

Burner Systems:

G45-GL-16/19(P)

G45-GL-18(P)

G45-GL-24(P)

G45-GL-30(P)

G45-GL-36(P)

G45-GL-42(P)

G45-GL-48(P)

G45-GL-60(P)

For use w/ propane or natural gas



Listed to:

to:

Decorative Log Sets for Installation in Wood-Burning Fireplaces RGA2-72

(16/19" - 30" models)

FOR INSTALLATION IN SEE-THRU SOLID-FUEL BURNING FIREPLACES*

G45-GL VENTED GAS BURNER SYSTEMS (MANUALLY LIGHTED)

WARNING

If the information in this manual is not followed exactly, a fire or explosion may result, causing property damage, personal injury, or loss of life.

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

WHAT TO DO IF YOU SMELL GAS:

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

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

This appliance is only for use with the type of gas indicated on the rating plate.

IMPORTANT: READ THESE INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION OF THE UNIT.

The Real Fyre burner system is to be installed only in a solid-fuel burning fireplace with a working flue and constructed of noncombustible material. The installation, including provisions for combustion and ventilation air must conform with the *National Fuel Gas Code, ANSI Z223.1/NFPA 54*, or the *CSA B149.1*, *Natural Gas and Propane Installation Code*, and applicable local building codes.

A damper clamp, which must be permanently installed, is included to maintain the minimum permanent vent opening and to prevent full closure of the damper.

The chimney damper MUST be fully opened when burning the unit. The unit is designed to burn with yellow flames; thus adequate ventilation is absolutely necessary.

This appliance is designed as an <u>attended</u> <u>appliance</u>. <u>DO NOT</u> leave this appliance burning when unattended.

To comply with certification, listings, and building code acceptances, and for safe operation and proper performance of this burner system, use ONLY Peterson parts and accessories. Use of other controls, parts, and accessories that are not designed for use with Real Fyre burner systems is prohibited and will void all warranties, certifications, listings, and building code approvals, and may cause property damage, personal injury, or loss of life.

*Note: Solid-fuels shall not be burned in a fireplace where a decorative appliance is installed.



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

INSTALLER:

Leave this manual with the appliance.

<u>CONSUMER:</u>

Retain this manual for future reference.



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

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IMPORTANT PRE-INSTALLATION AND FIREPLACE SAFETY INFORMATION

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

Installer: Carefully read these instructions before installing this gas burner system. Be sure you understand

all safety precautions and warnings contained in this manual.

- A. BE CAREFUL: If not installed, serviced, and used correctly per these instructions, this product can cause serious personal injury, property damage, or loss of life.
- **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 <u>cannot</u> 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: When installing in a solid-fuel-burning fireplace, the chimney flue, damper, and firebox must be thoroughly CLEANED of soot, creosote, ashes, and loose paint, and must be inspected by a qualified chimney cleaner. Some older fireplaces may need repair prior to installing this appliance.
- **E.** The fireplace floor must be level and smooth.
- **F.** This appliance is only for use with the type of gas indicated on the rating plate.

 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.
- **G.** INSUFFICIENT GAS PRESSURE WILL KEEP THE UNIT 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 7" water column (w.c.) on natural gas and 11" w.c. on L.P. gas. Insufficient gas pressure will affect proper operation of the unit. 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.** 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 manufacturer before installing this product.
- **K.** This gas appliance and its main gas valve must be disconnected from the gas-supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig.
- **L.** This gas appliance must be isolated from the gas-supply piping system by closing the gas supply shutoff valve during any pressure testing of the gas-supply piping system at test pressures equal to or less than 1/2 psig.
- M. To install the gas appliance in your fireplace, the fireplace <u>MUST</u> meet the minimum size requirements (see product specifications table in SPECIFICATIONS section).
- N. 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 CAN/CSA Z240 MH, Mobile Housing, in Canada, or with the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280, in the United States, or when such a standard is not applicable, ANSI/ NCSBCS A225.1/NFPA 501A, Manufactured Home Installations Standard.
- O. DO NOT install this burner system in a fireplace with an ash lip or recess greater than 3/4".
- P. If this burner system is installed in a fireplace with glass doors, and the doors have a frame that obstructs airflow to the fireplace floor, the frame MUST have slots (above the fireplace floor) that allow adequate ventilation. The opening (with doors fully open) MUST meet the minimum fireplace size front width and height requirements. The glass doors MUST be fully open when the burner is in operation. See the SPECIFICATIONS section for details.
- **Q.** ONLY <u>REAL FYRE</u> DECORATIVE MEDIAIS APPROVED FOR USE WITH THIS PRODUCT. See the MEDIA sections found under SPECIFICATIONS for details. Correct installation of the media (and burner assembly) is imperative to safe operation of your appliance. Problems **WILL** occur if all items are not properly installed.

