definition of an unconfined space, multiply the length of the room by the width of the room by the height of the room, then multiply by 20. The result is the maximum BTU allowed.

(Length x Width x Height x 20 = Maximum BTUs allowed)

Example: To install a Peterson Real-Fyre[®] 24" vent-free gas log set with 39,000 BTU (nat. gas) in a space with no other gas-burning appliances, the space **MUST** be 1,950 cu. ft. or larger (assuming an 8' ceiling, space dimensions must be a minimum of 243.75 sq. ft., i.e.; 16.3' x 15', etc.) (see Fig. 9-1).



WARNING

If the area in which the heater may be operated is smaller than that defined as an unconfined space or if the building is of unusually tight construction, provide adequate combustion and ventilation air by one of the methods described in the National Fuel Gas Code, ANSI Z223.1/NFPA 54, Air for Combustion and Ventilation, or applicable local codes.

Installation in a tightly constructed home and/ or installation at high altitudes may cause your vent-free gas log set to produce excessive heat or excessive moisture. The oxygen depletion sensor may shut down the log set. These conditions may be corrected by opening a window or otherwise increasing the number of air changes in the home.

The Peterson Real-Fyre® vent-free gas log set has been certified to function safely and reliably with emission by-products well within accepted safety and health standards. **Your specific medical or physical condition** may render you more sensitive to products created by burning natural or propane gas. If this is the case, you should open a window or otherwise increase ventilation.

REMEMBER

L X W X H X 20 = MAXIMUM BTUs ALLOWED

If the space is smaller than the above formula allows, and/or smaller than the examples and diagrams on this page specify, DO NOT install the vent-free gas log set <u>unless</u> provisions for additional combustion and ventilation air are made.

MINIMUM CLEARANCE TO COMBUSTIBLES

If the unvented gas log set is installed in a factory-built fireplace, follow the manufacturer's guidelines for minimum clearances to combustibles. In the absence of such guidelines, follow the instructions below:

Clearances to Combustible Construction:

Side walls: 6" from side of fireplace opening (Fig. 10-1) 42" from top of fireplace opening (Fig. 10-1) Mantel: (see Figs. 10-2, 10-3, and paragraph A below)

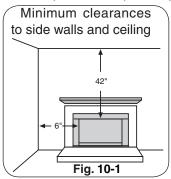
Flooring: (see paragraph B below)

Note: Clearances to combustible construction are those distances required to ensure that fireplace mantels, facings, walls, ceilings, and floorings will not catch fire.

In most cases, these clearances should also be adequate to prevent any discoloration or warping due to heat. However, every gas log installation presents a different and unique set of circumstances involving many variables beyond the control of the gas log manufacturer. These include paint or finish composition, previous exposure to heat, methods and quality of construction, airflow patterns, glass doors, fans,

or blowers, etc. Because of these variables, we cannot guarantee that heat warping or discoloration will never occur. The potential for heat warping or discoloration may exist no matter what item(s) you are burning in the fireplace, including wood.

The dimensions shown in Fig. 10-1 are MINIMUM **CLEARANCES** to maintain when you install this gas log set. **BOTH SIDES** of the fireplace opening **MUST BE AT LEAST** 6" from any combustible side walls. The ceiling MUST BE at least 42" from the top of the fireplace opening.



HOW TO CORRECTLY SIZE AND INSTALL MANTELS AND FIREPLACE HOODS

A. ABOVE THE FIREPLACE:

To install the unvented gas log set, there must ALWAYS be noncombustible or heat-resistant material immediately above the fireplace opening. Heat-resistant materials (i.e., marble or slate) must be at least 5/8" thick. Sheet metal should not be installed onto combustible materials. If you <u>DO NOT</u> install a fireplace hood, there <u>MUST</u> be at least 12" of noncombustible or heat-resistant material immediately above the fireplace opening (see X in Fig. 10-2 below). If you <u>DO</u> install a fireplace hood, there <u>MUST</u> be at least <u>10"</u> of noncombustible or heat-resistant material immediately above the fireplace opening (see Y in Fig. 10-3 below). If there is a wooden mantel, shelf, or other combustible projection above the fireplace, follow the information in Fig. 10-2 or Fig. 10-3 below.

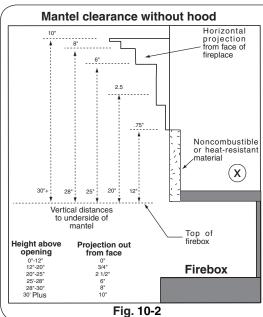
EXAMPLE: If the fireplace has a combustible projection (mantel or shelf) 20" above the top of the firebox, the maximum horizontal projection out from the face of the fireplace will be:

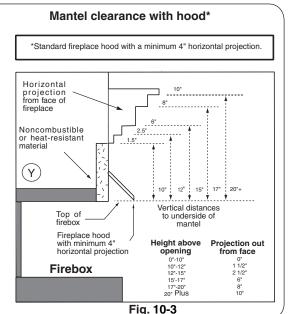
- 1. If a fireplace hood is not installed 2.5" (see Fig. 10-2).
- 2. If a fireplace hood is installed 10" (see Fig. 10-3).

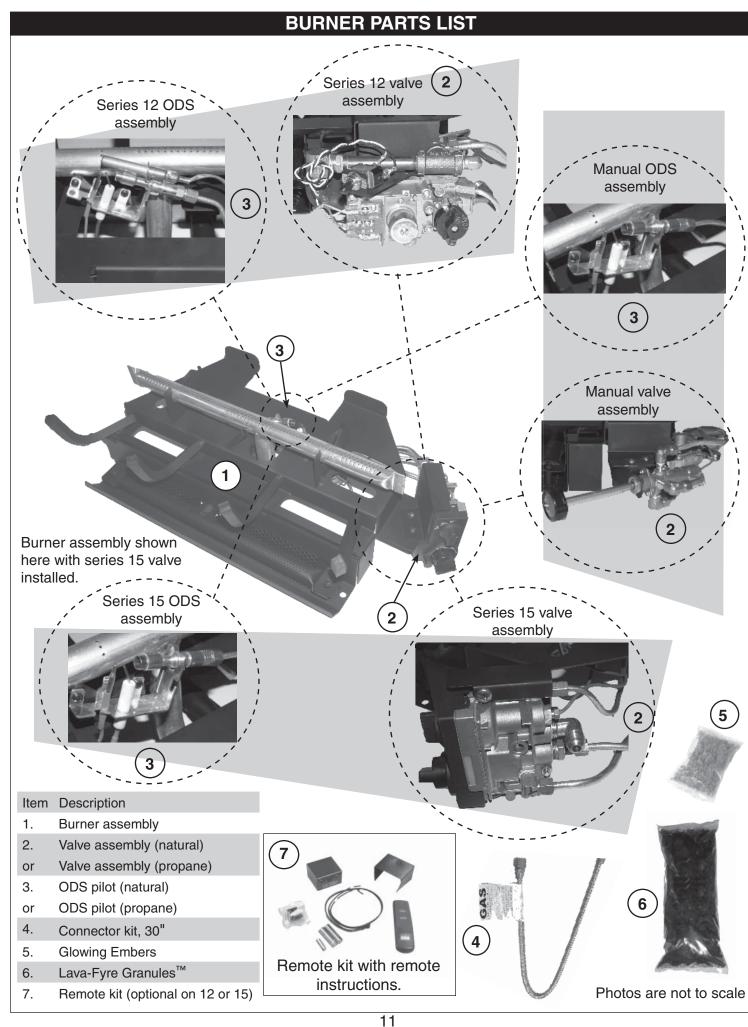
IF YOU CANNOT MEET THESE MINIMUM CLEARANCES, YOU MUST OPERATE THE UNVENTED GAS LOG SET WITH THE CHIMNEY FLUE DAMPER OPEN.

