



Burner Systems:

- G23-18-12(M)(P)
- G23-24-12(M)(P)
- G23-18-01V(P)
- G23-24-01V(P)

(Fyre Spheres purchased separately)



DESIGN CERTIFIED
to standards:

- Unvented Room Heater
ANSI Z21.11.2
and
Vented Decorative Appliance
ANSI Z21.60

FOR INDOOR USE ONLY

G23 UNVENTED BURNER SYSTEMS

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 13, 26-28 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 with the *National Fuel Gas Code*, ANSI Z223.1/NFPA 54, or the *CSA B149.1, Natural Gas And Propane Installation Code*.



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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.

The G23 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.

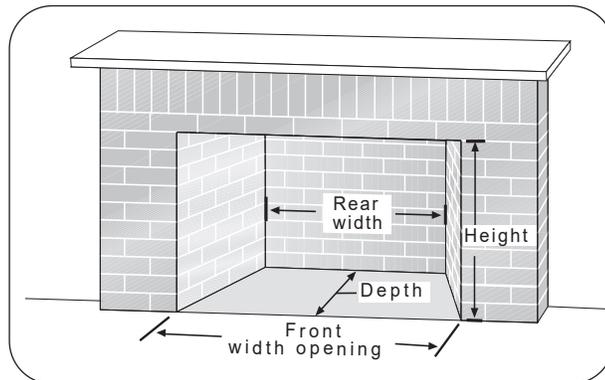


Fig. 3-1 Fireplace Dimensions

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	
	Front	Rear*			Low setting †	High Setting	Low setting †	High Setting
G23-18	24"	20"	15"	17"	22k	28k	22K	28K
G23-24	30"	22"	15"	17"	28k	37k	24K	37K

* based on minimum depth

† Low Setting is only available on 01V 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 operation and servicing. It may be necessary to disconnect the unit for some types of service.

Minimum Permanent Chimney Vent Opening in sq. in. (when used as a vented appliance)		
	Factory built fireplaces*	
Chimney Height	18"	24"
15'	13	15
20'	11	13
25'	10	11
30'	9	10

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

Table 3-1 Minimum permanent free opening

Specification	Value	Qty.
Remote receiver battery type	AA battery	4
Remote transmitter battery type	12V battery	1
01V Models remote transmitter battery type	9V battery	1

Table 3-2 Technical Data (if applicable)

SPECIFICATIONS AND REQUIREMENTS (cont.)

Only the Real Fyre decorative media options listed below are approved for use with this product. Follow the recommendations for media amounts. This burner system includes black glass media to be placed on the fireplace floor surrounding the burner system. Fyre sphere decorative media options are purchased separately; contact your local Real Fyre dealer when ordering.

Glass media (included):

Model Size	Correct Amount of Glass
18"	10 lbs
24"	15 lbs

Table 4-1 - Black Glass Amounts

Fyre spheres (not included):

Model Size	Fyre Spheres			Correct Amount of Fyre Spheres
	Carrera marble model #	Epic Black model #	Gray Stone model #	4" spheres
18"	US4-18-CM	US4-18-EB	US4-18-GS	16
24"	US4-24-CM	US4-24-EB	US4-24-GS	22

Table 4-2 - Fyre Sphere Amounts

See Fyre SPHERE PLACEMENT and GLASS MEDIA PLACEMENT sections for more details

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/NCSCS 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 INSTALLATION MUST CONFORM TO ALL LOCAL CODES AND TO THE LATEST EDITION OF THE NATIONAL FUEL GAS CODE ANSI Z223.1/NFPA54.**
- I. **PETERSON (REAL FYRE) DECORATIVE MEDIA IS THE ONLY MEDIA CERTIFIED TO BE USED IN THIS BURNER. DO NOT USE ANY OTHER MEDIA.**

▲ 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. 6-1).

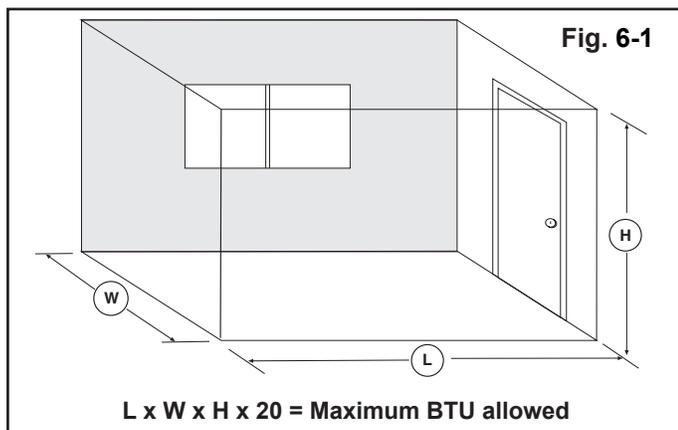
To determine if the area where this burner system is to be installed fits the definition of an unconfined space, multiply the length of the room by the width of the room by the height of the room, then multiply by 20. The result is the maximum BTU allowed.

(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. 6-1).



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. 7-1).

Ceiling: 42" from top of fireplace opening (Fig. 7-1).

Flooring: See IN FRONT OF FIREPLACE section below.

Mantel: See ABOVE THE FIREPLACE section below & Fig. 7-1. (Also see Fig. 8-1, & 8-2 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. 8-1 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. 8-2 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:

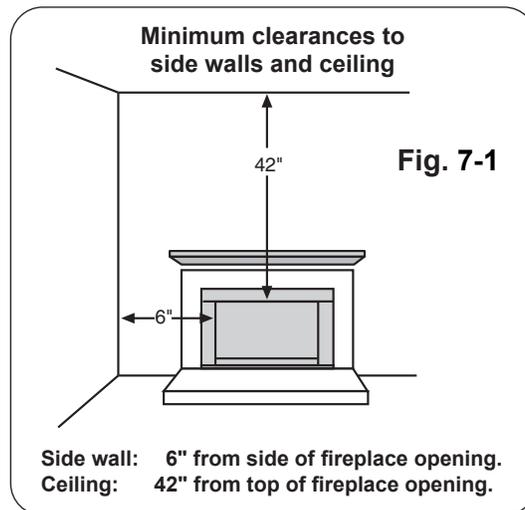
1. If a fireplace hood is not installed - **2.5"** (see Fig. 8-1 on the following page).
2. If a fireplace hood is installed ----- **10"** (see Fig. 8-2 on the following page).

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.

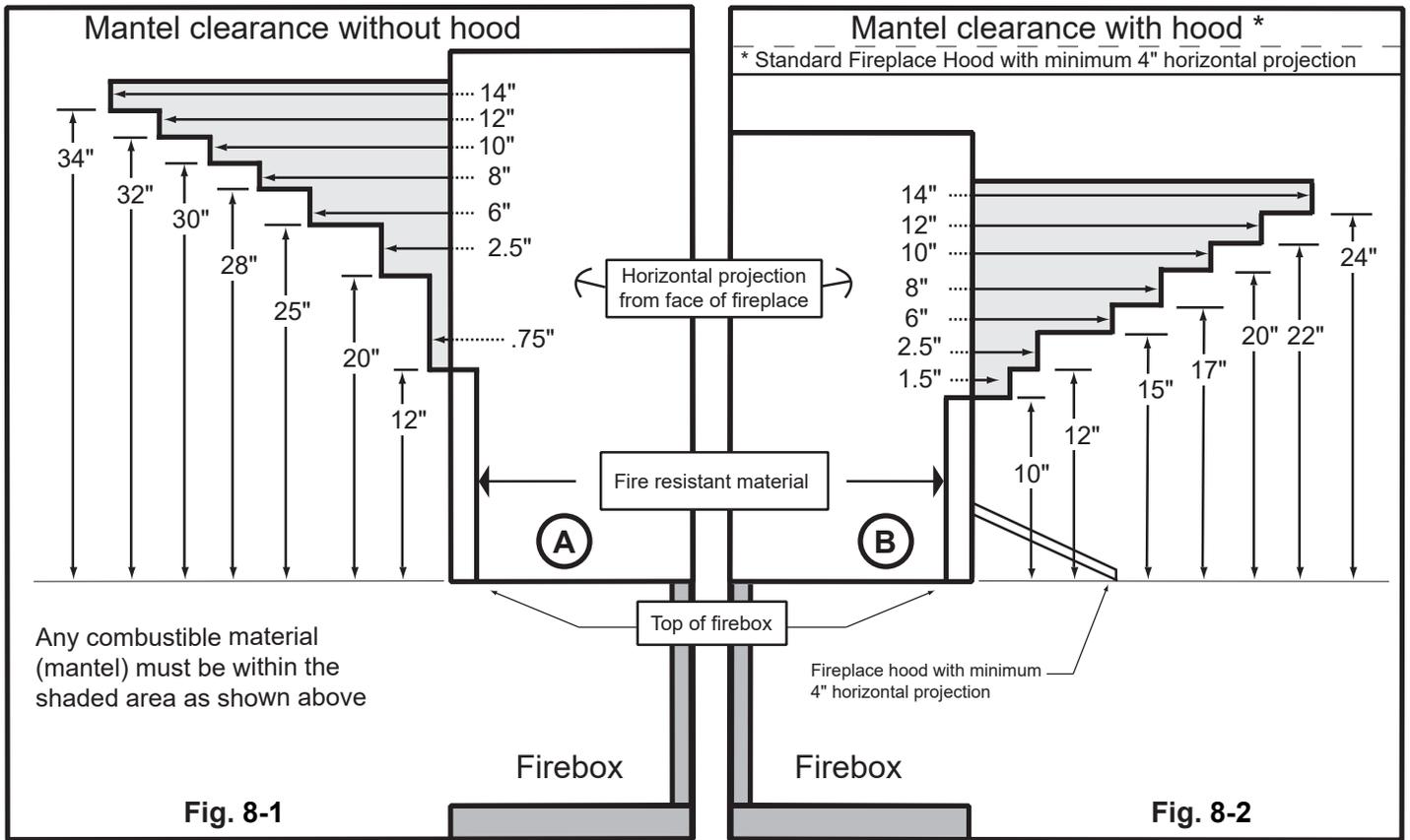
Because of these variables, we cannot guarantee that heat warping or discoloration will never occur. The potential for heat warping or discoloration may exist no matter what item(s) you are burning in the fireplace, including wood.