FIREPLACE OPERATING SAFETY INFORMATION

- **A.** Adults <u>MUST</u> be present when this gas appliance is operating. This appliance <u>MUST NOT</u> be left burning when unattended or while anyone is sleeping.
- **B.** Keep the area of the gas burner system clear and free from combustible materials, gasoline, and other flammable vapors and liquids.
- **C.** DO NOT use this appliance if any part has been underwater. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control that has been underwater. Attempted operation may result in fire or explosion resulting in property damage, personal injury or loss of life.

D.	A fireplace screen must be in place when the system is burning. Provisions for adequate combustion air must be maintained. Unless other provisions for combustion air are provided, the screen shall have an opening(s) for introduction of combustion air. Combustion air is adequate when all flames curl into the fireplace and away from the screen. When a
E.	glass fireplace enclosure (door) is used, the glass doors <u>MUST</u> be fully open when the burner is in operation. Do not remove the rating plates or the warning tags. These are an integral safety and identification component of this
F.	appliance. Be sure to read the CLEANING AND SERVICING and FLAME DESCRIPTION sections.
	4

SPECIFICATIONS

Real Fyre gas burner systems must be installed only in a wood burning fireplace with the minimum firebox dimensions and venting requirements met (see following tables). This appliance is designed to burn with yellow flames; adequate ventilation is absolutely necessary.

PRODUCT SPECIFICATIONS

Burner	BTU F	Rating
Model	Nat. Gas	L.P. Gas
G45-GL-16/19	35k	28k
G45-GL-18/20	55k	38k
G45-GL-24	60k	50k
G45-GL-30	75k	60k
[G45-GL-36]	100k	70k
[G45-GL-42]	105k	85k
[G45-GL-48]	110k	90k
[G45-GL-60]	120k	105k

Table 1 - Product BTUs

Burner Model	Minimum Fireplace Size							
(MATCH-LIT)	Wic	dth *	Donth +	Height				
(NAT. GAS ONLY)	Front	Rear †	Depth ‡	пеідпі				
G45-GL-16/19	18"	15"	12"	16"				
G45-GL-18/20	23"	17"	12"	16"				
G45-GL-24	27"	22"	12"	16"				
G45-GL-30	33"	26"	12"	16"				
[G45-GL-36]	39"	33"	12"	16"				
[G45-GL-42]	45"	39"	12"	16"				
[G45-GL-48]	52"	44"	12"	16"				
[G45-GL-60]	63"	55"	12"	16"				

Table 2 - Minimum Fireplace Size: Match-lit (burner only)

Burner Model	Minimum Fireplace Size						
(WITH SAFETY PILOT KIT)	Wic	dth *	Donth +	Uoight			
(NAT. OR L.P. GAS) ▲	Front	Rear †	Depth ‡	Height			
G45-GL-16/19	26"	22"	12"	16"			
G45-GL-18/20	29"	25"	12"	16"			
G45-GL-24	34"	29"	12"	16"			
G45-GL-30	39"	34"	12"	16"			
[G45-GL-36]	46"	39"	12"	16"			
[G45-GL-42]	51"	45"	12"	16"			
[G45-GL-48]	58"	52"	12"	16"			
[G45-GL-60]	69"	63"	12"	16"			

Table 3 - Minimum Fireplace Size: Burner with safety pilot kit

Important Information Regarding Dimensions

- * These required widths allow for centering of the unit.
- † Rear width is at corresponding depth.
- ‡ If an ash lip exists, the depth requirement begins inside of the lip (see FIREPLACE REQUIREMENTS section on following page).
- []Bracketed models indicate nonlisted models.
- ▲ For Nat. gas models, a safety pilot kit is optional. For L.P. models, a kit is <u>required</u> (use the included SPK-26P, or an optional kit). See SAFETY PILOT KITS section on following page for more details.

