



Burner Systems:

G18-2-**-12(M)(P)

G18-2-**-15(M)(P)

**Sizes:
(16/18, 24)



24" ESV log set shown

DESIGN CERTIFIED
to standards:

Unvented Room Heater
ANSI Z21.11.2

and
Vented Decorative Appliance
ANSI Z21.60

G18-2 UNVENTED GAS LOG SETS

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

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 the gas supplier, call the fire department.
- Open a window.

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

It is imperative that you maintain your unvented gas appliance by having it cleaned and serviced regularly. See pages 12, 24-27 for details.

Important

Read these instructions carefully and completely before starting installation of the burner system.

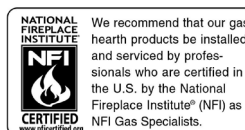
This appliance may be installed in an aftermarket, permanently located, manufactured (mobile) home where not prohibited by local codes.

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. See section entitled **VENTILATION AND CONFINED SPACE INFORMATION**.

This appliance is designed as an **attended appliance**. **DO NOT** leave this appliance burning when unattended.

Installation, service, and the provisions for combustion and ventilation air **MUST** conform with local codes and to the *National Fuel Gas Code*, ANSI Z223.1/NFPA 54, or the *Natural Gas And Propane Installation Code*, CSA B149.1.



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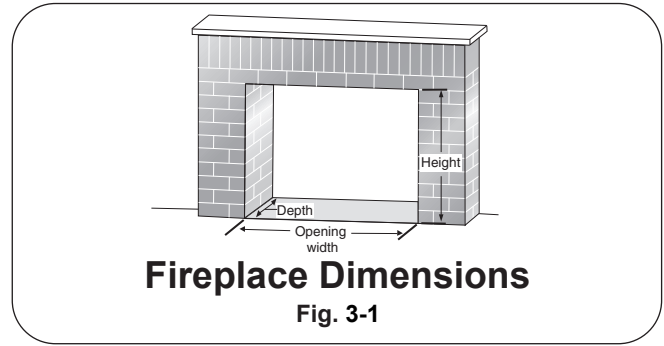
SPECIFICATIONS AND REQUIREMENTS

WARNING: This appliance is for installation only in a:

1. Solid-fuel-burning masonry or UL-127 factory-built fireplace, or
2. Listed ventless firebox enclosure.

It has been designed 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 burner systems.

Note: Installation in any other fireplace is prohibited and will void any approvals and warranties.



Any installation of this appliance is subject to minimum fireplace size requirements below:

Burner Model	Minimum Fireplace Size (refer to Fig. 3-1)			BTU Rating			
	Width	Depth	Height	Nat. Gas		L.P. Gas	
				Low Setting†	High Setting	Low Setting†	High Setting
G18-2-16/18 (16/18" log set)	22"	18"	17"	29k	39k	29k	39k
G18-2-24 (24" log set)	26"	18"	17"	29k	40k	29k	40k

* based on minimum depth

† Low Setting is only available on 15 models

This burner system is equipped with an Oxygen Depletion Sensor (ODS) safety pilot system. The ODS senses the amount of oxygen available in the room and shuts the burner system off before the oxygen level drops below 18%. The 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 burner system has been certified to two standards:
UNVENTED ROOM HEATER-ANSI Z21.11.2
VENTED DECORATIVE APPLIANCE-ANSI Z21.60

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

This unit may not be installed in a vented fireplace with a chimney of less than 15 feet in height.

Observing minimum fireplace dimensions and centering the appliance in the fireplace will ensure adequate clearance for accessibility for purpose of servicing and proper operation. It may be necessary to disconnect the unit for some types of service.

Minimum Permanent Free Opening in Chimney (when used as a vented appliance)		
Table 3-1	Factory built fireplaces*	
Chimney Height	16/18"	24"
15'	16 sq. in	18 sq. in
20'	13 sq. in	15 sq. in
25'	12 sq. in	13 sq. in
30'	11 sq. in	12 sq. in

*For masonry-built fireplaces, add 10 sq. in. to amount shown.

Specification	Value	Qty.
Remote receiver battery type	AA battery	4
Remote transmitter battery type	12V battery	1

Table 3-2 - Technical Data (if applicable)

IMPORTANT SAFETY INFORMATION

UNVENTED ROOM HEATER GENERAL SAFETY INFORMATION

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

Early signs of carbon monoxide poisoning are similar to the flu, with headaches, dizziness, and/or nausea. If you have these signs, the gas appliance may not be installed correctly, or may not be working properly. **GET FRESH AIR AT ONCE! STOP USING THE APPLIANCE IMMEDIATELY!** 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. **(The appliance must be serviced by a qualified professional service technician before use).**

- B. If any soot appears on the appliance 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 burner system technician**, or your local gas company.
- C. 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 home (U.S. only) or mobile home installation must conform with the Standard *Mobile Housing, CAN/CSA Z240 MH*, 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, *Manufactured Home Installations Standard ANSI/NCSBCS A225.1/NFPA 501A*.
- D. Eliminate drafts **before** using the gas appliance by closing heating and air conditioning vents, returns, and outside air vents. Fans blowing directly into the fireplace must be turned off when this appliance is operating.
- E. **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. This appliance 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 burner systems.
- F. **WARNING: DO NOT MODIFY THIS VENT-FREE HEATER OR ITS CONTROLS. Any change may be dangerous.** Improper installation or use of your vent-free gas appliance can cause serious injury or death from fire, burns, explosions, or carbon monoxide poisoning.
- G. State and local codes may only allow operation of this appliance in a vented configuration. Check your state or local codes.
- H. **WHEN INSTALLING AS A DECORATIVE VENTED APPLIANCE, THE UNIT MUST CONFORM TO ALL LOCAL CODES AND TO THE LATEST EDITION OF THE NATIONAL FUEL GAS CODE ANSI Z223.1/NFPA54.**

▲ WARNING: FIRE, EXPLOSION, AND ASPHYXIATION HAZARD

Improper adjustment, alteration, service, maintenance, or installation of this burner system or its controls can cause death or serious injury. Read and follow instructions and precautions in this manual.

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.

VENTILATION AND CONFINED SPACE SAFETY INFORMATION

This burner system 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/NFPA 54*, the *International Fuel Gas Code*, or applicable local codes.

- 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 meters³ per kw) of the aggregate input rating of all appliances installed in that space.
- An unconfined space is a space where volume is at least 50 cu. ft. per 1,000 BTU per hour (4.8 meters³ 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.

WARNING: Do not install the unvented burner system where the room is considered a confined space (see Fig. 5-1).

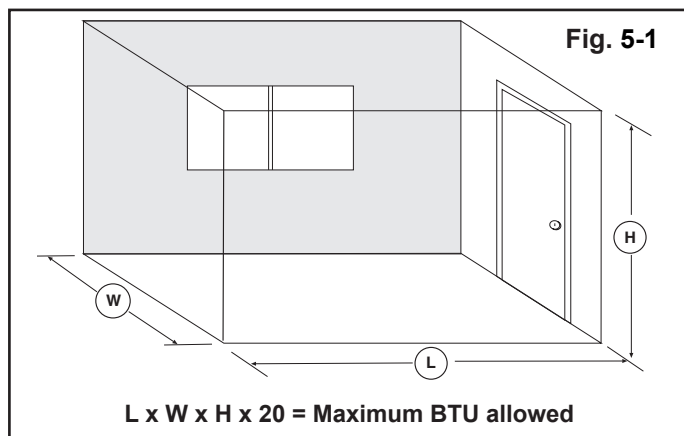
To determine if the area where this burner system is to be installed fits the definition of an unconfined space, multiply the length of the room by the width of the room by the height of the room, then multiply by 20. The result is the maximum BTU allowed.

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

Example: To install a vent-free gas burner system with 36,000 BTU, maximum, in a space with no other gas-burning appliances, the space **MUST** be 1,800 cu. ft. or larger.

Assuming an 8' ceiling, floor dimensions must be a minimum of 225 sq. ft.,

i.e.; 18'x12.5'=225 sq ft (see Fig. 5-1).



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.

REMEMBER

$L \times W \times H \times 20 = \text{MAXIMUM BTUs ALLOWED}$

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 burner system unless provisions for additional combustion and ventilation air are made.

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 **HOME OF UNUSUALLY TIGHT CONSTRUCTION****.
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.

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

**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 1 perm (6×10^{-11} kg per pa-sec- m^2), or less with openings gasketed or sealed;
- 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.

This vent-free burner system 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.

MINIMUM CLEARANCES TO COMBUSTIBLES

If the vent-free burner system 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:

Sidewalls: 6" from side of fireplace opening (Fig. 6-1).

Ceiling: 42" from top of fireplace opening (Fig. 6-1).

Flooring: See IN FRONT OF FIREPLACE section below.

Mantel: See ABOVE THE FIREPLACE section below & Fig. 6-1. Also see Fig. x-1, & x-2 on following page).

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 burner installation presents a different and unique set of circumstances involving many variables beyond the control of the manufacturer. These include paint or finish composition, previous exposure to heat, methods and quality of construction, air flow patterns, glass doors, fans or blowers, etc.

IN FRONT OF THE FIREPLACE:

Be certain that combustible flooring material (i.e.: carpet, tile, etc.) is not too close to the vent-free unit. If the vent-free burner system 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.

ABOVE THE FIREPLACE:

To install the vent-free burner system, 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 $\frac{5}{8}$ " thick. Sheet metal should not be installed onto combustible materials.

If you **DO NOT** install a fireplace hood, there **MUST** be at least **12"** of noncombustible or heat resistant material immediately above the fireplace opening (**see A** in Fig. x-1 on the following page). If you **DO** install a fireplace hood, there **MUST** be at least **10"** of noncombustible or heat resistant material immediately above the fireplace opening (**see B** in Fig. x-2 on the following page). If there is a wooden mantel, shelf, or other combustible projection above the fireplace, follow the information in the Figures on the next page.

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:

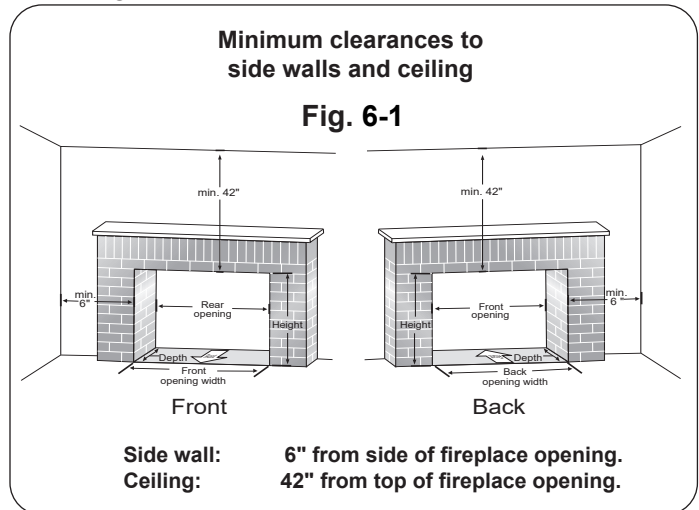
1. If a fireplace hood is not installed - **2.5"** (see Fig. x-1 on the following page).
2. If a fireplace hood is installed ----- **10"** (see Fig. x-2 on the following page).

