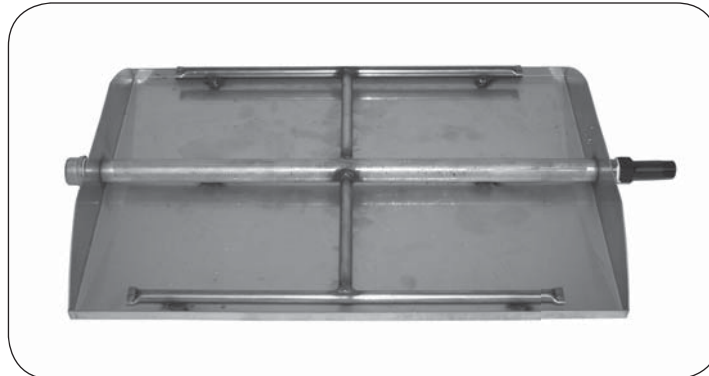


**Burner systems:**

- G45-2-16/19-SS
- G45-2-18/20-SS
- G45-2-24-SS
- G45-2-30-SS
- G45-2-36-SS
- G45-2-42-SS
- G45-2-48-SS
- G45-2-60-SS



**Unregulated burner system,  
for use with natural gas only**

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

**G45 STAINLESS STEEL BURNER FOR OUTDOOR USE ONLY**

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

**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.**

**An LP-cylinder shall not be stored 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 the building.
- Immediately call the gas supplier from a neighbor's phone and follow the gas supplier's instructions.
- If you cannot reach the gas supplier, call the fire department.

**Installation and service must be performed by an NFI Certified or other qualified professional installer, service agency, or the gas supplier.**

**CODE AND SUPPLY REQUIREMENTS**

This outdoor burner must be installed in accordance with local codes and ordinances, or in the absence of local codes, with the latest National Fuel Gas Code, ANSI Z223.1.

**⚠ WARNING**

Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment.

This appliance is designed as an **attended appliance**. Adults **must** be present when the unit is operating. **DO NOT** leave this unit burning when unattended. If this product is left burning unattended it may cause damage or serious injury.

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



## TABLE OF CONTENTS

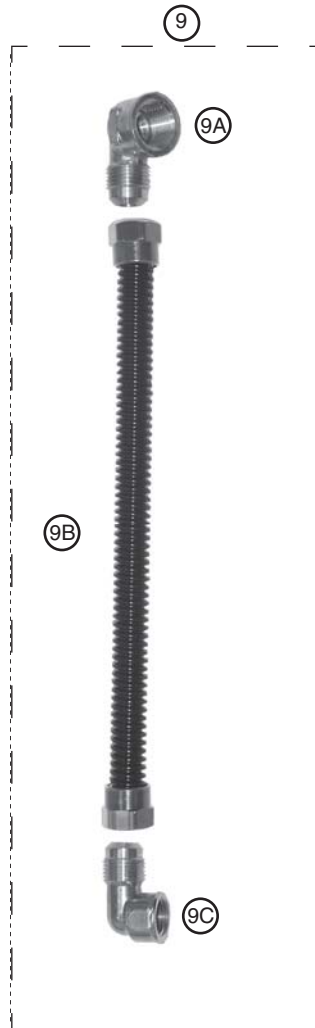
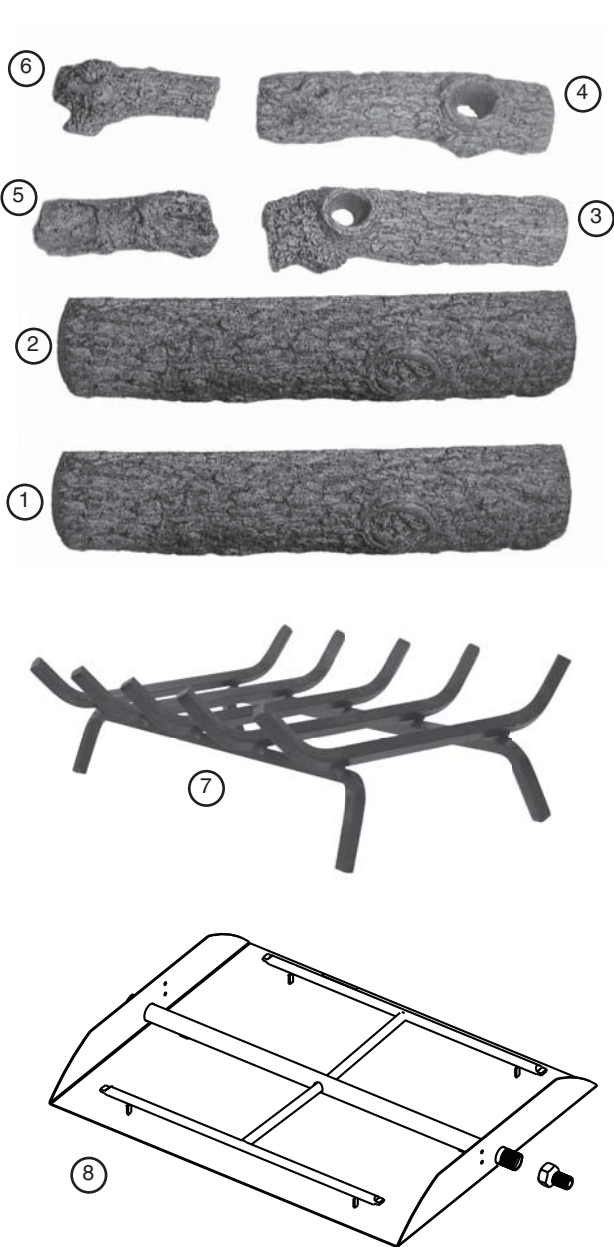
SAFETY INFORMATION	2
PARTS LIST	3
BEFORE YOU BEGIN - IMPORTANT INFORMATION	4
INSTALLING THE DAMPER CLAMP	5
INSTALLATION	5
INSTALLING THE BURNER	5
GRANULE, EMBER, AND GRATE PLACEMENT	6
LOG PLACEMENT	7
OPERATING THE LOG SET - LIGHTING AND EXTINGUISHING	8
TECHNICAL DATA AND SPECIFICATION INFORMATION	9
TROUBLESHOOTING THE GAS LOG SET	10
WARRANTY	12