Note: Table 3 dimensions apply for all safety pilot kits.

SPECIFICATIONS (cont.)

SAFETY PILOT KITS

THIS BURNER COMES WITHOUT A VALVE INSTALLED.

NATURAL GAS MODELS CAN BE INSTALLED TO AND OPERATED BY YOUR FIREPLACE VALVE, OR ONE OF THE OPTIONAL R.H. PETERSON SAFETY PILOT KITS (SEE BELOW).

FOR PROPANE MODELS, YOUR BURNER MUST BE INSTALLED WITH THE INCLUDED SAFETY PILOT KIT (SPK-26P), OR ONE OF THE OPTIONAL R.H. PETERSON SAFETY PILOT KITS (SEE BELOW).

Contact your local Real Fyre dealer when ordering.

To comply with certification, listings, and building code acceptances, and for safe operation and proper performance of this burner system, you must use ONLY R.H. Peterson parts and accessories.

Description	Model
Low Profile, Safety Pilot Kit	SPK-26(P)
High Capacity, Automatic Pilot Kit with basic transmitter & receiver	APK-10(P)
Automatic Pilot Kit with basic transmitter & receiver	APK-11(P)
Variable, Automatic Pilot Kit with basic transmitter & receiver	APK-15(P)
Low Profile, Variable, Automatic Pilot Kit with basic transmitter & receiver	APK-17(P)
Electronic Pilot Kit with on/off basic transmitter & receiver	EPK-2(P)
110 Volt Powered Electronic, non-standing pilot system	EPK-2M-AD(/LP)
110 Volt Powered Electronic, non-standing pilot system with variable flame height control	EPK-2V(P)-TR
High Capacity, 110 Volt Powered Electronic, non-standing pilot system w/variable flame height control	EPK-3V(P)-TR
Electronic Pilot System with hot surface ignition and smart valve	EPK-05(P)
Manual On/Off Valve with extension and knob handle or rod handle	AV-17 / AV-18

Table 4 - Optional Safety Pilot Kits

ASH LIP/RECESS REQUIREMENTS (if applicable)

- DO NOT install this burner system in a fireplace with an ash lip or recess greater than 3/4".
- The depth (as indicated in the chart above) begins inside of the lip.

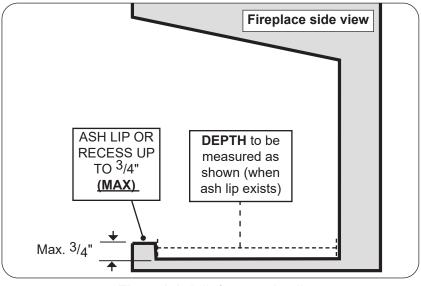


Fig. 6-1 Ash lip/recess detail

SPECIFICATIONS (cont.)

GLASS DOOR REQUIREMENTS

If this burner system is installed in a fireplace with glass doors, and the door frame bottom is greater than ³/₄" in height, the frame <u>MUST</u> have slots (<u>above the fireplace floor</u>) that allow adequate ventilation. This prevents airflow obstruction (to the fireplace floor). See Fig. 7-1.

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 Table on the previous page and Fig. 7-1.

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

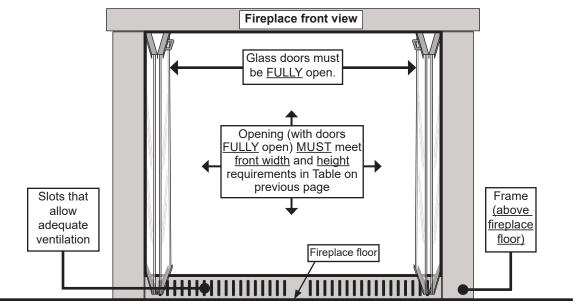


Fig. 7-1 Correct glass-doors frame setup, ventilation, and use (if applicable)

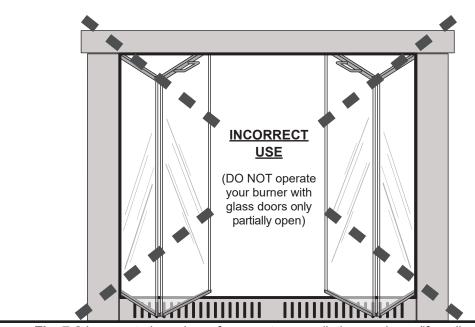


Fig. 7-2 Incorrect glass-doors frame setup, ventilation, and use (if applicable)

SPECIFICATIONS (cont.)