The dimensions in Fig. 7-1 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. A shut-off valve (not included) in the gas supply line is required.** It must be installed upstream of the unit and must be easily accessible. The shut-off valve cannot be located in the fireplace firebox. Refer to the NFPA 54 guidelines for further details.
- C.** A sediment trap in the gas supply line is recommended where applicable. It should be installed downstream of the shut-off valve as close to the unit as possible. Refer to the NFPA 54 guidelines for further details.
- D. 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.
- E.** This appliance is only for use with the type of gas indicated on the rating plate. This appliance is **NOT CONVERTIBLE** for use with other gases.
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.
- F.** 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.
- 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 **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.**
- 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. 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.
- 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.
- 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 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).
- O.** 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).
- P.** 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 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 placement and installation of the decorative media and burner assembly are imperative to safe operation of your appliance. Problems **WILL** occur if not all items are properly installed. Reference the INSTALLATION section.
- 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. The correct amount of decorative media **must** be used on your burner system for it to operate properly. Please read the entirety of FYRE SPHERE PLACEMENT and GLASS MEDIA PLACEMENT sections for details.
- E. DO NOT PLACE other accessories, such as logs, wood chips, pine cones, or lava granules on this appliance. These items will cause improper burning, sooting, and/or high levels of carbon monoxide. Additional 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.

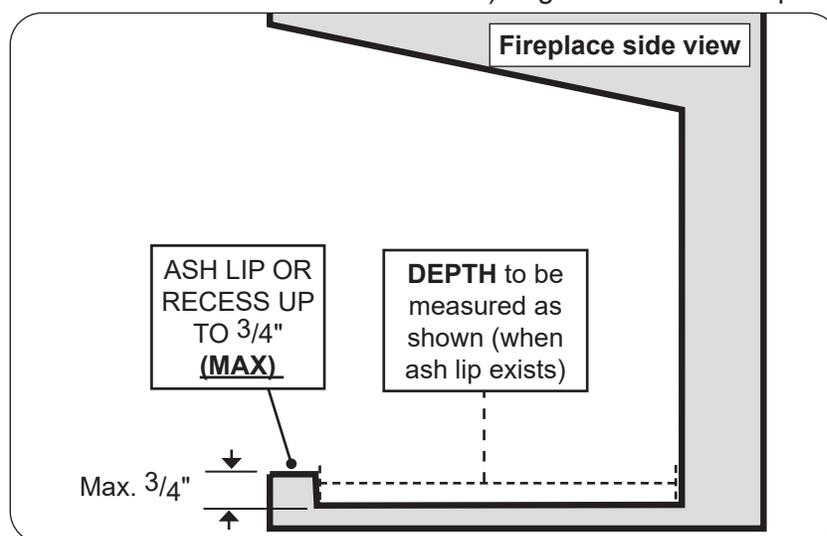


Fig. 10-1 Ash lip/recess detail

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. 11-1.

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. 11-1.

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

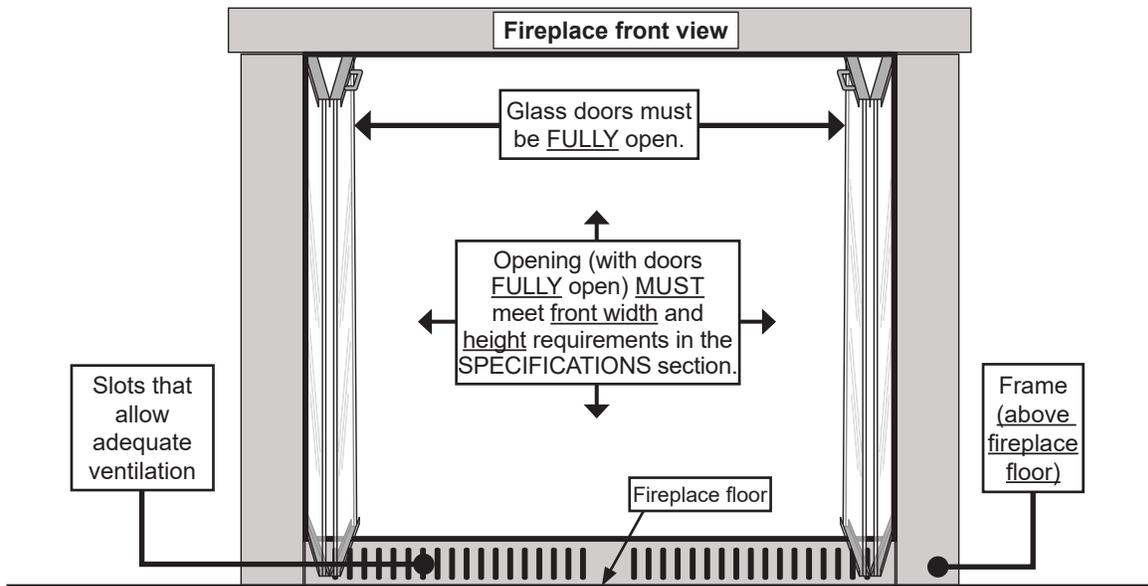


Fig. 11-1 Correct glass-doors frame setup, ventilation, and use (if applicable)

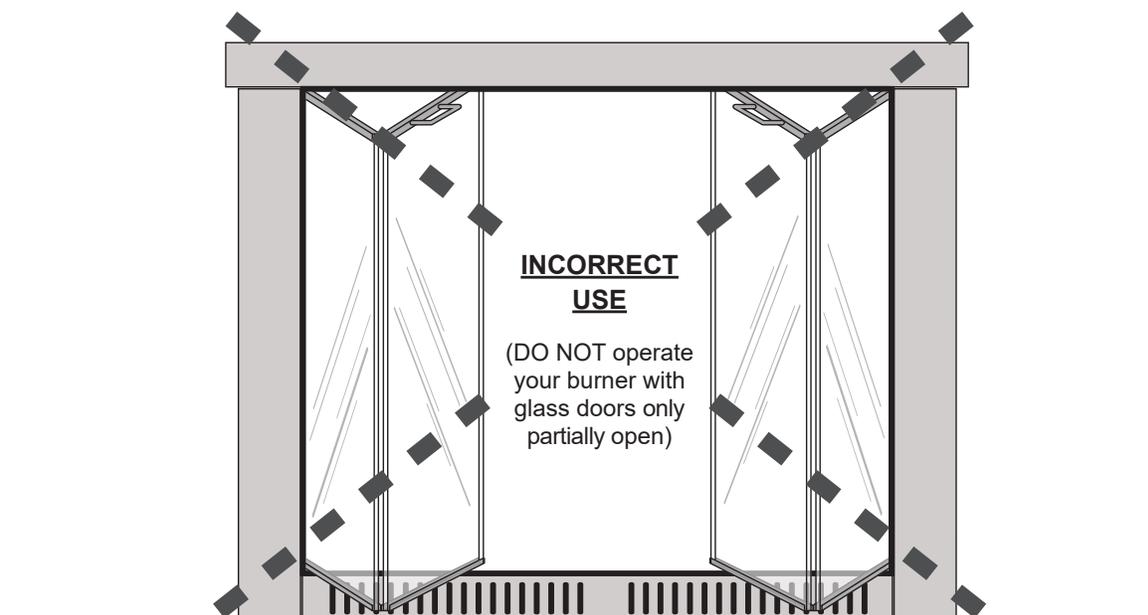


Fig. 11-2 Incorrect glass-doors frame setup, ventilation, and use (if applicable)

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 an odor and slight smoke** 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 frye spheres, 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.**

OPERATIONAL SAFETY INFORMATION (Cont.)

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 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.

