

P/N 126828-01 Rev. B 10/2016





Report No. F09-100



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 ERTIFIED NFI Gas Specialists.

# Installation and Operation Instructions

# Unvented (Vent-Free) Gas Log Heater

BGE18NE	BGE18PE	BGE2436NE	BGE2436PE
use with log sets			
use with log sets LBG18BM	LBG	18SM	LBG36SM
use with log sets LBG18BM LBG24BM		18SM 24SM	LBG36SM

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

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 gases.

WARNING: This appliance is for installation only in a solid-fuel-burning masonry or UL127 factory-built fireplace or in a listed ventless firebox enclosure. It is design-certified for these installations in accordance with ANSI Z21.11.2. Exception: DO NOT install this appliance in a factory-built fireplace that includes instructions stating it has not been tested or should not be used with unvented gas logs.

This is an unvented gas-fired heater. It uses air (oxygen) from the room in which it is installed. Provisions for adequate combustion and ventilation air must be provided. Refer to Air for Combustion and Ventilation section on Page 6 of this manual.

# **A** WARNING:

# FIRE OR EXPLOSION HAZARD

Failure to follow safety warnings exactly could result in serious injury, death, or property damage.

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

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# SAFETY

A WARNING: Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual for correct installation and operational procedures. For assistance or additional information consult a qualified installer, service agency or the gas supplier.

A WARNING: This appliance is for installation only in a solid-fuel-burning masonry or UL127 factorybuilt fireplace or in a listed ventless firebox enclosure. It is design-certified for these installations in accordance with ANSI Z21.11.2. Exception: DO NOT install this appliance in a factory-built fireplace that includes instructions stating it has not been tested or should not be used with unvented gas logs.

WARNING: This is an unvented gas-fired heater. It uses air (oxygen) from the room in which it is installed. Provisions for adequate combustion and ventilation air must be provided. Refer to <u>Air</u> for Combustion and Ventilation section on Page 6 of this manual.

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 gases.

\* Aftermarket: Completion of sale, not for purpose of resale, from the manufacturer

# SAFETY Continued

WARNING: This product contains and/or generates chemicals known to the state of California to cause cancer or birth defects or other reproductive harm.

IMPORTANT: Read this owner's manual carefully and completely before trying to assemble, operate or service this fireplace. Improper use of this fireplace can cause serious injury or death from burns, fire, explosion, electrical shock and carbon monoxide poisoning.

# A DANGER: Carbon monoxide poisoning may lead to death!

**Carbon Monoxide Poisoning:** Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness or nausea. If you have these signs, the fireplace may not be working properly. **Get fresh air at once!** Have fireplace serviced. Some people are more affected by carbon monoxide than others. These include pregnant women, people with heart or lung disease or anemia, those under the influence of alcohol and those at high altitudes. Natural and Propane/LP gases are odorless. An odor-making agent is added to these gases. The odor helps you detect a gas leak. However, the odor added to the gas can fade. Gas may be present even though no odor exists.

Make certain you read and understand all warnings. Keep this manual for reference. It is your guide to safe and proper operation of this fireplace.

WARNING: Any change to this heater or its controls can be dangerous.

WARNING: Do not use a blower insert, heat exchanger insert or other accessory not approved for use with this heater.

WARNING: Do not allow fans to blow directly into the fireplace. Avoid any drafts that alter burner flame patterns. Ceiling fans can create drafts that alter burner flame patterns. Altered burner patterns can cause sooting.

Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.

Do not place clothing or other flammable material on or near the appliance. Never place any objects on the heater.

Heater base assembly becomes very hot when running heater. Keep children and adults away from hot surface to avoid burns or clothing ignition. Heater will remain hot for a time after shutdown. Allow surface to cool before touching.

Carefully supervise young children when they are in the room with heater.

You must operate this heater with the fireplace screen and hood in place. Make sure fireplace screen and hood are in place before running heater. The fireplace screen shall have openings for introduction of combustion air.

Keep the appliance area clear and free from combustible materials, gasoline and other flammable vapors and liquids.

# SAFETY Continued

- 1. 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.
- Do not place propane/LP supply tank(s) inside any structure. Locate propane/ LP supply tank(s) outdoors (propane/LP units only).
- 3. If you smell gas
  - shut off gas supply
  - 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 your gas supplier, call the fire department
- 4. This heater shall not be installed in a bedroom or bathroom.
- 5. Before installing in a solid fuel-burning fireplace, the chimney flue and firebox must be cleaned of soot, creosote, ashes and loose paint by a qualified chimney cleaner. Creosote will ignite if highly heated. A dirty chimney flue may create and distribute soot within the house. Inspect chimney flue for damage. If damaged, repair flue and firebox before operating heater.
- Do not burn solid-fuel in a masonry or UL127 factory-built fireplace in which a vent-free room heater is installed.
- 7. If fireplace has glass doors, never operate this heater with glass doors closed. Any glass doors shall be fully opened when the appliance is in operation. If you operate heater with doors closed, heat buildup inside fireplace will cause glass to burst. Make sure there are no obstructions across openings of fireplace.
- 8. To prevent the creation of soot, follow the instructions in <u>Cleaning and Maintenance</u>, **Page 30**.
- 9. Before using furniture polish, wax, carpet cleaner or similar products, turn heater off. If heated, the vapors from these products may create a white powder residue within burner box or on adjacent walls and furniture.

- This heater needs fresh, outside air ventilation to run properly. This heater has an Oxygen Depletion Sensing (ODS) safety shutoff system. The ODS shuts down the heater if enough fresh air is not available. See <u>Air for Combustion and Ventilation</u>, **Page 6**. If heater keeps shutting off, see <u>Troubleshooting</u>, **Page 33**.
- 11. Do not run heater
  - where flammable liquids or vapors are used or stored
  - under dusty conditions
- 12. Do not use this heater to cook food or burn paper or other objects.
- 13. Do not use heater if any part has been exposed to or under water. Immediately call a qualified service technician to inspect the room heater and to replace any part of the control system and any gas control which has been under water.
- 14. Do not operate heater if any log is broken. Do not operate heater if a log is chipped (dime-sized or larger).
- 15. Turn heater off and let cool before servicing, installing or repairing. Only a qualified service person should install, service or repair heater.
- 16. Make sure the remote is set to the OFF position when you are away from home for long periods of time.
- 17. Remote heaters must not be connected to any external electrical source.
- 18. Operating heater above elevations of 4,500 feet may cause pilot outage.
- To prevent performance problems, do not use propane/LP fuel tank of less than 100 lb. capacity (propane/LP units only).
- 20. Provide adequate clearances around air openings.

# **PRODUCT IDENTIFICATION**

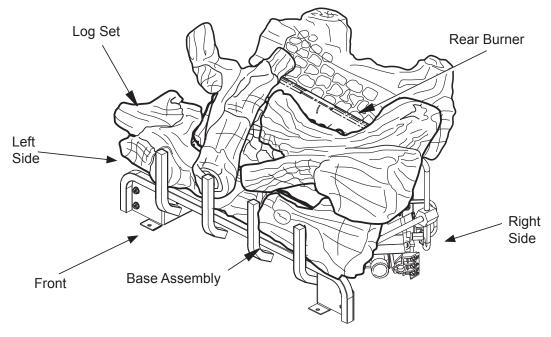


Figure 1 - Product Identification

# LOCAL CODES

Install and use appliance with care. Follow all local codes. In the absence of local codes, use the latest edition of *The National Fuel Gas Code, ANSI Z223.1/NFPA 54*\*.

#### \*Available from:

American National Standards Institute, Inc. 25 West 43rd Street, 4th floor New York, NY 10036 National Fire Protection Association, Inc. 1 Batterymarch Park Quincy, MA 02169-7471

# UNPACKING

1. Remove logs and appliance base assembly from carton(s).

**NOTE**: Do not pick up appliance base assembly by burners. This could damage the appliance. Always handle base assembly by grate.

- 2. Remove all protective packaging applied to logs and appliance for shipment.
- Check appliance for any shipping damage. If appliance is damaged, promptly inform dealer where you purchased the appliance.

**CAUTION:** Do not remove the data plates from the grate assembly. The data plates contain important warranty and safety information.

# COMMONWEALTH OF MASSACHUSETTS REQUIREMENTS

These appliances are approved for installation in the US state of Massachusetts if the following additional requirements are met:

- Un-vented Room Heaters shall be installed in accordance with 527 CMR 30.
- Installation and repair must be done by a plumber or gas fitter licensed in the Commonwealth of Massachusetts.
- The flexible gas line connector used shall not exceed 36 inches (92 centimeters) in length.
- The individual manual shut-off must be a T-handle type valve.
- Unvented appliances may NOT be installed in bedrooms or bathrooms.
- A working smoke detector must be installed in the area where vent-free appliances are installed.

Seller of unvented propane or natural gas-fired supplemental room heaters shall provide to each purchaser a copy of 527 CMR 30 upon sale of the unit.

# **PRODUCT FEATURES**

# OPERATION

This heater is clean burning. It requires no outside venting. There is no heat loss out a vent or up a chimney. Heat is generated by both realistic flames and glowing coals. This heater is designed for vent-free operation with flue damper closed. It has been tested and approved to ANSI Z21.11.2 standard for unvented heaters. State and local codes in some areas prohibit the use of vent-free heaters.

# AIR FOR COMBUSTION AND VENTILATION

1. Unusually Tight Construction

2. Unconfined Space

heater fuel supply.

SAFETY DEVICE

3. Confined Space

The information on *Pages 6-8* will help you classify your space and provide adequate ventilation.

This heater has a pilot with an Oxygen Depletion Sensing (ODS) safety shutoff system. The

ODS/pilot is a required feature for vent-free room heaters. The ODS/pilot shuts off the

This heater has an electronic igniter to light

heater if there is not enough fresh air.

**ELECTRONIC IGNITION SYSTEM** 

#### **Unusually Tight Construction**

The air that leaks around doors and windows may provide enough fresh air for combustion and ventilation. However, in buildings of unusually tight construction, you must provide additional fresh air.

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 one perm (6 x 10<sup>-11</sup> kg per pa-sec-m<sup>2</sup>) or less with openings gasketed or sealed and
- b. weather stripping has been added on openable windows and doors <u>and</u>
- 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.

If your home meets all three criteria above, you must provide additional fresh air. See <u>Ventilation Air From Outdoors</u>, Page 8.

If your home does not meet all three criteria above, proceed to <u>Determining</u> <u>Fresh-Air Flow For Heater Location</u>, below.

#### **Confined and Unconfined Space**

The National Fuel Gas Code, ANSI Z223.1/ NFPA54 allows two methods for determining whether the space in which the heater is being

WARNING: This heater 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. Read the following instructions to ensure proper fresh air for this and other fuelburning appliances in your home.

Today's homes are built more energy efficient than ever. New materials, increased insulation and new construction methods help reduce heat loss in homes. Homeowners apply weather strip and caulk around windows and doors to keep the cold air out and the warm air in. During heating months, homeowners want their homes as airtight as possible.

While it is good to make your home energy efficient, your home needs to breathe. Fresh air must enter your home. All fuel-burning appliances need fresh air for proper combustion and ventilation.

Exhaust fans, some fireplaces, clothes dryers and some fuel-burning appliances draw air from the house to operate. You must provide adequate fresh air for these appliances. This will ensure proper venting of vented fuelburning appliances.

# PROVIDING ADEQUATE

The following are excerpts from National Fuel Gas Code, ANSI Z223.1/NFPA 54, Air for Combustion and Ventilation.

All spaces in homes fall into one of the three following ventilation classifications:

# AIR FOR COMBUSTION AND VENTILATION Continued

installed is confined or unconfined space. The standard method defines a confined space as a space whose volume is less than 50 cubic feet per 1,000 Btu/hr (4.8 m<sup>3</sup> per kw) of the aggregate input rating of all appliances installed in that space and an unconfined space as a space whose volume is not less than 50 cubic feet per 1,000 Btu/hr (4.8 m<sup>3</sup> 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.

Where the air infiltration rate of a structure is known, the Known Air Infiltration Rate Method may be used. Follow The National Fuel Gas Code, ANSI Z223.1/NFPA 54 to use this method to determine if the space is confined or unconfined.

\* Adjoining rooms are communicating only if there are doorless passageways or ventilation grills between them.

#### DETERMINING FRESH-AIR FLOW FOR HEATER LOCATION

#### Determining if You Have a Confined or Unconfined Space Using the Standard Method

Use this work sheet to determine if you have a confined or unconfined space.

**Space:** Includes the room in which you will install fireplace plus any adjoining rooms with doorless passageways or ventilation grills between the rooms.

 Determine the volume of the space (length x width x height).

Length x Width x Height = \_\_\_\_\_cu. ft. (volume of space)

*Example:* Space size 20 ft. (length) x 16 ft. (width) x 8 ft. (ceiling height) = 2560 cu. ft. (volume of space)

If additional ventilation to adjoining room is supplied with grills or openings, add the volume of these rooms to the total volume of the space. 2. Multiply the space volume by 20 to determine the maximum Btu/Hr the space can support.

\_\_\_\_\_ (volume of space) x 20 = (Maximum Btu/Hr the space can support) *Example:* 2560 cu. ft. (volume of space) x 20 = 51,200 (maximum Btu/Hr the space can support)

3. Add the Btu/Hr of all fuel burning appliances in the space.

Vent-free fireplace		Btu/Hr
Gas water heater*		Btu/Hr
Gas furnace		Btu/Hr
Vented gas heater		Btu/Hr
Gas fireplace logs		Btu/Hr
Other gas appliances*	+	Btu/Hr
Total	=	Btu/Hr
* Do not include direct	vent ase annl	iances

\* Do not include direct-vent gas appliances. Direct-vent draws combustion air from the outdoors and vents to the outdoors.

Example:

Gas water heater	40,000	Btu/Hr
Vent-free fireplace	+ 33,000	Btu/Hr
Total	= 73,000	Btu/Hr

4. Compare the maximum Btu/Hr the space can support with the actual amount of Btu/Hr used.

\_\_\_\_ Btu/Hr (maximum can support)

\_\_\_\_\_ Btu/Hr (actual amount used)

*Example:* 51,200 Btu/Hr (maximum the space can support) 73,000 Btu/Hr (actual amount of Btu/Hr used)

The space in the above example is a confined space because the actual Btu/Hr used is more than the maximum Btu/Hr the space can support. You must provide additional fresh air. Your options are as follows:

- A. Rework worksheet, adding the space of an adjoining room. If the extra space provides an unconfined space, remove door to adjoining room or add ventilation grills between rooms. See <u>Ventilation Air From Inside Building</u>, Page 8.
- B. Vent room directly to the outdoors. See <u>Ventilation Air From Outdoors</u>, **Page 8**.
- C. Install a lower Btu/Hr fireplace, if lower Btu/ Hr size makes room unconfined.

If the actual Btu/Hr used is less than the maximum Btu/Hr the space can support, the space is an unconfined space. You will need no additional fresh air ventilation.

# AIR FOR COMBUSTION AND VENTILATION Continued

WARNING: If the area in which the heater may be operated does not meet the required volume for indoor combustion air, combustion and ventilation air shall be provided by one of the methods described in the National Fuel Gas Code, ANSI Z223.1/NFPA 54, the International Fuel Gas Code, or applicable local codes.

#### **VENTILATION AIR**

#### Ventilation Air From Inside Building

This fresh air would come from an adjoining unconfined space. When ventilating to an adjoining unconfined space, you must provide two permanent openings: one within 12" of the ceiling and one within 12" of the floor on the wall connecting the two spaces (see options 1 and 2, **Figure 2**). You can also remove door into adjoining room (see option 3, **Figure 2**). Follow the National Fuel Gas Code, ANSI Z223.1/NFPA 54, Air for Combustion and Ventilation for required size of ventilation grills or ducts.