B. IN FRONT OF THE FIREPLACE:

Be certain that combustible flooring material (i.e., carpet, tile, etc.) is not too close to the unvented gas log set. If the unvented gas log set is at floor level or less than 6" above the floor, there MUST be at least 12" (1 foot) of noncombustible material between the front of the fireplace and any combustible flooring.







WHEN USED AS A VENTED DECORATIVE APPLIANCE (PER ANSI Z21.60b-2004)

This appliance is for installation in a solid-fuel-burning fireplace (masonry fireplace or manufactured fireplace) with a working flue and constructed of noncombustible material.

These gas logs may be installed as vented decorative log sets in compliance with ANSI Z21.60b-2004 and National Fuel Gas Code, Section 6.6. The minimum permanent free opening of the fireplace chimney or chimney damper must be at least 29 sq. in. based upon a minimum chimney height of at least 15'. The chimney damper must be fixed in a manner to maintain the permanent free opening at all times. To accomplish this, you may install a screw or bolt in the edge of the damper to prevent closing, drill holes in the damper, or remove the damper.

INSTALLATION

CONNECTING THE GAS TO THE BURNER SYSTEM

Important: Be sure you have read and understand all safety precautions and warnings contained in this manual.

Note: To install the Real-Fyre[®] unvented gas log set, the fireplace must have a gas-supply line that has been installed by a qualified professional technician in accordance with all local codes. Refer to the PARTS LIST when installing the unvented gas log set.

Tools Required:

- 1. Adjustable open-ended wrench
- 2. Pliers
- 3. Propane gas-resistant pipe compound or Teflon 6. Manometer (recommended for checking gas tape
- **4.** Soapy water solution & brush for leak detection
- **5.** Standard-head screwdriver
 - pressure)

Important: CHECK GAS TYPE (natural or propane). The gas supply must be the same as stated on the gas log set rating plate. If the gas supply is different, DO NOT **INSTALL.** Contact the dealer for immediate assistance.

BE SURE THE GAS SUPPLY TO THE FIREPLACE IS TURNED OFF.

BEFORE PROCEEDING, CAREFULLY READ ALL OF THE IMPORTANT SAFETY INFORMATION CONTAINED IN THIS OWNER'S MANUAL, INCLUDING:

- A. PRE-INSTALLATION AND FIREPLACE PREPARATION SAFETY GUIDELINES.
- **B.** VENTILATION AND CONFINED SPACE INFORMATION.
- C. INSTALLATION SAFETY GUIDELINES.

CONNECTING THE GAS TO THE BURNER SYSTEM

- 1. Turn **OFF** the fireplace gas supply.
- 2. Center the burner assembly in the fireplace. Make certain that no part of the assembly protrudes beyond the face of the fireplace.
- 3. Attach the large adapter fitting of the flex connector kit to the gas-supply line using pipe compound resistant to propane gas or Teflon tape. Tighten the connection. Connect one end of the flex connector to the large adapter, and the other end to the elbow connector on the burner assembly (see appropriate figure to right). Never use pipe compound or Teflon tape on the flare fittings of the flex connector.
- 4. Make sure that the control valve on the assembly is in the OFF position (see next page). Turn on the gas to the fireplace and check for leaks at all connections by using a soapy water solution.

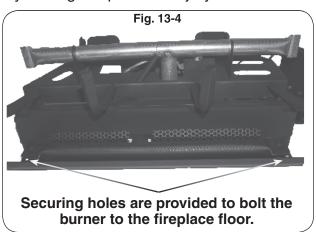
Note: Never use an open flame to check for leaks.

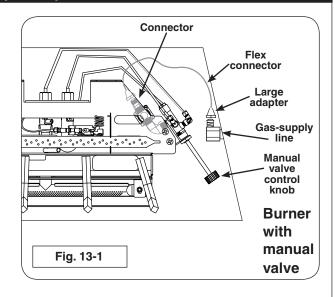
ATTACHING THE BURNER PLATE TO THE FLOOR

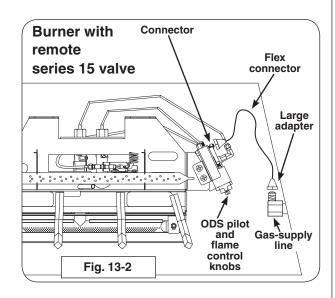
Two securing holes are provided in the front portion of the baseplate assembly of the G9 burner (Fig. 13-4) for securing it to the fireplace floor in a mobile home or as required by the installation or inspector. To secure the burner, center it properly in the fireplace and secure with bolts or other appropriate fasteners (not provided).

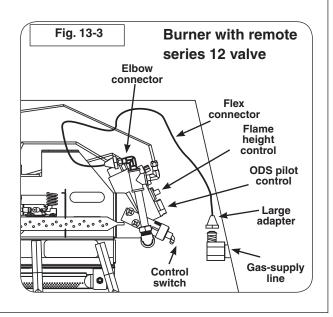
Note: If you have a manufactured fireplace, check with the manufacturer before drilling holes in the fireplace floor.

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.









CHECKING GAS PRESSURE

WARNING: Do not connect this appliance directly to a high-pressure natural gas line or an unregulated propane

Test all gas joints from the gas meter to the valve assembly for leaks using a gas detector or half-and-half soap and water solution after completing connection. **DO NOT USE AN OPEN FLAME FOR CHECKING GAS LEAKS.**

Important: Check the gas pressure with the unvented gas log set burning and the control set to **HIGH**.

The gas log set and its main gas valve must be disconnected from the gas-supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig. The gas log set must be isolated from the gas-supply piping system by closing its equipment shutoff valve during any pressure testing of the gas-supply piping system at test pressures equal to or less than 1/2 psig. This is accomplished by closing the gas-supply line valve, required to be present by NFPA 54.

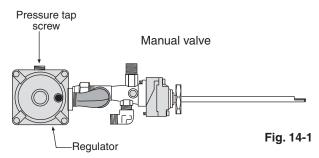
Manual Safety ODS Pilot Valve (Fig. 14-1)

The pressure regulator is preset at the factory and sealed to discourage tampering. If the pressure is not as specified, replace the regulator with the correct part from the PARTS LIST in this manual.