## SAFETY INFORMATION

1. Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns or clothing ignition.
2. Young children should be carefully supervised when they are in the area of the appliance.
3. Clothing or other flammable materials should not be placed on or near the appliance.
4. Any guard or other protective device removed for servicing the appliance must be replaced prior to operating the appliance.
5. Installation and repair must be done by a qualified professional service person. The appliance must be inspected before use and at least annually by a qualified professional service person. More frequent cleaning may be required as necessary.
6. Solid fuels shall not be burned in a fireplace where this appliance is installed.
7. Keep the appliance area clear and free from combustible materials, gasoline and other flammable vapors and liquids.
8. The burner assembly must be replaced prior to the appliance being put into operation if it is evident that the burner assembly is damaged. Contact your local dealer for replacement parts.
9. 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 glass fireplace enclosure (door) is used, leave the doors fully open when the system is in operation.

# PARTS LIST

Before beginning installation, be sure the gas log set is complete by comparing its contents with this PARTS LIST. The Golden Oak log set is listed and illustrated. The parts may differ depending upon the log style and size of the set. Be sure you know the model number and size of your set when ordering replacement or optional parts and accessories.



Replacement parts can be ordered from your local dealer.

10  
Glowing embers



11  
Granules



ITEM#	DESCRIPTION
1.	Golden Oak front log
2.	Golden Oak front log
3.	Golden Oak top log
4.	Golden Oak top log
5.	Golden Oak top log
6.	Golden Oak top log
7.	Fireplace grate

ITEM#	DESCRIPTION
8.	Burner pan assembly
9.	Connector kit (with adapters)
10.	Real-Fyre® glowing embers
11.	Sand granules
12.	Damper clamp
13.	(2) Log locators

# BEFORE YOU BEGIN - IMPORTANT INFORMATION

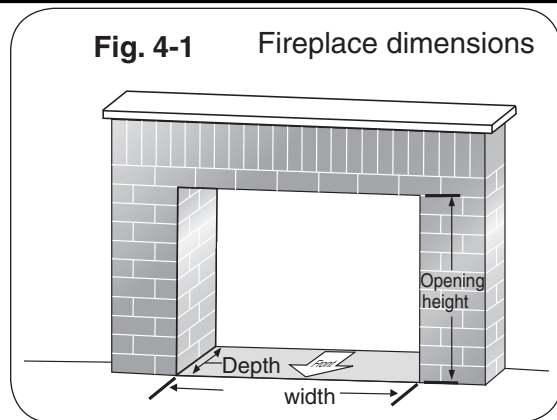
**Before You Begin**, review the information and safeguards below about the installation and operation of the Real-Fyre® gas log set.