Only the <u>Real Fyre</u> decorative media options listed below are approved for use with this product. Follow the guidelines to determine the recommended amount of decorative media needed to cover your burner / fill your fireplace floor. All decorative media options are purchased separately; contact your local Real Fyre dealer when ordering.

REQUIRED BASE MEDIA

Sand / vermiculite (included with burner) **MUST** first be placed to fill the burner pan.

PRIMARY MEDIA OPTIONS

A. Cover Burner Only (minimum requirement)

Glass/gems (purchased separately) MUST be placed to cover the burner (at minimum).

		Burner size						
	16/19	18	24	30	36	42	48	60
Recommended Amount of Glass/Gems	10 lbs	10 lbs	10 lbs	10 lbs	20 lbs	20 lbs	20 lbs	30 lbs

- OR -

B. Fill Entire Fireplace (optional)

Glass/gems (purchased separately) can be placed to fill the entire fireplace floor. Determine the correct amount needed (via online calculator or manual formula).

A calculator is available online to determine the correct media amount needed. Visit <u>realfyre.com/fyre-glass-calculator/</u> or simply scan the QR code on the right.



Alternatively use the charts and steps 1-5 below.

Important: Relative to the slope of the burner, the height of glass media <u>directly above the burner MUST NOT</u> exceed 1". The website calculation (or formula below) allows for this requirement.

Determine the volume of area to be filled, then subtract a portion of the burner's volume. Finish by dividing by the glass/gems coverage amount.

Burner Volume to be Subtracted (cu. in.)							
	Burner Size						
16/19	18	24	30	36	42	48	60
88	106	130	166	202	239	275	347

Glass/Gems Coverage Amount	
16 cubic inches per lb	

- 1. Determine the square area of the fireplace floor.
- 2. Multiply amount by 2 (for required 2" cubic height).
- 3. Subtract portion of burner's volume (see chart).
- **4.** Divide by coverage amount: 16.
- **5.** This is the number of pounds needed.

Example using G45-GL-24 in single-sided trapezoid fireplace:

Volume Formula: $(FW + RW) \times D \times H$

Front Width: 34" Rear Width: 28" Depth: 12" Height: 2" (set height)

- 1. (34 + 28) x 12 = 372 sq. in.
- **2.** $372 \times 2 = 744 \text{ cu. in.}$
- **3.** 744 130 (per chart above) = 614 cu. in.
- **4.** 614 / <u>16</u> (per chart above) = **38 lbs** (rounded)

SECONDARY MEDIA OPTIONS (optional)

Secondary options such as river stones / fyre spheres / glass nuggets (purchased separately) may also be placed on top of the glass media.

DAMPER CLAMP INSTRUCTIONS

The damper clamp with hex bolt (Fig. 9-1) is provided as a means to prevent full closure of the damper blade. The clamp is easily attached to most damper blades with pliers or a wrench, and must be permanently installed. The clamp is designed to prevent accidental closure of the damper when installed as illustrated (Fig. 9-2). Should the clamp not fit, or fail to provide the permanent vent opening listed in Table 3 below, have a permanent stop installed, remove the damper blade, or have the damper cut to provide the minimum permanent opening required.

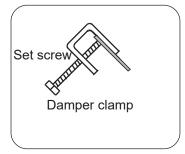


Fig. 9-1 Damper clamp detail

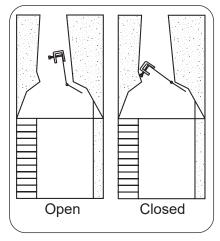


Fig. 9-2 Damper open / closed

Venting Requirements

Note: The minimum chimney height from hearth to top of chimney is 15'.