Remove the ¹/₈" pressure tap screw plug, located on the side of the regulator body. Install fitting and tubing of pressure gauge. With the unit operating, take the pressure reading. Reinstall the pressure tap screw and check for leaks.

Millivolt Safety ODS Pilot Valve (Fig. 14-2)

The valve regulator controls the burner pressure. To take a pressure reading, turn the *inlet* **or** *outlet* screw two to three turns. Place the pressure gauge tubing over the pressure tap. Turn the unit on and to the **HIGH** position to get the reading. Tighten the screws and repeat with the other pressure tap. When finished, check both taps for leaks.



Millivolt valve (series 12 shown)

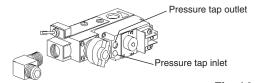


Fig. 14-2

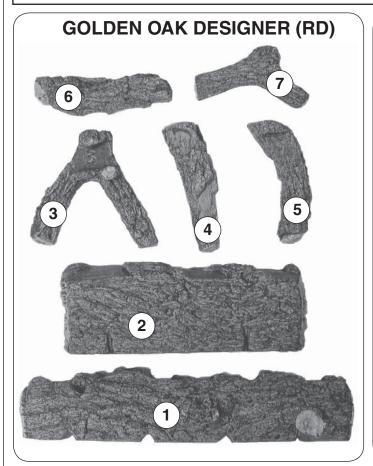
GAS PRESSURE SPECIFICATIONS

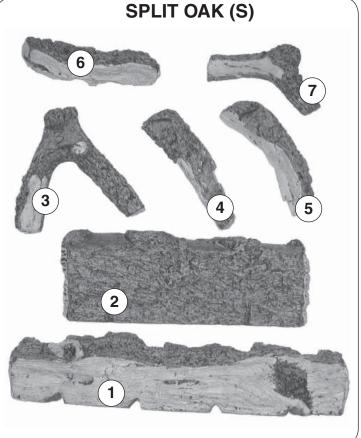
NATURAL GAS							
MANUAL PRESS	URE	MILLIVOLT PRESSURE					
Regulator pressure reading:	3.5" w.c.	Outlet pressure reading: (Flame adjustment on high)	3.5" w.c.				
Gas inlet pressure:	Max. 10.5" w.c. Inlet pressure reading:		Max. 10.5" w.c. Min. 5" w.c.				
PROPANE GAS							
MANUAL PRESS	URE	MILLIVOLT PRESSURE					
Regulator pressure reading:	10" w.c.	Outlet pressure reading: (Flame adjustment on high)	10" w.c.				
Gas inlet pressure:	Max. 13" w.c. Min. 11" w.c.	Inlet pressure reading:	Max. 13" w.c. Min. 11" w.c.				

Important: For all valves, the air MUST be purged from the gas line before the ODS pilot will light properly. The time taken to do this will depend on the length of gas line from the meter to the unit and the length of time since the unit or gas line was last used (in the case of non-use during warm weather, for example). It may take from 3 to 15 minutes before all the air is purged and the ODS pilot will light properly. This is done using the method for lighting the ODS pilot, but holding in the control valve for a longer period. Follow the LIGHTING INSTRUCTIONS in this manual for the specific valve type.

LOGS - PARTS LIST

WARNING: Failure to position these parts in accordance with these instructions, or failure to use only parts specifically approved with this unvented gas log set, may result in property damage or personal injury.

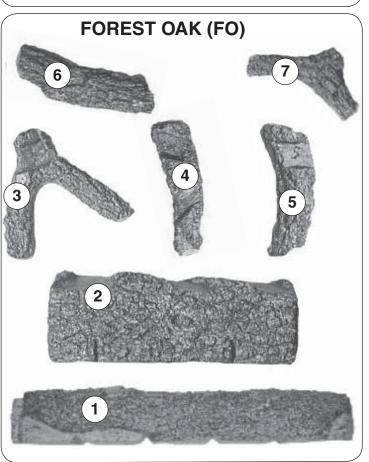




FOR ALL LOG SETS SHOWN

ITEM DESCRIPTION NO.

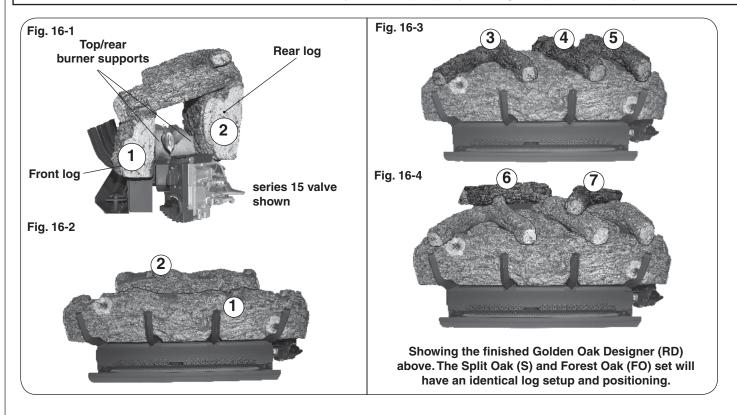
- **1.** Bottom front log 20", 24", or 30"
- 2. Bottom rear log 17"
- 3. Top Y-shaped log 10"
- 4. Top center log 10"
- **5.** Top right log 10"
- 6. Top left log 11"
- 7. Top Y-shaped log 9"



LOG PLACEMENT

WARNING:

Failure to position the parts in accordance with these instructions and diagrams, or failure to use only Peterson Real-Fyre[®] controls, parts, and accessories that have been specifically listed or certified for use with this heater, may result in property damage or personal injury.



Important: Carefully follow the detailed instructions below and on the next page for correct log placement.

LOG PLACEMENT

Log placement is critical to ensure proper performance of the gas log set. Be sure to follow the log placement instructions carefully. Logs are placed the same way for all sizes of log sets in both the Rustic Oak Elite and Split Oak styles.

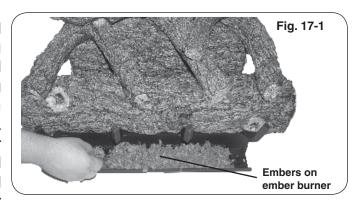
- 1. Each log in the unvented gas log set is numbered to aid in the log placement procedures. Set the front log (Log #1) and rear log (Log #2) in their approximate positions on the grate (as shown in Fig. 16-1). The rear burner supports assist in the positioning of logs #1 and #2.
- 2. Position the front log (Log #1) so that the rear burner supports fit tight against the back of the log (Fig. 16-1). Ensure the grooves in the bottom of the log sit on the grate fingers.
- 3. Center the rear log (Log #2, left to right) and pull forward so the slots in the front of this log are against the rear burner supports (Figs. 16-1,16-2).
- **4.** Position the intermediate logs (Logs #3, #4, and #5) on top of the bottom logs. Place the logs so that each log rests in the corresponding slots on the bottom front log and bottom rear log (see Fig. 16-3).
- **5.** Position the two top logs (Logs #6 and #7) on the top of the intermediate logs. Position the top logs by placing each top log into the slots of the intermediate logs (see Fig. 16-4).