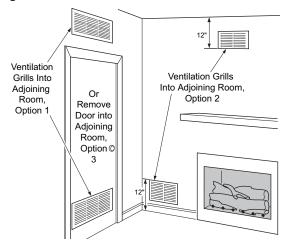


Figure 2 - Ventilation Air from Inside Building

#### Ventilation Air From Outdoors

Provide extra fresh air by using ventilation grills or ducts. You must provide two permanent openings: one within 12" of the ceiling and one within 12" of the floor. Connect these items directly to the outdoors or spaces open to the outdoors. These spaces include attics and crawl spaces. Follow the *National Fuel Gas Code, ANSI Z223.1/NFPA 54, Air for Combustion and Ventilation* for required size of ventilation grills or ducts.

**IMPORTANT**: Do not provide openings for inlet or outlet air into attic if attic has a thermostat-controlled power vent. Heated air entering the attic will activate the power vent.

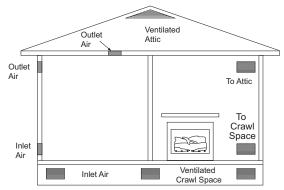


Figure 3 - Ventilation Air from Outdoors

NOTICE: This heater is intended for use as supplemental heat. Use this heater along with your primary heating system. Do not install this heater as your primary heat source. If you have a central heating system, you may run system's circulating blower while using heater. This will help circulate the heat throughout the house. In the event of a power outage, you can use this heater as your primary heat source.

WARNING: A qualified service person must install heater. Follow all local codes.

WARNING: Before installing in a solid fuel-burning fireplace, the chimney flue and firebox must be cleaned of soot, creosote, ashes and loose paint by a qualified chimney cleaner. Creosote will ignite if highly heated. A dirty chimney flue may create and distribute soot within the house. Inspect chimney and firebox flue for damage. If damaged, repair flue and firebox before operating heater.

WARNING: Any outside air ducts and/or ash dumps in the fireplace shall be permanently closed at time of appliance installation. WARNING: Seal any fresh air vents or ash clean-out doors located on floor or wall of fireplace. If not, drafting may cause pilot outage or sooting. Use a heat-resistant sealant. Do not seal chimney flue damper.

WARNING: Never install the heater

- in a bedroom or bathroom
- in a recreational vehicle
- where curtains, furniture, clothing or other flammable objects are less than 36" from the front and 42" from top heater, For side clearances see *Figure 4 Page 10*
- in high traffic areas
- in windy or drafty areas

A CAUTION: This heater creates warm air currents. These currents move heat to wall surfaces next to heater. Installing heater next to vinyl or cloth wall coverings or operating heater where impurities (such as, but not limited to, tobacco smoke, aromatic candles, cleaning fluids, oil or kerosene lamps, etc.) in the air exist, may discolor walls or cause odors.

*IMPORTANT:* Vent-free heaters add moisture to the air. Although this is beneficial, installing heater in rooms without enough ventilation air may cause mildew to form from too much moisture. See <u>Air for Combustion and Ventilation</u>, **Page 6**.

#### CHECK GAS TYPE

Use the correct type of gas (natural or propane/ LP). If your gas supply is not the correct gas type, do not install appliance. Call dealer where you purchased the appliance for proper type appliance.

WARNING: This appliance is equipped for either natural gas or propane/LP gas but not both. Gas type is indicated on the rating plate. Field conversion is not permitted.

# INSTALLATION AND CLEARANCES FOR VENT-FREE OPERATION

WARNING: Maintain the minimum clearances. If you can, provide greater clearances from floor, ceiling and adjoining wall.

Minimum Fireplace Clearance to Combustible Materials Side Wall 16", Ceiling 42", Floor 5", Front 36"

LOG SIZING REQUIREMENTS				
	Minimum Firebox Size			
Log Set Models	Height	Depth	Front Width	Rear Width*
LBG18SM	17"	13.5"	20"	14"
LBG24SM	17"	13.5"	26"	18"
LBG30SM	21"	13.5"	32"	22"
LBG36SM	21"	13.5"	38"	27.5"
LBG18BM	17"	14.5"	26"	20"
LBG24BM	17"	14.5"	29"	22"
LBG30BM	21"	14.5"	32"	22"

Carefully follow these instructions. This will ensure safe installation into a masonry, UL127-listed manufactured fireplace or listed vent-free firebox.

#### Minimum Clearances For Side Combustible Material, Side Wall and Ceiling

A. Clearances from the side of the fireplace cabinet to any combustible material and wall should follow diagram in *Figure 4*. *Example:* The face of a mantel, bookshelf, etc. is made of combustible material and protrudes 3-1/2" from the wall. This combustible material must be 4" from the side of the fireplace cabinet (see *Figure 4*).

**NOTE**: When installing your gas logs into a manufactured firebox, follow firebox manufacturer's instructions for minimum clearances to combustible materials.

B. Clearances from the top of the fireplace opening to the ceiling should not be less than 42".

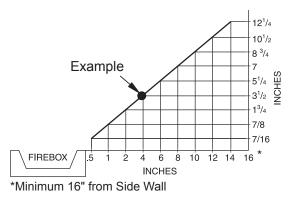


Figure 4 - Minimum Clearance for Combustible to Wall

#### MINIMUM NONCOMBUSTIBLE MATERIAL CLEARANCES

#### If Not Using Mantel

**NOTE**: If using a mantel proceed to If Using Mantel. If not using a mantel, follow the information on this page.

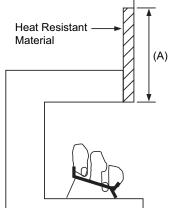
You must have noncombustible material(s) above the fireplace opening. Noncombustible materials (such as slate, marble, tile, etc.) must be at least 1/2" thick. With sheet metal, you must have noncombustible material behind it. Noncombustible material must extend at least 8" up (for all models). If noncombustible material is less than 12", you must install

the fireplace hood accessory (24", 30" and 36" Models Only). See *Figure 5* for minimum clearances.

Noncombustible Material Distance (A)	Requirements for Safe Installation
12" or more	Noncombustible material OK.
Between 8" and 12"	24", 30" or 36" Models: Install fireplace hood accessory (GA6050 - see <u>Accessories</u> , <b>Page 40</b> ). 18" Model: Noncombus- tible material OK.
Less than 8"	Noncombustible material must be extended to at least 8". See <u>Between</u> <u>8" and 12"</u> , above. If you cannot extend material, you must operate heater with flue damper open.

#### If Using Mantel

You must have noncombustible material(s) above the fireplace opening. Noncombustible materials (such as slate, marble, tile, etc.) must be at least 1/2" thick. With sheet metal, you must have noncombustible material behind it. Noncombustible material must extend at least 8" up (for all models). If noncombustible material is less than 12", you must install the fireplace hood accessory (24", 30" and 36" Models Only). Even if noncombustible material is more than 12", you may need the hood accessory to deflect heat away from your mantel shelf. See *Figures 5 and 6* and *Figure 7, Page 12*, for minimum clearances.





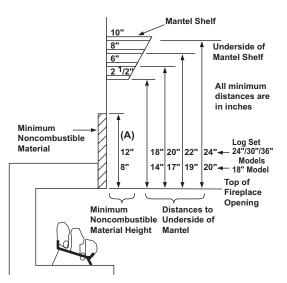
Minimum clearance requirements include any projections such as shelves, window sills, mantels, etc. above the appliance.

#### MANTEL CLEARANCES

In addition to meeting noncombustible material clearances, you must also meet required clearances between fireplace opening and mantel shelf. If you do not meet the clearances listed below, you will need a hood.

#### **Determining Minimum Mantel Clearance**

If you meet minimum clearance between mantel shelf and top of fireplace opening, a hood is not required (see *Figure 6*).



#### Figure 6 - Minimum Mantel Clearances Without Using Hood

# Determining Minimum Mantel Clearance When Using a Hood

If minimum clearances in *Figure 6*, are not met, you must have a hood. When using a hood there are still certain minimum mantel clearances required. Follow minimum clearances shown in *Figure 7, Page 12*, when using hood.

NOTICE: Surface temperatures of adjacent walls and mantels become hot during operation. Walls and mantels above the firebox may become hot to the touch. If installed properly, these temperatures meet the requirement of the national product standard. Follow all minimum clearances shown in this manual.

# INSTALLATION

Continued

NOTICE: If your installation does not meet the minimum clearances shown, you must do one of the following:

- operate the logs only with the flue damper open
- raise the mantel to an acceptable height
- remove the mantel

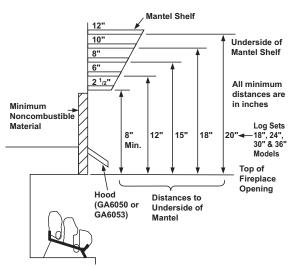
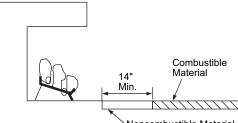


Figure 7 - Minimum Mantel Clearances When Using Hood

# FLOOR CLEARANCES

- A. If installing appliance on the floor level, you must maintain the minimum distance of 14" to combustibles (see *Figure 8*).
- B. If combustible materials are less than 14" to the fireplace, you must install appliance at least 5" above the top surface of combustible flooring including tile and carpet (see *Figure 9*).



Noncombustible Material

Figure 8 - Minimum Fireplace Clearances If Installed at Floor Level

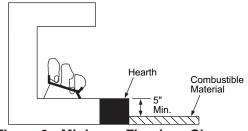


Figure 9 - Minimum Fireplace Clearances Above Combustible Flooring

# INSTALLING HEATER BASE ASSEMBLY

WARNING: You must secure this heater to fireplace floor. If not, heater will move when you adjust controls. Moving heater may cause a gas leak.

WARNING: If installing in a sunken fireplace, special care is needed. You must raise the fireplace floor to allow access to heater control panel. This will ensure adequate air flow and guard against sooting and controls being damaged. Raise fireplace floor with noncombustible material. Make sure material is secure.

A CAUTION: Do not pick up heater base assembly by burners. This could damage heater. Only handle base assembly by grates.

*IMPORTANT:* Make sure the heater burners are level. If heater is not level, heater will not work properly.

#### Installation Items Needed

- hardware package (provided with heater)
- approved flexible gas hose and fittings (if allowed by local codes)
- sealant (resistant to propane/LP gas, not provided)
- electric drill with 3/16" masonry drill bit

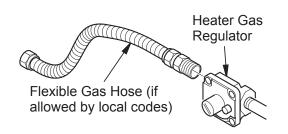
# INSTALLATION

# Continued

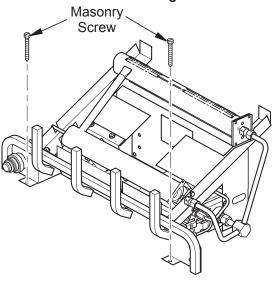
1. Apply pipe joint sealant lightly to male threads of gas fitting (provided). Connect approved flexible gas hose to inlet side of gas control (see *Figure 10*).

*IMPORTANT:* Hold gas regulator with wrench when connecting flexible gas hose.

- 2. Position heater base assembly in fireplace.
- 3. Mark screw locations through holes in front panel of base (see *Figure 11*). If installing in a brick-bottom fireplace, mark screw locations in mortar joint of bricks.
- 4. Remove heater base from fireplace.
- 5. Drill holes at marked locations using 3/16" drill bit.
- 6. Attach base, through holes in front panel of base, to fireplace floor using masonry screws provided in hardware package (see *Figure 11*).
- Connect to gas supply. See <u>Connecting</u> <u>To Gas Supply</u>.



#### Figure 10 - Attaching Flexible Gas Hose to Heater Gas Regulator



#### Figure 11 - Attaching Base to Fireplace Floor

# **CONNECTING TO GAS SUPPLY**

WARNING: This appliance requires a 1/2" NPT (National Pipe Thread) inlet connection to the pressure regulator.

WARNING: A qualified service person must connect heater to gas supply. Follow all local codes.

CAUTION: Never connect propane/LP fireplace directly to the propane/LP supply. This heater requires an external regulator (not supplied). Install the external regulator between the heater and propane/LP supply.

WARNING: Never connect natural gas fireplace to private (non-utility) gas wells. This gas is commonly known as wellhead gas.

# Installation Items Needed

Before installing heater, make sure you have the items listed below.

- external regulator (supplied by installer)
- piping (check local codes)
- sealant (resistant to propane/LP gas)
- equipment shutoff valve \*
- test gauge connection \*
- sediment trap
- tee joint
- pipe wrench
- approved flexible gas line with gas connector (if allowed by local codes)
- \* An equipment shutoff valve with 1/8" NPT tap is an acceptable alternative to test gauge connection. Purchase the optional equipment shutoff valve from your dealer.

For propane/LP units, the installer must **PROPANE/LP** From supply an external regulator. The external External Regulator regulator will reduce incoming gas pressure. You must reduce incoming gas pressure to between 11" and 14" of water. If you do not reduce incoming gas pressure, heater regulator damage could occur. Install external regulator with the vent pointing down as shown in Figure 12. Pointing the vent down protects it from freezing rain or sleet.

**A** CAUTION: Use only new, black iron or steel pipe. Internally-tinned copper tubing may be used in certain areas. Check your local codes. Use pipe of 1/2" diameter or greater to allow proper gas volume to heater. If pipe is too small, undue loss of volume will occur.

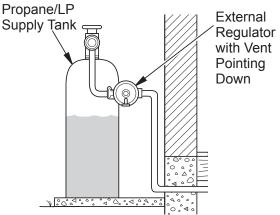


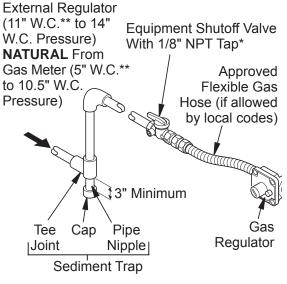
Figure 12 - External Regulator With Vent **Pointing Down** 

Installation must include an equipment shutoff valve, union and plugged 1/8" NPT tap. Locate NPT tap within reach for test gauge hook up. NPT tap must be upstream from heater (see Figure 13).

IMPORTANT: Install equipment shutoff valve in an accessible location. The equipment shutoff valve is for turning on or shutting off the gas to the appliance.

Check your building codes for any special requirements for locating equipment shutoff valve to fireplaces.

Apply pipe joint sealant lightly to male NPT threads. This will prevent excess sealant from going into pipe. Excess sealant in pipe could result in clogged heater valves.



#### Figure 13 - Gas Connection

- \* Purchase the optional equipment shutoff valve from your dealer.
- \*\*Minimum inlet pressure for purpose of input adjustment.

# **WARNING:** Use pipe joint sealant that is resistant to liquid petroleum (LP) gas.

We recommend that you install a sediment trap in supply line as shown in Figure 13. Locate sediment trap where it is within reach for cleaning. Install in piping system between fuel supply and heater. Locate sediment trap where trapped matter is not likely to freeze. A sediment trap traps moisture and contaminants. This keeps them from going into heater controls. If sediment trap is not installed or is installed wrong, heater may not run properly.

**A** CAUTION: Avoid damage to gas control. Hold gas control with wrench when connecting it to gas piping and/or fittings.

# CHECKING GAS CONNECTIONS

WARNING: Test all gas piping and connections, internal and external to unit, for leaks after installing or servicing. Correct all leaks at once.

WARNING: Never use an open flame to check for a leak. Apply a noncorrosive leak detection fluid to all joints. Bubbles forming show a leak. Correct all leaks at once.

CAUTION: Make sure external regulator has been installed between propane/LP supply and heater. See guidelines under <u>Connecting to Gas Supply</u>, Page 13.