**Check to be sure that the fireplace meets the venting and construction requirements for the installation of the Real-Fyre® gas log set.**

**THIS BURNER IS DESIGNED FOR USE WITH NATURAL GAS.** Never use propane gas in this burner.

**Be sure the gas log set is properly sized for the fireplace.** Improper sizing may negatively impact the proper drafting of the fireplace. Additionally, too large a log set will adversely affect the burn and hamper the proper operation of the control system. Too small a log set will diminish the beauty of the hearth setting. Fig. 4-1 illustrates the critical dimensions of the firebox.

**This gas log set must be installed by an NFI Certified or other qualified professional installer.** The Real-Fyre® gas log set is to be installed only in a solid-fuel burning fireplace with a working flue and constructed of noncombustible material. The fireplace must have an open damper. The chimney must be free of any obstructions.



The fireplace must have a gas supply line that has been installed by a qualified technician in accordance with all local codes. The gas supply line must have a ½" minimum interior diameter. If the gas line to the fireplace is longer than 20', a larger diameter line may be necessary.

Be sure to clean the fireplace floor of any ashes or other foreign materials. It is recommended that the fireplace and chimney be examined and cleaned by a chimney sweep or other qualified person before you install the Real-Fyre® gas log set, and annually thereafter.

**Required Gas Pressure:** The minimum inlet gas-supply pressure for the purpose of input adjustment is 5" for natural gas and 10" for propane gas. The maximum inlet gas-supply pressure for this burner is 10.5" for natural gas and 13" for propane gas.

**Testing the Gas Supply System:** The gas log set and its individual shut-off valve must be disconnected from the gas supply piping system while performing any tests of the piping system at pressures in excess of ½ psig (3.5 kPa). The gas log set must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than ½ psig (3.5 kPa). This is accomplished by closing the gas supply line valve, which is required by NFPA 54, section 5.54.

Burner size	Min. Fireplace Dimensions			BTU NAT.
	Width*	Depth	Height	
16/19"	25"	15"	18"	45k
18/20"	26"	17"	18"	80k
24"	30"	17"	18"	90k
30"	36"	17"	18"	110k
36"	42"	22"	18"	130k
42"	48"	22"	18"	150k
48"	54"	22"	18"	170k
60"	66"	22"	18"	190k

\* This required width allows for centering of the log set.

Minimum Free Opening Area of Chimney Damper for Venting (sq. in.)								
For Factory-Built Fireplaces *								
Chimney Height	16/19"	18/20"	24"	30"	36"	42"	48"	60"
15' (min.)	29	50	57	57	82	94	107	119
20'	26	45	51	51	73	85	96	107
30'	23	41	46	46	66	76	86	96

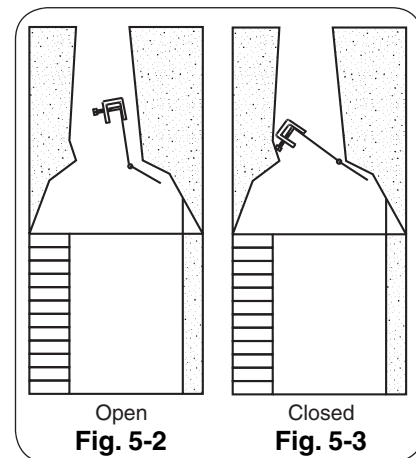
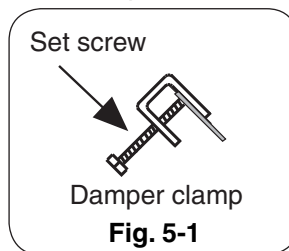
\* For Masonry-Built Fireplaces; add 4 sq. in. to amount shown.

**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.

## INSTALLING THE DAMPER CLAMP

The damper clamp with hex bolt (Fig. 5-1) 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. 5-2 and Fig. 5-3). Should the clamp not fit, or fail to provide the permanent vent opening listed in the table found above, have a permanent stop installed, remove the damper blade, or have the damper cut to provide the minimum permanent opening required.

**Note:** These are minimum damper opening specifications. The damper must be completely opened when operating this gas appliance to achieve the best ventilation possible.