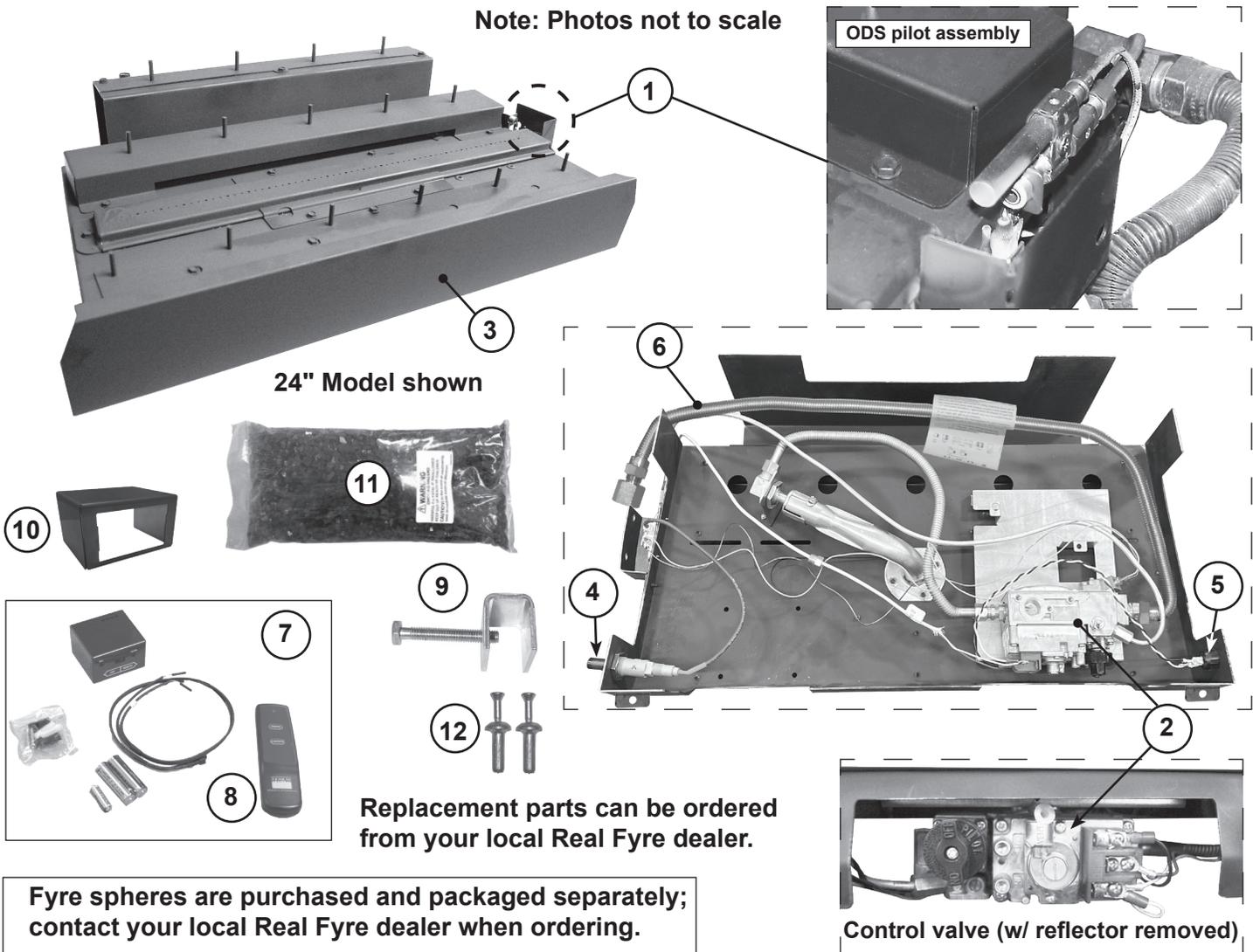
CLEANING AND SERVICING IMPORTANT INFORMATION

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.

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.

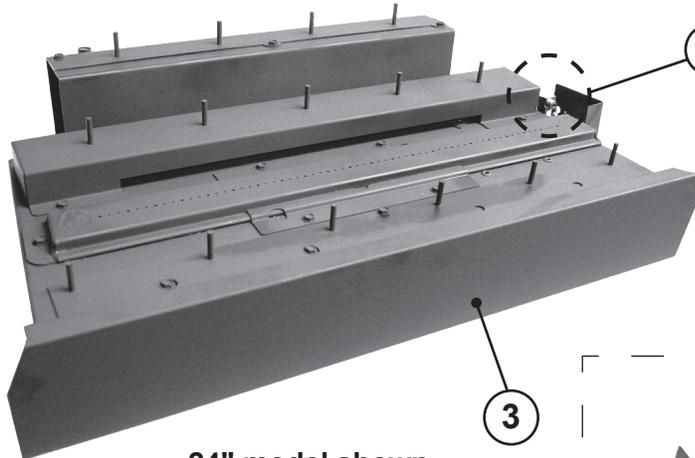
Fyre spheres are purchased and packaged separately; contact your local Real Fyre dealer when ordering.

Control valve (w/ reflector removed)

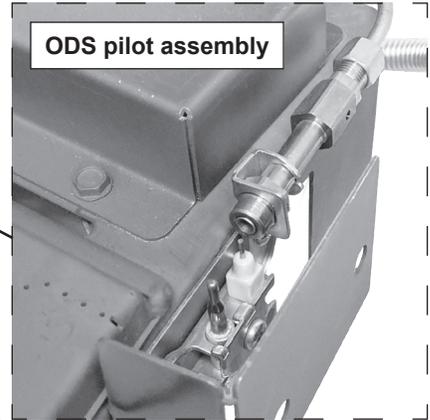
Item	Description	18" model		24" model	
		Part No.	Qty.	Part No.	Qty.
1.	ODS pilot assembly (natural) or ODS pilot assembly (propane)	ODS-0003 ODS-0004	1 1	ODS-0003 ODS-0004	1 1
2.	Control valve (natural) or Control valve (propane)	SV-43 SV-43P	1 1	SV-43 SV-43P	1 1
3.	Front cover (removable, shown installed)	G23-01-18	1	G23-01-24	1
4.	Piezo igniter	PZ-1	1	PZ-1	1
5.	On/Off switch	SW-9	1	SW-9	1
6.	Flex connector (w/ adapter), 3/8" O.D. X 30"	CK-10	1	CK-10	1
7.	Remote kit (includes receiver, transmitter, batteries)	RR-1A	1	RR-1A	1
8.	Remote transmitter (only)	AT-R1-1	1	AT-R1-1	1
9.	Damper clamp	DC-1	1	DC-1	1
10.	Heat shield	HS-47-B	1	HS-47-B	1
11.	Glass Media	GL-10-B	1	GL-15-B	1
12.	Hammer screws (pair)	G21-05	1	G21-05	1

BURNER REPLACEMENT PARTS LIST - 01V SERIES

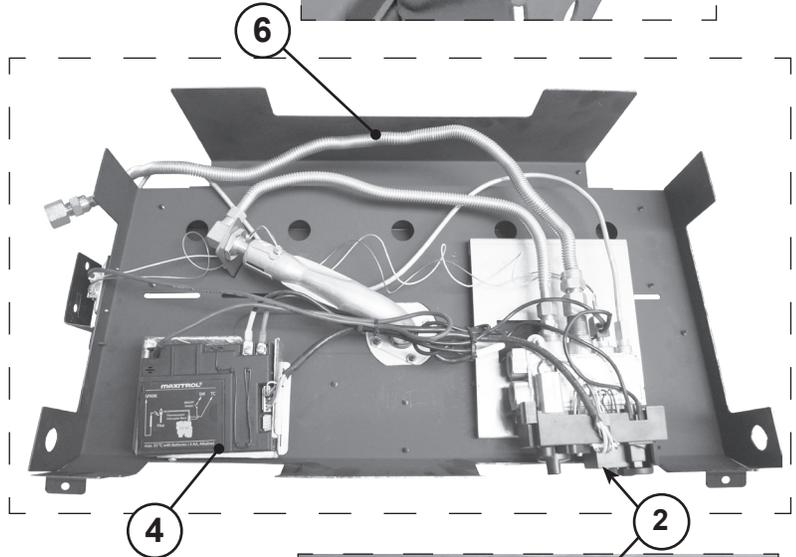
Note: Photos not to scale



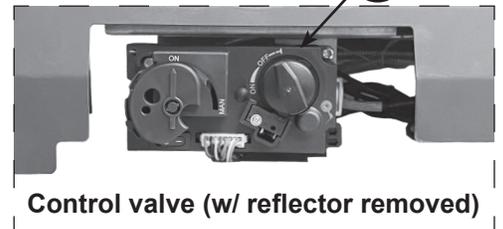
24" model shown



ODS pilot assembly



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



Control valve (w/ reflector removed)

Fyre spheres are purchased and packaged separately; contact your local Real Fyre dealer when ordering.