Mir	Minimum permanent free opening area of chimney damper for venting (sq. in.)							
		For factory-built fireplaces						
Chimney height	16/19"	18"	24"	30"	36"	42"	48"	60"
15'	15	24	27	36	47	50	52	62
20'	13	21	23	29	43	45	46	56
30'	11	16	18	23	34	36	38	45
			Fo	r masonry-l	ouilt fireplac	es		
15'	23	30	38	46	60	62	65	70
20'	22	27	35	42	54	57	59	63
30'	20	25	32	38	49	51	53	57

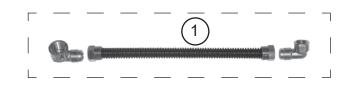
Table 5 - Minimum Chimney Damper Vent Opening Requirements

THESE ARE MINIMUM DAMPER OPENING SPECIFICATIONS.

THE DAMPER MUST BE COMPLETELY OPENED WHEN OPERATING THIS GAS APPLIANCE TO ACHIEVE THE BEST VENTILATION POSSIBLE.

G45-GL BURNER REPLACEMENT PARTS LIST











Note: Photos not to scale

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

Glass/gems are purchased and packaged separately; contact your local Real Fyre dealer when ordering.

For propane models, refer to separate PARTS LIST supplied with the pilot kit.

		16/19" model		18" model		24" model		30" model		36" model	
Item	Description	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.
1.	Flex connector (w/ adapters), 1/2" O.D. x 12"	CK-5	1	CK-5	1	CK-5	1	CK-5	1	CK-5	1
2.	Separator screen	SC-5	1	SC-6	1	SC-7	1	SC-8	1	SC-9	1
3. or	Sand (natural gas) Vermiculite (propane gas)	CS-8 LF-15-3.5	1 1	CS-8 LF-15-3.5	1 1	CS-10 LF-15-7	1 1	CS-12 LF-15	1 1	CS-15 LF-15-7	1 2
4.	Damper clamp	DC-1	1	DC-1	1	DC-1	1	DC-1	1	DC-1	1

		42" mo	42" model		del	60" model	
Item	Description	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.
1.	Flex connector (w/ adapters), 1/2" O.D. x 12"	CK-5	1	CK-5	1	CK-5	1
2.	Separator screen	SC-13	1	SC-11	1	SC-12	1
3.	Sand (natural gas)	CS-10	2	CS-15 CS-10	1	CS-15	2
or	Vermiculite (propane gas)	LF-15 LF-15-7	1	LF-15	2	LF-15 LF-15-7	2 1
4.	Damper clamp	DC-1	1	DC-1	1	DC-1	1

INSTALLATION

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. Check to be sure the burner system is designed and labeled for the type of gas (natural or propane gas) supplied to fireplace. Fireplace floor must be level, clean, and smooth (see FIREPLACE SAFETY INFORMATION section).

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

REFERTOTHE PARTS LIST WHEN FOLLOWING INSTALLATION INSTRUCTIONS.

The burner pan is supplied with an air mixer for propane gas or a fuel injector for natural gas. The air mixer / fuel injector must be used in ALL installations. The air mixer / fuel injector has a precisely sized orifice to ensure only the proper amount of gas enters the burner. This allows maximum performance and gas conservation.

INSTALL VALVE AND PILOT KIT (L.P. Models Only)

For L.P. models, the valve and pilot assembly must first be installed. Carefully follow the instructions supplied with the pilot kit for specific setup. Then return to the following SAND/VERMICULITE AND SCREEN section to continue with installation.

16" burner model shown here.

INSTALL BURNER

- 1. MAKE SURE FIREPLACE GAS SUPPLY IS TURNED OFF.
- **2.** Locate the gas-supply stub inside the fireplace and remove the cap, if attached (reference Fig. 11-1).

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

3. Remove the small adapter connected to the flex connector (included). Attach the adapter to the fuel injector / air mixer found on the side of the burner pan using a pipe compound resistant to all gasses. Tighten securely. Then attach the flex connector to the adapter. Tighten securely (See Fig. 11-1).

Important: DO NOT remove the fuel injector / air mixer.