A fireplace hood deflects heat away from the fireplace face and mantel, reducing the potential for heat related warping or discoloration. The use of a fireplace hood is highly recommended.

DO NOT place any combustible decorations/items on the mantel or above the fireplace.

IF YOU CANNOT MEET THESE MINIMUM CLEARANCES, YOU MUST OPERATE THE VENT-FREE BURNER SYSTEM WITH THE CHIMNEY FLUE DAMPER OPEN.

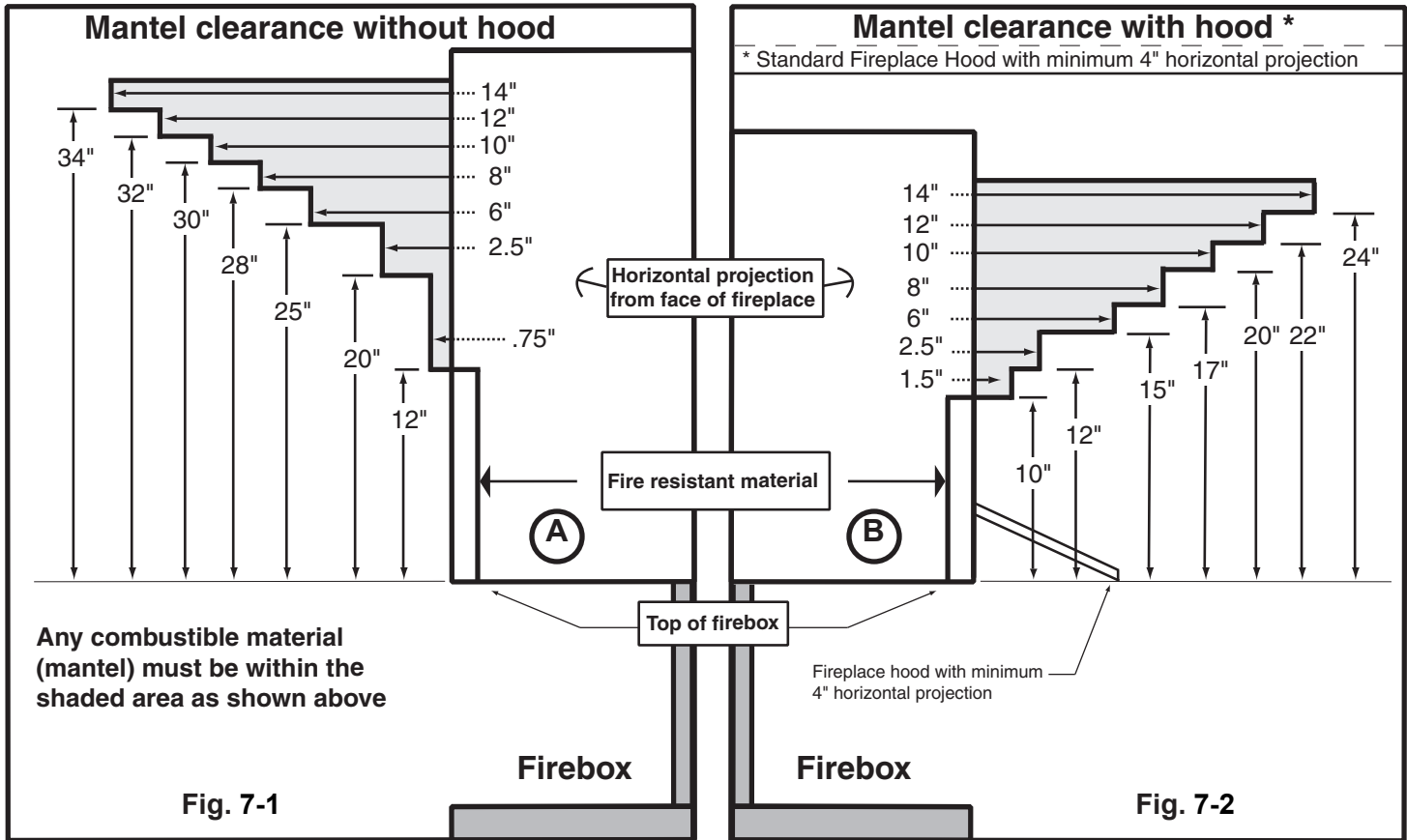
Because of these variables, we cannot guarantee that heat warping or discoloration will never occur. The potential for heat warping or discoloration may exist no matter what item(s) you are burning in the fireplace, including wood.



The dimensions in Fig. 6-1 are **MINIMUM CLEARANCES** to maintain when you install this burner system. **BOTH SIDES** of the fireplace opening **MUST BE AT LEAST 6"** from any combustible sidewalls. The ceiling **MUST BE** at least **42"** from the top of the fireplace opening.

MINIMUM CLEARANCES TO COMBUSTIBLES (Cont.)

IF YOU CANNOT MEET THESE MINIMUM CLEARANCES, YOU MUST OPERATE THE VENT-FREE GAS BURNER SYSTEM WITH THE CHIMNEY FLUE DAMPER OPEN.



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.

PRE-INSTALLATION AND FIREPLACE PREPARATION SAFETY GUIDELINES

- A. CAUTION:** If not installed, serviced, and used correctly per these instructions, this product can cause serious personal injury, property damage, or loss of life.
- B. WARNING:** Before installing in a solid-fuel-burning fireplace, the chimney flue, damper, and firebox must be thoroughly CLEANED of soot, creosote, ashes, and loose paint by a qualified chimney cleaner. Some fireplaces (especially older ones) may need repair prior to installing this appliance.
- C.** 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.
CHECK GAS TYPE (natural or L.P.): 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.
- D.** Any outside air ducts and/or ash dumps located on the floor or walls of the fireplace must be permanently sealed shut before the installation. Use a heat-resistant sealant. Do not seal the chimney flue damper.
- E.** 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.
- F.** The *minimum* inlet gas-supply pressure for purposes of input adjustment is **5"** water column (w.c.) on **natural gas** and **11"** w.c. on **L.P. gas**. 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 L.P. gas. **The L.P. source must be regulated, located outside, and hard-lined in (rigid pipe must come into the fireplace). DO NOT connect this appliance to an unregulated L.P. gas tank/cylinder. DO NOT locate the tank/cylinder inside of the home. DO NOT run a rubber hose or flex connector into the fireplace. Failure to follow these requirements can cause an explosion, property damage, personal injury, or loss of life.**
- G.** **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. Gas supply pipe must be 1/2" minimum interior diameter. If the gas line is longer than 20', a larger diameter line may be necessary. Refer to the NFPA 54 guidelines for further details.
- H.** 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.
- I.** 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.
- J.** 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.
- K.** 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.
- L.** This gas appliance and its appliance 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 psi (3.5 kPa).
- M.** This gas appliance 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 psi (3.5 kPa).
- N.** Do not use this appliance if any part has been under water. Immediately call a qualified professional service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

WARNING

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

INSTALLATION SAFETY INFORMATION

INSTALLATION SAFETY GUIDELINES

- A. 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.
- B. Correct installation of the glass or the ceramic refractory log set and proper placement and installation of the burner assembly, including ember placement and Lava Granule placement, are imperative to safe operation of your set. Problems **WILL** occur if all items are not properly installed. Reference the INSTALLATION section, LOG SET PLACEMENT.
- C. When installing in a wood-burning fireplace, **center the appliance 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.
- D. If you use Lava Granules, or glass or gems, for decorative use, do not allow these accessories into or onto any part of the burner or on the logs. Lava Granules, or glass or gems used to accessorize the vent-free burner, 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.
- E. **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 may be placed around the burner system, as long as they do not interfere with the burning of your gas appliance.
- F. **Due to high temperatures, this appliance should be located out of traffic and away from furniture and draperies.**
- G. A fireplace screen must be in place when the appliance is operating. Unless other provisions for combustion air are provided, the screen shall have an opening(s) for introduction of combustion air.
- H. Connecting directly to an unregulated L.P. tank can cause an explosion.
- I. 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 controls. This will ensure adequate airflow and guard against sooting. Raise the fireplace floor using noncombustible materials.
- J. An unvented room heater having an input rating of more than 10,000 Btu/hr (2931W) shall not be installed in a bedroom or bathroom (ANSI Z21.11.2).
An unvented room heater having an input rating of more than 6,000 Btu/hr (1758W) per hour shall not be installed in a bathroom (ANSI Z21.11.2).

ASH LIP/RECESS REQUIREMENTS (if applicable)

- **DO NOT** install this burner system in a fireplace with an ash lip or recess greater than $\frac{3}{4}$ ".
- The depth (as indicated in the SPECIFICATIONS section) begins inside of the lip.

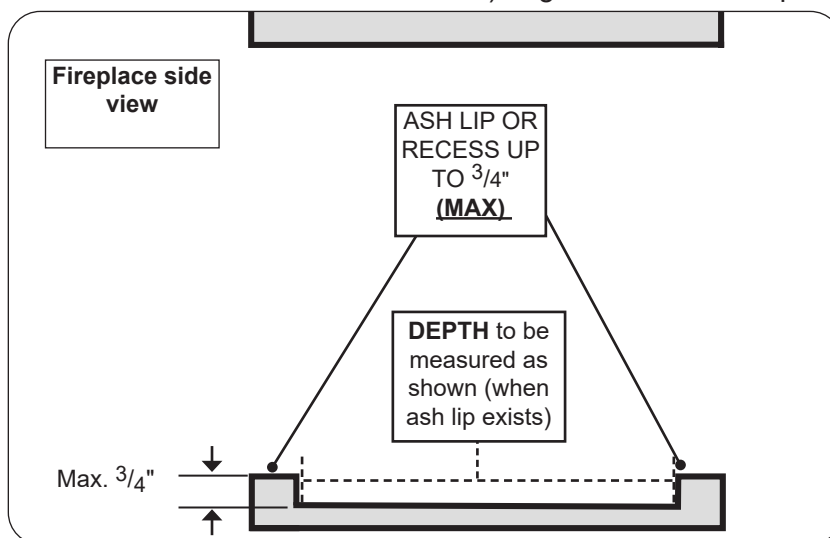


Fig. 9-1 Ash lip/recess detail

INSTALLATION SAFETY INFORMATION (CONT.)

GLASS DOOR REQUIREMENTS

If this burner system is installed in a fireplace with glass doors, and the door frame bottom is greater than $\frac{3}{4}$ " in height, the frame **MUST** have slots (above the fireplace floor) that allow adequate ventilation. This prevents airflow obstruction (to the fireplace floor). See Fig. 10-1.

Note: The doors can be installed in front of an ash lip (that meets the requirements on the previous page).

Important: The opening (with doors fully open) **MUST** meet the minimum fireplace size front width and height requirements. See the SPECIFICATIONS section and Fig. 10-1.