Item	Description	18" model		24" model	
		Part No.	Qty.	Part No.	Qty.
1.	ODS pilot assembly (natural) or ODS pilot assembly (propane)	ODS-0001 ODS-0002	1 1	ODS-0001 ODS-0002	1 1
2.	Control valve (natural) or Control valve (propane)	SV-42 SV-41	1 1	SV-42 SV-41	1 1
3.	Front cover (removable, shown installed)	G23-01-18	1	G23-01-24	1
4.	Control module and receiver	AR-01V-2	1	AR-01V-2	1
5.	Remote transmitter	AT-01V-2	1	AT-01V-2	1
6.	Flex connector (w/ adapter), 3/8" O.D. X 30"	CK-10	1	CK-10	1
7.	Damper clamp	DC-1	1	DC-1	1
8.	Glass Media	GL-10-B	1	GL-15-B	1
9.	Hammer screws (pair)	G21-05	1	G21-05	1

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. 16-1 through Fig. 16-3.

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.

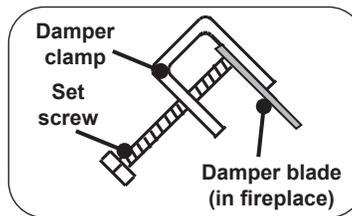
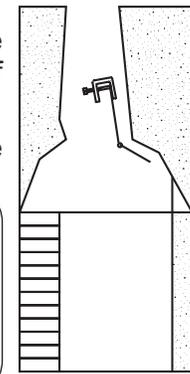
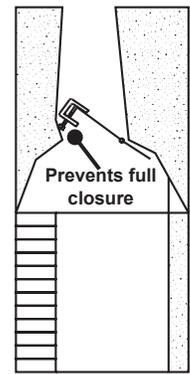


Fig. 16-1



Open (during use)

Fig. 16-2



Closed

Fig. 16-3

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 unvented burner system 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 BURNER 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. 17-1).

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 from left to right in the fireplace. See Fig. 17-2.
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. 17-1.)
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.

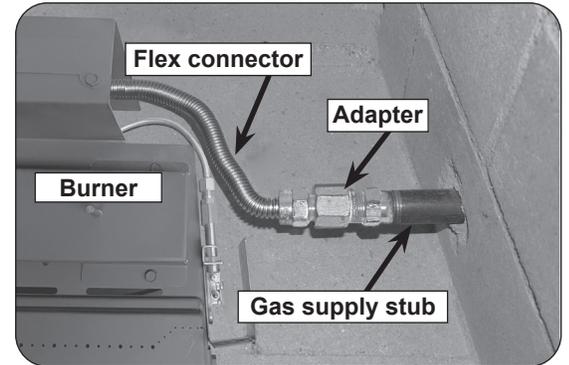


Fig. 17-1 Connect gas supply

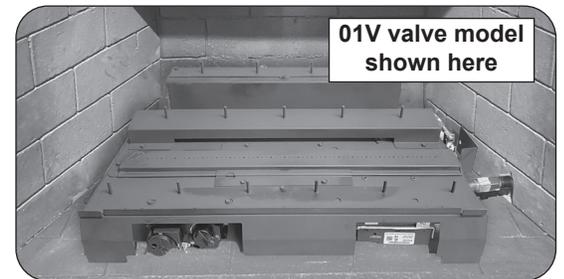


Fig. 17-2 Center burner in fireplace

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. 18-1). 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.

01V VALVE

Check the valve regulator pressure at the pressure *inlet* point (see Fig. 18-2). 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.

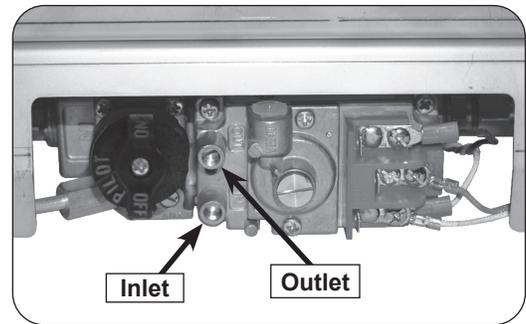


Fig. 18-1 12 valve: check pressure

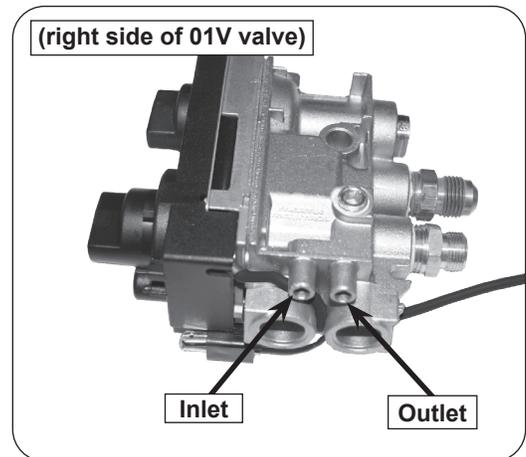


Fig. 18-2 01V valve: check pressure

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.

INSTALL REMOTE RECEIVER BATTERIES

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.**

12 models

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. 19-1.

Replace the lid.

01V models

1. Locate the receiver positioned in the bottom front of the burner assembly. Remove the screw shown in Fig. 19-2 and carefully pull out the receiver. Be careful when handling to not damage/disconnect wiring.
2. The control module requires 4 AA batteries to operate (included). Locate the control module connected to the burner valve. Slide open the lid, and properly insert the new batteries as marked. See Fig. 19-2
3. Replace the lid, then reinstall the receiver back to the front of the burner assembly.

REMOTE TRANSMITTER BATTERIES

The remote transmitter equipped with your unit comes pre-synced to your burner system. In the event that your remote needs to be re-synced, see the SYNCING THE REMOTE SYSTEM section found under the CLEANING AND SERVICING section in this manual.

12 models

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. 19-3.

01V models

The remote transmitter requires one 9V 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. 19-3.

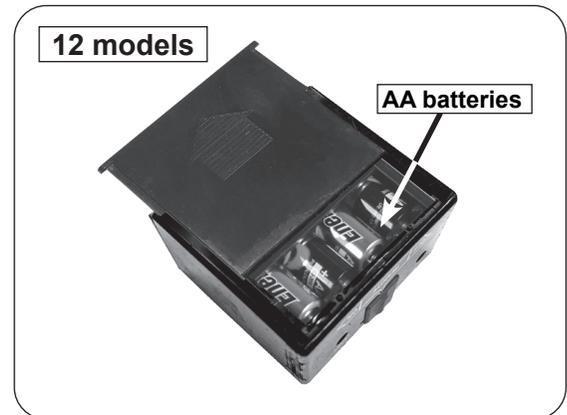


Fig. 19-1 Remote receiver batteries - 12 models

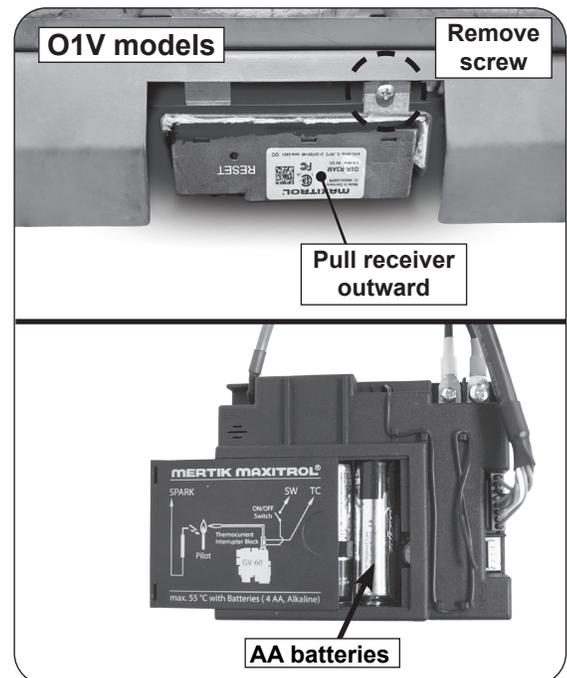


Fig. 19-2 Remote receiver batteries - 01V models

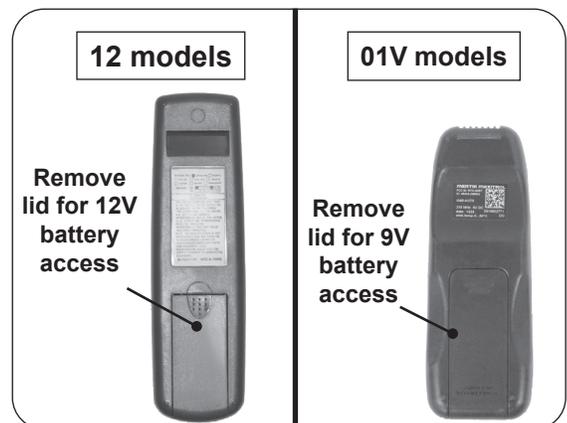


Fig. 19-3 Transmitter battery

INSTALL REMOTE RECEIVER (12 models only)

1. Install the included metal heatshield over the remote receiver as shown in Fig. 20-1. The front cutout has small tabs that snap into the front portion of the receiver.
2. Locate the wires coming off of the remote receiver, and connect them to the two male prongs found behind the ON/OFF switch that is located on the left side of the burner assembly. (see Fig. 20-2).
3. Route the wires out of the left side of the burner, then place the remote receiver at the front left corner of the fireplace. Place as far from the burner system as possible. See Fig. 20-3.