- **4.** Place the burner system in the fireplace. Center the burner from left to right in the fireplace. See Fig. 11-2.
- 5. Be sure gas to the fireplace is off. Remove the large adapter connected to the other end of the flex connector. Attach the adapter to the gas-supply stub using a pipe compound resistant to all gasses. Tighten securely. Then attach the flex connector to the adapter. Tighten securely. See Fig. 11-1. Ensure the pan rests level on the fireplace floor after connection. Adjust the pan if necessary.
- 6. LEAKTEST: Follow the appropriate LIGHTING INSTRUCTIONS for your model to ignite the burner. Test at all connections for leaks using the appropriate soapy water solution. See Fig. 11-3. 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.

Turn off the gas supply and allow unit to completely cool prior to proceeding.

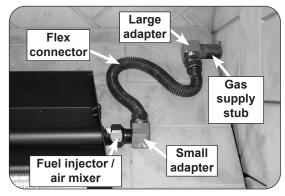


Fig. 11-1 Connect gas supply



Fig. 11-2 Center burner in fireplace

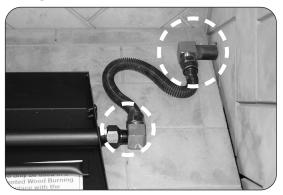


Fig. 11-3 Perform leak test

INSTALLATION (cont.)

SAND/VERMICULITE AND SCREEN PLACEMENT

The sand/vermiculite supplied with the unit is specially selected for use with either natural or propane gas. It maximizes flame distribution and provides a cleaner burning flame.

CAUTION: Use only sand for natural gas burners and vermiculite for propane gas burners.

- 1. Partially fill the burner pan with the <u>sand/vermiculite</u> until it rests at a level toward the top of the burner tubes as shown in Fig. 12-1.
 - · Pack the sand/vermiculite down around the tubes.
 - Slope the sand/vermiculite in the front portion of the pan (see Fig. 12-3).
 - Leave space within the pan to allow for screen and glass placement - DO NOT completely fill the pan.
 - If a pilot kit has been installed, avoid spilling the sand/vermiculite on the pilot assembly. DO NOT place sand/vermiculite on any other parts of the burner, valve, or heat shield.
 - Store excess sand/vermiculite in a safe location.
- 2. Place the separator screen over the sand/vermiculite and pan. The rear of the screen must hook over the rear of the burner pan as shown in Fig. 12-2 and Fig. 12-3.
- The screen must correctly rest onto the burner pan.
- If the front of the screen rises up from the floor of the pan, bend it downward as needed.
- If the screen sits too high, remove some of the sand/ vermiculite to ensure a proper fit.
- DO NOT allow for any sand/vermiculite to be above the screen.

Installation continued on next page

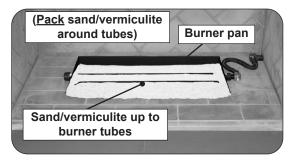


Fig. 12-1 Place sand/vermiculite

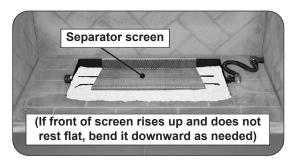


Fig. 12-2 Place screen

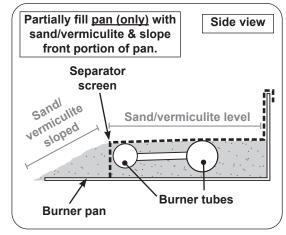


Fig. 12-3 Sand/vermiculite & screen detail

INSTALLATION (cont.)

GLASS/GEMS PLACEMENT

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

gloves, if necessary.

Glass/gems <u>MUST</u> be placed to <u>cover the burner (at minimum)</u> for the system to operate properly. Alternatively, glass/gems can be placed to fill the entire fireplace floor. The glass media is purchased and packaged separately. Contact your local Real Fyre dealer for ordering information.

Reference the SPECIFICATIONS section for details on the recommended amounts of media.

- 1. After the required sand/vermiculite and screen have been placed, pour the glass media (glass, gems) so that the burner pan is covered completely and evenly (see Fig. 13-1).
 - Relative to the slope of the burner, DO NOT exceed a 1" depth of glass (directly above the burner pan) as shown in Fig. 13-2. Any additional glass/gems above the burner may cause unsafe operation.
 - If a pilot kit has been installed DO NOT place any glass media directly on the pilot assembly, on or within the heatshield, or under a knob if one exists at the front of the valve.
 - · Store excess glass media in a safe location.