## INSTALLATION

### INSTALLING THE BURNER

The Real-Fyre gas log set must be installed by a qualified professional service technician. Instructions must be followed carefully to ensure proper performance and full benefit from the gas log set. **This log set is designed and labeled for natural gas. Check to be sure natural gas is supplied to the fireplace. Fireplace floor must be level, clean, and smooth.**

**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.

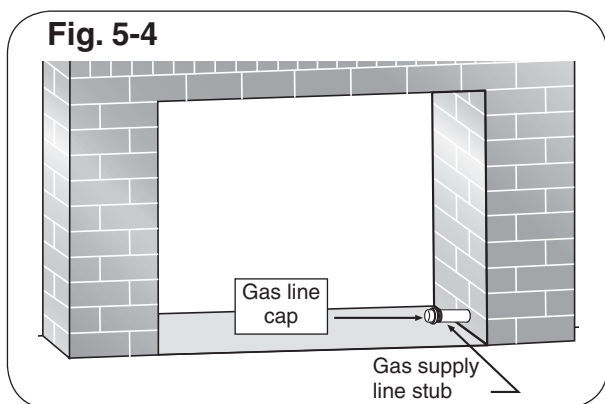
REFER TO THE PARTS LIST WHEN FOLLOWING THESE INSTRUCTIONS.

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

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 (see Fig. 5-4).

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

3. Locate the grate (Item 7) and attach the log locators (Item 13) to the 2 outer bars of the grate with screws and nuts. The log locators should be positioned on the middle of the bars with screw slots facing towards fireplace side walls (Fig. 5-5).
4. Attach the small adapter (Item 9C) to the fuel injector on the burner pan, using a pipe compound resistant to all gases. Tighten securely. **DO NOT REMOVE THE FUEL INJECTOR.** Then attach one end of the flex connector (Item 9B) to the small adapter. Tighten securely.
5. Place the burner pan into the fireplace so that it is centered.

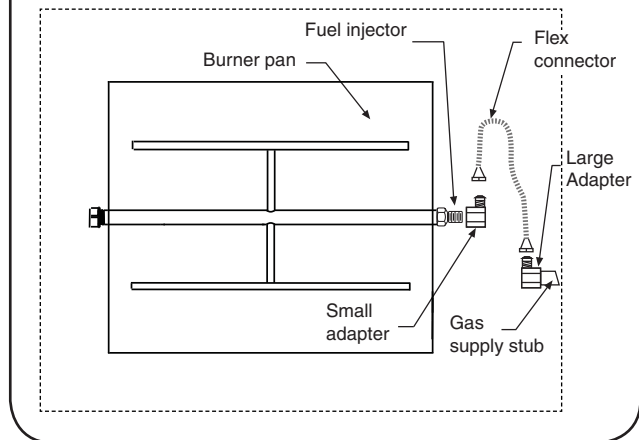


## INSTALLATION (cont.)

6. **Be sure gas to the fireplace is off.** Attach the large adapter (Item 9A) to the gas-supply stub using a pipe compound resistant to all gases. Tighten securely. Then attach the open end of the flex connector to the large adapter. Tighten securely. Ensure the pan rests level on the fireplace floor after connection. Adjust the pan if necessary.
7. **LEAK TEST:** Use a long-necked butane lighter, or lay a lighted match next to the burner pipe, and carefully turn on the gas supply until the burner ignites. 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.**

Turn off the gas supply prior to proceeding.

**Fig. 6-1 - Fireplace valve**

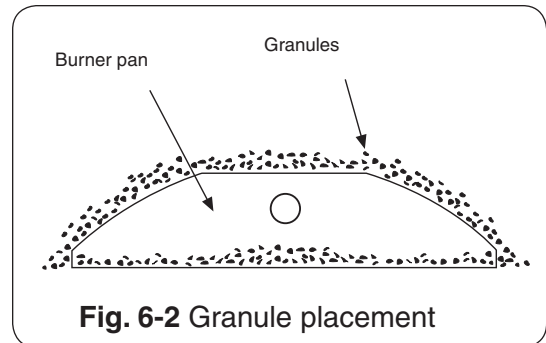


## GRANULE, EMBER, AND GRATE PLACEMENT

### GRANULE PLACEMENT

The sand granules supplied with the unit are specially selected for use with natural gas. They maximize flame distribution and reduce carbon buildup.

1. Fill the burner pan completely with the granules (Item 11). See Fig. 6-2.
2. Slope the granules at the same angle as the burner pan. This is important to ensure quiet lighting and even flame distribution.
3. Pour a small amount of the granules along the outside edges of the burner pan (Fig. 6-2). This prevents flame diversion.