Important: The glass doors **MUST** be fully open when the burner is in operation.

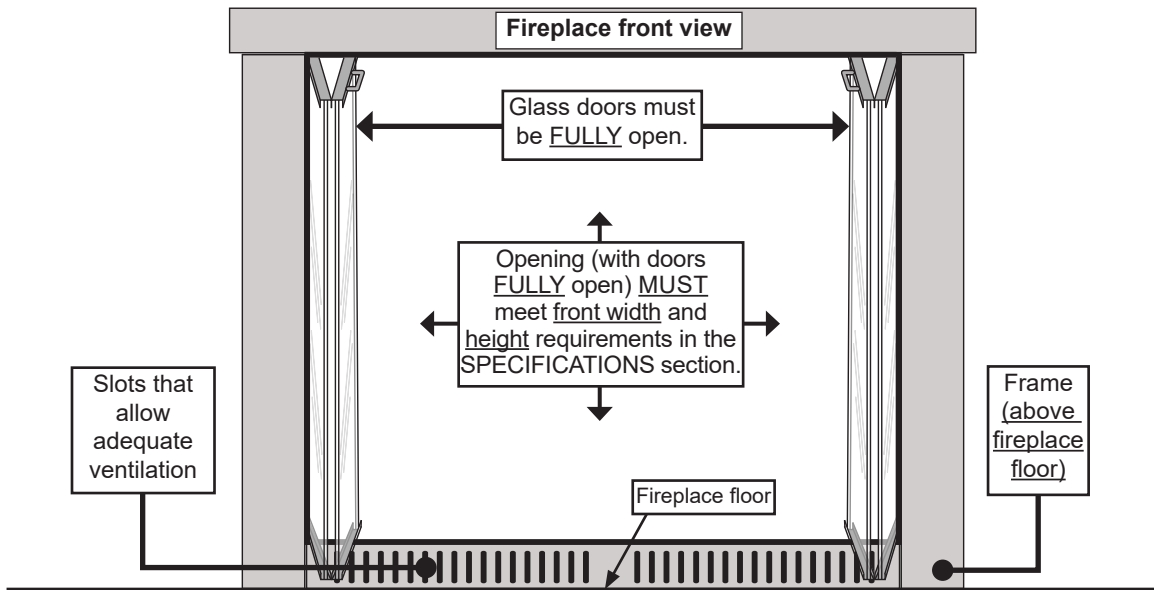


Fig. 10-1 Correct glass-doors frame setup, ventilation, and use (if applicable)

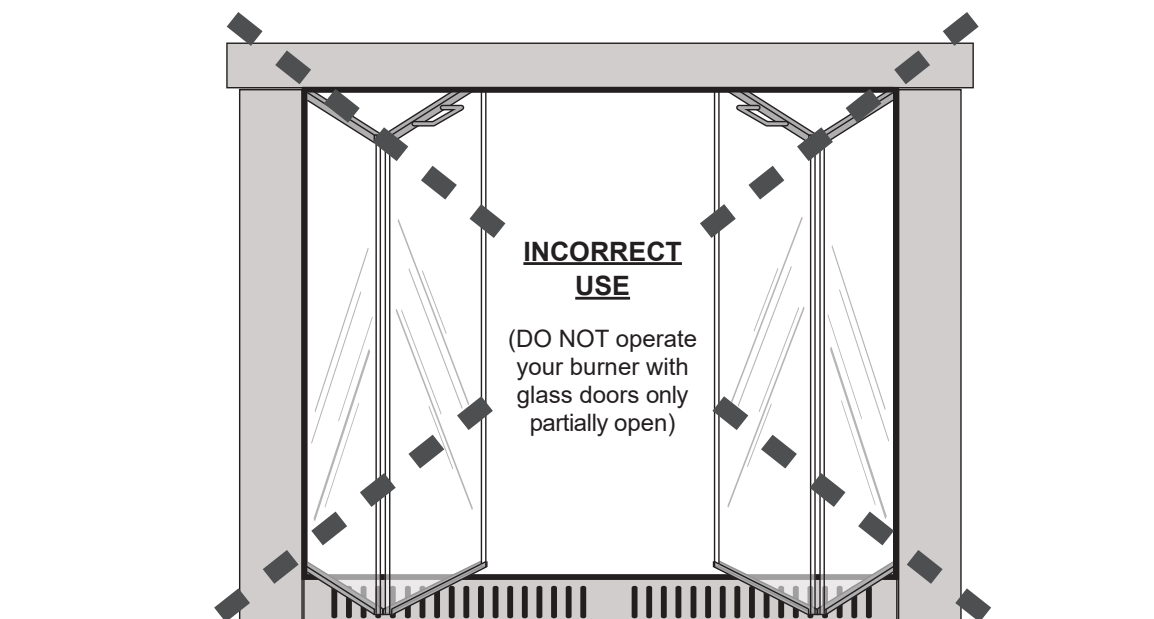


Fig. 10-2 Incorrect glass-doors frame setup, ventilation, and use (if applicable)

OPERATIONAL SAFETY INFORMATION

OPERATING YOUR UNVENTED GAS APPLIANCE SAFELY AND CORRECTLY

- A. **SOLID FUELS MUST NOT BE BURNED** in a fireplace where a decorative appliance is installed.
- B. **GLASS DOORS MUST BE FULLY OPEN** when this vent-free gas appliance 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 ALLOW FANS TO BLOW DIRECTLY INTO THE FIREPLACE. AVOID ANY DRAFTS THAT ALTER BURNER 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 this vent-free gas appliance.
- E. Make sure there is adequate combustion and ventilation air when this gas appliance is operating. You may need to crack the damper or open a window slightly.
- F. **THIS APPLIANCE MUST BE MAINTAINED IN A WELL-CLEANED CONDITION AT ALL TIMES. REGULAR (AT LEAST ONCE PER YEAR) CLEANING OF THE BURNER AND ODS PILOT IS REQUIRED BY A QUALIFIED PROFESSIONAL SERVICE TECHNICIAN.**
- G. To light this appliance, it may be necessary to purge the unit for longer than one minute after long periods of non-use.
- H. If you operate this vent-free gas appliance fueled by L.P., 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 appliance, refill the L.P. tank, and have the burners cleaned.
- I. 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.
- J. Keep the appliance area clear and free from combustible materials, gasoline, and other flammable vapors and liquids. Provide adequate clearance for accessibility for purpose of servicing and proper operation. Be especially cautious if this gas appliance is installed in a basement or converted garage.
- K. **Do not place clothing or other flammable material on or near the appliance.** Matches, paper, garbage, or any other material must not be thrown on top of the logs, burner, or into the flame.
- L. **Young children should be carefully supervised when they are in the same room with this appliance.**
- M. **Children and adults should be alerted to the hazard of high surface temperature and should stay away to avoid burns or clothing ignition.**

OPERATING YOUR UNVENTED GAS APPLIANCE SAFELY AND CORRECTLY

- N. **This appliance is intended for supplemental heating, and is not a primary heating source.** Water vapor produced by vent-free burner systems 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.
- O. 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.
- P. Adults MUST be present when this gas appliance is operating. This appliance MUST NOT be left burning when unattended or while anyone is sleeping.
- Q. **WARNING:** Failure to keep the primary air opening(s) of the burner(s) clean may result in sooting and property damage.
- R. **WARNING:** All loose material shall be installed per this instruction manual. The application of excess loose material may adversely affect performance of the appliance. 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.
- S. 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 (6×10^{11} kg per pa-sec- m^2) 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.
- T. Burning candles, air fresheners and sprays will cause objectionable odors to be created by the unvented burner system.

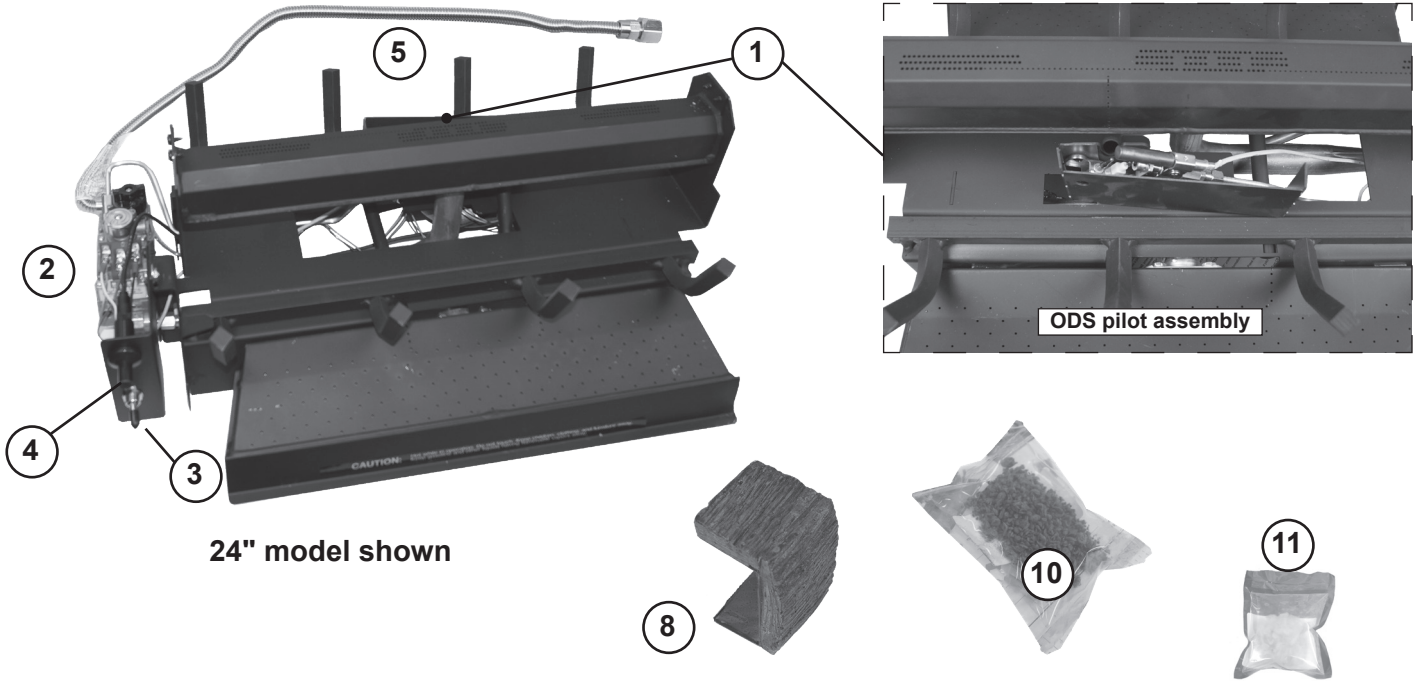
CLEANING AND SERVICING IMPORTANT INFORMATION

It is imperative that you maintain your unvented gas appliance by having it cleaned and serviced regularly. A qualified professional service technician shall inspect and service this unit at least annually. (Read and follow the CLEANING AND SERVICING sections for details.)