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

SECURE BURNER TO FLOOR

1. The burner system must be secured to the fireplace floor. The unit has two anchoring tabs located at the bottom front. With the unit centered, mark and then drill two 1/4" pilot holes.
2. Reposition the burner over the pilot holes and insert the provided hammer screws. Carefully hammer the screws in as shown in Fig. 20-4.
3. Use a power drill to complete the fastening of the screws (Fig. 20-5).

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

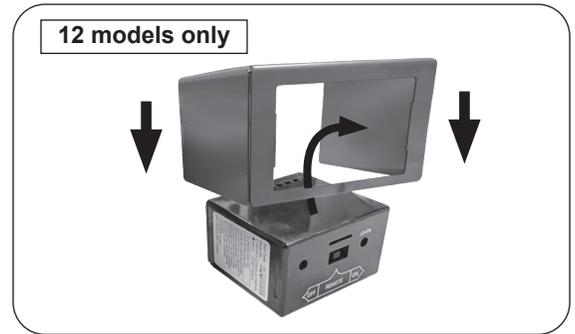


Fig. 20-1 Install heat shield

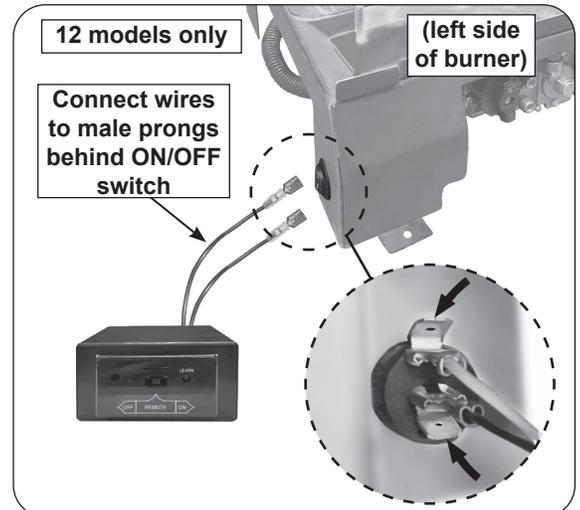


Fig. 20-2 Connect remote receiver

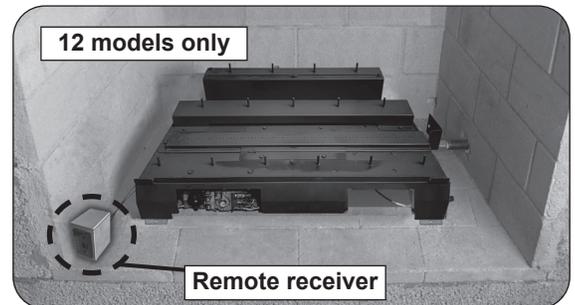


Fig. 20-3 Place remote receiver



Fig. 20-4 Install hammer screws



Fig. 20-5 Fasten hammer screws

INSTALLATION (cont.)

CONTROL SETTINGS

It is recommended that before you install the fire spheres, to familiarize yourself with the control valve layout. This will assist you when operating the burner system. See Fig. 21-1 and Fig. 21-2 for the control positions specific to your model.

LIGHTING TEST

Prior to proceeding with installation, perform a lighting test (see lighting instructions for lighting your burner). **Allow 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.

Turn off the gas supply prior to proceeding.

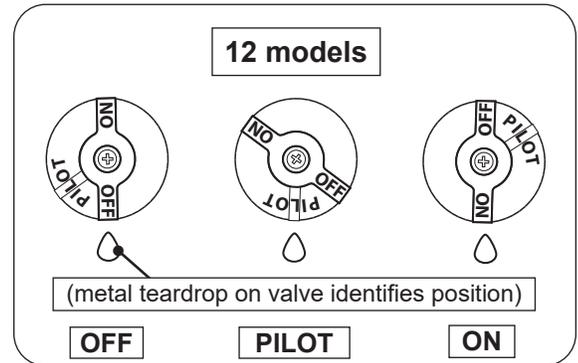


Fig. 21-1 12 model operating positions

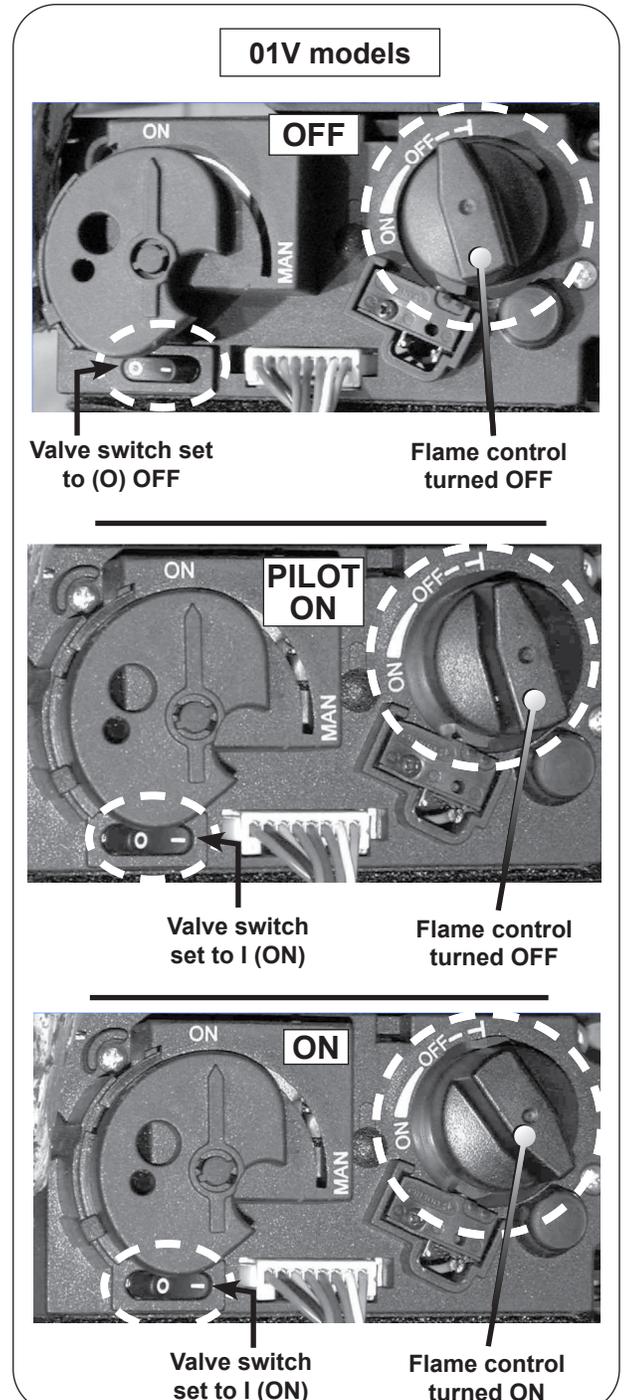


Fig. 21-2 01V valve operating positions

FYRE SPHERE PLACEMENT

You must position and maintain the fyre spheres as shown here to ensure optimal operation of the burner system. See Table 4-2 for sphere model numbers. See below for sphere placement. Carrera marble fyre spheres are shown below. The spheres have a hole underneath that align over the pegs located on the burner assembly (see Fig. 22-1). **Do not add any additional spheres to this burner system. Any additional spheres will cause unsafe operation. Locate the section applicable to your model.**

CAUTION: BURN HAZARD! Spheres will remain hot for some time after use. If you need to reposition any media to maintain the proper layout, use heat-resistant gloves or allow media adequate time to cool before handling.

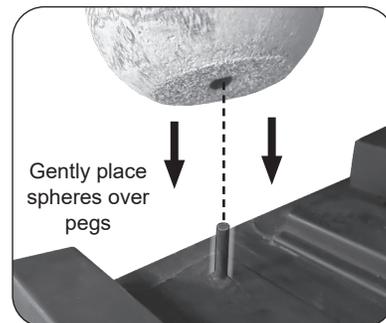
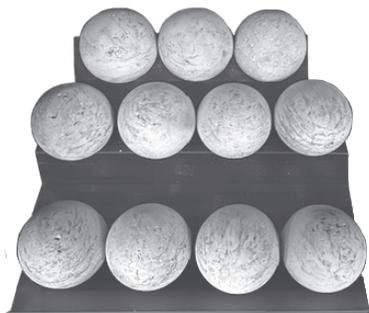


Fig. 22-1 Align spheres over pegs

18" MODELS

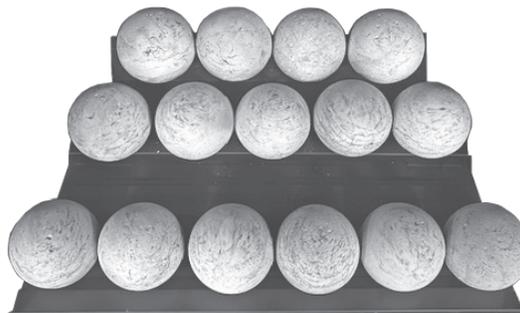
(top view)



4" Spheres per row	
3	4
4	5
4	6

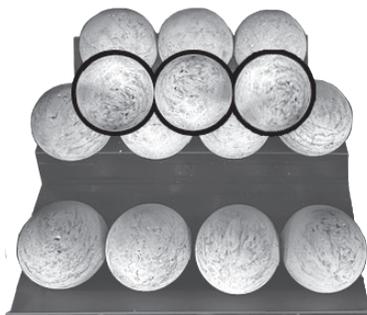
24" MODELS

(top view)



Place the base level of the spheres over the pegs found on the burner pan as shown above.