CAUTION: Burn hazard. Logs will remain hot for some time after use. You must maintain the log layout as shown to ensure proper operation of the log set. If you need to reposition any log to maintain the proper layout, use heat-resistant gloves or allow logs adequate time to cool before handling.

After setting the logs into position as described on the previous page, ensure each is properly and firmly situated. This unvented gas log set will not function as intended if the logs are not correctly positioned. When placed properly, the flames will not strike any portion of Logs #3, #4, #5, #6, or #7. Periodically check the positioning of all logs to ensure proper log placement and stability. If any flame is striking Logs #3, #4, #5, #6, or #7, recheck log placement. Adjust to conform with instructions. **There must be no flame impingement on these logs.**

GLOWING EMBERS PLACEMENT

The Glowing Embers are provided in a bag labeled "Glowing Embers." It is very important that you use these embers in the quantity supplied and do not add additional embers. Open the bag carefully and pour the embers out, spreading them evenly in a thin layer across the ember burner (Fig. 17-1). There should not be any ember clumps larger than 1/4" in diameter. If the embers have clumped during shipment, break up the clumps and spread them across the burner with a screwdriver or other appropriate tool.



LAVA-FYRE™ GRANULES PLACEMENT

Lava-Fyre Granules[™] (PARTS LIST Item #6) are provided as an aesthetic enhancement to the unvented gas log set and do not affect its operation. Spread the Lava-Fyre Granules[™] on the floor of the firebox around the front and the sides of the unvented gas log set. BE SURETHAT NO Lava-Fyre Granules[™] ENTER THE BURNER SYSTEM OR INTERFERE WITH THE BURNING OF THE LOG SET.

WARNING: Failure to position the parts in accordance with these instructions and diagrams, or failure to use only Peterson Real-Fyre[®] controls, parts, and accessories that have been specifically listed or certified for use with this heater, may result in property damage or personal injury.

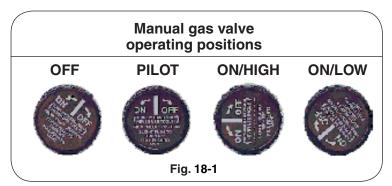
IMPORTANT

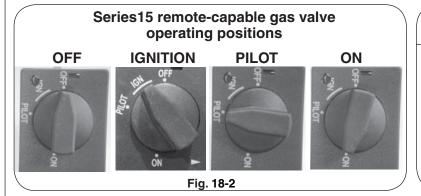
For all valves, the air MUST be purged from the gas line before the pilot will light properly. The time taken to do this will depend on the length of gas line from the meter to the unit and the length of time since the unit or gas line was last used (in the case of non-use during warm weather, for example). It may take from 3 to 15 minutes before all the air is purged and the pilot will light properly. This is done using different methods, depending on which valve is fitted to the unit. Follow the LIGHTING INSTRUCTIONS in this manual for the specific valve type.

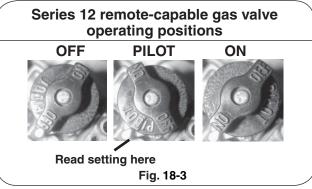
- A. G9-24/30(P) Hold down control knob at PILOT (see Fig. 18-1).
- **B.** G9-24/30-15(M)(P) Hold in control knob at **PILOT** (see Fig. 18-2).
- **C.** G9-24/30-12(M)(P) Hold in control knob at **PILOT** (see Fig. 18-3).

CONTROL SETTINGS

We recommend that before you install the log set, you familiarize yourself with the control valve layout. This will help you to be confident operating the log set when fully installed. See the figures below for typical control positions.







LIGHTING INSTRUCTIONS - SERIES 12 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.

The Real-Fyre® gas log set has an ODS pilot that must be lit by hand. When lighting the ODS pilot, follow these instructions exactly.

A. BEFORE LIGHTING, smell all around the gas log set area for gas. Be sure to smell next to the floor, because some gas is heavier than air and will settle on the floor.

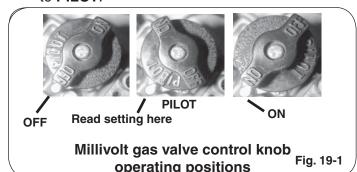
B. WHAT TO DO IF YOU SMELL GAS

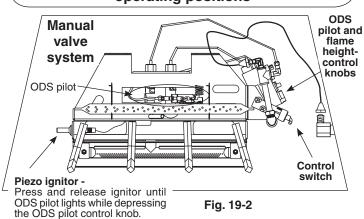
- Open a window.
- Do not try to light the appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.

- If you cannot reach your gas supplier, call the fire department.
- 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 professional service technician. Force or attempted repair may result in fire or explosion.
- **D.** Do not use the gas log set if any part has been submerged in water. Immediately call a qualified professional service technician to inspect the gas log set and to replace any part of the control system and any gas control that has been underwater.

LIGHTING INSTRUCTIONS FOR YOUR MILLIVOLT GAS VALVE SYSTEM

- 1. STOP! READ THE SAFETY INFORMATION CONTAINED IN THIS MANUAL ON P. 1.
- **2.** Turn the control switch, wall switch, or remote switch to the **OFF** position, or set the thermostat in the lowest possible setting.
- **4.** Smell for gas, especially near the floor. If you smell gas, **STOP!** Follow B in the safety information on this page. If you don't smell gas, go to the next step.
- **5.** Push and turn control knob counterclockwise ightharpoonup to **PILOT**.





- 6. Push in on the control knob all the way and hold in. Immediately light the ODS pilot or press in ignitor button (Fig. 19-2) to light ODS pilot. Continue to hold the control knob in for approximately 30 seconds after the ODS pilot is lit. Release the knob, and it will pop back out. The ODS pilot should remain lit. If it goes out, repeat steps 5 through 6.
 - If knob does not pop up when released, stop and immediately call your service technician or gas supplier.
 - If the ODS pilot will not stay lit after several tries, follow the instructions TO TURN OFF GAS TO APPLIANCE in your Owner's Manual and call your service technician or gas supplier.
- 7. Push and turn the gas control knob counterclockwise \sim to the **ON** position.

Your Real-Fyre[®] unvented gas log set is now ready for you to enjoy. Simply flip the control switch (Fig. 19-1) to the **ON** position. Then adjust the flame-height control knob as desired.

When you are finished enjoying your Real-Fyre[®] log set, flip your control switch (Fig. 19-2) to the **OFF** position.

If total shutdown is desired, push the millivolt control knob in slightly and turn to the **OFF** position (Fig. 19-1). Your ODS pilot light will be extinguished.