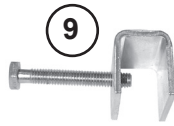
Failure to provide reasonable and necessary maintenance as outlined in the owner's manual will cause your appliance to malfunction and will void your warranty.

G18-2 BURNER REPLACEMENT PARTS LIST - 12 SERIES

Note: Photos not to scale



24" model shown



Replacement parts can be ordered from your local Real Fyre dealer.

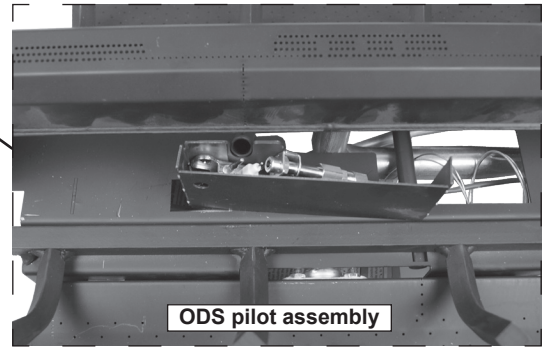
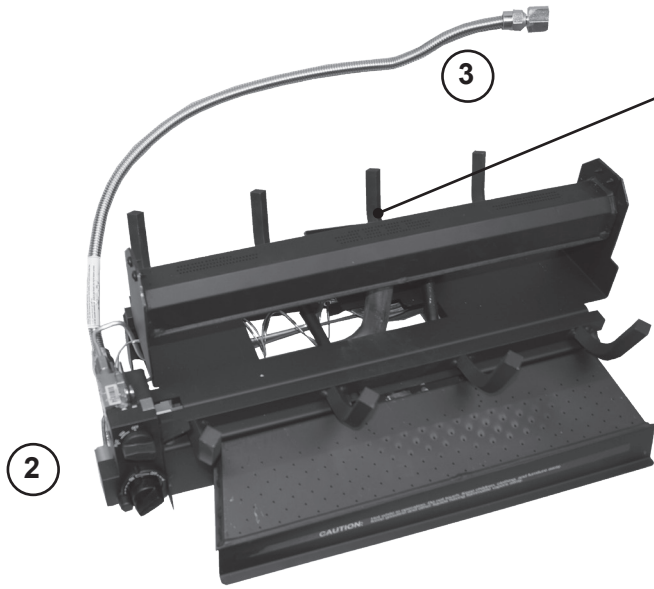
The log set is purchased and packaged separately; contact your local dealer when ordering. Refer to the instructions included with the log set.

Item	Description	16/18" model		24" model	
		Part No.	Qty.	Part No.	Qty.
1.	ODS pilot assembly (natural)	ODS-0003	1	ODS-0003	1
or	ODS pilot assembly (propane)	ODS-0004	1	ODS-0004	1
2.	Control valve (natural)	SV-8	1	SV-8	1
or	Control valve (propane)	SV-8P	1	SV-8P	1
3.	Toggle switch	SW-2	1	SW-2	1
4.	Piezo igniter	PZ-1	1	PZ-1	1
5.	Flex connector (w/ adapter), 3/8" O.D. X 30"	CK-10	1	CK-10	1
6.	Remote kit * (includes receiver, transmitter, batteries, plastic cover)	RR-1A	1	RR-1A	1
7.	Remote transmitter (only) *	AT-R1-1	1	AT-R1-1	1
8.	Decorative heat shield *	HS-36	1	HS-36	1
9.	Damper clamp	DC-1	1	DC-1	1
10.	Glowing embers	EM-5	2	EM-10	2
11.	Bryte coals	EMV-1	2	EMV-1	2
12.	Lava granules	LF-5	2	LF-5	2

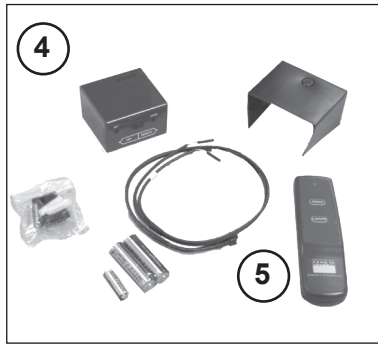
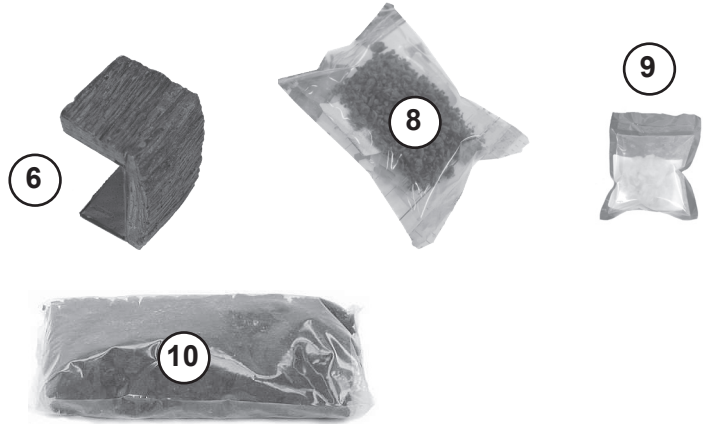
* If equipped

G18-2 BURNER REPLACEMENT PARTS LIST - 15 SERIES

Note: Photos not to scale



24" model shown



Replacement parts can be ordered from your local Real Fyre dealer.

The log set is purchased and packaged separately; contact your local dealer when ordering. Refer to the instructions included with the log set.

Item	Description	16/18" model		24" model	
		Part No.	Qty.	Part No.	Qty.
1.	ODS pilot assembly (natural)	ODS-0001	1	ODS-0001	1
or	ODS pilot assembly (propane)	ODS-0002	1	ODS-0002	1
2.	Control valve (natural)	SV-24	1	SV-24	1
or	Control valve (propane)	SV-25	1	SV-25	1
3.	Flex connector (w/ adapter), 3/8" O.D. X 30"	CK-10	1	CK-10	1
4.	Remote kit * (includes receiver, transmitter, batteries, plastic cover)	VR-1A	1	VR-1A	1
5.	Remote transmitter (only) *	AT-V1-1	1	AT-V1-1	1
6.	Decorative heat shield *	HS-36	1	HS-36	1
7.	Damper clamp	DC-1	1	DC-1	1
8.	Glowing embers	EM-5	2	EM-10	2
9.	Bryte coals	EMV-1	2	EMV-1	2
10.	Lava granules	LF-5	2	LF-5	2

* If equipped

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

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

This burner system may be installed as vented decorative appliance in compliance with ANSI Z21.60 and the National Fuel Gas Code. The minimum permanent free opening of the fireplace chimney or chimney damper must be met per Table 3-1 in the SPECIFICATIONS section. Chimney damper must be fixed in a manner that will maintain the minimum permanent vent opening at all times. See below.

DAMPER CLAMP INSTRUCTIONS (WHEN USE AS A VENTED DECORATIVE APPLIANCE)

If the burner system is installed as a vented decorative appliance:

The chimney damper **MUST** be fully open when burning the unit. The damper clamp with hex bolt is provided as a means to prevent full closure of the damper blade. It must be permanently installed.

Attach the damper clamp to the damper blade with pliers or a small adjustable wrench. See Fig. 15-1 through Fig. 15-3.

Note: Should the clamp not fit or fail to provide the permanent vent opening listed in the Table found in the SPECIFICATIONS section, have a permanent stop installed, remove the damper blade, or have the damper cut to provide the minimum permanent free opening required.

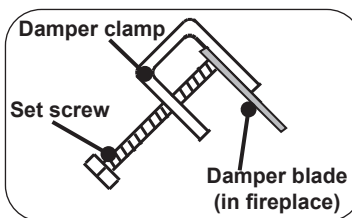


Fig. 15-1

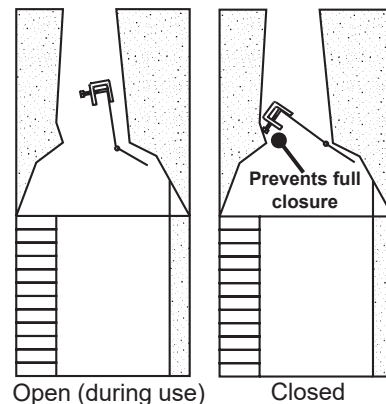


Fig. 15-2

Fig. 15-3

The damper clamp is not required if the burner system is installed as an unvented room heater.

INSTALLATION

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

IMPORTANT

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

Note: To install the unvented gas burner system, the fireplace must have a gas-supply line that has been installed by a qualified professional service technician in accordance with all local codes. Refer to the PARTS LIST when installing the burner system.

Tools Required:

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

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

WARNING

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

WARNING: Failure to position these 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.

INSTALLATION (cont.)

The Real Fyre burner system must be installed by a qualified professional service technician. Instructions must be followed carefully to ensure proper performance and full benefit from the burner system. **Fireplace floor must be level, clean, and smooth.**

REFER TO THE PARTS LIST WHEN FOLLOWING THESE INSTRUCTIONS.

24" burner model shown here.

INSTALL BURNER

1. MAKE SURE THE FIREPLACE GAS SUPPLY IS TURNED OFF.
2. Locate the gas-supply stub inside the fireplace and remove the cap, if attached (reference Fig. 16-1).

CAUTION: When removing the cap, make sure the stub does not turn, loosening the connection inside the wall.

3. Place the burner system in the fireplace. Center the burner in the fireplace. See Fig. 16-2.
4. **Be sure gas to the fireplace is off.** Remove the adapter connected to the flex connector (pre-installed on the burner system). Attach the adapter to the gas-supply stub using a pipe compound resistant to all gasses. Tighten securely. Then attach the open end of the flex connector to the adapter. Tighten securely. (See Fig. 16-1.)
5. **LEAK TEST:** Turn on the fireplace gas supply, and test at all connections for leaks using the appropriate soapy water solution. If bubbles appear, a leak is present. Turn off the gas and tighten at all connections. Repeat until no leaks are present. If a leak persists, turn off the gas supply and contact the local gas company or dealer. **NEVER USE A FLAME TO CHECK FOR LEAKS.**

INSTALL REMOTE (if equipped)

1. At this stage the remote system batteries are to be installed. Reference the INSTALL/REPLACE BATTERIES section for details.
2. Locate the wires coming off of the remote receiver, and connect them to the two male prongs found on the valve (see Fig. 16-3).
3. **Place the remote receiver at the front left corner of the fireplace.** Place as far from the burner system as possible. See Fig. 16-4.
4. Place the plastic cover over the remote receiver with the open side facing forward to allow access to the receiver controls. Then place the decorative heat shield. See Fig. 16-4.

CAUTION: THE REMOTE RECEIVER AND DECORATIVE HEAT SHIELD WILL BE HOT DURING AND AFTER OPERATION.