- Be sure to place the amount of spheres in each row as indicated. Amount will vary based on model. See chart and images above.
- Be sure that the spheres are properly secured over the pegs on the burner assembly.



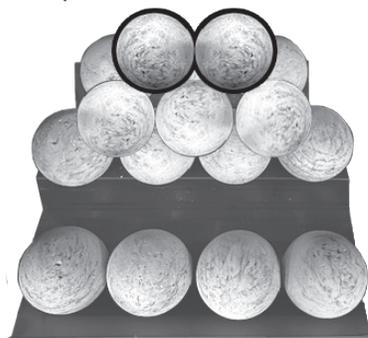
4" Spheres per row	
3	4



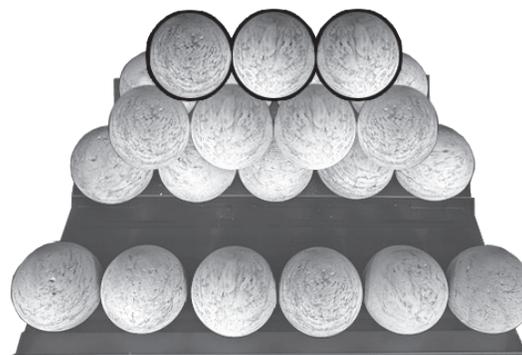
Place the top level of the spheres as shown above. Then the remaining top level of spheres as shown below.

WARNING: Top level fyre spheres are not secured to burner and rest directly on the spheres underneath. Take extra caution when placing spheres on top of other spheres.

- Be sure to place the amount of spheres in each row as indicated. Amount will vary based on model. See chart and images above and below.
- Be sure that the spheres are evenly spread out on the spheres as shown. This may result in small gaps in between the spheres.



4" Spheres per row	
2	3



Complete Fyre Sphere Setup

INSTALLATION (cont.)

INSTALL FRONT COVER

Install the front cover onto the front of the burner system (see Fig. 23-1).

GLASS MEDIA PLACEMENT

CAUTION: Glass pieces may have sharp edges. Be careful handling the glass. Use hand protection, such as gloves, if necessary.

Place and spread the included glass media on the floor of the fireplace, around the front and sides of the burner system, as an enhancement to the burner system. See Fig. 23-2. The media may be placed around the remote receiver (as applicable). Leave the front of the receiver clear for control access.

Note: Ensure glass media does not exceed the height of 1" from the fireplace floor. **DO NOT** overfill.

Note: **DO NOT** place any of this additional media on the burner system, or behind it.

Important: **DO NOT** block the burner ports of the burner system with decorative media (see Fig. 23-3).

Important: Do not add any additional media to this burner system. Any additional media may cause unsafe operation.

WARNING: All previously applied loose material must be removed prior to reapplication. All replacement loose material must be purchased from the R.H. Peterson Co.



Fig. 23-1 Front cover installed

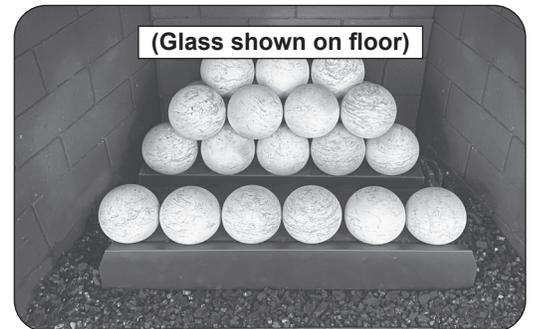


Fig. 23-2 Decorative media floor placement

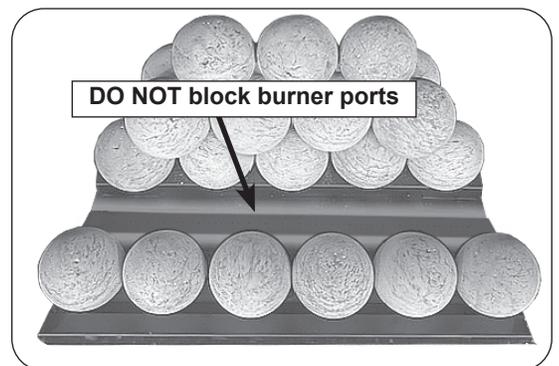


Fig. 23-3 Keep burner ports clear

CAUTION: **BURN HAZARD!** Glass media will remain hot for some time after use. You must maintain the placement as shown to ensure proper operation of the burner system. If you need to reposition any media to maintain the proper layout, use heat-resistant gloves or allow media adequate time to cool before handling.

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.
Be cautious around all hot surfaces.

- 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. 24-1).

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 on the burner system (see Fig. 24-3).
 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. 24-1 and 24-3. 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. 24-1).
2. Press the on/off switch to the **ON (I)** position to ignite the burner (see Fig. 24-2). The valve will open and the burner will light.

SHUTTING DOWN

To shut down the main burner (pilot will remain lit), press the on/off switch to **OFF (O)** (see Fig. 24-2).

To shut down the burner and pilot (total shutdown), press the on/off switch to **OFF (O)**, and push in the control knob slightly and turn clockwise  to **OFF** (see Fig. 24-1 & 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.

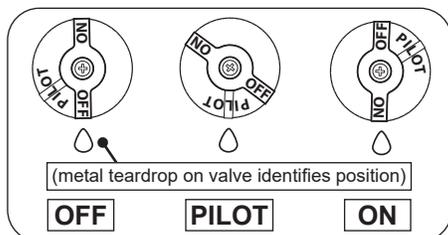


Fig. 24-1 Gas control knob

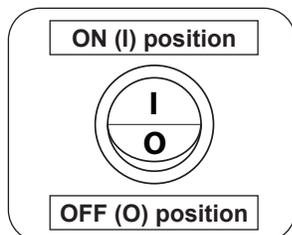


Fig. 24-2 On/Off switch

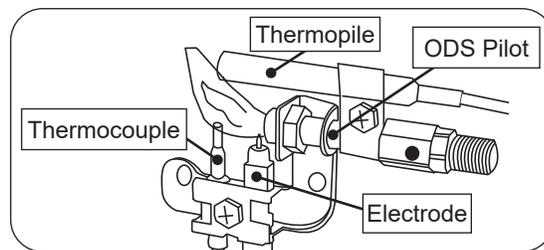


Fig. 24-3 ODS Pilot assembly detail

LIGHTING INSTRUCTIONS - 01V 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.
Be cautious around all hot surfaces.

- A. This appliance has an ODS pilot that can be lit using the ignition device, 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

Note: This section addresses manual lighting. For automatic pilot lighting and remote operation, refer to the remote-system instruction manual supplied with your unit.

1. STOP! Read the safety information above.
2. Locate the valve on the unit. Turn the control knob clockwise ↻ to **OFF**, the manual knob clockwise ↻ to **MAN**, and place the ON/OFF switch in the **OFF (O)** position (Fig. 25-1).

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. Place the ON/OFF switch in the **ON (I)** position.
4. Locate the pilot assembly toward the center of the unit, near the main burner (see Fig. 25-2).
5. Push the manual pilot valve operator **firmly and fully** in and hold. Hold a long-stem match/ long-necked butane lighter near the thermocouple to light the pilot. Continue to hold the knob in for about one (1) minute after the pilot is lit. Release the manual pilot valve operator. The pilot will remain lit. See Fig. 25-1 and 25-2. If it goes out, repeat steps 2-5.

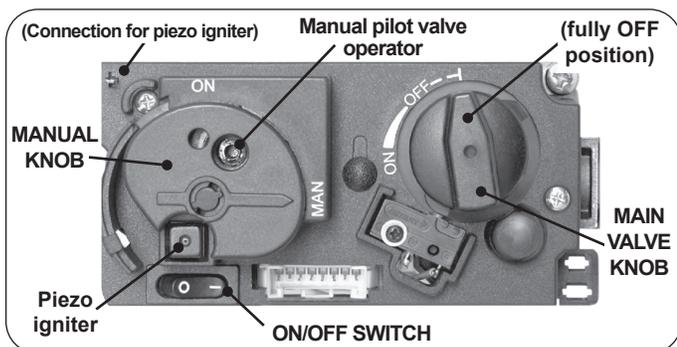


Fig. 25-1 Combination control

Alternatively, the pilot can be lit using the piezo igniter. The ignition cable would need to be rewired to the valve. Refer to the remote system instruction for details.