When shutting your log set down, be sure to TURN THE FLAME COMPLETELY TO THE OFF POSITION. Allow the burner to remain completely off for 1 minute before relighting!

LIGHTING INSTRUCTIONS - SERIES 15 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.

Do not use this appliance if any part has been underwater. Immediately call for a qualified professional service technician to inspect the appliance and to replace any part of the control system and any gas control that has been underwater.

The Real-Fyre® burner system has an ODS pilot. When starting the ODS pilot, follow these instructions exactly.

BEFORE LIGHTING, smell all around the gas burner system area for gas. Be sure to smell next to the floor, as some gas is heavier than air and will settle on the floor. IF YOU SMELL GAS, FOLLOW THE INSTRUCTIONS ON P. 1.

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 professional service technician. Force or attempted repair may result in fire or explosion.

LIGHTING THE ODS PILOT

- 2. Press the ignitor control knob in and hold in for five seconds (only ODS pilot gas will flow).
- 3. Continue pressing in while turning the ignitor control knob further counterclockwise toward the PILOT position, until you hear a click. The click is an indication that the piezo ignitor has been activated.

Note: If the spark from the piezo ignitor does not light the ODS pilot, repeat steps 2 & 3 until the ODS pilot lights.

4. Continue to hold the ignitor control knob in the **PILOT** position for 30 seconds after the ODS pilot has been lit to allow the thermocouple to detect the ODS pilot flame.

Note: The ODS pilot flame should always be present when the burner system is in operation, and should just envelop the tip of the thermocouple.

IGNITING THE MAIN BURNER

- 2. Turn the flame-height control knob (Fig. 20-3) counterclockwise to the fully **ON** position

(Fig. 20-4) to ignite the burner at maximum BTU. After the main burner ignites, adjust the flame height as indicated below.

ADJUSTING THE FLAME HEIGHT

- 1. To adjust the flame, turn the flame-height control knob (Fig. 20-3) counterclockwise to increase the flame height, or clockwise to decrease the flame height, until the flames have the desired characteristics.
- 2. When you are finished enjoying your fire, turn the flame-height control knob to **OFF**. The ODS pilot will remain lit. The burner system can be relit by rotating the flame-height control knob toward **ON**.

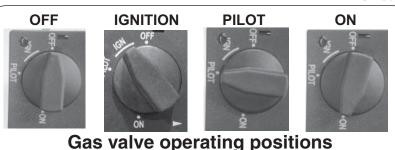
SHUTTING OFF THE ODS PILOT

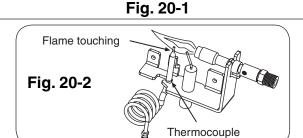
If you do not plan on using your burner system for an extended period, you may elect to extinguish the ODS pilot. To do this, rotate the flame-height control knob to the **OFF** position and then rotate the ignitor control knob to the **OFF** position (Fig. 20-1).

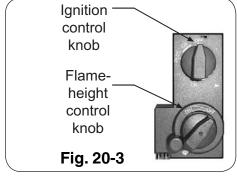
Important:

When shutting your burner down, be sure to <u>TURN THE FLAME FULLY OFF</u> (to **PILOT** or **OFF**). Make sure the burner is completely off for <u>one minute before relighting</u>.

If this unit was shipped with a remote, or if a remote system was installed later, read and follow the separate remote instructions to operate the burner remotely.









LIGHTING INSTRUCTIONS - MANUAL 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.

Do not use this appliance if any part has been underwater. Immediately call for a qualified professional service technician to inspect the appliance and to replace any part of the control system and any gas control that has been underwater.

The Real-Fyre® burner system has an ODS pilot. When starting the ODS pilot, follow these instructions exactly.

BEFORE LIGHTING, smell all around the gas burner system area for gas. Be sure to smell next to the floor as some gas is heavier than air and will settle on the floor. IF YOU SMELL GAS, FOLLOW THE INSTRUCTIONS ON P. 1.

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 professional service technician. Force or attempted repair may result in fire or explosion.

LIGHTING THE ODS PILOT

1. Push in the gas control knob (Fig. 21-1) slightly and turn clockwise to OFF.

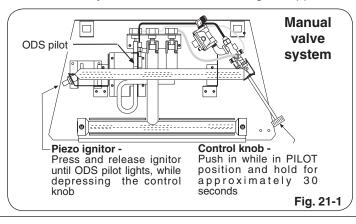
Note: The burner control knob cannot be turned from **PILOT** to **OFF** unless the handle is pushed in slightly. Do not force.

2. Turn the control knob on the gas valve counterclockwise to PILOT.

Note: The burner control knob cannot be turned from **OFF** to **PILOT** unless the handle is pushed in slightly. Do not force.

Wait five minutes to clear out any gas. If you then smell gas, STOP! Notify your gas supplier or the fire department immediately. If you don't smell gas, go on to step 2.

- 3. Push in on the control knob all the way and hold in. Immediately light the ODS pilot with a long-neck butane lighter or press in ignitor button (Fig. 21-1) to light the ODS pilot. Continue to hold the control knob in for approximately 30 seconds after the ODS pilot is lit. Release the knob, and it will pop back out. The ODS pilot should remain lit. If it goes out, repeat steps 4 through 5.
 - If the knob does not pop back out when released, stop and immediately call your service technician or gas supplier.
 - If the ODS pilot will not stay lit after several tries, follow the instructions for SHUTTING OFF THE ODS PILOT and call your service technician or gas supplier.



IGNITING THE MAIN BURNER

 Push in slightly and rotate your manual control knob in a counterclockwise
 ✓ direction to the ON/HIGH position (first stop past PILOT position, see Fig. 21-2). The main burner will ignite at maximum BTU.

ADJUSTING THE FLAME HEIGHT

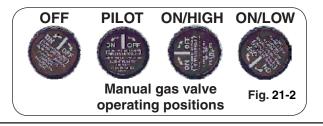
- To turn off the main burners only, push in slightly and rotate the manual control knob clockwise to the PILOT position. The ODS pilot flame will remain lit.

SHUTTING OFF THE ODS PILOT

If you do not intend to use your log set for an extended period of time, you may elect to turn the manual control knob to the **OFF** position. This will extinguish the ODS pilot. The next time you use the set, you will have to light the ODS pilot as described in LIGHTING THE ODS PILOT.

Note: When shutting your log set down, be sure to TURN THE FLAME COMPLETELY TO THE OFF POSITION. Make sure the burner is completely off for one minute before relighting!

If this unit was shipped with a remote, or if a remote system was installed later, read and follow the separate remote instructions to operate the burner remotely.



WARNING: NO ADJUSTMENTS ARE TO BE MADE TO THE ODS PILOT SYSTEM. TAMPERING WITH THIS SYSTEM CAN BE EXTREMELY HAZARDOUS.

OPERATING THE UNVENTED GAS LOG SET

Observe the flames. The main burner flames should be blue at the base and a combination of blue/yellow at the body and at the tips. They should be 5" to 8" above the logs, with the center flame being the tallest (see Fig. 22-1). Front flames in the ember burner should be 1/4" above the embers.