At this stage the burner will function as designed. However, more glass media may be added around the burner for decorative purposes:

2. Complete placement by pouring the remaining glass media on the floor of the fireplace, around the front, rear, and sides of the burner system (see Fig. 13-1).

IF A PILOT KIT HAS BEEN INSTALLED:

KEEP SAND/VERMICULITE, GLASS/GEMS, AND ALL FOREIGN OBJECTS AWAY FROM THE PILOT ASSEMBLY, VALVE ASSEMBLY, AND HEAT SHIELD DURING MEDIA PLACEMENT AND AT ALL TIMES.

SECONDARY OPTIONS

After the required sand/vermiculite, screen, and glass/gems have been placed, various river stone, geo shape, and glass nugget options are available. If one of these secondary options is purchased, place as desired in a decorative pattern on top of the primary media.

Note: These options are not designed to be placed directly on the burner.

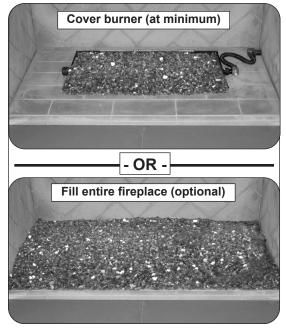


Fig. 13-1 Glass media placement

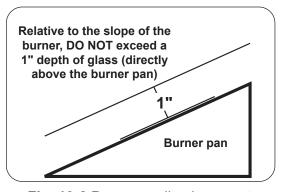


Fig. 13-2 Proper media placement

CAUTION: BURN HAZARD. GLASS AND/OR GEMS ON BURNER SYSTEM WILL <u>REMAIN HOT</u> 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

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

B. WHAT TO DO IF YOU SMELL GAS

- 1. Shut off the gas to the appliance.
- 2. Extinguish any open flame.
- 3. If odor continues, immediately call your gas supplier or the fire department.
- **C.** Use only a proper key to turn the gas line valve. Never use tools. If the valve will not turn, **DO NOT** try to repair it. Call a qualified professional service technician. Force or attempted repair may result in fire or explosion.

If your burner is operated by a pilot kit, carefully follow the lighting instructions supplied with your pilot kit.

- 1. STOP! Read the safety information above.
- 2. Ensure the key valve is completely in the **OFF** position before beginning lighting sequence.
- 3. Light a long-stem match or a long-necked butane lighter, and place the flame against the surface of the decorative media near the burner (Fig. 14-1).
- 4. Once the flame is in position, slowly turn the key valve counter-clockwise toward the ON position until it no longer rotates (see Fig. 14-2). Your burner should light.

WARNING: If the burner does not light within (5) seconds of turning on the key valve, immediately turn the key valve clockwise toward the **OFF** position until it no longer rotates.

Wait approximately five (5) minutes to clear out any gas, and repeat steps 3-4 above.

If your burner fails to light again, turn the key valve clockwise toward the OFF position until it no longer rotates and contact your dealer or gas supplier.

Note: The flame height can be adjusted via the key valve.

TO SHUT OFF GAS TO THE APPLIANCE

To extinguish your gas burner, turn the key valve clockwise toward the **OFF** position until it no longer rotates (see Fig. 14-2). Be sure the key valve is turned fully off to avoid any gas leakage.

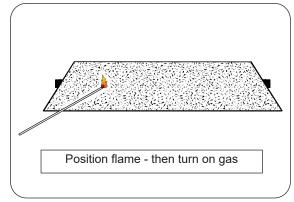


Fig. 14-1

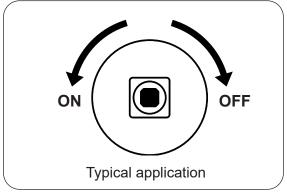


Fig. 14-2

CLEANING AND SERVICING

Note: Servicing may be necessary to ensure proper operation and burn characteristics.

Always shut off the gas to the appliance while performing service work.

Allow the appliance to cool before servicing.