#### PRESSURE TESTING GAS SUPPLY PIPING SYSTEM

# Test Pressures In Excess Of 1/2 PSIG (3.5 kPa)

- Disconnect appliance with its appliance main gas valve (control valve) and equipment shutoff valve from gas supply piping system. Pressures in excess of 1/2 psig (3.5 kPa) will damage heater regulator.
- 2. Cap off open end of gas pipe where equipment shutoff valve was connected.
- Pressurize supply piping system by either opening propane/LP supply tank valve for propane/LP gas or opening main gas valve located on or near gas meter for natural gas or using compressed air.
- Check all joints of gas supply piping system. Apply noncorrosive leak detection fluid to all joints. Bubbles forming show a leak.
- 5. Correct all leaks at once.
- Reconnect heater and equipment shutoff valve to gas supply. Check reconnected fittings for leaks.

# Test Pressures Equal To or Less Than 1/2 PSIG (3.5 kPa)

- 1. Close equipment shutoff valve (see *Figure 14*).
- 2. Pressurize supply piping system by either opening propane/LP supply tank valve for propane/LP gas or opening main gas valve located on or near gas meter for natural gas or using compressed air.
- Check all joints from gas meter to equipment shutoff valve for natural gas or propane/LP supply to equipment shutoff valve for propane/LP (see *Figure 15 or 16*). Apply noncorrosive leak detection fluid to all joints. Bubbles forming show a leak.
- 4. Correct all leaks at once.

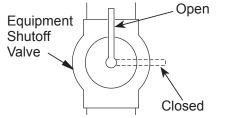


Figure 14 - Equipment Shutoff Valve

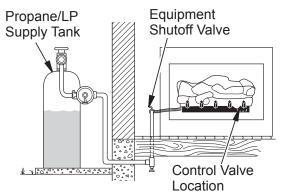


Figure 15 - Checking Gas Joints (Propane/LP Only)

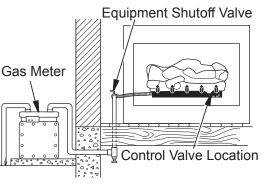


Figure 16 - Checking Gas Joints (Natural Gas Only)

#### PRESSURE TESTING HEATER GAS CONNECTIONS

- 1. Open equipment shutoff valve (see *Figure* 14, Page 15).
- Open main gas valve located on or near gas meter for natural gas or open propane/ LP supply tank valve.
- 3. Make sure control knob of heater is in the OFF position.
- Check all joints from equipment shutoff valve to gas valve (see *Figure 15 or 16, Page 15*). Apply noncorrosive leak detection fluid to all joints. Bubbles forming show a leak.
- 5. Correct all leaks at once.
- Light heater (see <u>Operation</u>, **Page 23** depending on your model). Check all other internal joints for leaks.
- 7. Turn off heater (see <u>To Turn Off Gas to</u> <u>Appliance</u>, **Page 23**.

### POWER SUPPLY AND BATTERY IN-STALLATION

It is helpful to have a flashlight so you can see the connections as described below. Locate the battery power supply. It is the black box with the red and black wires. Locate the control module (see *Figure 17*). Connect the battery power supply to the control module by plugging the battery power supply to the mating receptacle on the control module. The receptacle is located on the side of the black control module next to the word "SUPPLY" which is molded in the control module's black housing (see *Figure 17*). Be certain to push the plug fully into the receptacle. Install batteries in the battery power supply and hand held remote control.

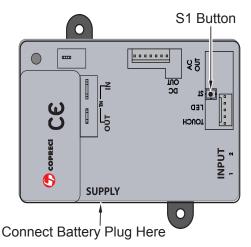
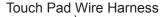


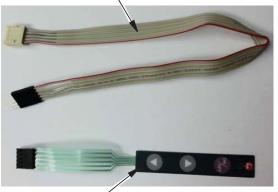
Figure 17 - Control Module

#### **TOUCH PAD INSTALLATION**

Locate the touch pad wire harness and the touch pad control (see *Figure 18*). They are shipped from the factory in the clear plastic bag with your owner's manual. Connect the black plastic connectors together as shown in *Figure 19*. Connect the remaining end with the white plastic connector to the control module in the socket marked TOUCH LED (see *Figure 20*).

**NOTE**: The touch pad includes a red LED display light. If the LED remains on, the black plug is connected upside down. You must unplug the touch pad control from the touch pad wire harness, turn over, and reconnect.





Touch Pad Control Figure 18 - Touch Pad Wire Harness and Touch Pad Control

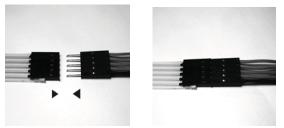


Figure 19 - Touch Pad Control Cable



Figure 20 - Connecting end of Touch Pad Cable

# **INSTALLING LOGS**

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

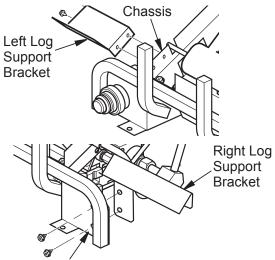
BGE Series Burner System - Log Compatibility Chart			
Burner System Models	Fiber Log Models	Concrete Log Models	
BGE18NE BGE18PE	LBG18SM	LBG18BM	
BGE2436NE BGE2436PE	LBG24SM LBG30SM LBG36SM	LBG24BM LBG30BM	

Figure 21 - BGE Series Burner System-Log Compatibility Chart

#### Log Support Brackets

If installing a LBG36SM, attach log support brackets before installing logs. These brackets are provided with the BGE2436 series burner systems.

- 1. Install left bracket to left side of chassis using 2 screws provided (see *Figure 22*).
- Install right bracket to right front of chassis using 2 screws provided (see *Figure 22*). This bracket will also be used as remote control bracket if remote is installed.



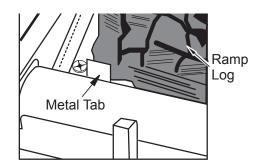
Right Front of Chassis Figure 22- Installing Log Support Brackets

# FIBER LOG MODELS LBG(18,24,30,36)SM

**NOTE**: Your appliance may vary from model shown but log placement will be the same.

- 1. Place bottom log in center of the base assembly as shown in *Figure 23*. The log must sit flat on the black sheet metal and behind the left metal tab as shown in *Figure 23-A*.
- 2. Rest rear log in back corner sections of base assembly as shown in *Figure 23*. Make sure log is completely vertical and not leaning in toward burner where flame will touch the log.
- 3. Position front right log against right side of grate prongs (see *Figure 23*).
- 4. Position front left log against left side of grate prongs (see *Figure 23*).
- Front Left Log Rear Log Grate Prongs Bottom Log Base Assembly Front Right Log

Figure 23 - Installing Log Set





- 5. Place middle right log over front right and bottom logs as shown in *Figure 24*. Be sure hole in middle right log seats over pin in bottom log.
- 6. Place middle left log over front left and bottom logs as show in *Figure 24*. Be sure hole in middle left log seats over pin in front left log.
- 7. For LTF36SM, the front right and left logs are longer and are supported with brackets on each end (see *Figure 25*). Place left and right small front logs under left bracket and beside right bracket.
- 8. For LBG36SM, position left and right control cover logs as shown in *Figure 25*. These may be placed as desired to hide controls.

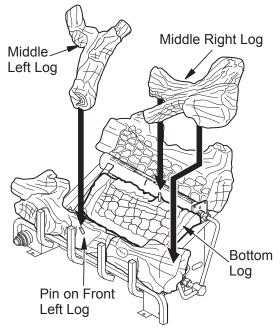
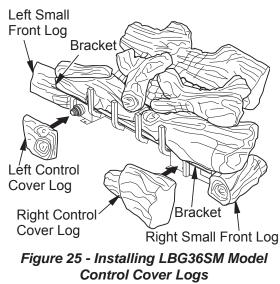


Figure 24 - Installing Log Sets





LBG36SM MODELS Figure 26 - Correct Log Placement

# CONCRETE LOG MODELS LBG(18,24,30)BM

**NOTE**: Your appliance may vary from model shown but log placement will be the same.

1. Place fiber ramp log in center of chassis as shown in *Figure 27*. The fiber ramp log can be identified by the shape and much lighter weight when compared to the other logs. The log must sit flat on the black sheet metal and behind the left metal tab as shown. Make sure the side marked "BOTTOM" is setting down.

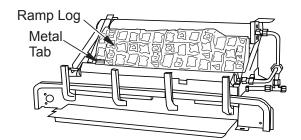


Figure 27 - Installing Fiber Ramp Log

- 2. Place front left and front right logs as shown in *Figure 28*.
- 3. Place left ember bed log as shown in *Fig-ure 29*. The log has groove on one side that sets on the ember bed pan. The back side of this log needs to rest against the

front of the base assembly. Make sure the flame from the ember pan does not touch the ember bed log.

4. The right ember bed log 24" & 30" (D-047) has a hole in the log that sets on the grate finger and the other end rests on the fire-place floor, place log as shown in *Figure 30, Page 20*. The right ember bed logs for 18" (D-072) has a groove on the side that sets on the ember bed pan and the back of the log needs to rest against the front of the base. Make sure the flame from the ember pan does not touch the ember bed log. The back side of this log needs to rest against the front of the base sure the flame from the ember pan does not touch the ember pan does.

Right Front Log

Figure 28 - Installing Left/Right Front Logs

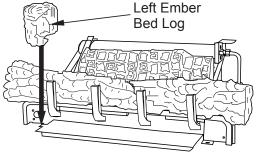


Figure 29 - Installing Left Ember Bed Log

5. The left middle log has a groove on the bottom to sit on the chassis and has to sit on the tab on the back of the left front log as shown in *Figure 31*.

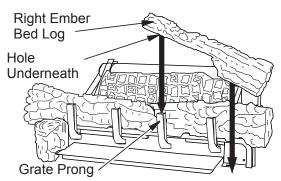


Figure 30 - Installing Right Ember Bed Log

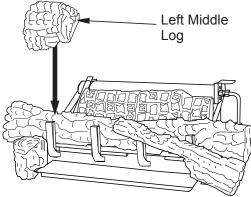


Figure 31 - Installing Left Middle Log

6. The right middle log has a groove on the bottom to sit on the chassis and has to sit on the tab on the back of the right front. The right middle log should have a recess area that fits around the ramp log as shown in *Figure 32*.

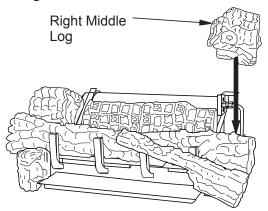


Figure 32 - Installing Right Middle Log

 The rear middle log should fit between the ramp log and the rear burner. The left and right middle logs have recessed areas for the rear middle log to sit into (see *Figure 33*). Be careful not to push the rear burner out of position while installing this log.

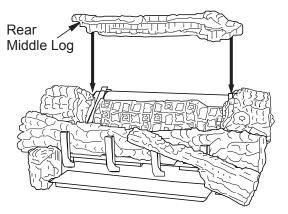
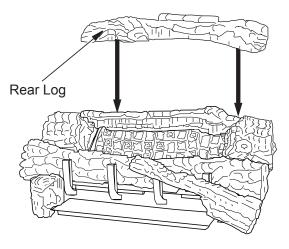


Figure 33 - Installing Rear Middle Log

8. Rest rear log in back corner sections of chassis assembly as shown in *Figure 34*.





9. Place the left top log onto the rear log and the left middle log. Make sure to place the projection on the bottom of the left top log into the recessed areas on the rear and left middle logs (see *Figure 35*).

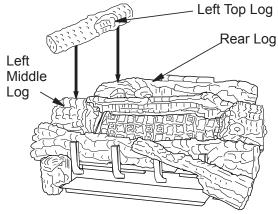


Figure 35 - Installing Left Top Log

 Rest the middle crossover log onto the right middle log and the left front log (see Figure 36). Make sure to match the projection on the bottom of the crossover log with the recess area in the right middle log and the left front log.

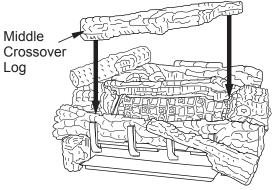


Figure 36 - Installing Middle Crossover Log

11. Place the top rear log onto the rear log as shown. The rear log has a projection that will fit into the recess area on the bottom of the top rear log (see *Figure 37*).

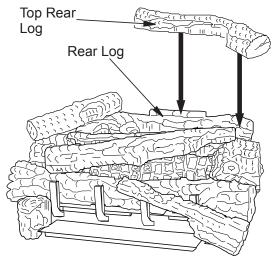


Figure 37 - Installing Top Rear Log

# EMBER PLACEMENT

WARNING: Do not use any other ember material not supplied with this unit.

WARNING: Do not operate unit without ember material correctly in place as shown in *Figures 39 & 40*. Do NOT place ember material anywhere else on the unit. Use only ember material supplied with unit. Excessive or incorrectly placed ember material may produce carbon monoxide or soot. If replacement embers are needed, the replacement embers must be purchased from IHP. See *Page 41* for part numbers.

- Ember Chunk Placement. The BGE2436 1. burner systems include three ember chunks that are designed to fit over shoulder screws on the ember pan burner. The bottom of each ember chunk has a hole for securing the ember chunk in place when it is placed over a shoulder screw. Place the ember chunks as shown in Figure 38 on Page 22 by placing the ember chunk with the number "1" on the left, "2" in the center, and "3" on the right. These numbers are embossed on the back of each piece for identification purposes. Please note that BGE18 burner systems do not include ember chunks.
- 2. Two ember materials are supplied with this log set. Platinum Bright Embers give a bright glow appearing as hot coals. Should embers need replacing, see <u>Parts</u>, **Page 41**.

**Platinum Bright Ember placement.** Add embers to front, flat burner. Gently remove embers from bag. Separate pieces of ember material and place on surface of flat burner just behind horizontal ports as shown in *Figure 39*.

**Glowing Embers (rockwool) placement.** Place glowing ember material on front flat burner in areas away from ports as shown in *Figure 40*.

 Add volcanic stone and small decorative logs around base of heater if desired. DO NOT place volcanic stone or additional logs on front burner or on logs. Placing any material on unit other than ember material on front burner may result in production of carbon monoxide or soot. Use volcanic stone to hide wires from switch/log to control valve. Place switch/log so the switch is easy to access.

WARNING: All previously applied loose material must be removed prior to reapplication.

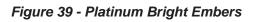


Ember Chunk #1 Ember Chunk #2 Ember Chunk #3 Flat Front Burner *Figure 38 - Ember Chunk Placement SVFS36 Series* 



Ember Material

Flat Front Burner





Glowing Embers (rockwool)

Figure 40 - Placement of Glowing Embers (shown with Platinum Bright Embers)

# **OPERATION**

NOTICE: During initial operation of new heater, burning logs will give off a paper-burning smell. Orange flame will also be present. Open damper or window to vent smell. This will only last a few hours.

# WARNING:

- If fireplace has glass doors, never operate this heater with glass doors closed. If you operate heater with doors closed, heat buildup inside fireplace will cause glass to burst. Make sure there are no obstructions across openings of fireplace.
- You must operate this heater with a fireplace screen in place. Make sure fireplace screen is closed before running heater.

WARNING: Damper handle will be hot if heater has been running.

CAUTION: Do not try to adjust heating levels by using the equipment shutoff valve.

> FOR YOUR SAFETY READ BEFORE LIGHTING

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

- A. This appliance is equipped with an ignition device which automatically lights the pilot. Do not light pilot by hand.
- 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. Do not use this appliance if any part has been under water. Immediately call a qualified 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 INSTRUCTIONS

- 1. STOP! Read the safety information.
- 2. Make sure equipment shutoff valve is fully open.
- Press any button on the remote to power the remote on. Press the MODE zone or the MODE/SET Button to start the unit. You will hear a beep from the control module and the pilot will start to light the unit.