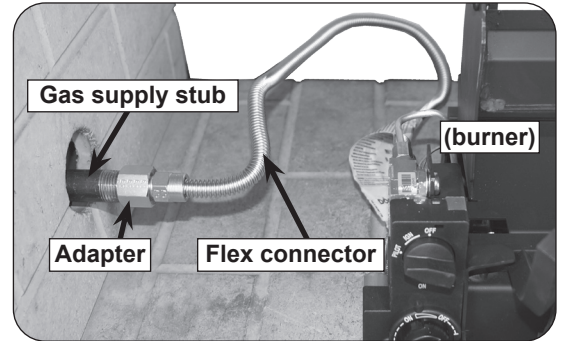


Fig. 16-1 Connect gas supply

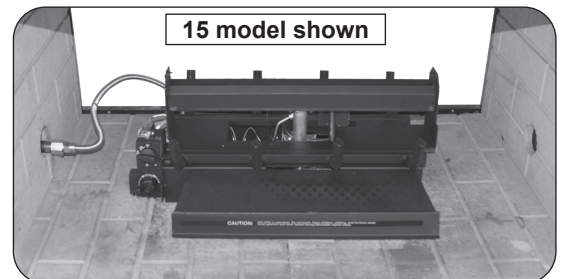


Fig. 16-2 Center burner in fireplace

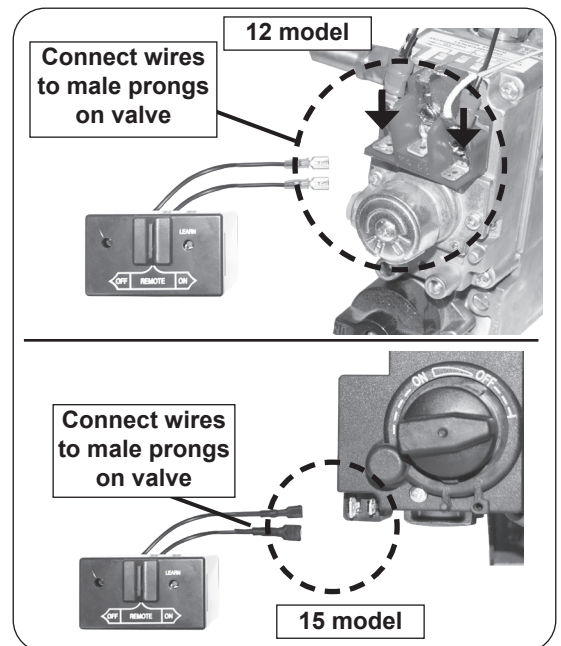


Fig. 16-3 Connect remote receiver to valve

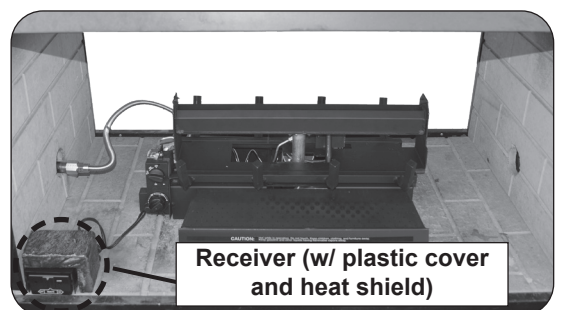


Fig. 16-4 Place remote receiver

CONTROL SETTINGS

It is recommended that before you install the decorative media, you familiarize yourself with the control valve layout. This will assist you when operating the burner system. See Fig. 17-1 through 17-2 for the control positions of your specific model.

LIGHTING TEST

Prior to proceeding with installation, perform a lighting test (see lighting instructions for lighting your burner). **Allow the unit to completely cool after testing.**

IMPORTANT

For all valves, the air **MUST** be purged from the gas line before the pilot will light and burn properly. The time needed to purge will depend on the length of the gas line to the unit and the amount of time since the unit or gas line was last used. It may take several minutes before all the air is purged and the pilot will light and burn properly. Reference the LIGHTING INSTRUCTIONS section in this manual.

GAS PRESSURE

At this stage, the gas pressure is to be checked. Reference the CHECK GAS PRESSURE section for details.

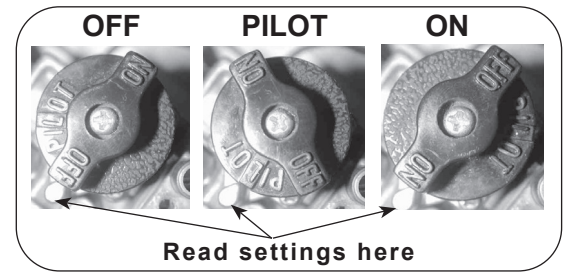


Fig. 17-1 12 valve operating positions

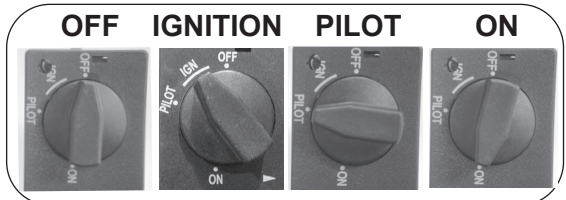


Fig. 17-2 15 valve operating positions

PLACE DECORATIVE WOOD CHIPS (supplied with log set)

Place the decorative wood chips in front of the burner. Ensure the charred ends face inward. For the wood chip in front of the valve, ensure at least 1" between it and the valve (see Fig. 18-1). Repeat for the opposite side.

CAUTION: Ensure the wood chips by the valve are placed at least 1" away from the valve to avoid overheating and damage to the valve. If this minimum requirement of 1" clearance is not possible, DO NOT use the wood chip.

CAUTION: THE WOOD CHIPS WILL BE HOT DURING AND AFTER OPERATION.

LAVA GRANULES (DECORATIVE)

1. Spread the supplied lava granules on the floor of the fireplace; around all sides of the burner system (see Fig. 18-2). The lava granules may be placed around the remote receiver (as applicable). Leave the front of the receiver clear for control access.

Note: DO NOT place any lava granules on the burner system.

GLOWING EMBERS AND BRYTE COALS PLACEMENT

1. Place the glowing embers evenly over the entire surface of the ember burner as shown in Fig. 18-3. **Break up any clumps that may have developed during shipment. Store unused embers for later use/replacement.**
2. Separate the bryte coals into small pieces, and evenly place them over the glowing embers as shown in Fig. 18-4.
3. Repeat these steps for the opposite side.

CAUTION: It is imperative that all the ports are covered with embers.

DO NOT add any additional embers or bryte coals to this log set. Any additional embers or bryte coals may cause unsafe operation.

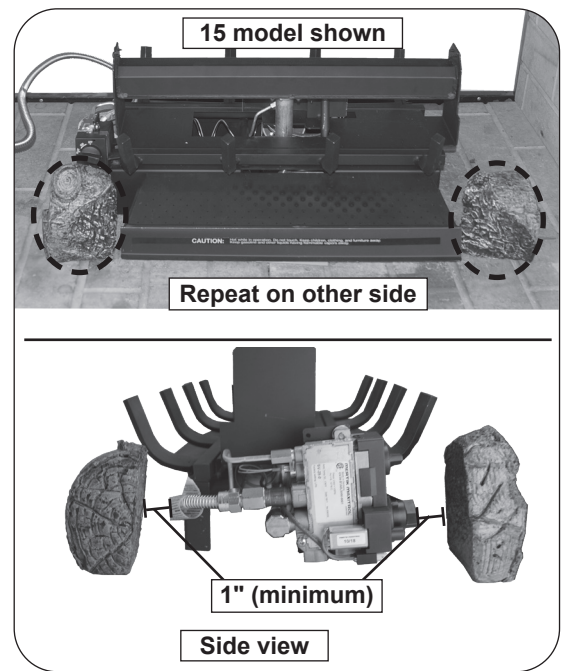


Fig. 18-1 Place wood chips



Fig. 18-2 Place lava granules

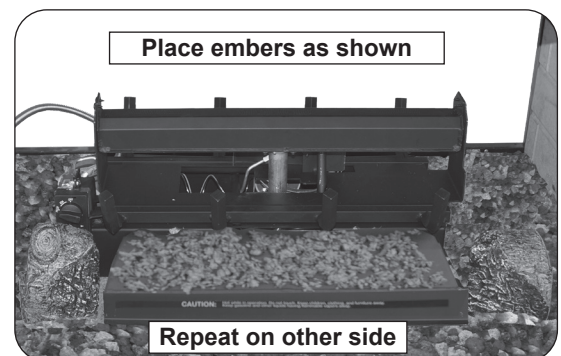


Fig. 18-3 Place glowing embers



Fig. 18-4 Place bryte coals

LOG SET PLACEMENT

- Follow the instructions included with the log set for step by step log placement.
- Read all safety warnings and important information in the instructions supplied with the log set to ensure proper placement.
- **DO NOT** add any additional embers to this setup. Any additional embers will cause unsafe operation.
- Periodically check the positioning of the logs to ensure proper log placement.



Evening Fyre (EFV-2-24) shown

FOLLOW THE INSTRUCTIONS INCLUDED WITH YOUR SPECIFIC LOG SET TO COMPLETE LOG PLACEMENT.

After setting the logs into position, ensure each is properly and firmly seated. The vent-free 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 the logs. Periodically check the positioning of all logs to ensure proper log placement and stability. If any flame is striking the logs, recheck log placement. Adjust to conform with instructions. **There should be no flame impingement on the logs.**

Important: Adequate spacing between the logs is **NECESSARY** and **MUST** be maintained. If carbon build up (sooting) exists, correct log placement before sooting becomes worse. **If any sooting occurs outside of the firebox (i.e. on the walls), turn off unit immediately and contact a qualified professional service technician.**

CAUTION: **BURN HAZARD!** Logs will remain hot for some time after use. 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.

INSTALL/REPLACE BATTERIES (IF APPLICABLE)

CAUTION: Ensure the unit is connected to the gas line and has been tested for leaks before you insert batteries.

CAUTION: Turn off the remote and/or burner and allow the unit to completely cool prior to any battery replacements.

Important: Prior to inserting batteries, always apply a small amount of dielectric grease to both ends of each battery. This will ensure conductivity and prevent moisture from affecting the contact.

Important: **Low/dead batteries will affect burner system operation. Replace batteries any time the burner will not turn on.**

REMOTE TRANSMITTER BATTERY (if equipped)

The remote transmitter requires one 12V battery to operate (included). Locate the transmitter, remove the lid (found on rear), and properly insert the new battery as marked. Re-secure the lid. See Fig. 20-1.

REMOTE RECEIVER BATTERIES (if equipped)

The remote receiver requires 4 AA batteries to operate (included). Locate the remote receiver and turn it over. Slide open the lid, and properly insert the new batteries as marked. See Fig. 20-2.

Replace the lid, then re-position the remote receiver in the fireplace. (Ensure the plastic cover is properly in place over the receiver.)

Important: Be sure to replace the decorative heat shield over the receiver after battery replacement.