### EMBER PLACEMENT

Sprinkle the glowing embers (Item 10) lightly and evenly over the entire surface of the granules (in the pan only). **Break up any clumps that may have developed during shipment.**

**Important: Do not add any additional embers to this log set. Any additional embers may cause unsafe operation.**

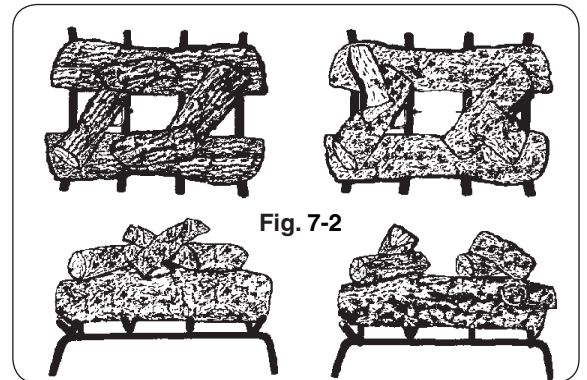
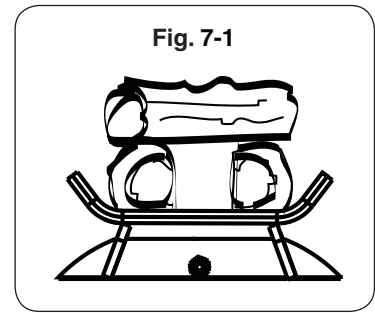
### GRATE PLACEMENT

Center the grate over the burner pan.

# LOG PLACEMENT

1. **Log placement is very important for the proper operation and performance of the Real-Fyre® gas log set.** Although you have some flexibility in the log arrangement, it is necessary to follow the log placement instructions carefully to fully enjoy the log set.
2. Place the bottom logs on the grate. The log locators ensure that adequate space between the logs is maintained for a clean burn (Fig. 7-1).
3. Place the middle/top logs diagonally with space between the logs so that the flames are not choked off. Adjust the middle/top logs until desired look, and flame pattern are achieved. Flexibility is possible provided excessive sooting does not result from flames striking the logs too directly. Reference Fig. 7-2 for some examples.

**Styles and sizes will vary depending upon the log set ordered. If the log set ordered includes placement instructions; follow those instructions.**



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

# OPERATING THE LOG SET - LIGHTING AND EXTINGUISHING

## FOR YOUR SAFETY, READ BEFORE LIGHTING

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

- A. BEFORE LIGHTING**, smell all around the gas log set area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
- B. IF YOU SMELL GAS:**
- **Shut off the gas to the appliance.**
  - **Extinguish any open flame.**
  - **If odor continues, keep away from the appliance, and immediately call the gas supplier or fire department.**
- C.** Do not use the gas log set if any part has been underwater. Immediately call a qualified service technician to inspect the gas log set and to replace any part of the control system and any gas control that has been underwater.

### LIGHTING THE GAS LOG SET

1. Lay a lighted long-stem match on the surface of the embers near the gas inlet (**do not hold the match in your hand**) or use a lighted long-necked butane lighter.
2. Slowly turn the fireplace remote valve to the **ON** position. The log set should light.
3. If the log set does not light before the match goes out, immediately turn the valve off.
4. Wait approximately five (5) minutes to clear out any gas, and repeat steps 1-3 above. Smell for gas including near the floor. If you smell gas, stop and follow step B above. If you don't smell gas, proceed.
5. If the log set fails to light again, turn off the valve and contact the dealer or gas supplier.

### TURNING OFF THE GAS LOG SET

1. To extinguish; simply turn the valve to the **OFF** position. Be sure the valve is turned completely off to avoid any gas leakage.



## TECHNICAL DATA AND SPECIFICATION INFORMATION

### MAINTENANCE

Once installed and operating properly, the Real-Fyre® gas log set requires very little maintenance. You should inspect the log set and control annually for the following:

- 1. Excessive sooting** - Some sooting of the log set is normal and adds to the appearance of burned wood. If sooting accumulates, you may brush the soot off with a stiff brush. Do not use water or soot cleaners to clean off the soot.
- 2. Settling of glowing embers and granules** - Moisture may cause the granules and glowing embers in the burner pan to settle and affect the burn. Using a screwdriver or flat blade knife, carefully stir the granules and embers, loosening the materials.
- 3. Debris around the burner** - Inspect the burner pan to be sure it is free of any debris.