**NOTE:** You may be running this heater for the first time after hooking up to gas supply. If so, you may have to restart the unit several of times to allow the air to bleed from the system.



- 1. Once you have activated the screen press the MODE Zone or MODE/SET Button until you see OFF.
- 2. Close equipment shutoff valve.

# **REMOTE CONTROL OPERATION**

#### **BASIC CONSTRUCTION**

- Touch-Screen LCD and three push buttons will allow input from users.
- LCD screen will provide system status & input feedback to user.
- Backlight will illuminate LCD screen for 5 seconds after any user input the 1st touch of the LCD screen will only illuminate the backlight (will not respond to associated zone function). To activate any command, the backlight for the screen must be on and the command must be touched before the backlight goes off.
- Powered via four AAA sized batteries (6V nominal) with LOW BATTERY INDICATOR (5.0V).

#### Touch-Screen LCD and Button Layout (Not to scale)

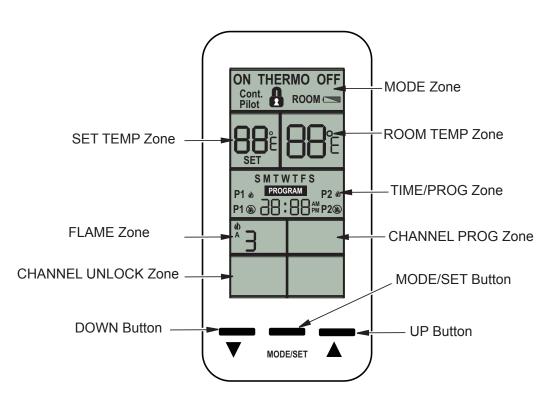


Figure 41 - Touch-Screen LCD and Button Layout

# **OPERATION**

#### Continued

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# FUNCTIONAL DESCRIPTION

**NOTE:** All function adjustments will be automatically accepted 15-seconds after pressing a given touch zone or button. The user may press the MODE/SET button to immediately accept the adjustment manually.

# **CHANNEL SELECTION**

This control may be operated in 3 different sub-channels for applications where 2.4GHz interference causes delayed operation of the remote control. The factory default is Channel 3. To change the channel on the transmitter:

- Touch the CHANNEL PROGRAM and CHANNEL UNLOCK zones simultaneously and hold for 5-seconds.
- The LCD screen will go blank except "Ch" will be displayed in the SET TEMP Zone and either "01", "02", or "03" will be displayed in the ROOM TEMP Zone.
- Press the UP or DOWN buttons to change the channel number (01-03).
- Press the MODE/SET Button to return to the normal operating display.

#### **Receiver Operation Notes:**

- The receiver manufacturer may refer to channels 01, 02, or 03.
- Receiver must be paired with transmitter in the receiver's factory default channel.
- Once paired, the channel selection may be changed in the transmitter per the instructions above.
- Once the channel selection is changed in the transmitter, the power supply to the receiver must be removed for at least 30-seconds, then re-applied.
- The receiver will recognize the new channel selection after about 30-seconds to 1-minute and normal operation will resume.

# MODES OF OPERATION

# **OPERATION MODES:**

- MANUAL OFF
- MANUAL ON
- THERMOSTAT (with optional PRO-GRAM Mode)

The modes may be cycled in the order above by touching the MODE Zone or pressing the MODE/SET Button.

#### MANUAL OFF MODE:

- Transmits flame OFF command.
- Pilot Method: Intermittent Pilot Ignition (IPI)/Spark-to-Pilot only (continuous/ standing pilot not allowed)
  - Pilot flame will be turned OFF
- LCD Displays:
  - MODE Zone: OFF is displayed
  - ROOM TEMP Zone: Measured temperature is displayed
  - SET TEMP Zone: Blank
  - TIME/PROG Zone: Current day indicator and current time is displayed
  - FLAME Zone: Blank

# MANUAL ON MODE:

- Transmits flame ON command.
  - Pilot Method: Intermittent Pilot Ignition (IPI)/Spark-to-Pilot only (continuous/ standing pilot not allowed)
    - Pilot flame will be ignited before turn Main Flame ON.
- LCD Displays:
  - MODE Zone: ON is displayed
  - ROOM TEMP Zone: Measured temperature is displayed
  - SET TEMP Zone: Blank
  - TIME/PROG Zone: Current day indicator and current time is displayed
  - FLAME Zone: A Flame Icon and flame setting level number is displayed

# THERMOSTAT MODE:

- Will cycle flame on and off based on room and set temperatures. Will transmit ON command if SET TEMP (+SWING) is higher than ROOM TEMP and will transmit OFF command if SET TEMP (-SWING) is lower than ROOM TEMP.
- Built-in thermostat will measure room temperature.
- All programming should be written for deg. F and converted to deg. C when selected.
- Temperatures may be displayed in degrees F (factory default) or degrees C. Press the UP and DOWN Buttons simultaneously to change between degrees F and C.
- SET TEMP: While in THERMOSTAT mode, press the UP or DOWN Button

- to change the SET TEMP (45-90 deg. F, 7-32 deg. C); the new set temperature will automatically be accepted after 2 seconds. The factory default SET TEMP is 68 deg. F.
- SWING Temperature: This model does not allow for SWING temperature adjustment. This model utilizes thermostatic flame modulation that will modulation the main flame based on the difference between room temperature and set temperature (see example below).
  - Important factory SWING TEMPERA-TURE setting is 2 degrees. The thermostatic flame modulation feature will not allow this SWING to be changed.

# EXAMPLE:

Set Temperature	Room Temp.	Flame Level
	74F	OFF
	73F	Level 1
Set Temperature (72)	→ 72F	Level 2
	71F (or less	s) Level 3

- Pilot Method: Continuous/Standing Pilot only (Intermittent Pilot Ignition (IPI)/ Spark-to-Pilot not allowed).
  - Pilot flame will remain ON when Main Flame Cycles ON and OFF.
- Manual Flame Adjustment while in THERMOSTAT mode: If Flame-A is manually adjusted while in thermostat mode, it will override the automatic flame setting until the flame cycles off, then back ON thermostatically; when the flame cycles ON again, automatic flame adjustment will resume. Automatic flame adjustment will also resume if the operational mode is cycled out of, then back into THERMOSTAT mode or if the SET temperature is changed.
- THERMOSTAT OFF LCD Displays:
  - MODE Zone: THERMO and OFF is displayed
  - ROOM TEMP Zone: Measured temperature is displayed
  - SET TEMP Zone: SET TEMP is displayed
  - TIME/PROG Zone: Current day indicator and current time is displayed
  - FLAME Zone: Blank
- THERMOSTAT ON LCD Displays:

- MODE Zone: THERMO and ON are displayed
- ROOM TEMP Zone: Measured temperature is displayed
- SET TEMP Zone: SET TEMP is displayed
- TIME/PROG Zone: Current day indicator and current time is displayed
- FLAME Zone: A Flame Icon and flame setting level number is displayed

#### Thermostat Disable Feature

- The Thermostat Mode (described above) may be disabled for applications where a thermostat is not allowed or undesirable. When Thermostat Mode is Disabled:
  - The Modes of operation will cycle between MANUAL ON and MANUAL OFF (omitting THERMO).
  - Program Operation (described below) is also disabled.
  - The SET TEMP zone will be blank.
  - The room temperature will still be measured & displayed in the ROOM TEMP Zone.
  - The TIME/PROG zone will continue to display the Clock and Day of week, but none of the icons associated with Program Mode will be displayed.
- To disable or re-enable the Thermostat, the transmitter must be in MANUAL OFF Mode, then touch and hold the SET TEMP Zone and the DOWN Button simultaneously for 10- seconds. The LCD screen will go blank except either THERMO and OFF or THERMO and ON will flash 3-times (0.5-seconds OFF, 0.5-seconds ON) to indicate the change has been made.

# DAY AND TIME DISPLAY

- The current day of week and time of day will be continuously displayed in the TIME/PROG Zone (except during Setup operations).
- The day of week will be displayed as one of the following: S, M, T, W, T, F, S
- The time of day will be in 12-hour AM, 12-hour PM format. Midnight will be displayed as 12:00am.
- Day/Time Setup:
- 1. Press and hold the MODE Zone for 5 seconds to enter Day/Time Setup.

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- 1. Touch the UP or DOWN Buttons to adjust the day of week (press the MODE/SET Button or wait for 15 seconds for adjustment to be accepted, then enter hour of day adjustment).
- 2. Press the UP or DOWN Buttons to adjust the hour of the day. The time will advance in 1-hour increments; AM and PM will change when the hour advances to 12:00 midnight and 12:00 noon respectively (press the MODE/SET Button or wait for 15 seconds for adjustment to be accepted, then enter minute of hour adjustment).
- 3. Press the UP or DOWN Buttons to adjust the minute of the hour. The time will advance in 1-minute increments (press the MODE/SET Button or wait for 15 seconds and the transmitter will exit Day/Time Setup and return to normal operation).
- 4. LCD Displays when in Day/Time Setup:
  - MODE Zone: Blank
  - ROOM TEMP Zone: Blank
  - SET TEMP Zone: Bank
  - TIME/PROG Zone: Day of Week, or Time of Day will Flash
  - FLAME Zone: Blank

# Program Operation

- Touch the TIME/PROG Zone to activate or deactivate Program Operation. Touching the MODE Zone or pressing the MODE/SET Button will also deactivate Program Operation. When Program Operation is deactivated, the transmitter will return to MANUAL OFF Mode.
- Program Operation will cycle fireplace ignition ON and OFF based on time settings (2 weekend periods and 2 weekday periods) and thermostat settings. Press the MODE/SET Button or wait for 15 seconds to advance to each subsequent program setting.
- Pilot Method (same as Thermostat Mode): Continuous/Standing Pilot only (Intermittent Pilot Ignition (IPI)/ Spark-to-Pilot not allowed).
  - Pilot flame will remain ON when Main Flame Cycles ON and OFF.

- To enter Program Setup, touch and hold the TIME/PROG Zone for 5 seconds.
- Program OFF LCD Displays:
  - MODE Zone: OFF
  - ROOM TEMP Zone: Measured temperature is displayed
  - SET TEMP Zone: Blank
  - TIME/PROG Zone: Current day indicator, current time, and Program status (P1- OFF or P2-OFF) is displayed
  - FLAME Zone: Blank
- Program ON LCD Displays:
- MODE Zone: THERMO and either ON or OFF is displayed
- ROOM TEMP Zone: Measured temperature is displayed
- SET TEMP Zone: SET TEMP is displayed
- TIME/PROG Zone: Current day indicator, current time, and Program status (P1- ON or P2-ON) is displayed
- FLAME Zone:

If Thermostat is ON, A Flame Icon and flame setting level number is displayed. If Thermostat is OFF, display is blank.

#### **Program Disable Feature**

- The Program Mode (described above) may be disabled for applications where a program operation is not allowed or undesirable. When Program Mode is Disabled:
  - The user will not be able to activate Program Mode
  - The user will not be able to enter Program Setup or edit Program Mode settings.
  - The TIME/PROG zone will continue to display the Clock and Day of week, but none of the icons associated with Program Mode will be displayed.
- To disable or re-enable the Program Mode, the transmitter must be in MAN-UAL OFF Mode, then touch and hold the TIME/PROG Zone and the DOWN Button simultaneously for 10-seconds. The LCD screen will go blank except either PROGRAM and OFF (OFF display in MODE Zone) or PROGRAM and ON (ON display in MODE Zone) will flash 3-times (0.5-seconds OFF, 0.5-seconds ON) to indicate the change has been made.

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- Transmits a flame height setting command to the control module to adjust the Flame-A height.
- Available settings are 1-3 with a factory default of 3. Refer to the THERMOSTAT Mode section for additional details on flame modulation in THERMOSTAT mode.
- While in MANUAL ON, THERMOSTAT ON, or PROGRAM ON modes, touch the FLAME Zone to enter Flame-A Adjustment, then press the UP or DOWN buttons to raise and lower the flame; press the MODE/SET Button or wait for 15 seconds to accept the new setting.
- LCD Display: When setting the Flame-A height, the Flame-Aicon, and Flame-A setting number will flash in the FLAME Zone.

#### Child-Lock Operation

- Child-Lock operation prevents any user input to the transmitter. No mode of operation or feature may be adjusted when Child-Lock is activated. <u>All automatic</u> <u>functions (thermostat, program, etc.) will</u> <u>continue normally</u>.
- To activate or deactivate the Child-Lock feature, press and hold the MODE/SET and DOWN Buttons simultaneously for 5 seconds.
- LCD Displays:
- When activated, the LOCK icon will appear in the MODE Zone.
- If any touch-zone or button is pressed when activated, the LCD backlight will illuminate and the LOCK icon will flash for 5 seconds in the MODE Zone.

#### Room Temperature Limit

 The Room Temperature Limit Shutdown feature will operate in MANUAL ON, THERMOSTAT ON mode, and PROGRAM ON modes. If the room temperature reaches 95 deg. F or greater, the transmitter will automatically change to MANUAL OFF mode and send a MANUAL OFF command to the control module. If the user turns the control back ON and the room temperature is still 95F or greater, the transmitter will switch to back manual OFF and send another OFF command the next time the transmitter reads & updates the room temperature (2-minute update interval).

#### PAIRING

The remote and receiver are paired at the factory but in case they do not communicate after proving the batteries are fresh, repairing may be necessary. Follow the steps below to repair the remote to the receiver.

It is helpful to have a flashlight so you can see the connections as described below. Before proceeding, locate the S1 button on the receiver shown in the figure below. You will need to access this button during the re-pairing procedure and only have 20 seconds to press and release it.

To enter pairing mode press and hold the MODE/SET Button for 10-seconds.

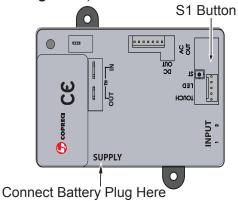
- Transmitter will transmit a pairing signal for 20-seconds, then automatically exit pairing mode and return to normal operation.
- LCD Displays When pairing mode is activated:
  - 1. MODE Zone: Blank
  - 2. ROOM TEMP Zone: The letters "On" will flash.
  - 3. SET TEMP Zone: The letter "P" is displayed
  - 4. TIME/PROG Zone: Blank
  - 5. FLAME Zone: Blank

#### **Receiver Operation**

**NOTE:** Once transmitter is in pairing mode, press the yellow or black pairing button on the receiver.

# **TOUCH PAD OPERATION**

This touch control has only 3 buttons for controlling manually the flame of the appliance (see *Figure 42*).



**Control Module** 

The touch pad has:

- 1. Led display
- 2. ON/OFF button
- 3. UP button
- 4. DOWN button

With this control it is possible to turn on the fire, turn off the fire and control the flame level.

**NOTE:** The touch pad includes a red LED display light. If the LED remains on, the black plug is connected upside down. Unplug, turn over, and reconnect.

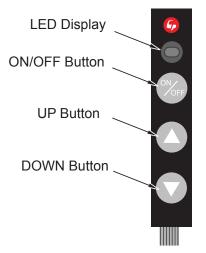


Figure 42 - Touch Pad Control

# SWITCHING ON

To turn the system on just press the ON/OFF button. The system will emit a beep and begin the ignition process, which can take about 20 seconds. Once the start up process is complete, the pilot flame is lit.

# **REGULATING THE FLAME LEVEL.**

 To increase the flame level, press the up button (▲). A beep and a flash of

- 1. the LED indicate that the system has accepted the order, and the flame will increase instantly (see *Figure 42*).
- To decrease the flame level, press the down button (♥). A beep and a flash of the LED indicate that the system has accepted the order, and the flame will decrease instantly (see Figure 42).