Every Real-Fyre® unvented gas log set leaves the factory tested and quality checked to ensure that it has been manufactured to the strict specifications to which it was submitted and approved for certification. This check includes an operational test to ensure both satisfactory combustion and operation.

Each installation site for any unvented appliance presents its own unique combustion environment. Specific factors such as weather-tightness of the home, size of the room in which the log set is installed, central heating, ceiling fans, altitude, drafts, pet hair, carpet lint, dryer lint, the size of the fireplace,



Front view with burners on Fig. 22-1

paint or soot inside the fireplace, etc. all have an influence on the proper operation of an unvented appliance and its ODS pilot system. A normally operating unvented log set will demonstrate the following characteristics:

- A lively, realistic flame and front ember glow. The flame will be blue/yellow on the front burner and on the rear burner.
- Clean-burning combustion that will produce no soot or smoke after normal break-in.
- Production of no odor, other than normal odors associated with the combustion of propane or natural gas.
- Production of water vapor. Water vapor helps to increase indoor humidity, which may be beneficial during the dry heating season.

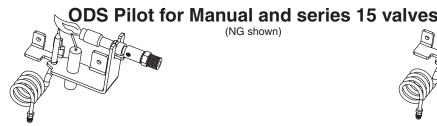
If you operate the unvented gas log set fueled by propane gas, operating characteristics may vary as the fuel in the tank approaches empty (less than 1/4 full). Sooting and other increases in combustion by-products will occur. Turn off the log set and refill the propane tank.

CHECKING THE ODS PILOT FLAME APPEARANCE

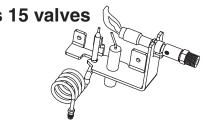
When installing the G9 burner assembly, it is important to visually check the ODS pilot flame and the burner flames.

- 1. The ODS pilot flame must be present when the burner is operating. The flame should touch the top of the thermocouple tip (Fig. 22-2 and Fig. 22-4).
- 2. If the ODS pilot flame does not touch the top of the thermocouple tip, then the main burner will not function properly (see Fig. 22-3 and Fig. 22-5 for incorrect ODS pilot flame).
- 3. With the burners off and the ODS pilot flame off, and the assembly cool, check the burner assembly, air intake openings on the ODS pilot, and air shutter openings on the burner for any blockages that could affect the operation of the ODS pilot flame.

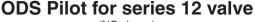
(NG shown)



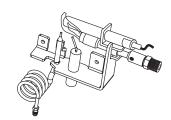
Correct ODS pilot flame Fig. 22-2



Incorrect ODS pilot flame Fig. 22-3



(NG shown)



Incorrect ODS pilot flame Fig. 22-5



CLEANING AND SERVICING

CAUTION: Installation and repair must be done by an NFI Certified or other qualified service person.

Installer: Carefully read these instructions before installing this gas log set. Be sure you understand all

safety precautions and warnings contained in this manual.

CLEANING and SERVICING

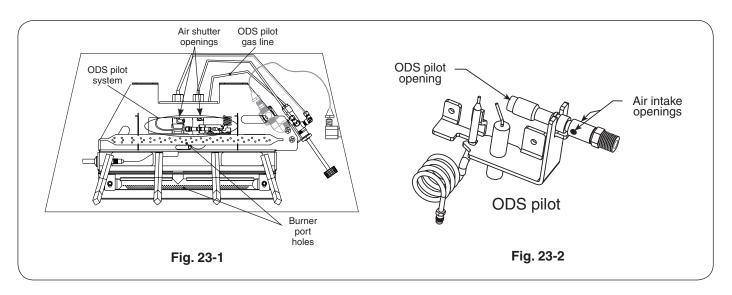
A. Always shut off the gas to the unvented gas log set while performing service work.

B. Allow the unvented gas log set to cool before servicing.

C. The gas log set should be inspected regularly to prevent burner shutdown, sooting, odors, etc. This unit must be cleaned at least annually by a professional service person. The ODS pilot system must be checked for clean-burning operation and proper appearance by a qualified professional service technician with the correct tools to service this unit. More frequent cleaning may be required. Excessive lint can build up on this unit from carpeting, bedding material, pet hairs, or other particles in the air. It is critical that all control components, burners, and circulating air passageways be kept clean and free of all obstructions. The ODS pilot is especially sensitive to a dirty environment and will not function properly if dirty.

Make certain all air openings are clean and free of obstructions, including:

- 1. The two (2) air intake openings on ODS pilot assembly.
- 2. The ODS pilot opening.
- **3.** The air shutters on the front/bottom burner for a natural gas log set and the air shutters on both the front/bottom and rear/top burners for a propane gas log set.
- **4.** All of the portholes on the carryover tube.
- **5.** All of the portholes on both the front/bottom burner and the rear/top burner.
- **6.** Check to make sure that the embers are spread evenly across the bottom/front burner, not clumped together (see GLOWING EMBERS PLACEMENT).
- **D.** Any safety screen or guard removed for servicing must be replaced prior to operating this gas log set.



CLEANING AND SERVICING (Cont.)

Note: Only limited cleaning will be required under normal use of the unvented gas log set.

CLEANING THE LOG SET

WARNING

Allow the log set to cool before cleaning or servicing.

- Remove the logs. Use a vacuum cleaner to remove loose particles from all surfaces of the logs. Do not use cleaning fluids to clean the logs or any other part of the log set.
- 2. Dust the grate, the base of the assembly, and the burners. Vacuum any loose particles or lint from the base and around the ODS pilot.
- 3. Replace the logs as instructed in the GLOWING

EMBERS and LOG PLACEMENT sections of this manual.

If, after a period of use, the flames start to exhibit unusual shapes and behavior, or the burners fail to ignite smoothly, the burner holes may require some cleaning. If this happens, it is preferable to contact the nearest dealer to have the unvented gas log set serviced.

Do not remove rating plate and/or warning tags. These labels are an integral safety and identification component of this appliance.

During periods of heavy use, inspect the unvented gas log set frequently for evidence of sooting. If sooting is present, discontinue use until the source of sooting is corrected.

CLEANING THE ODS PILOT

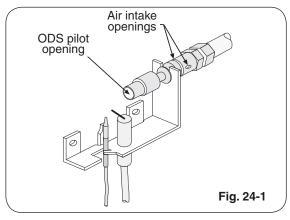
Periodic cleaning and maintenance of the unvented gas log set is recommended to ensure that the log set operates properly. Cleaning of the ODS pilot system is an important part of the maintenance program. This ODS pilot cleaning procedure must be performed by a qualified service technician familiar with the specific characteristics of the log set.