Installation, service, and repair must be done by an NFI Certified or other qualified professional service technician. The appliance should be examined before use, and must be inspected at least annually to prevent burner shutdown, sooting, odors, etc. It must be checked for clean burning operation with the correct tools to service this unit. More frequent servicing may be required. It is imperative that <u>all</u> components and compartments, burner(s), and circulating air passageways of the appliance be kept <u>clean</u> and free of all obstructions (as applicable).

In addition, a periodic examination and cleaning of the fireplace venting system should be conducted by a qualified professional service technician.

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

Verify proper operation after servicing.

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

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

We recommend following these instructions at the beginning of each fireplace season and as needed throughout the year, depending on your usage pattern and the environmental conditions in your home. More frequent cleaning and maintenance may be necessary when burning propane gas than with natural gas.

FLAME DESCRIPTION

Observe the flames. The flames should be blue at the base and a combination of blue/yellow at the body and at the tips. The flames should be approximately 8-12" above the glass/gems, with the center flame being the tallest. (See 15-2 for example.)



Fig. 15-1 Flame appearance

	TROUBLESHOOTING
POSSIBLE CAUSE	SOLUTIONS
1 BURNER	SHUTTING DOWN DURING OPERATION
A. Insufficient or excessive gas pressure	A1. Check gas pressure (Read D F. of IMPORTANT PRE-INSTALLATION AND FIREPLACE SAFETY INFORMATION section, & check with local gas company).
	A2. Other gas appliances may be on the same gas line, dropping gas pressure to the burner. Check pressures with everything operating to ensure adequate pressure.
B. Fireplace too small for unit	B. Ensure minimum requirements are met (see SPECIFICATIONS section).
C. Blockages on burner	C. Vacuum any lava granules or material that may have fallen onto burner port area.
2	LOW FLAME HEIGHT
A. Gas pressure	A. Check gas pressure (see Section 1, A1 of this table).
B. Key valve not fully open	B. Open key valve fully.
C. Blockage or kink in flex connector kit, plumbing, or burner orifice	C. Clean out blockage. If flex connector is kinked, replace it.
D. Incorrect media (sand or vermiculite) for gas type	D. Contact dealer for proper media (sand or vermiculite).
3	BURNER NOT BURNING EVENLY
A. Burner ports clogged	A. Clean burner ports.
B. Media may be packed down too tightly	B. Loosen media around burner pipe by running a flathead screwdriver along both sides of the pipe. Even out media in burner pan.
4	ODORS
A. Gas leak	A. Shut off gas, if possible. Follow instructions on front page. Have a qualified professional installer or the gas company correct all leaks.
B. 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. Damper not properly open, or closed	C. Ensure that damper is <u>fully</u> open.

5 SMOKING AND/OR SOOTING	
A. Poor draft or downdraft	A. Check for chimney blockage. Be sure chimney is at least 3' taller than anything within 10' of it in all directions. If no consult a chimney sweep. A chimney cap or fan may help
B. Damper not properly open, or closed	B. Ensure that damper is <u>fully</u> open.
C. Burner is positioned too close to the front of the firebox	C. Move burner system to the center of the firebox.
D. Improper media placement	D. See INSTALLATION section for proper media placement.
E. Air shutter(s) closed (if applicable)	E. Open air shutter(s) as needed.
F. Air shutter(s) blocked with debris (if applicable)	F. Vacuum debris away from air shutter(s).
G. Using a product other than Real Fyre glass/ gems with burner	G. Make sure only Real Fyre glass/gems are used with you burner.
H. Using natural-gas burner on propane gas or propane gas on natural gas	H. If the gas listed on the nameplate does not match the ga you are burning, shut down the burner system immediatel Then call your dealer.
I. Adding any accessories to burner system	I. Shut down burner system and take off any accessories the do not belong with the system.
6 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).
C. Incorrect media for propane gas and/or media may be packed down too tightly	C. Ensure proper vermiculite media is used with propane ga Loosen media around burner pipe by running a flathea screwdriver along both sides of the pipe. Even out med in burner pan.

WARRANTY

PETERSON VENTED DECORATIVE GAS APPLIANCE LIMITED WARRANTY

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

RHP vented 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.

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

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

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

The SPK-26 is warranted for THREE (3) YEARS and APK-17 (including -17 valve) is warranted for TWO (2) YEARS.

All other 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. 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. RHP 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 RHP products or this warranty is void.

Warrantied 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.