#### SWITCHING OFF

To switch off the fire, the ON/OFF button should be pressed. After the system has emitted a beep, the fire switches off.

WARNING: Do not convert heater to use different fuel type. Only use heater with fuel type specified.

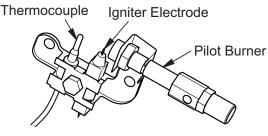


Figure 43 - Pilot (Natural)

# **INSPECTING BURNERS**

Check pilot flame pattern and burner flame patterns often.

# PILOT FLAME PATTERN

*Figure 44, Page 30* shows a correct pilot flame pattern. *Figure 45, Page 30* shows an incorrect pilot flame pattern. The incorrect pilot flame is not touching the thermocouple. This will cause the thermocouple to cool. When the thermocouple cools, the heater will shut down. If pilot flame pattern is incorrect, as shown in

#### Figure 45, Page 30.

- turn heater off (see <u>To Turn Off Gas to Appliance</u>, **Page 23**
- see Troubleshooting, Page 33

**NOTE**: The pilot flame on natural gas units will have a slight curve, but flame should be blue and have no yellow or orange color.

# **INSPECTING BURNERS**

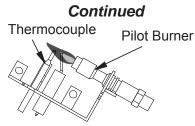


Figure 44 - Correct Pilot Flame Pattern (Your pilot may vary from pilots shown)

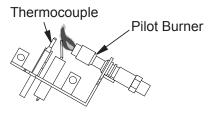


Figure 45 - Incorrect Pilot Flame Pattern (Your pilot may vary from pilots shown)

# **BURNER FLAME PATTERN**

*Figure 46*, shows correct burner flame pattern. *Figure 47*, shows incorrect burner flame pattern.

WARNING: If incorrect burner flame occurs, your heater could produce increased levels of carbon monoxide.

NOTICE: Do not mistake orange flames with yellow tipping. Dirt or other fine particles are burned by heater, causing brief patches of orange flame.

If burner flame pattern is incorrect, as shown in *Figure 47*.

- turn heater off (<u>see To Turn Off Gas to Appliance</u>, Page 23).
- see <u>Troubleshooting</u>, Page 33

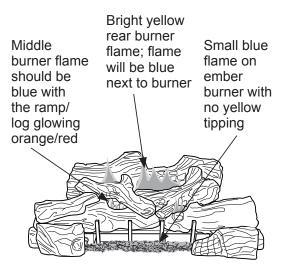


Figure 46 - Correct Burner Flame Pattern

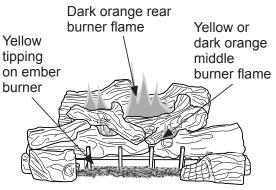


Figure 47 - Incorrect Burner Flame Pattern

# CLEANING AND MAINTENANCE

WARNING: Turn off heater and let cool before cleaning.

CAUTION: You must keep control areas, burners and circulating air passageways of heater clean. Inspect these areas of heater before each use. Have heater inspected yearly by a qualified service person. Heater may need more frequent cleaning due to excessive lint from carpeting, pet hair, bedding material, etc.

WARNING: Failure to keep the primary air opening(s) of the burner(s) clean may result in sooting and property damage.

# CLEANING AND MAINTENANCE Continued

#### BURNER ORIFICE HOLDER AND PILOT AIR INLET HOLE

The primary air inlet holes allow the proper amount of air to mix with the gas. This provides a clean burning flame. Keep these holes clear of dust, dirt, lint and pet hair. Clean these air inlet holes prior to each heating season. Blocked air holes will create soot. We recommend that you clean the unit every three months during operation and have heater inspected yearly by a qualified service person. We also recommend that you keep the burner tube and pilot assembly clean and free of dust and dirt. To clean these parts we recommend using compressed air no greater than 30 PSI. Your local computer store, hardware store or home center may carry compressed air in a can. If using compressed air in a can, please follow the directions on the can. If you don't follow directions on the can, you could damage the pilot assembly.

- 1. Shut off unit, including pilot. Allow unit to cool for at least thirty minutes.
- Inspect burner, pilot and primary air inlet holes on orifice holder for dust and dirt (see *Figure 48*).
- 3. Blow air through the ports/slots and holes in the burner.

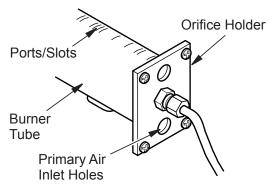


Figure 48 - Orifice Holder On Outlet Burner Tube

- 4. Check orifice holder located at the end of the burner tube again. Remove any large particles of dust, dirt, lint or pet hair with a soft cloth or vacuum cleaner nozzle.
- 5. Blow air into the primary air holes on the orifice holder.
- In case any large clumps of dust have now been pushed into the burner repeat steps 3 and 4.

Clean pilot assembly also. A yellow tip on the pilot flame indicates dust and dirt in the pilot assembly. There is a small pilot air inlet hole about 2" from where the pilot flame comes out of the pilot assembly (see **Figure 49**). With the unit off, lightly blow air through the air inlet hole. You may blow through a drinking straw if compressed air is not available.

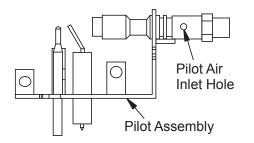


Figure 49 - Pilot Inlet Air Hole (Your pilot may vary from pilot shown)

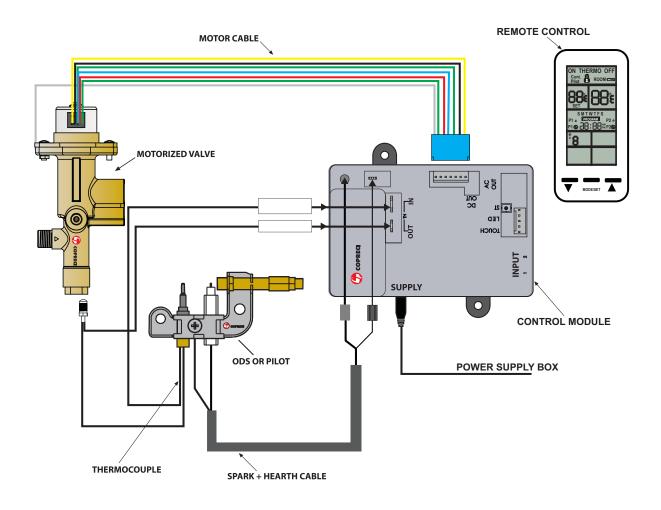
# LOGS

- If you remove logs for cleaning, refer to <u>In-</u> <u>stalling Logs</u>, **Page 17**, to properly replace logs.
- Replace log(s) if broken or chipped (dimesized or larger).

#### **MAIN BURNER**

Periodically inspect all burner flame holes with the heater running. All slotted burner flame holes should be open with yellow flame present. All round burner flame holes should be open with a small blue flame present. Some burner flame holes may become blocked by debris or rust, with no flame present. If so, turn off heater and let cool. Remove blockage, blocked burner flame holes will create soot.

# WIRING DIAGRAM



# **SPECIFICATIONS**

# BGE18PE

- Rating (Variable): 24,000/30,000 Btu/Hr
- Type Gas: Propane/LP
- Ignition: Electronic
- Manifold Pressure: 8" W.C.
- Inlet Gas Pressure (in. of water): Max - 14" W.C., Min\* - 11" W.C.

# BGE18NE

- Rating (Variable): 21,000/30,000 Btu/Hr
- Type Gas: Natural
- Ignition: Electronic
- Manifold Pressure: 4.5" W.C.
- Inlet Gas Pressure (in. of water): Max - 10.5" W.C., Min\* - 5" W.C.

# BGE2436PE

- Rating (Variable): 30,000/39,000 Btu/Hr
- Type Gas: Propane/LP
- Ignition: Electronic
- Manifold Pressure: 8" W.C.
- Inlet Gas Pressure (in. of water): Max - 14" W.C., Min\* - 11" W.C.

# BGE2436NE

- Rating (Variable): 26,000/39,000 Btu/Hr
- Type Gas: Natural
- Ignition: Electronic
- Manifold Pressure: 4.5" W.C.
- Inlet Gas Pressure (in. of water): Max - 10.5" W.C., Min\* - 5" W.C.

\*For purpose of input adjustment

WARNING: Turn off heater and let cool before servicing. Only a qualified service person should service and repair heater.

# **A** CAUTION: Never use a wire, needle or similar object to clean ODS/pilot. This can damage ODS/pilot unit.

**NOTE**: All troubleshooting items are listed in order of operation.

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Either the remote or touch pad but- tons are pressed to start the burner ignition sequence and there is no function or response.	<ol> <li>Missing or weak batteries at power supply box or remote. Control module may beep 10 times or may not beep at all. LCD display may show "BATTERY ERROR".</li> </ol>	<ol> <li>Check batteries and replace if needed. (Batteries in the power supply box can be tested with a multimeter at the two connec- tions at the back of the battery housing where the red and black wires are connected. Set the multimeter to DC voltage, initi- ate the ignition sequence, and observe the voltage while the system is lighting (under load). The system will not function under 3.8 volts and batteries should be replaced if the voltage is under 4.0 volts.)</li> </ol>
	2. Unplugged power supply (bat- tery) box	2. Plug power supply box to module see <i>Page 16</i> .
	3. Touch pad not plugged in to module or plugged in incorrectly	3. Plug touch pad in module see <i>Page 16, Figure 19</i> . Check to see it is positioned as shown.
	<ol> <li>Control valve wiring harness not plugged in or not in proper position</li> </ol>	4. Check to see that the control valve wiring harness' blue connector is plugged in to the module. Check to see that it is aligned with the mating pins. If any pins are visible, then the connector is not in the correct position. If this is the case, disconnect, align, and reconnect to the module.
	5. Remote not communicating with control module	5. (The remote communicates with the module periodically. It doesn't communicate with the module continuously to conserve battery power.)

Continued

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Either the remote or touch pad but- tons are pressed to start the burner ignition sequence and there is no function or response. (Continued	6. LED is blinking	<ol> <li>This indicates the battery power is low. Replace the batteries in the power supply box.</li> </ol>
from Page 33).	7. Igniter cable is not connected	<ol> <li>Check the igniter connection at both the control module and the ods pilot. Connect if loose.</li> </ol>
	8. Igniter cable pinched or wet	<ol> <li>Free igniter cable if pinched by any metal or tubing. Keep igniter cable dry.</li> </ol>
	9. Broken Igniter cable.	<ol> <li>Replace wire harness including igniter cable.</li> </ol>
	10. Igniter electrode positioned wrong.	10. Replace ods pilot assembly.
	11. Igniter electrode broken.	11. Replace ods pilot assembly.
	12. Control module sounds 2 cycles of 3 beeps; LCD display may show ROM ERROR	12. Replace control module
	13. Control module sounds 2 cycles of 5 beeps; LCD display may show SUPPORT ERROR	13. Ground cable from control valve wiring harness is not ground- ing properly. Reposition spade terminal so that it makes contact with burner chassis metal or valve body.
	14. Bad reception from remote	14. Change batteries in remote. Check reception of signal from a shorter distance. If still not working, try changing the chan- nel in the configuration menu. If this does not fix the problem, reset the channel (see <b>Page 25</b> <i>Channel Selection</i> ) and follow the instructions in Pairing on <b>Page 28</b> . Replace remote and control module as a final action.
	15. If LED on touch pad is continu- ously on, the cable is connected the wrong way.	15. Disconnect the touch pad be- tween the long and short cables, turn the short cable with the touch pad over and reconnect.
	16. The control module sounds 2 cycles of 5 beeps. The wiring assembly from the control valve is disconnected or broken.	16. Connect the wiring harness at the control module. Replace the valve assembly if all other cause/remedies fail to correct his problem.

Continued

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
When igniter button is pressed on the remote or touch pad, the pilot sparks but there is no ignition.	1. Gas supply turned off or equip- ment shutoff valve closed	<ol> <li>Turn on gas supply or open equipment shutoff valve.</li> </ol>
	2. Air in gas lines.	2. Continue turning the burner sys- tem ON and OFF. Repeat igniting operation until air is removed. On first time ignitions, air in the lines is common and it is not uncommon to repeat the ignition sequence 10 to 15 times before enough gas is at the ods pilot for it to light.
	3. Thermocouple circuit between the control valve and the control module is open.	3. Check the thermocouple con- nection at the control valve and also at the control module. The thermocouple connection at the control valve should be hand tight plus 1/4 to 1/2 turn. You should not be able to loosen the thermocouple at the control valve with your hand. Check the ther- mocouple terminal connection at the control module. If it is loose, remove it with needle nose pliers, using the pliers, slightly close the terminal's opening and reinstall on to the control module.
	4. No gas to the ods pilot	4. While the pilot is sparking, check for gas flow at the ods pilot. If flow is present, try to light the pilot with a long reach lighter. If it will not light but the flame is disturbed, air is in the line. Cycle through the ignition sequence to clear the line of air until gas is present. If no flow is present at the gas valve, check to see all shut off valves are open. Verify proper pressure is supplied to the valve. Excessive pressure can lock out the appliance's regulator. Also check to see that the wiring harness from the control valve is properly connected at the control module. The wiring harness con- nection housing can be identified by it's blue connector housing.
	5. Depleted gas supply (propane/ LP only)	5. Contact local propane/LP gas company.
	<ol> <li>Valve cable is disconnected or broken.</li> </ol>	6. Connect valve cable correctly
	7. ODS pilot is clogged	<ol> <li>Clean ods pilot (see Cleaning and Maintenance, Page 30) or replace ods pilot assembly.</li> </ol>
	8. Gas regulator setting is not cor- rect	8. Replace gas regulator

Continued

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
ODS pilot lights but pilot flame goes out before burners light.	1. Equipment shutoff valve not fully open	1. Fully open equipment shutoff valve.
	<ol> <li>Missing or weak batteries at power supply box or remote.</li> </ol>	2. Check batteries and replace if needed. (Batteries in the power supply box can be tested with a multimeter at the two connec- tions at the back of the battery housing where the red and black wires are connected. Set the multimeter to DC voltage, initi- ate the ignition sequence, and observe the voltage while the system is lighting (under load). The system will not function under 3.8 volts and batteries should be replaced if the voltage is under 4.0 volts.).
	<ol> <li>Thermocouple circuit between the ods pilot and control module is loose or damaged.</li> </ol>	3. Check thermocouple terminal connection at the control module. If it is loose, remove it with needle nose pliers, using the pliers, slightly close the terminal's opening and reinstall on to the control module.
	<ul> <li>4. Pilot flame not touching thermocouple, which allows thermocouple to cool, causing pilot flame to go out. This problem could be caused by one or both of the following:</li> <li>A) Low gas pressure or</li> <li>B)Dirty or partially clogged ODS pilot.</li> </ul>	<ul> <li>4. A) Contact local natural or propane/LP gas company.</li> <li>B) Clean ODS pilot (see Cleaning and Maintenance, Page 30) or replace ODS pilot assembly.</li> </ul>
	5. Thermocouple damaged	5. Replace ods pilot assembly.
	6. Control valve damaged.	6. Replace control valve
Burner system lights from remote but not from touch pad	1. Touch pad cable disconnected or broken	1. Connect or replace touch pad and cable.
	2. Defective touch pad	2. Replace touch pad
Burner system does not ignite the burner while the remote is in the program mode.	<ol> <li>Program mode does not work if soft start is deactivated.</li> </ol>	1. Activate soft start in the remote.
Burner system shuts off after operat- ing 6 seconds then sounds 5 beeps.	1. Short in touch pad wiring.	<ol> <li>Replace touch pad and wiring harness.</li> </ol>
Low battery power in remote.	<ol> <li>Batteries are weak. LOW BAT- TERY is shown in remote dis- play.</li> </ol>	1. Replace batteries in remote.