Fig. 20-1 Transmitter battery

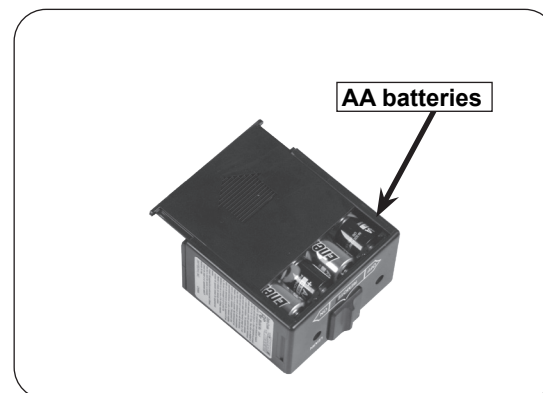


Fig. 20-2 Remote receiver batteries

CHECK GAS PRESSURE

IMPORTANT

Check the gas pressure with the system burning and the control fully **ON**.

The burner system 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 (3.5 kPa). The burner system 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 (3.5 kPa). This is accomplished by closing the gas-supply line valve.

12 VALVE

Check the valve regulator pressure at the pressure *inlet* point (see Fig. 21-1). Turn the inlet screw counterclockwise 2 or 3 turns and then place the tubing of the pressure gauge over the pressure *inlet* point. (The test "inlet" tap is marked **IN**.) After taking the pressure reading, turn the inlet screw clockwise firmly to reseal. Do not over-torque. Check for gas leaks.

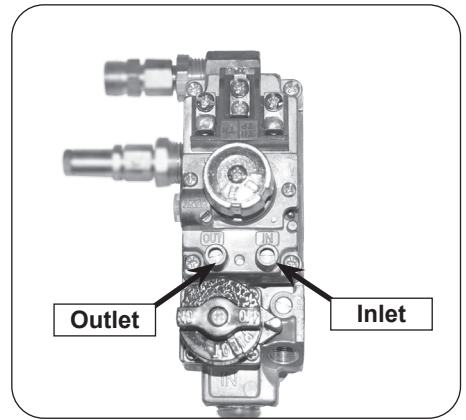


Fig. 21-1 12 valve: check pressure

15 VALVE

Check the valve regulator pressure at the pressure *inlet* point (see Fig. 21-2). Turn the inlet screw counterclockwise 2 or 3 turns and then place the tubing of the pressure gauge over the pressure *inlet* point. (The test "inlet" tap is farthest to the gas-supply inlet.) After taking the pressure reading, turn the inlet screw clockwise firmly to reseal. Do not over-torque. Check for gas leaks.

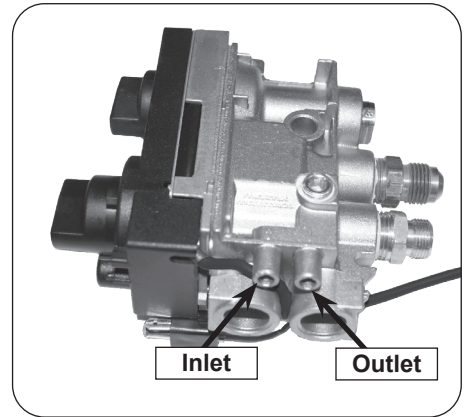


Fig. 21-2 15 valve: check pressure

GAS PRESSURE SPECIFICATIONS

NATURAL GAS		PROPANE GAS	
Outlet pressure reading: (Flame adjustment on high)	3.5" w.c.	Outlet pressure reading: (Flame adjustment on high)	10" w.c.
Inlet pressure reading	Max. 10.5" w.c. Min. 5" w.c.	Inlet pressure reading	Max. 13" w.c. Min. 11" w.c.

LIGHTING INSTRUCTIONS - 12 SERIES

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 an ODS pilot that can be lit using the built-in piezo igniter, or by hand using a long fireplace match or lighter. 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 professional service technician. Force or attempted repair may result in fire or explosion.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified professional service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

LIGHTING THE PILOT

1. STOP! Read the safety information above.
2. Locate the valve on the unit. Push in the gas control knob slightly and turn clockwise  to **OFF** (Fig. 22-1).


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

Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above. If you do not smell gas, go to the next step.



3. Locate the pilot assembly toward the center of the unit, near the main burner (see Fig. 22-3).
 4. Turn the control knob counterclockwise  to **PILOT**. Push the knob **firmly and fully** in and hold. Push the piezo igniter button several times until the pilot lights. Continue to hold the knob in for about one (1) minute after the pilot is lit. Release the knob and it will pop back out. The pilot will remain lit. See Fig. 22-1 and 22-3. If it goes out, repeat steps 2-4. Alternatively, a long-stem match/ long-necked butane lighter can be held near the thermocouple to light the pilot.
- If the knob does not pop up when released, stop, turn off the gas supply, and call your service technician or gas supplier.

- If the pilot will not stay lit after several tries, see SHUTTING DOWN section and contact a qualified professional service technician.

LIGHTING THE BURNER


1. Ensure the pilot is burning. Turn the control knob counterclockwise  to **ON** (see Fig. 22-1).
2. Flip the toggle switch to **ON** to ignite the burner (see Fig. 22-2). The valve will open and the burner will light.

ADJUSTING THE FLAME HEIGHT

Turn the flame adjustment knob counterclockwise  toward **LO** to decrease the flame height. Turn clockwise  toward **ON** to increase the flame height. See Fig. 22-3.

SHUTTING DOWN

To shut down the main burner (pilot will remain lit), flip the toggle switch to **OFF** (see Fig. 22-2).

To shut down the burner and pilot (total shutdown), flip the toggle switch to **OFF**, and push in the control knob slightly and turn clockwise  to **OFF** (see Fig. 22-1 & 2).

Note: Ensure the burner is completely off for one minute before relighting.

If a remote system is equipped, read and follow the separate remote instructions to operate the burner remotely.

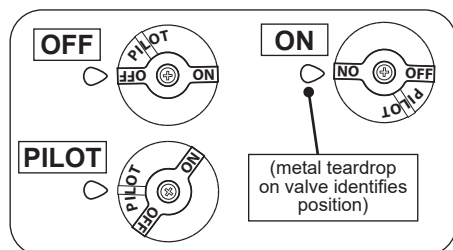


Fig. 22-1 Gas control knob

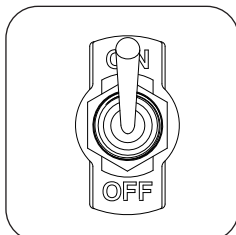


Fig. 22-2 Toggle switch

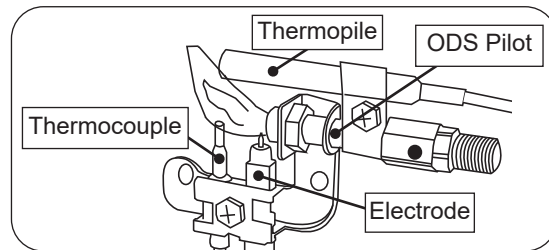


Fig. 22-3 ODS Pilot assembly detail

LIGHTING INSTRUCTIONS - 15 SERIES

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 an ODS pilot that can be lit using the built-in piezo igniter, or by hand using a long fireplace match or lighter. 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. If a burnback occurs, immediately turn off the unit, shut off the gas valve and wait five (5) minutes before restarting the burner. If a burnback re-occurs, turn off the unit and call your service technician.
 - D. Do not use this appliance if any part has been under water. Immediately call a qualified professional service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

LIGHTING THE PILOT

1. STOP! Read the safety information above.
2. Locate the valve on the unit. Push in the ignition knob slightly and turn clockwise ↻ to **OFF** (see Fig. 23-1).

The ignition knob cannot be turned from **PILOT** to **OFF** unless the knob is pushed in slightly. Do not force.

Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above. If you do not smell gas, go to the next step.

3. Locate the pilot assembly toward the center of the unit, near the main burner (see Fig. 23-2).
4. Turn the ignition knob counterclockwise ↺ toward **IGN** until it stops. Push the knob **firmly and fully** in and hold for 5 seconds (only pilot gas will flow).
5. While still holding the knob in, turn the knob counterclockwise ↺ to **PILOT** until you hear a click (piezo igniter will activate and light pilot). Continue to hold the knob in for about one (1) minute after the pilot is lit. Release the knob and it will pop back out. The pilot will remain lit. See Fig. 23-1 and 23-2. If it goes out, repeat steps 2-5.

Alternatively, a long-stem match/ long-necked butane lighter can be held near the thermocouple to light the pilot.

- If the knob does not pop up when released, stop, turn off the gas supply, and call your service technician or gas supplier.

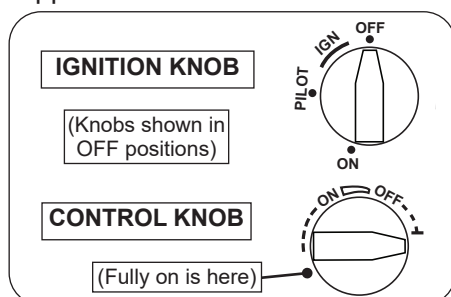


Fig. 23-1 Ignition and control knobs

- If the pilot will not stay lit after several tries, see SHUTTING DOWN section and contact a qualified professional service technician.

LIGHTING THE BURNER

1. Ensure the pilot is burning. Turn the ignition knob counterclockwise ↺ to **ON** (see Fig. 23-1).
2. Turn the control knob counterclockwise ↺ to the fully ON position to ignite the burner (see Fig. 23-1). The valve will open and the burner will light.

ADJUSTING THE FLAME HEIGHT

Turn the control knob counterclockwise ↺ toward **ON** to increase the flame height. Turn clockwise ↻ toward **OFF** to decrease the flame height.

Note: Turning the control knob to the fully OFF position will turn off the burner. The pilot will remain lit.

SHUTTING DOWN

To shut down the main burner (pilot will remain lit), turn the control knob clockwise ↻ to the fully OFF position (see Fig. 23-1).

To shut down the burner and pilot (total shutdown), turn the control knob clockwise ↻ to the fully OFF position, and push in the ignition knob slightly and turn clockwise ↻ to **OFF** (see Fig. 23-1).

Note: Ensure the burner is completely off for one minute before relighting.

If a remote system is equipped, read and follow the separate remote instructions to operate the burner remotely.