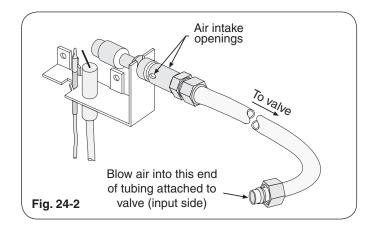
- 1. Turn the unvented gas log set to the OFF position and allow it to cool. Inspect the ODS pilot area (see Fig. 24-1) for any visual contamination or debris (usually lint, hair, spider webs, or small insects). Lightly brush off all external surfaces while vacuuming loosened debris from the ODS pilot opening. Be careful not to brush any foreign material into the ODS pilot opening.
- 2. Clean out both air intake openings (see Fig. 24-2) by lightly brushing around the openings while vacuuming.

Note: It is very important that the air intake openings be kept clear of debris. Should the openings become blocked, the ODS pilot system will not operate properly.

3. Light the ODS pilot according to the relevant LIGHTING INSTRUCTIONS section. The ODS pilot flame should appear as shown in the CHECKING THE ODS PILOT FLAME APPEARANCE section.

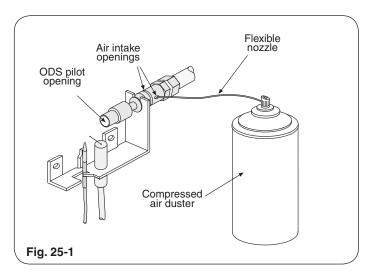
Manual valve illustrated

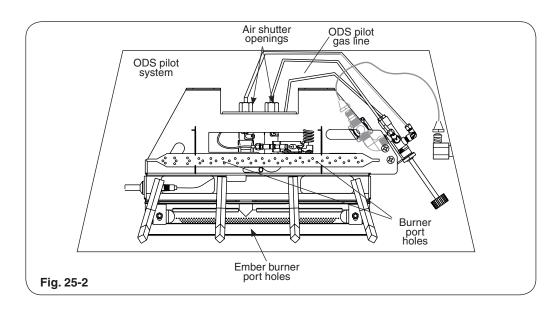




CLEANING AND SERVICING (Cont.)

- 4. If the ODS pilot flame does not burn as indicated in the instructions, extinguish the ODS pilot by turning the valve to the full **OFF** position. Using a compressed air duster (commonly available at computer, electronic, or office supply stores), insert the flexible nozzle through either air intake openings, ensuring that the nozzle is pointed toward the ODS pilot opening (see Fig. 25-1). Blow air through both air intake openings to clear out any debris that may be in the system.
- 5. Relight the ODS pilot and inspect it to be sure it is burning as shown in the instructions. If not, extinguish the ODS pilot and turn off the gas supply to the gas log set. Using an adjustable or a 1/4" wrench, disconnect the ODS pilot gas line from the valve (see Fig. 25-2).
- 6. Insert the flexible nozzle of the compressed air duster and blow air into the input end of the ODS pilot gas line to remove any blockages. Do not blow air directly into the ODS pilot opening. Blow air in the direction of the gas flow.
- 7. Reinstall the ODS pilot gas line and check for leaks.
- **8.** Light the ODS pilot to make sure it is operating properly (see the relevant LIGHTING INSTRUCTION section).
- **9.** If the ODS pilot still does not operate properly, **it may need to be replaced with the same model** as the one on the unvented burner.





LOG SET NOTES PAGE
Please use this page to record any information about your log set that you may want to have at hand.

	POSSIBLE CAUSE	<u>SOLUTIONS</u>			
•	BURNE	R S	HUTTING DOWN DURING OPERATION		
A.	Insufficient or excessive gas pressure	A 1.	Check gas pressure (check with local gas company). For natural gas, pressure must be minimum 5" w.c. at fireplace with burner operating. Maximum inlet gas pressur is 10.5", w.c. Reading at inlet pressure tap (farthest to valve inlet) on remote-capabl valves burners should be 5" w.c. (minimum). With the knob on high, maximum inlet pressure is 10.5" w.c.		
		A2.	Other gas appliances may be on the same gas line, dropping gas pressure to th log set. Check pressures with everything operating to ensure adequate pressure.		
B.	Foreign debris in or around the fireplace and around the air intake of the ODS pilot	B.	Dust, carpet fibers, paper, spider webs, pet hair, etc. in fireplace or on burner assemble can affect operation of burner and ODS pilot assembly. Clean out debris and vacuur around burner for accumulated dust. Vacuum or use compressed air to clean out th ODS pilot assembly area, air shutter holes, burner orifices, and ODS pilot air intak openings. Blockage in this area will affect the operation of the ODS pilot assembly.		
C.	Room size (unconfined space)	C.	50 cu. ft. is required for every 1,000 BTU. Multiply the room's length x width height by 20 (L x W x H x 20). If resulting number is less than the BTU rating of the burner, ODS pilot outages may occur. Provisions for adequate combustion an ventilation air must be made (see VENTILATION AND COMBINED SPACE SAFET INFORMATION).		
D.	Log placement	D.	Your logs may have notches for correct placement. The burner may have bracket for correct placement. Make sure log set is placed in proper position (see LOG PLACEMENT) so there is no flame impingement on the log set.		
E.	Flue area, fireplace, or damper dirty from soot	E.	Clean around, above, and under damper thoroughly. Clean fireplace, removing loos material, including soot and creosote.		
F.	Fans, furnaces, air conditioning vents, returns, or fireplace outside air vents near or blowing into fireplace may create drafts, altering flame patterns	F.	Eliminate drafts by closing heating and air conditioning vents, returns, and closin outside air vents. Fans blowing directly into the fireplace should be turned off whe set is operating.		
G.	Blockages on burner	G.	Vacuum any Lava Granules or material that may have fallen onto burner pipe area		
H.	Fireplaces with high top cavities can accumulate by-products of combustion, which can start recirculating, causing shutdown	H.	Open window or damper slightly. Move burner forward if possible, or otherwis increase ventilation.		
I.	Insufficient air circulation	I.	Check log placement, Glowing Ember placement, Bryte Coals™ placement, an sizing of log set (check your owner's manual for proper placement and requirements Reposition burner closer to the front of fireplace. (Note: Do not place burner to close to combustibles.) (See INSTALLATION SAFETY GUIDELINES section.)		
J.	Fireplace too small for unit	J.	Ensure minimum requirements are met (see FIREPLACE SIZE REQUIREMEN section).		
K.	At high altitude, too much heat or moisture can cause ODS pilot to shut down log set	K.	Open a window or the damper slightly or otherwise increase the ventilation. Your semay not be certified for use over 2,000 feet. Check your owner's manual.		
L.	ODS pilot flame lifting off thermocouple/generator	L.	Check gas pressure (see item A1 in this table).		
М.	Soot inside burner	M.	Take burner tube out of unit and shake it or tap it to loosen soot inside burner. Clear thoroughly and place burner tube back onto unit.		
	Pilot (remote-capable)	NI	Contact your dealer for instructions on replacement.		