# TROUBLESHOOTING

Continued

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Burner system shuts off. Control module sounds 2 cycles of 3 beeps.	1. Faulty control module	1. Replace control module.
Burner system shuts off. Control module sounds 2 cycles of 3 beeps.	1. Remote and control module not communicating properly	<ol> <li>Follow Pairing instructions on <i>Page 28</i> to re-pair remote to control module.</li> </ol>
	2. Faulty control module	2. Replace control module
Burner system shuts off. Control module sounds 20 beeps.	<ol> <li>Loss of communication between control module and remote after 18 minutes.</li> </ol>	1. Either the remote is too far from the burner system or the remote needs new batteries. The remote should work within 20 feet of the burner system. If it does not, re- place the batteries in the remote and battery supply box.
Burner system shuts off. Control module sounds 1 long beep.	1. Control module is too hot	<ol> <li>Check to see the fireplace size meets the minimum require- ments. Call technical service.</li> </ol>
Burner systems shuts off.	<ol> <li>The SAFETY temperature set- ting in the remote has shut the burner system off.</li> </ol>	<ol> <li>The remote includes a shut off that is preset at 40C (104F). If the remote is placed in a location that is at or above this temperature it will shut the burner system off. Placing the remote on a mantel may result in this problem. If it occurs, relocate the remote to a cooler location.</li> </ol>
Burner system lights or shuts off without touching the remote.	<ol> <li>More than one burner system is present and operating on the same frequency.</li> </ol>	<ol> <li>Follow Pairing instructions on <i>Page 28</i> to re-pair remote to control module.</li> </ol>

# TROUBLESHOOTING

Continued

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Burners do not light after ODS/ pilot is lit	1. Inlet gas pressure is too low	1. Contact local natural or propane/ LP gas company
	2. Burner orifice(s) clogged	<ol> <li>Clean burner(s) (see <u>Cleaning</u> <u>and Maintenance</u>, <b>Page 30</b>) or replace burner orifice(s)</li> </ol>
	3. Mislocated crossover tube	3. Contact qualified service person
Delayed ignition of one or both burners	1. Manifold pressure is too low	1. Contact local natural or propane/ LP gas company
	2. Burner orifice(s) clogged	<ol> <li>Clean burner(s) (see <u>Cleaning</u> <u>and Maintenance</u>, <b>Page 30</b>) or replace burner orifice(s)</li> </ol>
	3. Mislocated crossover tube	3. Contact qualified service person
Burner backfiring during combustion	1. Burner orifice is clogged or dam- aged	<ol> <li>Clean burner (see <u>Cleaning</u> <u>and Maintenance</u>, <b>Page 30</b>) or replace burner orifice</li> </ol>
	2. Damaged burner	2. Replace damaged burner
	3. Gas regulator defective	3. Replace gas regulator
Yellow flame in middle burner during burner combustion	1. Not enough air	<ol> <li>Check burner(s) for dirt and debris. If found, clean burner(s) (see <u>Cleaning and Maintenance</u>, Page 30)</li> </ol>
	2. Gas regulator defective	2. Replace gas regulator
Slight smoke or odor during initial operation	1. Residues from manufacturing processes and logs curing	1. Problem will stop after a few hours of operation
Heater produces a whistling noise when burners are lit	1. Set the unit to HI by using the remote when burners are cold	<ol> <li>Set the unit to LO by using the remote and let warm up for a minute</li> </ol>
	2. Air in gas line	2. Operate burners until air is removed from line. Have gas line checked by local natural or propane/LP gas company
	3. Air passageways on heater blocked	3. Observe minimum installation clearances (see <b>Pages 9-12</b> )
	<ol> <li>Dirty or partially clogged burner orifice(s)</li> </ol>	<ol> <li>Clean burners (see <u>Cleaning and</u> <u>Maintenance</u>, <b>Page 3</b>) or replace burner orifice(s)</li> </ol>
White powder residue forming within burner box or on adjacent walls or furniture	<ol> <li>When heated, vapors from furni- ture polish, wax, carpet cleaners, etc. may turn into white powder residue</li> </ol>	<ol> <li>Turn heater off when using furni- ture polish, wax, carpet cleaners or similar products</li> </ol>
Moisture/condensation noticed on windows	1. Not enough combustion/ventila- tion air	1. Refer to <u>Air for Combustion and</u> <u>Ventilation</u> requirements ( <b>Page 6</b> )
Heater produces a clicking/ticking noise just after burners are lit or shut off	1. Metal expanding while heating or contracting while cooling	1. This is normal with most heaters. If noise is excessive, contact qualified service person

# TROUBLESHOOTING

# Continued

# **WARNING:** If you smell gas

- Shut off gas supply.
- 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 your gas supplier, call the fire department.

**IMPORTANT**: Operating heater where impurities in air exist may create odors. Cleaning supplies, paint, paint remover, cigarette smoke, cements and glues, new carpet or textiles, etc., create fumes. These fumes may mix with combustion air and create odors. These odors will disappear over time.

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Heater produces unwanted odors	1. Heater burning vapors from paint, hair spray, glues, cleaners, chemicals, new carpet, etc. (See <i>IMPORTANT</i> statement above)	<ol> <li>Open window to ventilate room. Stop using odor causing prod- ucts while heater is running</li> </ol>
	<ol> <li>Low fuel supply (propane/LP only)</li> </ol>	<ol> <li>Refill supply tank (propane/LP only)</li> </ol>
	3. Gas leak. See Warning state- ment at top of page	<ol> <li>Locate and correct all leaks (see <u>Checking Gas Connections</u>, <b>Page 15</b>)</li> </ol>
Heater shuts off in use (ODS operates)	1. Not enough fresh air is available	1. Open window and/or door for ventilation
	2. Low line pressure	<ol> <li>Contact local natural or propane/ LP gas company</li> </ol>
	3. ODS/pilot is partially clogged	<ol> <li>Clean ODS/pilot (see <u>Cleaning</u> <u>and Maintenance</u>, <b>Page 30</b>)</li> </ol>
Gas odor even when control knob is in OFF position	1. Gas leak. See Warning state- ment at top of page	<ol> <li>Locate and correct all leaks (see <u>Checking Gas Connections</u>, <b>Page 15</b>)</li> </ol>
	2. Control valve or gas control defective	2. Replace control valve or gas control
Gas odor during combustion	1. Foreign matter between control valve and burner	1. Take apart gas tubing and re- move foreign matter
	2. Gas leak. See Warning state- ment at top of page	<ol> <li>Locate and correct all leaks (see <u>Checking Gas Connections</u>, <b>Page 15</b>)</li> </ol>
Log set cycles to pilot, but room tem- perature drops to a lower than ideal level before log set comes back on	1. Optional Hand-held remote control is too close to heater	1. Move hand-held remote control unit farther away from the heater

# **REPLACEMENT PARTS**

See *Pages 41-45* for a complete replacement parts list. Use only parts supplied from the manufacturer.

Normally, all parts should be ordered through your IHP distributor or dealer. Parts will be shipped at prevailing prices at time of order.

When ordering repair parts, always give the following information:

# SERVICE HINTS

### When Gas Pressure Is Too Low

- pilot will not stay lit
- burners will have delayed ignition
- · appliance will not produce specified heat
- propane/LP gas supply may be low

You may feel your gas pressure is too low. If so, contact your local propane/LP or natural gas supplier.

- 1. The model number of the appliance.
- 2. The serial number of the appliance.
- 3. The part number.
- 4. The description of the part.
- 5. The quantity required.
- 6. The installation date of the appliance.

If you encounter any problems or have any questions concerning the installation or application of this appliance, please contact your dealer.

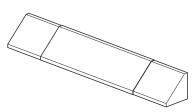
# **TECHNICAL SERVICE**

You may have further questions about installation, operation, or troubleshooting. Please contact your IHP dealer for any questions or concerns. When contacting your dealer please have your model and serial numbers of your appliance ready. You can also visit our web site at SuperiorFireplaces.US.com.

# ACCESSORIES

Purchase these appliance accessories from your local dealer. If they can not supply these accessories, contact IHP at SuperiorFireplaces.US.com for referral information. You can also write to the address listed on the back page of this manual.

Only kits supplied by IHP shall be used in the installation of this appliance. Use of non-approved accessory/part kit(s) can result in poor performance and safety hazards.



# FIREPLACE HOOD, BLACK Cat. No. F1764, Model GA6050

**For all models.** Helps deflect heat away from mantel or wall above fireplace. Fits openings 28" to 48" wide.

## **VOLCANIC STONE**

### Cat. No. 80L42, Model FDVS

For all models. Order when additional volcanic stone is desired.

# VENT-FREE VCT AND VRT SERIES FIREBOXES

Available in 32", 36" and 42" models. Flush face and Louver models available with and without brick.

## **FLOOR MEDIA KIT**

Cat. No. F1762, Model FM100

For all models. Includes volcanic stone, burner embers, and burner cinders

# DECORATIVE ASH BED / CONTROL COVER KIT

Cat. No. F0246, Model CDABKA

LOG SCRAPS / FLOOR MEDIA KIT-1 Cat. No. F0250, Model VTA-LS5-1

# LOG SCRAPS / FLOOR MEDIA KIT-2 Cat. No. F0251, Model VTA-LS5-2

# EMBER KITS

Platinum Embers Cat. No J6207

Glowing Embers (rockwool) Cat. No J6208

# REMOTE-READY CONTROL MODELS BGE18NE, BGE18PE, BGE2436NE, BGE2436PE

28 $29$ $7$ $6$ $4$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$
11 10 Cat. No. Description
BGE18NE 18" N Electronic Ramp Burner With Embers
BGE18PE 18" P Electronic Ramp Burner With Embers
BGE2436NE 24" N Electronic Ramp Burner With Embers
BGE2436PE 24" P Electronic Ramp Burner With Embers

		PARTS AVA		SHOWN =			
KEY							-
NO.	PART NO.	DESCRIPTION	BGE18NE	BGE18PE	BGE2436NE	BGE2436PE	QTY.
	J5519	Flex Tube	•	•	•	•	1
	J3658	Warning Plate	•	•	•	•	1
	J6585	Lighting Instruction Plate	•	•	•	•	1
	J3664	Caution Decal	•	•	•	•	1
	J3689	Hardware Kit	•	•	•	•	1
	80L42	Volcanic Stone, FDVS	•	•	•	•	1
	J6504	Left Ember Chunk #1			•	•	1
	J6505	Middle Ember Chunk #2			•	•	1
	J6506	Right Ember Chunk #3			•	•	1
	J6207	Platinum Embers	•	•	•	•	1
	J6208	Glowing Embers (rockwool)	•	•	•	•	1
	J7675	Control, Remote Skytech	•	•	•	•	1
	J5535	Bracket, Left Log Support			•	•	1
	J6490	Bracket, Right Log Support			•	•	1
	J6584	Harness, Pilot Igniter	•	•	•	•	1
	J6586	Screw, Min. Rate	•				1
	**	Screw, Min. Rate		•			1
	**	Screw, Min. Rate			•		1
	J6587	Screw, Min. Rate				•	1
	J6580	Supply, Battery Power	•	•	•	•	1
	J6674	Touch Pad Manual Control	•	•	•	•	1
	J6675	Touch Pad Wire Harness	•	•	•	•	1
** ** *	Not a field rankaaabla nart						

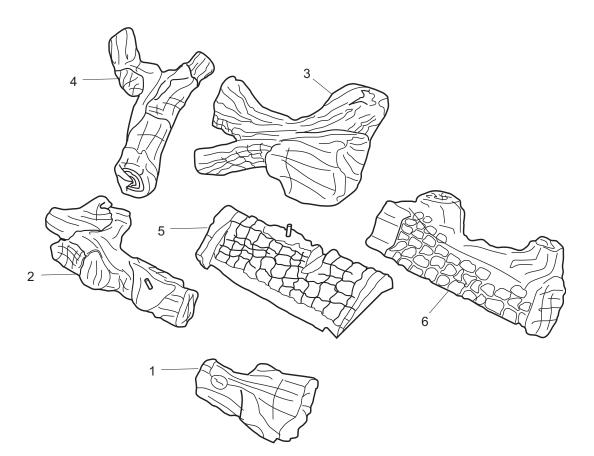
\*\* Not a field replaceable part.

This list contains replaceable parts used in your appliance. When ordering parts, follow the instructions listed under <u>*Replacement Parts*</u> on *Page 40* of this manual.

KEY							
NO.	PART NO.	DESCRIPTION	BGE18NE	BGE18PE	BGE2436NE	BGE2436PE	QTY.
1	J6685	Electronic Valve Kit	•		•		1
	J6688	Electronic Valve Kit		•		•	1
2	F3184	Bracket, Valve		•	•	•	1
3	J8075	Fitting, Tube .375125 NPTF	•	•	•	•	1
4	J6599	Tube, Orifice to Valve			•	•	2
5	J6598	Tube, Regulator to Valve	•	•	•	•	1
6	J3562	Connector, Male 3/8 NPTF	•	•	•	•	1
7	J3653	Regulator, Gas LP.		•		•	1
	J7603	Regulator, Gas NG.	•		•	•	1
8	J4886	Shutter, Air	•	•	•	•	1
9	J5416	Tube, Venturi	•	•	•	•	1
10	J5456	Gasket, Burner	•	•	•	•	1
11	J6397	Bracket, Pan Burner Support	•	•	•	•	2
12	J6398	Assy, Pan Burner BGE2436			•	•	1
	J6399	Assy, Pan Burner BGE18	•	•			1
13	J4725	Orifice, Elbow P53 95 110	•			•	1
	J4723	Orifice, Elbow P53 95 220	-		•	2	1
	J8079	Orifice, 0.028 (PAN)		•			1
14	J6127	Orifice, Holder 90° Elbow		•			1
15	J6581	Module, Control Board	•	•	•	•	1
16	10004	<b>T D</b>					
17	J3634	Tube, Pilot	•	•	٠	•	1
18	J6582	Pilot, Electric (NG)	•		•		1
	J6583	Pilot, Electric (LP)		•		•	1
19	F3142	Bracket, Pilot	•		-	7	1
	F2938	Bracket, Pilot		•	•	*	1
	F2939	Bracket, Pilot				•	1
20	RP125489-01	Shield, Air 18" BGE	•	•			1
	RP125489-02	Shield, Air 24/30/36" BGE			•	•	1
21	J4818	Burner 18" Ramp Front	•	•			1
	J4819	Burner 24/30" Ramp Front			•	•	1
22	J4820	Burner 18" Ramp Rear	•	•			1
	J4821	Burner 24/30" Ramp Rear			•	•	
23	J4038	Plate, Gas (NG only)	•		•		1
24	J5665	Bracket, Air Shield				•	1
25	J3675	Injector (.0453) Rear Burner	-			•	1
	J3676	Injector (.067) Rear Burner			•	-	1
	J3677	Injector (.0595)) Rear Burner	•				1
	F3137	Injector (.042) Rear Burner		•			1
26	F3185	Tube, Inlet	•	•			1
27	J3671	Injector (.0750) Middle Burner	•			7	1
	J3672	Injector (.053) Middle Burner				•	1
	J3679	Injector (.047) Middle Burner		•		-	1
20	F2933	Injector (.085) Middle Burner			•		1
28	K2014	Control Module Heat Shield	•	•	•	•	1
29	J5918	Aluminum Spacers	•	•	•	•	2
30	J6508	Pilot Shield		•		•	1
		1					

# LOG MODELS LBG18SM, LBG24SM, LBG30SM (SMOKEY MOUNTAIN)

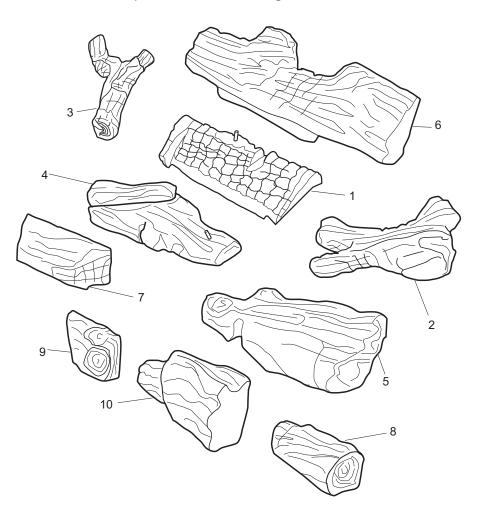
This list contains replaceable parts used in your appliance. When ordering parts, follow the instructions listed under <u>*Replacement Parts*</u> on *Page 40* of this manual.