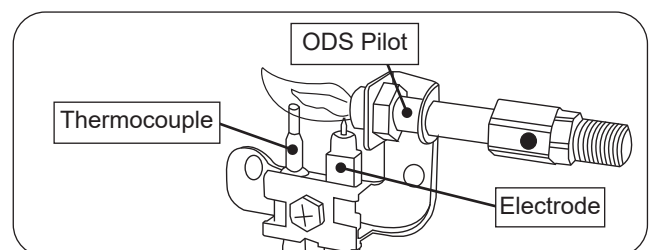


Fig. 23-2 ODS Pilot assembly detail

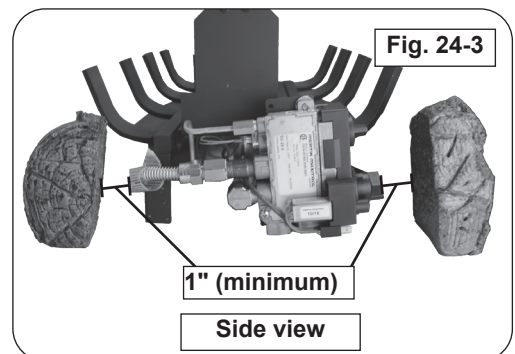
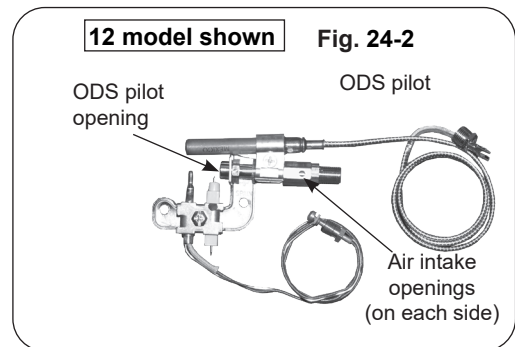
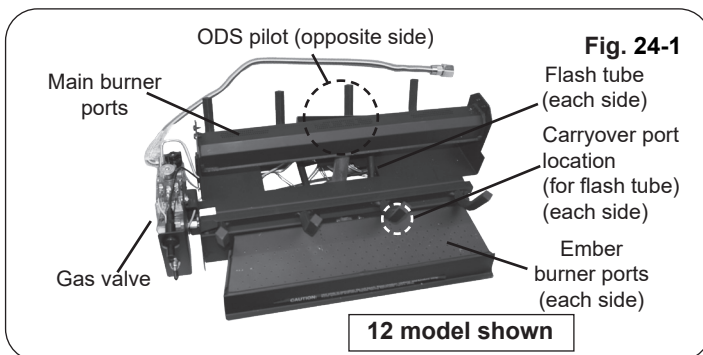
CLEANING AND SERVICING SAFETY INFORMATION

Note: Regular cleaning and servicing will be necessary to ensure proper ODS pilot operation and proper burn characteristics.

1. Always shut off the gas to the burner system while performing service work.
2. Allow the burner system to cool before servicing.
3. **Installation, service, and repair must be done by an NFI Certified or other qualified professional service technician. The appliance MUST be inspected before use, and cleaned at least annually (to prevent burner shutdown, sooting, odors, etc.) by a qualified professional service technician. It must be checked for clean burning operation and proper ODS pilot appearance, 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 imperative that all control components and compartments, burners, and circulating air passageways of the appliance 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:
 - a. The air intake openings on the ODS pilot assembly.
 - b. The ODS pilot opening.
 - c. The air shutters on both the bottom ember burner and the top main burner.
 - d. The flash tube and its corresponding carryover ports. Obstructions in or around the flash tube may result in the ember burner not lighting and/or an intermittent popping noise from the flash tube.

WARNING: Failure to keep the primary air openings of the burners clean may result in sooting and property damage.

- e. All of the ports on both the bottom ember burner and the top main burner. (See the CLEANING AND SERVICING section.)
4. When installed as a vented appliance, a periodic examination and cleaning of the venting system of the solid-fuel-burning fireplace should be conducted by a qualified professional service technician.
 5. **Any safety screen, guard, or barrier removed for servicing an appliance must be replaced prior to operating the burner system.**
 6. **Do not use ammonia based or chlorinated cleaners when cleaning the log set.**
 7. Ensure the wood chips by the valve are placed at least 1" away from the valve to avoid overheating and damage to the valve (see Fig. 24-3).



CLEANING AND SERVICING

Only limited cleaning will be required under normal use of the burner system.

TO CLEAN THE BURNER SYSTEM

1. Remove the log set and embers. Use a vacuum cleaner to remove loose particles from all surfaces of the system. Do not use cleaning fluids.
2. Dust the assembly and the burners. Using a compressed air duster (commonly available at computer, electronic, or office supply stores) blow through the flash tube, carry over ports, and all of the burner ports. See the burner figure on the previous page for locations.
3. Reinstall the embers and log set.

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

Do not remove the rating plates or the warning tags. These are an integral safety and identification component of this appliance.

During periods of heavy use, inspect the burner system frequently for evidence of sooting. If sooting is present, discontinue use until the source of sooting is corrected.

CLEANING AND SERVICING THE ODS PILOT

Periodic cleaning and maintenance of the burner system is recommended to ensure that the burner system 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 professional service technician familiar with the specific characteristics of the burner system.

1. Turn the burner system to the **OFF** position and allow it to cool. Inspect the ODS pilot area (see Fig. 25-1) 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 the air intake openings (see Fig. 25-1) 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 page. Periodically verify the ODS pilot flame appears as shown in the CHECKING THE ODS PILOT FLAME APPEARANCE section.
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, insert the flexible nozzle through the air intake openings, ensuring that the nozzle is pointed toward the ODS pilot opening (see Fig. 25-1). Blow air through the 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 burner system.** Using an adjustable or a 1/4" wrench, disconnect the ODS pilot gas line (see Fig. 25-1) from the valve.
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 LIGHTING INSTRUCTIONS).
9. If the ODS pilot still does not operate properly, the ODS pilot may need to be replaced with the same model as the one on the burner system.

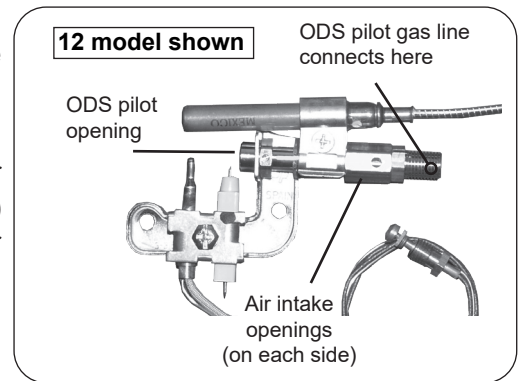


Fig. 25-1

SYNCING THE REMOTE SYSTEM

12 models (if equipped)

Ensure the burner system is off and completely cool.

Locate the 3-position switch on the remote receiver and slide it to the **REMOTE** position. Use the tip of a pen or a wire clip to push the **LEARN** button and release. See Fig. 26-1. A beep will be heard. Then press and hold the **ON** button on the remote transmitter; a series of beeps should be heard. The remote system is now synced. Light burner to test.

15 models (if equipped)

Ensure the burner system is off and completely cool.

Locate the 3-position switch on the remote receiver and slide it to the **REMOTE** position. Use the tip of a pen or a wire clip to push the **LEARN** button and release. See Fig. 26-1. A beep will be heard.

Then press and hold the **ON/HI** button on the remote transmitter; a series of beeps should be heard. The remote system is now synced. Light burner to test.

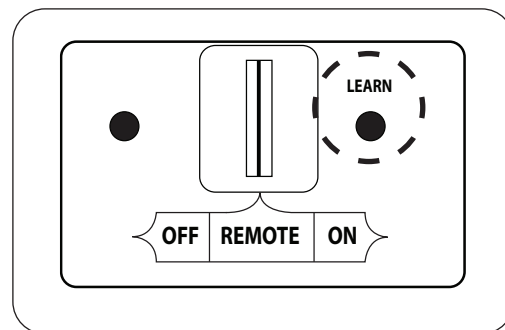


Fig. 26-1 Remote receiver sync detail

OPERATING THE BURNER SYSTEM

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 front logs. The ember flames should be a 1/4" above the embers. See Fig. 26-2.

Every Real Fyre burner system 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 this appliance presents its own unique combustion environment. Specific factors such as weather-tightness of the home, size of the room in which the burner system is installed, central heating, ceiling fans, altitude, drafts, pet hair, carpet lint, dryer lint, the size of the fireplace, paint or soot inside the fireplace, etc. all have an influence on the proper operation of this appliance and its ODS pilot system. A normally operating burner system will demonstrate the following characteristics:

- A lively, realistic flame. The flame will be blue/yellow.
- 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 burner system fueled by household propane gas, operating characteristics may vary as the fuel in the tank approaches empty. Sooting and other increases in combustion by-products will occur. Turn off the burner system and refill the propane tank.



Fig. 26-2

CHECKING THE ODS PILOT FLAME APPEARANCE

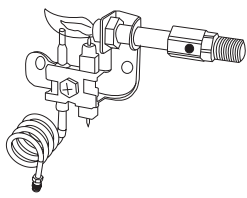
WARNING: NO ADJUSTMENTS ARE TO BE MADE TO THE ODS PILOT SYSTEM. TAMPERING WITH THIS SYSTEM CAN BE EXTREMELY HAZARDOUS.

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

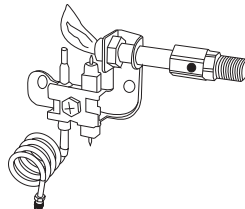
1. The ODS pilot flame must be present when the burner is operating. The flame should touch the top of the thermocouple tip (Fig. 27-1 or Fig. 27-3).
2. If the ODS pilot flame does not touch the top of the thermocouple tip, then the main burner will not function properly (see Fig. 27-2 or Fig. 27-4 for 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 burners for any blockages that could affect the operation of the ODS pilot flame.

ODS Pilot for 15 valve

(NG shown)



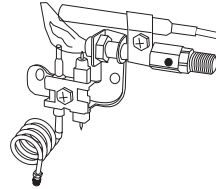
Correct ODS pilot flame
Fig. 27-1



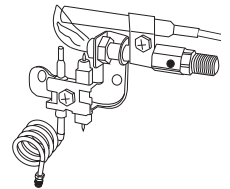
Incorrect ODS pilot flame
Fig. 27-2

ODS Pilot for 12 valve

(NG shown)



Correct ODS pilot flame
Fig. 27-3



Incorrect ODS pilot flame
Fig. 27-4

TROUBLESHOOTING

- ONLY A QUALIFIED PROFESSIONAL SERVICE PERSON SHOULD SERVICE AND REPAIR THIS APPLIANCE.
- TURN OFF UNIT AND ALLOW TO COOL BEFORE TROUBLESHOOTING

1) BURNER SHUTTING DOWN DURING OPERATION

POSSIBLE CAUSE	SOLUTIONS
A. Insufficient or excessive gas pressure	<p>A1. Check gas pressure (Read E.- G. of IMPORTANT PRE-INSTALLATION AND FIREPLACE SAFETY INFORMATION section, & <u>check with local gas company</u>).</p> <p>A2. Other gas appliances may be on the same gas line, dropping gas pressure to the burner system. Check pressures with everything operating to ensure adequate pressure.</p>
B. Foreign debris in or around the fireplace and around the air intakes of the ODS pilot	B. Dust, carpet fibers, paper, spider webs, pet hair, etc. in fireplace or on burner assembly can affect operation of burner and ODS pilot assembly. Clean out debris and vacuum around burner for accumulated dust. Vacuum or use compressed air to clean out the ODS pilot assembly area, air shutter hole, burner orifice(s), and ODS pilot air intake 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 x 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 and ventilation air must be made (see VENTILATION AND COMBINED SPACE SAFETY INFORMATION).
D. Flue area, fireplace, or damper dirty from soot	D. Clean around, above, and under damper thoroughly. Clean fireplace, removing loose material, including soot and creosote.
E. Fans, furnaces, air conditioning vents, returns, or fireplace outside air vents near or blowing into fireplace may create drafts, altering flame patterns	E. Eliminate drafts by closing heating and air conditioning vents, returns, and closing outside air vents. Fans blowing directly into the fireplace should be turned off when set is operating.
F. Blockages on burner	F. Vacuum any lava granules or material that may have fallen onto burner port area.
G. Fireplaces with high top cavities can accumulate by-products of combustion, which can start recirculating, causing shutdown	G. Open window or damper slightly. Move burner forward if possible, or otherwise increase ventilation.
H. Insufficient air circulation	H1. Check log placement, ember placement, bryte coals placement, and sizing of burner system (check your owner's manual for proper placement and requirements). Reposition burner closer to the front of fireplace. (Note: Do not place burner too close to combustibles.) (See INSTALLATION SAFETY GUIDELINES section.)
	H2. Check for sunken fireplace, excessive lava granules, or other accessories packed too tightly against burner or high bottom lip on glass door. Open window or damper slightly.
I. Fireplace too small for unit	I. Ensure minimum requirements are met (see SPECIFICATIONS section).
J. At high altitude, too much heat or moisture can cause ODS pilot to shut down system	J. Open a window or the damper slightly or otherwise increase the ventilation. Your set may not be certified for use over 2,000 feet. Check your owner's manual.
K. ODS pilot flame lifting off thermocouple/generator	K. Check gas pressure (see section A1).
L. Pilot (remote-capable)	L. Contact your dealer for instructions on replacement.
M. Log placement	M. Reference the LOG SET PLACEMENT section in this manual for recommended log positioning.