### SERVICE

While some minor service conditions may be handled by the owner of the log set, it is recommended that a qualified service technician be called to service the gas log set and burner should service be required. The TROUBLESHOOTING section of these instructions serves as a guide for ensuring optimum performance of the gas log set.

### FLAME DESCRIPTION

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

To adjust the flame pattern, take a long blade screwdriver or similar tool and stir the granules until the desired pattern is achieved. **DO NOT REMOVE GRANULES FROM THE BURNER PAN**

## TROUBLESHOOTING THE GAS LOG SET

SYMPTOM	CAUSE	SOLUTION
<p>1. Excessive smoking and sooting</p> <p><b>Note:</b> Like burning natural firewood, the Real-Fyre® gas log set is designed to burn with a yellow smoky flame. Some sooting is common and desirable.</p>	A. Poor draft or down draft	A. Check for chimney blockage. Be sure chimney is at least 3' taller than anything within 10' of it in all directions. If not, consult a chimney sweep. Chimney cap or fan may help. Under severe conditions, you may need to open a window near the fireplace about 1" to 2" when burning the log set.
	C. Damper closed	C. Open damper fully when operating gas log set.
	D. Set is positioned too close to the front of the firebox	D. Move set so that the back of the grate touches the back wall of the firebox.
	E. Improper log placement	E. Be sure the bottom logs are spaced at least 3" apart. Top logs should be placed to minimize flame impingement.
<p>2. Low flame</p>	A. Incorrect log set size for burner system	A. Consult the dealer for proper set.
	B. Insufficient gas supply	B. Other gas appliances may be competing for gas supply. Consult installer or plumber. Orifice size is based upon 7" w.c. pressure for natural gas. Plumbing must supply adequate pressure.
	C. Blockage or kink in connector kit, plumbing or burner orifice	C. Clean out blockage. If connector kit is kinked, replace it.
	D. Valve not fully open	D. Open valve fully.

## TROUBLESHOOTING THE GAS LOG SET (cont.)

SYMPTOM	CAUSE	SOLUTION
3. Uneven flame distribution (Lower at one end of the burner)	A. Clogged or blocked portholes	A. Portholes can be cleared of foreign object by running a wire through them.
	B. Insufficient gas pressure and/or supply	B. Consult installer or plumber (see solution 2b).
	C. Granules may be packed down too tightly or not evenly	C. Loosen granules around burner pipe by running a kitchen knife along both sides of pipe. Even out granules in burner pan.
	D. Auxiliary shut-off valve partially closed	D. Open valve fully. Usually, you will find this along the wall 3' from the fireplace.

# WARRANTY

## PETERSON VENTED DECORATIVE GAS APPLIANCE LIMITED WARRANTY

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

Peterson vented ceramic refractory gas logs are warranted for **as long as you own them (lifetime)**.

Peterson vented burner assemblies are **WARRANTED for TEN (10) YEARS**. Peterson vented outdoor stainless-steel burner assemblies are warranted for **FIVE (5) YEARS**.

Peterson glass, gems, nuggets, and fiber-ceramic blend gas logs are warranted for **FIVE (5) YEARS**.

SPK-26 controls are warranted for **THREE (3) YEARS**.

APK-17 controls (including -17 valve) are warranted for **TWO (2) YEARS**.

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

### 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, shall commence on the date of purchase, and shall terminate (both as to original and any replacement products) on the anniversary date of the original purchase of the product stated on 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 Owner's Manual/Installation Instructions, accidental damage, improper handling, improper storage, improper installation, lack of required routine maintenance (as specified in the Owner's Manual/Installation Instructions), electrical damage, local gas impurities or failure to protect against combustibles. Product must be installed (and gas must be connected) as specified in the Owner's Manual/Installation Instructions by a **qualified professional installer**. Modifications to products which are not specifically authorized will void this warranty. Accessories, parts, valves, remotes, etc. when used must be Peterson products or this warranty is void. Warrantied items will be repaired or replaced at Peterson's sole discretion. This warranty **does not** apply to rust, corrosion, oxidation, or discoloration unless the affected part becomes inoperable.

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

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

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

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

**TO REGISTER YOUR PRODUCT ONLINE GO TO: [WWW.RHPETERSON.COM](http://WWW.RHPETERSON.COM),  
AND CLICK ON PRODUCT REGISTRATION. THANK YOU FOR YOUR PURCHASE.**