KEY	MODEL NUMBER				
NO.	LBG18SM	LBG24SM	LBG30SM	DESCRIPTION	QTY
1	J5708	J5714	J5720	Front Right Log	1
2	J5707	J5713	J5719	Front Left Log	1
3	J5705	J6554	J6554	Middle Right Log	1
4	J5706	J5712	J5718	Middle Left Log	1
5	J5704	J5716	J5716	Bottom Log (Remote)	1
6	J5716	J5715	J5721	Rear Log	1

# LOG MODELS

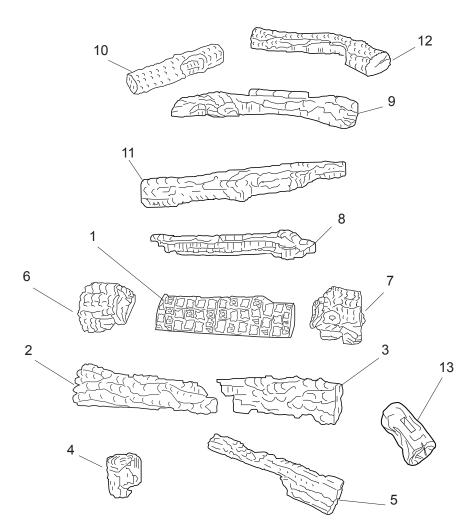
LBG36SM (SMOKEY MOUNTAIN) This list contains replaceable parts used in your appliance. When ordering parts, follow the instructions listed under <u>Replacement Parts</u> on **Page 40** of this manual.



KEY NO.	MODEL NUMBER LBG36SM	DESCRIPTION	QTY
1	J5716	Bottom Log	1
2	J6554	Middle Right Log	1
3	J5718	Middle Left Log	1
4	J5722	Front Left Log	1
5	J5723	Front Right Log	1
6	J5724	Back Log	1
7	J5725	Left Small Front Log	1
8	J5726	Right Small Front Log	1
9	J5727	Left Control Cover Log	1
10	J5728	Right Control Cover Log	1

# LOG MODELS LBG18BM, LBG24BM, LBG30BM (BOULDER MOUNTAIN)

This list contains replaceable parts used in your appliance. When ordering parts, follow the instructions listed under <u>*Replacement Parts*</u> on *Page 40* of this manual.



KEY	P		R		
NO.	LBG18BM	LBG24BM	LBG30BM	DESCRIPTION	QTY
1	J6631	J6641	J6641	Log, Ramp	1
2	J6632	J6642	J6652	Log, Left Front	1
3	J6633	J6643	J6653	Log, Right Front	1
4	J6634	J6644	J6644	Log, Left Front Ember Bed	1
5	J6635	J6645	J6645	Log, Right Front Ember Bed	1
6	F2943	J6646	J6646	Log, Left Middle	1
7	F2944	K2008	K2008	Log, Right Middle	1
8	J6636	J6647	J6647	Log, Rear Middle	1
9	J7518	J6648	J6648	Log, Rear	1
10	J6637	J6637	J6637	Log, Left Top	1
11	J6638	J6650	J6650	Log, Middle Crossover	1
12	J6639	J6651	J6651	Log, Top Rear	1
13	J6640	J6640	J6640	Log, Switch	1

NOTES

# Innovative Hearth Products Superior<sup>®</sup> Brand Gas Log Set Limited Three Year Warranty

#### THE WARRANTY

Innovative Hearth Products Limited Three Year Warranty ("IHP") warrants your Superior® brand Gas Log Set ("Product") to be free from defects in materials and workmanship at the time of manufacture. The logs and grate carry the Limited Three Year Warranty. After installation, if covered components manufactured by IHP are found to be defective in materials or workmanship during the Limited Three Year Warranty period and while the Product remains at the site of the original installation, IHP will, at its option, repair or replace the covered components. If repair or replacement is not commercially practical, IHP will, at its option, refund the purchase price or wholesale price of the IHP product, whichever is applicable. IHP will also pay IHP prevailing labor rates, as determined in its sole discretion, incurred in repairing or replacing such components. THERE ARE EXCLUSIONS AND LIMITATIONS to this Limited Three Year Warranty as described herein.

#### **COVERAGE COMMENCEMENT DATE**

Warranty coverage begins on the date of purchase. In the case of new home construction, warranty coverage begins on the date of first occupancy of the dwelling or six months after the sale of the Product by an independent IHP dealer, whichever occurs earlier. The warranty shall commence no later than 24 months following the date of product shipment from IHP, regardless of the installation or occupancy date.

#### **EXCLUSIONS AND LIMITATIONS**

This Limited Three Year Warranty applies only if the Product is installed in the United States or Canada and only if operated and maintained in accordance with the printed instructions accompanying the Product and in compliance with all applicable installation and building codes and good trade practices.

This warranty is non-transferable and extends to the original owner only. The Product must be purchased through a listed supplier of IHP and proof of purchase must be provided. The following do not carry the Limited Three Year Warranty but are warranted as follows:

Gas components – Repair or replacement for one year from the date of installation. Remote control – Repair or replacement for one year from the date of installation. Labor coverage – Prevailing IHP labor rates apply for the warranty period of the component.

#### Parts not otherwise listed carry a 90 day warranty from the date of installation.

#### Whenever practicable, IHP will provide replacement parts, if available, for a period of 10 years from the last date of manufacture of the product.

IHP will not be responsible for: (a) damages caused by normal wear and tear, accident, riot, fire, flood or acts of God; (b) damages caused by abuse, negligence, misuse, or unauthorized alteration or repair of the Product affecting its stability or performance (The Product must be subjected to normal use. The Product is designed to burn either natural or propane gas only. Burning conventional fuels such as wood, coal or any other solid fuel will cause damage to the Product, will produce excessive temperatures and could result in a fire hazard.); (c) damages caused by failing to provide proper maintenance and service in accordance with the instructions provided with the Product; (d) damages, repairs or inefficiency resulting from faulty installation or application of the Product.

This Limited Three Year Warranty covers only parts and labor as provided herein. In no case shall IHP be responsible for materials, components or construction which are not manufactured or supplied by IHP or for the labor necessary to install, repair or remove such materials, components or construction. Additional utility bills incurred due to any malfunction or defect in equipment are not covered by this warranty. All replacement or repair components will be shipped F.O.B. from the nearest stocking IHP factory.

#### LIMITATION ON LIABILITY

It is expressly agreed and understood that IHP's sole obligation and the purchaser's exclusive remedy under this warranty, under any other warranty, expressed or implied, or in contract, tort or otherwise, shall be limited to replacement, repair, or refund, as specified herein.

In no event shall IHP be liable for any incidental or consequential damages caused by defects in the Product, whether such damage occurs or is discovered before or after replacement or repair, and whether such damage is caused by IHP's negligence. IHP has not made and does not make any representation or warranty of fitness for a particular use or purpose, and there is no implied condition of fitness for a particular use or purpose.

IHP makes no expressed warranties except as stated in this Limited Three Year Warranty. The duration of any implied warranty is limited to the duration of this expressed warranty.

No one is authorized to change this Limited Three Year Warranty or to create for IHP any other obligation or liability in connection with the Product. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. The provisions of this Limited Three Year Warranty are in addition to and not a modification of or subtraction from any statutory warranties and other rights and remedies provided by law.

#### INVESTIGATION OF CLAIMS AGAINST WARRANTY

IHP reserves the right to investigate any and all claims against this Limited Three Year Warranty and to decide, in its sole discretion, upon the method of settlement.

To receive the benefits and advantages described in this Limited Three Year Warranty, the appliance must be installed and repaired by a licensed contractor approved by IHP.

Contact IHP at the address provided herein to obtain a listing of approved dealers/distributors. IHP shall in no event be responsible for any warranty work done by a contractor that is not approved without first obtaining LHP's prior written consent.

#### HOW TO REGISTER A CLAIM AGAINST WARRANTY

In order for any claim under this warranty to be valid, you must contact the IHP dealer/distributor from which you purchased the product. If you cannot locate the dealer/ distributor, then you must notify IHP in writing. IHP must be notified of the claimed defect in writing within 90 days of the date of failure. Notices should be directed to the IHP Warranty Department at 1508 EIm Hill Pike, Suite 108; Nashville, TN 37210 or visit our website at WWW.SUPERIORFIREPLACES.US.COM.

### SuperiorFireplaces.US.com

Record the following important information about your appliance:

Appliance model number	
Appliance serial number	
Date appliance was Installed	
Type of gas appliance uses	
Dealer name	

IHP reserves the right to make changes at any time, without notice, in design, materials, specifications, prices and also to discontinue colors, styles and products. Consult your local distributor for fireplace code information.



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P/N 126829-01 REV. C 01/2019

Installation and Operation Instructions

# Unvented (Vent-Free) Gas Log Heater

PFS	R
	US

Report No. F09-100



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.

dels			
BGE18NR	BGE18PR	BGE2436NR	BGE2436PR
use with log sets			
use with log sets LBG18BM		LBG18SM	LBG36SM
-		LBG18SM LBG24SM	LBG36SM

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

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 gases.

WARNING: This appliance is for installation only in a solid-fuel burning masonry or UL127 factory-built fireplace or in a listed ventless firebox enclosure. It is design-certified for these installations in accordance with ANSI Z21.11.2. Exception: DO NOT install this appliance in a factory-built fireplace that includes instructions stating it has not been tested or should not be used with unvented gas logs.

This is an unvented gas-fired heater. It uses air (oxygen) from the room in which it is installed. Provisions for adequate combustion and ventilation air must be provided. Refer to <u>Air for Combustion and Ventilation</u> section on *Page 6* of this manual.

# **WARNING**:

FIRE OR EXPLOSION HAZARD Failure to follow safety warnings exactly could result in serious injury, death, or property damage.

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

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# SAFETY

### A WARNING: FIRE, EXPLOSION, AND ASPHYXIATION HAZARD

Improper adjustment, alteration, service, maintenance, or installation of this heater or its controls can cause death or serious injury.

Read and follow instructions and precautions in User's Information Manual provided with this heater.

WARNING: This appliance is for installation only in a solid-fuel burning masonry or UL127 factory-built fireplace or in a listed ventless firebox enclosure. It is design-certified for these installations in accordance with ANSI Z21.11.2. Exception: DO NOT install this appliance in a factory-built fireplace that includes instructions stating it has not been tested or should not be used with unvented gas logs.

WARNING: Vent-free products are prohibited for bedroom and bathroom installation in the Commonwealth of Massachusetts.

WARNING: This product can expose you to chemicals including Carbon Black, which is known to the State of California to cause cancer, and Carbon Monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov WARNING: This is an unvented gas-fired heater. It uses air (oxygen) from the room in which it is installed. Provisions for adequate combustion and ventilation air must be provided. Refer to <u>Air for Combustion and</u> <u>Ventilation</u> section on Page 6 of this manual.

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 gases.

\* Aftermarket: Completion of sale, not for purpose of resale, from the manufacturer

**DANGER:** Carbon monoxide poisoning may lead to death!

### SAFETY Continued

IMPORTANT: Read this owner's manual carefully and completely before trying to assemble, operate or service this fireplace. Improper use of this fireplace can cause serious injury or death from burns, fire, explosion, electrical shock and carbon monoxide poisoning.

**Carbon Monoxide Poisoning:** Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness or nausea. If you have these signs, the fireplace may not be working properly. **Get fresh air at once!** Have fireplace serviced. Some people are more affected by carbon monoxide than others. These include pregnant women, people with heart or lung disease or anemia, those under the influence of alcohol and those at high altitudes. Natural and Propane/LP gases are odorless. An odor-making agent is added to these gases. The odor helps you detect a gas leak. However, the odor added to the gas can fade. Gas may be present even though no odor exists.

Make certain you read and understand all warnings. Keep this manual for reference. It is your guide to safe and proper operation of this fireplace.

WARNING: Any change to this heater or its controls can be dangerous.

WARNING: Do not use a blower insert, heat exchanger insert or other accessory not approved for use with this heater.

WARNING: Do not allow fans to blow directly into the fireplace. Avoid any drafts that alter burner flame patterns. Ceiling fans can create drafts that alter burner flame patterns. Altered burner patterns can cause sooting. WARNING: Do not place log scraps or volcanic stone on burner.

Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.

Do not place clothing or other flammable material on or near the appliance. Never place any objects on the heater.

Heater base assembly becomes very hot when running heater. Children and adults should be alerted to the hazard of high surface temperature and should stay away to avoid burns or clothing ignition. Heater will remain hot for a time after shutdown. Allow surface to cool before touching.

Young children should be carefully supervised when they are in the same room with the appliance. When using the hand-held remote accessory, keep selector switch in the OFF position to prevent children from turning on burners with remote.

You must operate this heater with the fireplace screen and hood in place. Make sure fireplace screen and hood are in place before running heater. The fireplace screen shall have openings for introduction of combustion air.

Keep the appliance area clear and free from combustible materials, gasoline and other flammable vapors and liquids.

Solid-fuels shall not be burned in a fireplace in which an unvented room heater is installed.

# SAFETY Continued

Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control compartments, burners, and circulating air passageways of the appliance be kept clean.

- WARNING: 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.
- Do not place propane/LP supply tank(s) inside any structure. Locate propane/ LP supply tank(s) outdoors (propane/LP units only).
- 3. If you smell gas
  - shut off gas supply
    - · 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 your gas supplier, call the fire department
- This heater shall not be installed in a bedroom or bathroom, unless installed as a vented appliance. See <u>Installing Damper Clamp Accessory for Vented Operation</u>, **Page 12**. This gas log set may not be installed as a vented appliance in a bedroom or bathroom in the Commonwealth of Massachusetts.
- 5. Before installing in a solid fuel burning fireplace, the chimney flue and firebox must be cleaned of soot, creosote, ashes and loose paint by a qualified chimney cleaner. Creosote will ignite if highly heated. A dirty chimney flue may create and distribute soot within the house. Inspect chimney flue for damage. If damaged, repair flue and firebox before operating heater.
- Do not burn solid-fuel in a masonry or UL127 factory-built fireplace in which a vent-free room heater is installed.
- 7. If fireplace has glass doors, never operate this heater with glass doors closed. Any

glass doors shall be fully opened when the appliance is in operation. If you operate heater with doors closed, heat buildup inside fireplace will cause glass to burst. Make sure there are no obstructions across openings of fireplace.