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 manual knob counterclockwise ↺ to **ON**. Turn the control knob counterclockwise ↺ to **ON**. See Fig. 25-1. 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. 25-1).

To shut down the burner and pilot (total shutdown), turn the control knob clockwise ↻ to the **fully OFF** position, and place the ON/OFF switch in the **OFF (O)** position (see Fig. 25-1).

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

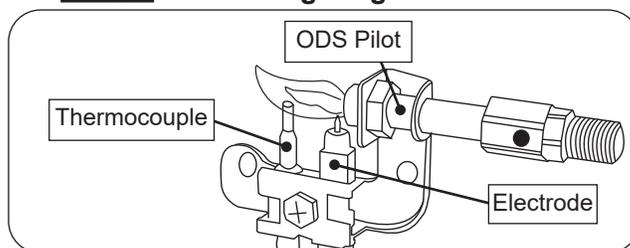


Fig. 25-2 ODS Pilot assembly detail

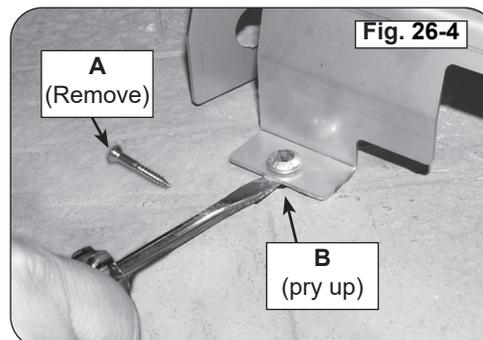
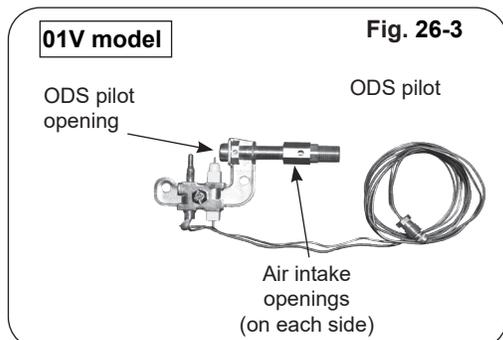
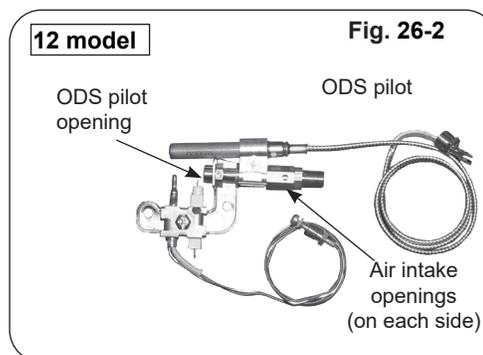
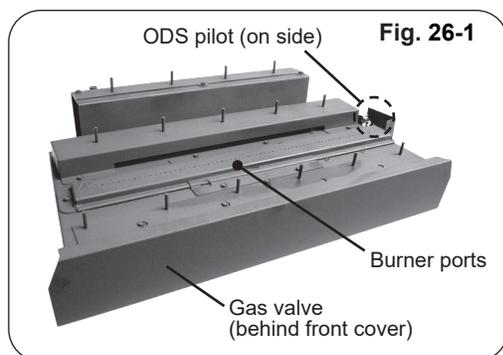
CLEANING AND SERVICING SAFETY INFORMATION

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, burner, and circulating air passageways of the appliance be kept clean and free of all obstructions.** The ODS pilot (see Fig. 26-2, and Fig. 26-3) 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 shutter on the burner.

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

- d. All of the ports on the burner. (See Fig. 26-1 and 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. **Should the burner need to be removed for servicing:** first unfasten the screw, then use a flat head screwdriver to pry up the anchoring tab until the wedge anchor pops out. See Fig. 26-4. The screw assembly is reusable.



CLEANING AND SERVICING

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

TO CLEAN THE BURNER SYSTEM

1. Remove the fyre spheres. 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 burner. Using a compressed air duster (commonly available at computer, electronic, or office supply stores) blow through all of the burner ports. See the burner figure on the previous page for locations.
3. Reinstall the fyre spheres.

If, after a period of use, the flames start to exhibit unusual shapes and behavior, or the burner fails 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.

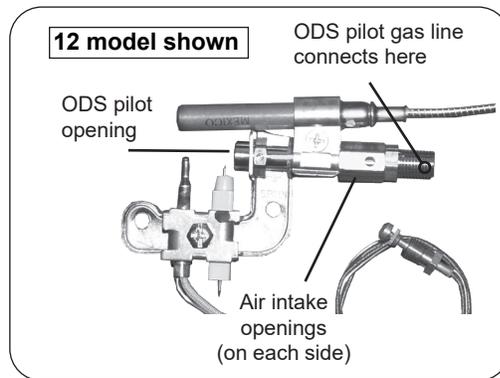


Fig. 27-1

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. 27-1) 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. 27-1) 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. 27-1). 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. 27-1) 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.

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. 28-1. 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.

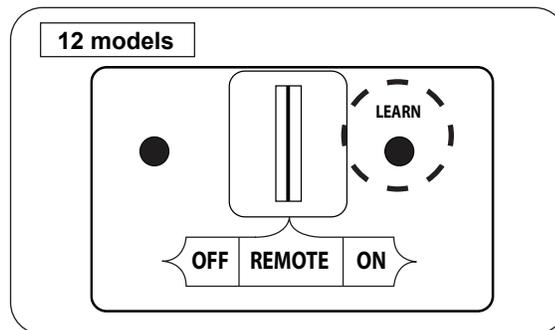


Fig. 28-1 Sync remote receiver - 12 model

01V models

Ensure the burner system is off and completely cool.

Locate the **RESET** button on the control module (attached to valve). Press and hold the **RESET** button (Fig. 28-1) until you hear two acoustic signals. After the second longer acoustic signal release **RESET** button. Within the subsequent 20 seconds press the  (small flame) button on the remote transmitter until you hear an additional long signal confirming the code is set.



Fig. 28-2 Sync remote receiver - 01V model

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 fyre spheres in the front row, with the center flame being the tallest (see Fig. 28-2).

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. 28-2

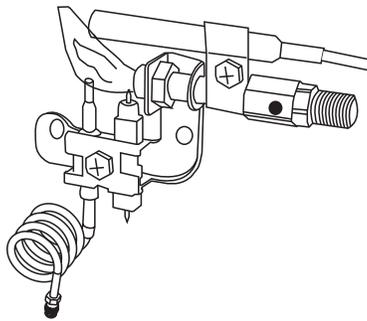
CHECKING THE ODS PILOT FLAME APPEARANCE

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.

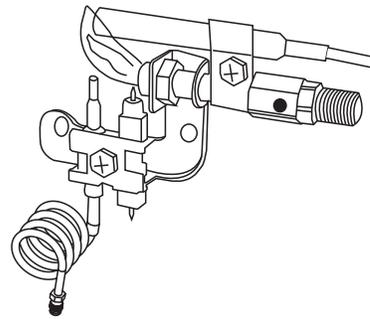
1. The ODS pilot flame must be present when the burner is operating. The flame should touch the top of the thermocouple tip (Fig. 29-1 or Fig. 29-3).
2. If the ODS pilot flame does not touch the top of the thermocouple tip, then the main burner will not function properly (see Fig. 29-2 or Fig. 29-4 for incorrect ODS pilot flame).
3. With the 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 for any blockages that could affect the operation of the ODS pilot flame.

ODS Pilot for 12 valve (NG shown)



Correct ODS pilot flame

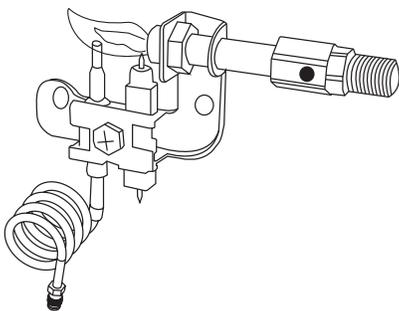
Fig. 29-1



Incorrect ODS pilot flame

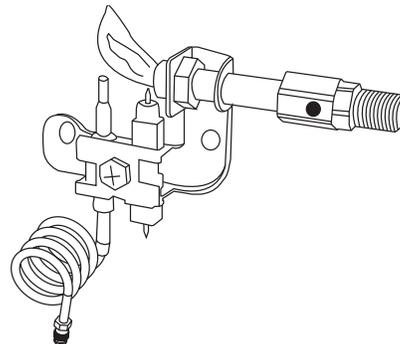
Fig. 29-2

ODS Pilot for 01V valve (NG shown)