POSSIBLE CAUSE ODS PIL A. ODS pilot flame lifting off thermocouple/generator	<u>SOLUTIONS</u>
<u> </u>	OT WILL MOT LIGHT
A. ODS pilot flame lifting off thermocouple/generator	OT WILL NOT LIGHT
	A. Check gas pressure.
B. Piezo spark not lighting ODS pilot	B. Check to make sure piezo is sparking when turning ignitor contro knob. (Note: You may need to turn ignitor several times to ignite ODS pilot.) See LIGHTING INSTRUCTIONS section.
C. Gas supply off/manual shutoff valve closed	C. Turn on gas supply or open manual shutoff valve.
D. Air in gas line	D. Hold control knob to bleed the line and repeat LIGHTING INSTRUCTIONS until air is removed.
3 HIGH CO - CARBON MONOXID	DE DETECTORS IN HOME TURNING ALARM ON
A. High CO levels	A. TURN OFF UNIT IMMEDIATELY.
	B. Call a qualified service technician or your gas supplier.
4 cc	ONDENSATION
A. High room humidity and cold walls or windows will create condensation in room	A. Open a window or damper slightly.
5 LOW	FLAME HEIGHT
A. Low gas pressure	A. Check gas pressure.
3. Propane tank running low	B. Fill tank completely.
6 BURNER N	NOT BURNING EVENLY
 Top burner lights; bottom burner has delayed ignition or does not light 	A1. Check gas pressure. Can be caused by too small a gas line (see ANSI 223.1/NFPA 54 Piping Guidelines).
	A2. Low propane fuel gas level. Vacuum burner tube for soot blockage and fill propane tank.
	A3. Flash tube (if present) blocked. Clear blockage.
3. Burner orifice clogged	B. Clean burner orifice.
NO SPARK AT ODS PILOT W	HEN IGNITOR CONTROL KNOB IS TURNED
A. Ignitor electrode wire loose	A. Check wiring and reconnect any loose wiring
8	ODORS
A. New log set (break-in period)	A. Burn unit for four to six hours with damper, doors, or windows open Allow odors to dissipate.
Odors created by aerosol sprays, detergents, household chemicals, and insecticides	B. When these odors are drawn into the fireplace, this may cause objectionable odors. Thoroughly ventilate the area before restarting your log set.
C. Gas leak	C. Locate gas leak and correct all leaks.
D. New home, new carpet, or new paint	D. When these odors are drawn into the fireplace, this may cause objectionable odors. Thoroughly ventilate the area before restarting your log set.

POSSIBLE CAUSE	SOLUTIONS
	OTING
A. Low gas pressure	A. Check gas pressure.
B. Drafts in room	B. Eliminate drafts by closing heating and air conditioning vent returns, and outside air vents. Fans blowing directly into fireplace should be turned off when set is operating.
C. Air shutters blocked	C. Burner air shutters are blocked with debris. Vacuum debris in ar around burner area.
D. Log placement	D. Some log sets have notches on the bottom front and rear logs restrict any side-to-side movement. The log support/main burned brackets restrict any forward or backward movement. Make sur log set is placed in its proper position as instructed in the owner manual, so there is no flame impingement on log set.
E. Too many embers on the ember burner (where fitted)	E. Remove any additional embers not included with your vent-free gating set. Important: DO NOT ADD ANY ADDITIONAL EMBER TO THIS LOG SET. ANY ADDITIONAL EMBERS MAY CAUS UNSAFE OPERATION.
F. Using a product other than Real-Fyre [®] gas logs with burner	F. Make sure only Real-Fyre® <u>vent-free</u> gas logs are used with yo vent-free burner.
G. Using natural gas burner on propane gas or propane burner on natural gas	G. Make sure burner is set up for the gas you are using. Che nameplate attached to burner. Call your dealer immediately nameplate does not match the gas you are using.
H. Adding any accessories to log sets	H. Shut down log set and take off any logs or accessories that do n belong with the set.
I. Blocked orifices or air shutters	I. Dust, lint, fibers, paper, spider webs, pet hair, etc. in the fireplace and on the burner assembly can affect the operation of the burner and the ODS pilot assembly. Clean out the debris and vacuularound burner for dust that may have accumulated over time. Vacuum the ODS pilot assembly and over the air shutter hole. Any blockages in this area will affect the operation of the OD sensor.
ODS PILOT WILL NOT	STAY LIT WHEN KNOB IS RELEASED
A. Haven't held knob in long enough	A. Hold knob in for 1 minute and release. If the knob doesn't hol contact your dealer for service (valve replace or new ODS).
11 POPPING NO	ISE COMING FROM BURNER
A. Flash tube blocked	A. Clear flash tube of all obstructions, especially around th bottom.

WARRANTY

PETERSON VENT-FREE GAS LOG SETS LIMITED WARRANTY

All Peterson vent-free ceramic refractory gas logs are WARRANTED for as long as you own them (lifetime).

All Peterson vent-free fiber ceramic gas logs are WARRANTED for SEVEN (7) YEARS.

All Peterson vent-free burner component parts, except valves, ODS pilots, and controls, are **WARRANTED for TEN (10) YEARS**.

All Peterson valves, ODS pilots, and controls are covered by a ONE (1) YEAR Limited Warranty (excluding batteries).

This warranty applies only to the original purchaser from the date of purchase, and to Peterson products purchased for residential purposes.

This warranty does not cover parts becoming defective by misuse, accidental damage, electrical damage, improper handling, and/or installation or service (log sets must be installed as outlined in the enclosed instructions by a qualified professional installer and with only Peterson parts, control valves, remotes, and accessories). It does not cover labor or labor-related charges. It specifically excludes liability for indirect, incidental, or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion or limitation may not apply to you. This warranty gives you specified legal rights and you may have other rights that may vary from state to state.

For additional information regarding this warranty, or information on how to place a warranty claim, contact your Peterson dealer or the Robert H. Peterson Company.

WHEN USED IN THE COMMONWEALTH OF MASSACHUSETTS

INSTALLATION OF THIS APPLIANCE MUST BE PERFORMED BY A MASSACHUSETTS LICENSED PLUMBER OR GAS FITTER ONLY.

THE INSTALLATION OF THIS APPLIANCE MUST CONFORM TO THE BOARD OF FIRE PREVENTION REGULATIONS 527 CMR 30.00 UNVENTED PROPANE OR NATURAL GAS-FIRED SPACE HEATERS.

This vent-free gas appliance is designed for use in a standard wood-burning fireplace. It is designed to be used with an external wall switch or external remote thermostatic control system. Models with the suffix 12(P) or 01(P) are designed to be used with an external wall switch or an external remote wall thermostatic control system.

ROBER	ROBERT H. PETERSON CO.							
Quality Che	eck	Date:						
Orifice # (N	ain):							
Orifice # (O	ther):	Model #:						
Leak Test:		Serial #:						
Burn Test:		Air Shutter:						
Gas Type:	NAT. / PROPANE	Inspector:						

Robert H. Peterson Co. • 14724 East Proctor Avenue • City of Industry, CA 91746