TROUBLESHOOTING (Cont.)

<u>POSSIBLE CAUSE</u>	<u>SOLUTIONS</u>
2) ODS PILOT WILL NOT LIGHT	
A. ODS pilot flame lifting off thermocouple/generator	A. Check gas pressure (see Section 1, A1 of this table).
B. Piezo spark not lighting ODS pilot	B. Check to make sure piezo is sparking when pressing / turning igniter. (Note: You may need to press / turn igniter several times to ignite ODS pilot.) See LIGHTING INSTRUCTIONS section.
C. Igniter electrode wire loose	C. Check wiring and reconnect any loose wiring
D. Igniter electrode positioned incorrectly	D. Contact your dealer for service
E. Gas supply off/manual shutoff valve closed	E. Turn on gas supply or open manual shutoff valve.
F. Air in gas line	F. Hold control knob to bleed the line and repeat LIGHTING INSTRUCTIONS until air is removed.
G. Pilot hood blocked	G. Check for debris or dirt / Clean pilot
H. Dead batteries (if applicable)	H. Replace batteries as needed.
3) HIGH CO - CARBON MONOXIDE DETECTORS IN HOME TURNING ALARM ON	
A. High CO levels	A. TURN OFF UNIT IMMEDIATELY. Call a qualified professional service technician or your gas supplier.
4) CONDENSATION	
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 (see Section 1, A1 of this table).
B. Household propane tank running low	B. Fill Tank completely.
C. Supply valve not fully open	C. Open supply valve fully.
D. Blockage or kink in flex connector kit, plumbing, or burner orifice	D. Clean out blockage. If flex connector is kinked, replace it.
E. Remote set on low flame (if option available)	E. Adjust flame with remote transmitter.
6) BURNER NOT BURNING EVENLY	
A. Burner ports clogged	A. Clean burner ports.
B. Top burner lights; bottom burner has delayed ignition or does not light	<p>B1. Check gas pressure. Can be caused by too small of a gas line (see Section 1, A1 of this table).</p> <p>B2. Low propane fuel gas level. Vacuum burner tube for soot blockage and fill propane tank.</p> <p>B3. Flash tube (if present) blocked. Clear blockage.</p>
7) ODORS	
A. New burner system (break-in period)	A. Burn unit for four to six hours with damper, doors, or windows open. Allow odors to dissipate.
B. Odors created by aerosol sprays, detergents, household chemicals, insecticides, new home, new carpet, or new paint	B. When these odors are drawn into the fireplace, this may cause objectionable odors. Thoroughly ventilate the area before restarting your burner system.
C. Gas leak	C. Shut off gas, if possible. Follow instructions on front page. Have a qualified professional service technician or the gas company correct all leaks.

TROUBLESHOOTING (Cont.)

POSSIBLE CAUSE	SOLUTIONS
8) SOOTING	
A. Low gas pressure	A. Check gas pressure (see Section 1, A1 of this table).
B. Drafts in room	B. Eliminate drafts by closing heating and air conditioning vents, returns, and outside air vents. Fans blowing directly into fireplace should be turned off when system is operating.
C. Air shutter(s) blocked	C. Burner air shutter(s) are blocked with debris. Vacuum debris in and around burner area.
D. Using a product other than Real Fyre gas logs with burner	D. Make sure only Real Fyre <u>vent-free</u> gas logs are used with your vent-free burner.
E. Using natural gas burner on propane gas or propane burner on natural gas	E. If gas listed on nameplate does not match gas you are burning, shut down burner system immediately. Call dealer.
F. Adding any accessories to burner system	F. Shut down burner system and take off any accessories that do not belong with the system.
G. Blocked orifice(s) or air shutter(s)	G. 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 vacuum around burner for dust that may have accumulated over time. Vacuum the ODS pilot assembly and over the air shutter holes. Any blockages in this area will affect the operation of the ODS sensor. Remove and clean venturi tube if applicable.
H. Improper media placement	H. See INSTALLATION section for proper media placement.
I. Log placement	I. Reference the LOG SET PLACEMENT section in this manual for recommended log positioning.
9) ODS PILOT WILL NOT STAY LIT	
A. Haven't pressed and held knob in long enough (if applicable)	A. Hold knob in for 1 minute and release. If the knob doesn't hold, contact your dealer for service (valve replace or new ODS).
B. Valve won't hold	B. Contact your dealer for instructions on replacement.
C. Pilot line bent / kinked at connection to valve	C. Replace pilot line.
D. Thermocouple is loose	D. Tighten thermocouple nut at gas control valve. (Do not over tighten.)
E. Thermocouple cracked or worn out	E. Replace thermocouple.
10) WHISTLING NOISE COMING FROM BURNER	
A. Burner may be cold or may have not been used for a prolonged period of time	A. Allow burner to warm up on low.
B. Air in gas line	B. Contact your gas company.
C. Clogged air openings	C. Clean all air openings.
11) BURNER WILL NOT TURN ON	
A. Low/dead batteries (if applicable)	A. Replace batteries as needed.
12) FLAME AT AIR MIX / ORIFICE (PROPANE MODELS)	
A. Burner ports clogged	A. Clean burner ports.
B. Gas pressure	B. Check gas pressure (see Section 1, A1 of this table).
13) POPPING NOISE COMING FROM BURNER	
A. Flash tube blocked	A. Clear flash tube of all obstructions, especially around the bottom.
<p>WARNING: If the gas quality is bad, the burners will produce soot and/or your pilot will not stay lit. Contact your gas company.</p>	

Please use this page to record any information that you may want to have at hand.

WARRANTY

PETERSON UNVENTED ROOM HEATER GAS APPLIANCE LIMITED WARRANTY

Robert H. Peterson Co. ("RHP") warrants your Real Fyre unvented room heater gas appliance to be free from defects in material and workmanship.

Peterson unvented refractory gas logs are warranted for **as long as the original purchaser owns them (lifetime) when used indoors and for THREE (3) YEARS when used outdoors.**

Peterson unvented fiber-ceramic blended gas logs are warranted for **FIVE (5) YEARS when used indoors and for THREE (3) YEARS when used outdoors.**

Peterson **indoor** unvented gas log burners and stainless steel burners (excluding controls) are warranted for **TEN (10) YEARS.**

Peterson **outdoor** unvented stainless steel burners (excluding controls) are warranted for **FIVE (5) YEARS.**

Peterson valves, pilots, and controls are warranted for **ONE (1) YEAR** (excluding batteries).

Peterson glass, gems, and nuggets are warranted for **TEN (10) YEARS.**

A COPY OF YOUR SALES SLIP FOR PROOF OF PURCHASE IS REQUIRED

This warranty applies to the original purchaser for products which are installed in the United States or Canada and which are operated and maintained as intended for single family residential usage. This warranty is valid only with proof of purchase, commences on the date of purchase, and terminates (both as to original and any replacement products) on the anniversary date of the original purchase of the product per the above schedules.

This warranty covers defects in material and workmanship. This warranty **does not** cover parts which become defective as a result of negligence, misuse, use not in compliance with the Installation and Owner's Manual, accidental damage, improper handling, improper storage, improper installation, **lack of required routine maintenance** (as specified in the Installation and Owner's Manual), electrical damage, local gas impurities or failure to protect against combustible materials. Product must be installed (and gas must be connected) as specified in the Installation and Owner's Manual by a **qualified professional installer**. This warranty **does not** apply to rust, corrosion, oxidation, or discoloration unless the affected part becomes inoperable. Peterson products including valves, pilots and controls, are designed and certified to be used as a system. Modifications to products which are not specifically authorized will void this warranty and could render the product to be unsafe. Burners, valves, parts, accessories, remotes, etc. used with this product must be Peterson products or this warranty is void.

Warranted items will be repaired or replaced at Peterson's sole discretion. This warranty **does not** cover labor or labor related charges, except as provided by separate specific written programs from the Peterson Co. All repair work must be performed by a qualified professional service person and requires prior approval of Peterson.

Peterson may require the defective product or part to be returned to the factory to determine the cause of failure. Peterson will pay freight charges if the product or part is determined to be defective. This warranty does not cover breakage in shipment from our independent distributor to its customer if the damage is determined to have occurred during that shipment.

This warranty specifically excludes liability for **indirect, incidental, or consequential** damages. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you. This warranty gives you specified legal rights, and you may have other rights that vary from state to state or province.

For additional information regarding this warranty, or to place a warranty claim, contact the R.H. Peterson dealer where the product was purchased.

When contacting your Peterson dealer or the R.H. Peterson Co., please provide the following information:

- Your name, address, telephone number, e-mail
- Sales receipt showing where purchased and date purchased
- Model number, serial number of product, date code
- Relevant information: installer, additions, repairs, when defect was first noted

**TO REGISTER YOUR PRODUCT ONLINE GO TO: WWW.RHPETERSON.COM,
AND CLICK ON PRODUCT REGISTRATION. THANK YOU FOR YOUR PURCHASE.**

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 BE IN COMPLIANCE WITH 527 CMR AND 248 CMR: BOARD
OF STATE EXAMINERS OF PLUMBERS AND GAS FITTERS.**

**This unvented 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), 15(P), or
01V(P) are designed to be used with an external wall switch or an external remote wall thermostatic control system.**

Quality Check

Date: _____

Burner Orifices	Nat.	L.P.	Leak Test:	_____	Model#:	_____
Main:	_____	_____	Burn Test:	_____	Serial#:	_____
Other:	_____	_____	Gas Type:	<u>Nat. / L.P.</u>	Air Shutter:	_____
					Inspector:	_____