Correct ODS pilot flame

Fig. 29-3

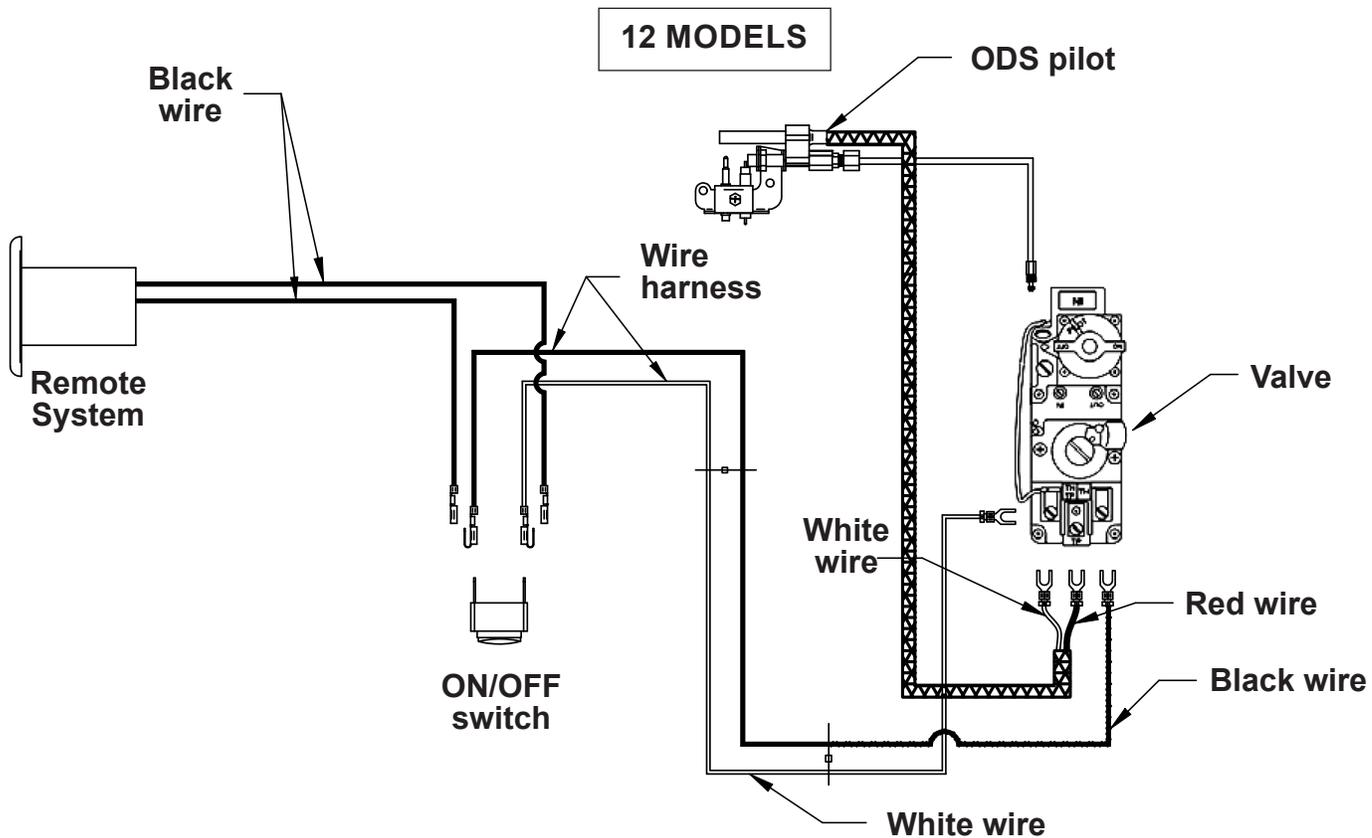


Incorrect ODS pilot flame

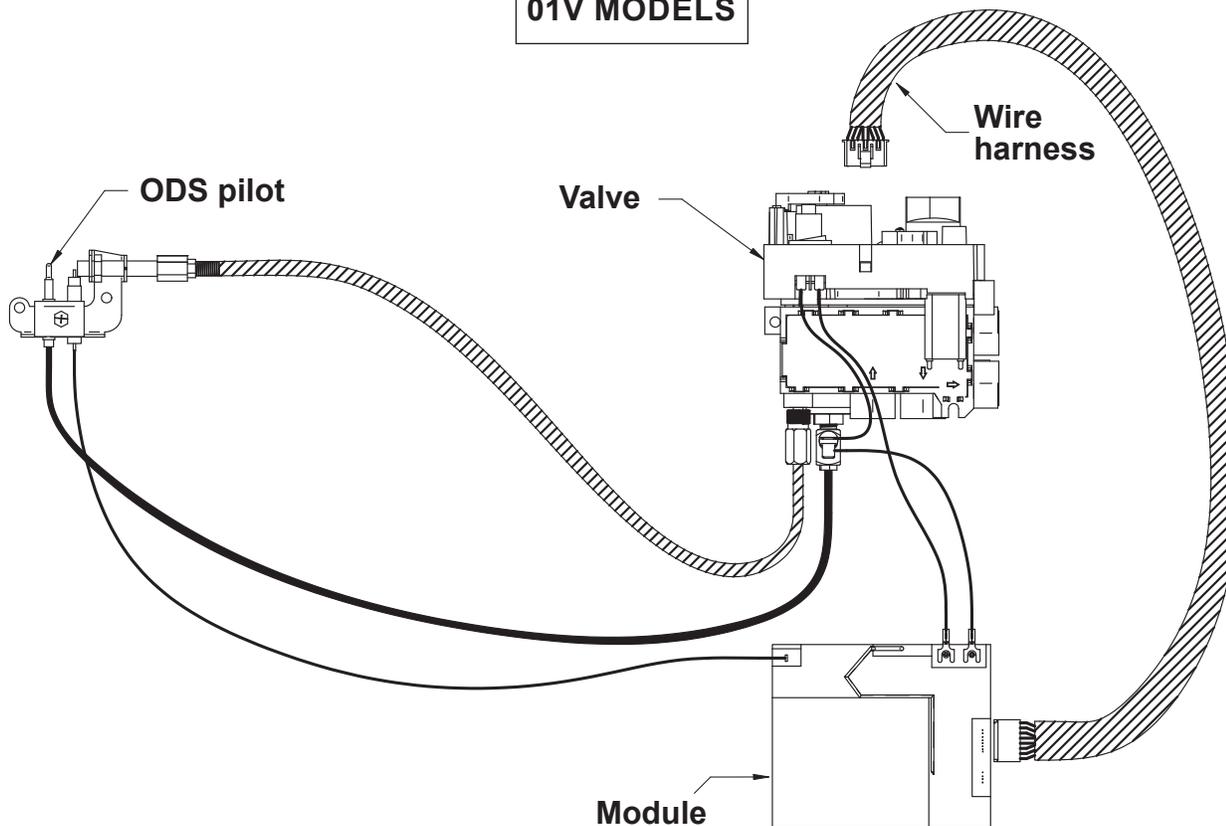
Fig. 29-4

REAL FYRE G23 WIRE DIAGRAMS

12 MODELS



01V MODELS



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, see CHECK GAS PRESSURE 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 loose 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	<p>H1. Check fire spheres 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.)</p> <p>H2. Check for sunken fireplace, excessive decorative media, or other accessories packed too tightly against burner or high bottom lip on glass door. Open window or damper slightly.</p>
I. Fireplace too small for unit	I. Ensure minimum requirements are met (see SPECIFICATIONS AND REQUIREMENTS 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.

TROUBLESHOOTING (Cont.)

POSSIBLE CAUSE	SOLUTIONS
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 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. Low gas pressure / level	B1. Check gas pressure. Can be caused by too small of a gas line (see Section 1, A1 of this table). B2. Low propane fuel gas level. Vacuum burner tube for soot blockage and fill propane tank.
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

Due to the design of this burner system, sooting will occur on the Fyre spheres. This is a result of the yellow flame generated by the burner and is normal. If sooting occurs in the firebox or in the room, refer to the information below:

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. Fan 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 media with burner	D. Make sure only Real Fyre media 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 FYRE SPHERE PLACEMENT and GLASS MEDIA PLACEMENT sections for proper media placement.

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).

WARNING: If the gas quality is bad, the burners will produce soot and/or your pilot will not stay lit. Contact your gas company.

WARRANTY

PETERSON UNVENTED ROOM HEATER GAS APPLIANCE LIMITED WARRANTY

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

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

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

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

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

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

RHP 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 (if the unit is installed in a commercial / multi-user setting, a separate Commercial / Multi-User Limited Warranty applies and is available from RHP). 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 **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), or electrical damage. Product must be installed 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. RHP products including heating elements 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. Heating elements, controls, accessories, etc. used with this product must be RHP products or this warranty is void.

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

RHP may require the defective product or part to be returned to the factory to determine the cause of failure. RHP 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 RHP dealer where the product was purchased.

When contacting your RHP 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.**

Quality Check	Date: _____		
Burner Orifices	Nat.	L.P.	Leak Test: _____
			Burn Test: _____
Main:	_____	_____	Gas Type: <u>Nat.</u> / L.P.
Other:	_____	_____	Air Shutter: _____
Inspector: _____			

Model #:	
Serial #:	