- To prevent the creation of soot, follow the instructions in <u>Cleaning and Maintenance</u>, Page 27.
- Before using furniture polish, wax, carpet cleaner or similar products, turn heater off. If heated, the vapors from these products may create a white powder residue within burner box or on adjacent walls and furniture.
- This heater needs fresh, outside air ventilation to run properly. This heater has an Oxygen Depletion Sensing (ODS) safety shutoff system. The ODS shuts down the heater if enough fresh air is not available. See <u>Air for Combustion and Ventilation</u>, Page 6. If heater keeps shutting off, see <u>Troubleshooting</u>, Page 29.
- 11. Do not run heater
  - where flammable liquids or vapors are used or stored
  - under dusty conditions
- 12. Do not use this heater to cook food or burn paper or other objects.
- 13. Do not use heater if any part has been exposed to or under water. Immediately call a qualified service technician to inspect the room heater and to replace any part of the control system and any gas control which has been under water.
- 14. Do not operate heater if any log is broken. Do not operate heater if a log is chipped (dime-sized or larger).
- 15. Turn heater off and let cool before servicing, installing or repairing. Make sure the selector switch is in the OFF position. Only a qualified service person should install, service or repair heater.
- 16. Make sure the selector switch is in the OFF position when you are away from home for long periods of time.
- 17. Remote-ready heaters must not be connected to any external electrical source.
- 18. Operating heater above elevations of 4,500 feet may cause pilot outage.
- To prevent performance problems, do not use propane/LP fuel tank of less than 100 lb. capacity (propane/LP units only).
- Provide adequate clearances around air openings.

### **PRODUCT IDENTIFICATION**

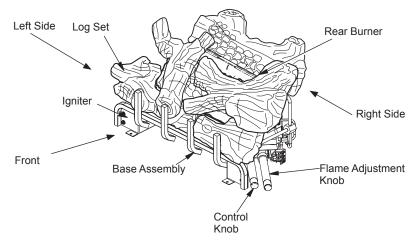


Figure 1 - Product Identification

# LOCAL CODES

Install and use appliance with care. Follow all local codes. In the absence of local codes, use the latest edition of *The National Fuel Gas Code, ANSI Z223.1/NFPA 54*\*.

\*Available from:

American National Standards Institute, Inc. 25 West 43rd Street, 4th floor New York, NY 10036 National Fire Protection Association, Inc. 1 Batterymarch Park Quincy, MA 02169-7471

### UNPACKING

1. Remove logs and appliance base assembly from carton(s).

**NOTE**: Do not pick up appliance base assembly by burners. This could damage the appliance. Always handle base assembly by grate.

- 2. Remove all protective packaging applied to logs and appliance for shipment.
- Check appliance for any shipping damage. If appliance is damaged, promptly inform dealer where you purchased the appliance.

**CAUTION:** Do not remove the data plates from the grate assembly. The data plates contain important warranty and safety information.

#### COMMONWEALTH OF MASSACHUSETTS REQUIREMENTS

These appliances are approved for installation in the US state of Massachusetts if the following additional requirements are met:

- Un-vented Room Heaters shall be installed in accordance with 527 CMR 30.
- Installation and repair must be done by a plumber or gas fitter licensed in the Commonwealth of Massachusetts.
- The flexible gas line connector used shall not exceed 36 inches (92 centimeters) in length.
- The individual manual shut-off must be a T-handle type valve.
- Unvented appliances may NOT be installed in bedrooms or bathrooms.
- A working smoke detector must be installed in the area where vent-free appliances are installed.

Seller of unvented propane or natural gas-fired supplemental room heaters shall provide to each purchaser a copy of 527 CMR 30 upon sale of the unit.

# **PRODUCT FEATURES**

#### OPERATION

This heater is clean burning. It requires no outside venting. There is no heat loss out a vent or up a chimney. Heat is generated by both realistic flames and glowing coals. This heater is designed for vent-free operation with flue damper closed. It has been tested and approved to ANSI Z21.11.2 standard for unvented heaters. State and local codes in some areas prohibit the use of vent-free heaters. This heater may also be operated as a vented decorative (ANSI Z21.60) product by opening the flue damper.

#### SAFETY DEVICE

This heater has a pilot with an Oxygen Depletion Sensing (ODS) safety shutoff system. The ODS/pilot is a required feature for vent-free room heaters. The ODS/pilot shuts off the heater if there is not enough fresh air.

#### **ELECTRONIC IGNITION SYSTEM**

This heater has an electronic igniter to light heater fuel supply.

# AIR FOR COMBUSTION AND VENTILATION

WARNING: This heater 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. Read the following instructions to ensure proper fresh air for this and other fuelburning appliances in your home.

Today's homes are built more energy efficient than ever. New materials, increased insulation and new construction methods help reduce heat loss in homes. Homeowners apply weather strip and caulk around windows and doors to keep the cold air out and the warm air in. During heating months, homeowners want their homes as airtight as possible.

While it is good to make your home energy efficient, your home needs to breathe. Fresh air must enter your home. All fuel-burning appliances need fresh air for proper combustion and ventilation.

Exhaust fans, some fireplaces, clothes dryers and some fuel-burning appliances draw air from the house to operate. You must provide adequate fresh air for these appliances. This will ensure proper venting of vented fuelburning appliances.

#### PROVIDING ADEQUATE VENTILATION

The following are excerpts from National Fuel Gas Code, ANSI Z223.1/NFPA 54, Air for Combustion and Ventilation.

All spaces in homes fall into one of the three following ventilation classifications:

- 1. Unusually Tight Construction
- 2. Unconfined Space
- 3. Confined Space

The information on *Pages 6-8* will help you classify your space and provide adequate ventilation.

#### **Unusually Tight Construction**

The air that leaks around doors and windows may provide enough fresh air for combustion and ventilation. However, in buildings of unusually tight construction, you must provide additional fresh air.

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 one perm (6 x 10<sup>-11</sup> kg per pa-sec-m<sup>2</sup>) or less with openings gasketed or sealed and
- b. weather stripping has been added on openable windows and doors <u>and</u>
- 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.

If your home meets all three criteria above, you must provide additional fresh air. See <u>Ventilation Air From Outdoors</u>, Page 8.

If your home does not meet all three criteria above, proceed to <u>Determining</u> *Fresh-Air Flow For Heater Location*, below.

#### **Confined and Unconfined Space**

The National Fuel Gas Code, ANSI Z223.1/ NFPA54 allows two methods for determining whether the space in which the heater is being

#### AIR FOR COMBUSTION AND VENTILATION Continued

installed is confined or unconfined space. The standard method defines a confined space as a space whose volume is less than 50 cubic feet per 1,000 Btu/hr (4.8 m<sup>3</sup> per kw) of the aggregate input rating of all appliances installed in that space and an unconfined space as a space whose volume is not less than 50 cubic feet per 1,000 Btu/hr (4.8 m<sup>3</sup> 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.

Where the air infiltration rate of a structure is known, the Known Air Infiltration Rate Method may be used. Follow The National Fuel Gas Code, ANSI Z223.1/NFPA 54 to use this method to determine if the space is confined or unconfined.

\* Adjoining rooms are communicating only if there are doorless passageways or ventilation grills between them.

#### DETERMINING FRESH-AIR FLOW FOR HEATER LOCATION

#### Determining if You Have a Confined or Unconfined Space Using the Standard Method

Use this work sheet to determine if you have a confined or unconfined space.

**Space:** Includes the room in which you will install fireplace plus any adjoining rooms with doorless passageways or ventilation grills between the rooms.

 Determine the volume of the space (length x width x height).

Length x Width x Height = \_\_\_\_cu. ft. (volume of space)

*Example:* Space size 20 ft. (length) x 16 ft. (width) x 8 ft. (ceiling height) = 2560 cu. ft. (volume of space)

If additional ventilation to adjoining room is supplied with grills or openings, add the volume of these rooms to the total volume of the space. 2. Multiply the space volume by 20 to determine the maximum Btu/Hr the space can support.

\_\_\_\_\_ (volume of space) x 20 = (Maximum Btu/Hr the space can support) **Example**: 2560 cu. ft. (volume of space) x 20 = 51,200 (maximum Btu/Hr the space can support)

3. Add the Btu/Hr of all fuel burning appliances in the space.

Vent-free fireplace		Btu/Hr
Gas water heater*		Btu/Hr
Gas furnace		Btu/Hr
Vented gas heater		Btu/Hr
Gas fireplace logs		Btu/Hr
Other gas appliances* -	+	Btu/Hr
Total =	=	Btu/Hr

\* Do not include direct-vent gas appliances. Direct-vent draws combustion air from the outdoors and vents to the outdoors.

Example:

Gas water heater	_	40,000	Btu/Hr
Vent-free fireplace	+	33,000	Btu/Hr
Total	=	73,000	Btu/Hr

4. Compare the maximum Btu/Hr the space can support with the actual amount of Btu/Hr used.

\_\_\_\_\_ Btu/Hr (maximum can support)

\_\_\_\_\_ Btu/Hr (actual amount used)

*Example*: 51,200 Btu/Hr (maximum the space can support) 73,000 Btu/Hr (actual amount of Btu/Hr used)

The space in the above example is a confined space because the actual Btu/Hr used is more than the maximum Btu/Hr the space can support. You must provide additional fresh air. Your options are as follows:

- A. Rework worksheet, adding the space of an adjoining room. If the extra space provides an unconfined space, remove door to adjoining room or add ventilation grills between rooms. See <u>Ventilation Air From Inside</u> <u>Building</u>, **Page 8**.
- B. Vent room directly to the outdoors. See <u>Ventilation Air From Outdoors</u>, **Page 8**.
- C. Install a lower Btu/Hr fireplace, if lower Btu/ Hr size makes room unconfined.

If the actual Btu/Hr used is less than the maximum Btu/Hr the space can support, the space is an unconfined space. You will need no additional fresh air ventilation.

# AIR FOR COMBUSTION AND VENTILATION

Continued

WARNING: If the area in which the heater may be operated does not meet the required volume for indoor combustion air, combustion and ventilation air shall be provided by one of the methods described in the National Fuel Gas Code, ANSI Z223.1/NFPA 54, the International Fuel Gas Code, or applicable local codes.

#### VENTILATION AIR

#### Ventilation Air From Inside Building

This fresh air would come from an adjoining unconfined space. When ventilating to an adjoining unconfined space, you must provide two permanent openings: one within 12" of the ceiling and one within 12" of the floor on the wall connecting the two spaces (see options 1 and 2, **Figure 2**). You can also remove door into adjoining room (see option 3, **Figure 2**). Follow the National Fuel Gas Code, ANSI Z223.1/NFPA 54, Air for Combustion and Ventilation for required size of ventilation grills or ducts.

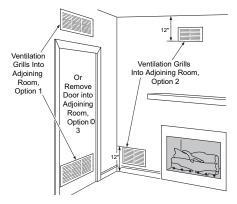


Figure 2 - Ventilation Air from Inside Building

#### Ventilation Air From Outdoors

Provide extra fresh air by using ventilation grills or ducts. You must provide two permanent openings: one within 12" of the ceiling and one within 12" of the floor. Connect these items directly to the outdoors or spaces open to the outdoors. These spaces include attics and crawl spaces. Follow the National Fuel Gas Code, ANSI Z223.1/NFPA 54, Air for Combustion and Ventilation for required size of ventilation grills or ducts.

**IMPORTANT:** Do not provide openings for inlet or outlet air into attic if attic has a thermostat-controlled power vent. Heated air entering the attic will activate the power vent.

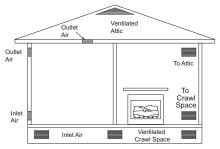


Figure 3 - Ventilation Air from Outdoors

NOTICE: This appliance is intended for supplemental heating. Use this heater along with your primary heating system. Do not install this heater as your primary heat source. If you have a central heating system, you may run system's circulating blower while using heater. This will help circulate the heat throughout the house. In the event of a power outage, you can use this heater as your primary heat source.

WARNING: A qualified service person must install heater. Follow all local codes.

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

WARNING: Before installing in a solid fuel burning fireplace, the chimney flue and firebox must be cleaned of soot, creosote, ashes and loose paint by a qualified chimney cleaner. Creosote will ignite if highly heated. A dirty chimney flue may create and distribute soot within the house. Inspect chimney and firebox flue for damage. If damaged, repair flue and firebox before operating heater.

WARNING: Any outside air ducts and/or ash dumps in the fireplace shall be permanently closed at time of appliance installation.

WARNING: Seal any fresh air vents or ash clean-out doors located on floor or wall of fireplace. If not, drafting may cause pilot outage or sooting. Use a heat-resistant sealant. Do not seal chimney flue damper.

WARNING: Never install the heater

- in a bedroom or bathroom unless installed as a vented appliance, see *Page 12*
- in a recreational vehicle
- where curtains, furniture, clothing or other flammable objects are less than 36" from the front and 42" from top heater, For side clearances see *Figure 4 Page 10*
- in high traffic areas
- in windy or drafty areas

CAUTION: This heater creates warm air currents. These currents move heat to wall surfaces next to heater. Installing heater next to vinyl or cloth wall coverings or operating heater where impurities (such as, but not limited to, tobacco smoke, aromatic candles, cleaning fluids, oil or kerosene lamps, etc.) in the air exist, may discolor walls or cause odors.

*IMPORTANT*: Vent-free heaters add moisture to the air. Although this is beneficial, installing heater in rooms without enough ventilation air may cause mildew to form from too much moisture. See <u>Air for Combustion and Ventila-</u> tion, **Page 6**.

#### CHECK GAS TYPE

Use the correct type of gas (natural or propane/ Use the correct type of gas (natural or propane/ LP). If your gas supply is not the correct gas type, do not install appliance. Call the dealer where you purchased the appliance for proper type appliance.

WARNING: Do not allow fans to blow directly into the firebox. Avoid any drafts that alter burner flame patterns. Ceiling fans can create drafts that alter burner flame patterns. Altered burner patterns can cause sooting.

#### INSTALLATION AND CLEARANCES FOR VENT-FREE OPERATION

WARNING: Maintain the minimum clearances. If you can, provide greater clearances from floor, ceiling and adjoining wall.

Minimum Fireplace Clearance to Combustible Materials Side Wall 16", Ceiling 42", Floor 5", Front 36"

LOG SIZING REQUIREMENTS				
Log Set	Minimum Firebox Size			
Model No.	Height	Depth	Front Width	Rear* Width
LBG18SM	17"	13.5"	20"	14"
LBG24SM	17"	13.5"	26"	18"
LBG30SM	21"	13.5"	32"	22"
LBG36SM	21"	13.5"	38"	27.5"
LBG18BM	17"	14.5"	26"	20"
LBG24BM	17"	14.5"	29"	22"
LBG30BM	21"	14.5"	32"	22"

Carefully follow these instructions. This will ensure safe installation into a masonry, UL127-listed manufactured fireplace or listed vent-free firebox.

#### Minimum Clearances For Side Combustible Material, Side Wall and Ceiling

A. Clearances from the side of the fireplace cabinet to any combustible material and wall should follow diagram in *Figure 4*. *Example*: The face of a mantel, bookshelf, etc. is made of combustible material and protrudes 3-1/2" from the wall. This combustible material must be 4" from the side of the fireplace cabinet (see *Figure 4*).

**NOTE**: When installing your gas logs into a manufactured firebox, follow firebox manufacturer's instructions for minimum clearances to combustible materials.

B. Clearances from the top of the fireplace opening to the ceiling should not be less than 42".

NOTICE: Manual control heaters may be used as a vented product. If so, you must always run heater with chimney flue damper open. If running heater with damper open, noncombustible material above fireplace opening is not needed. Go to Installing Damper Clamp Accessory for Vented Operation, *Page 12.* 

Maintain adequate clearances for accessibility for purposes of servicing and proper operation.

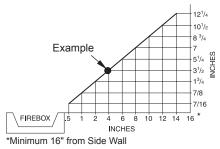


Figure 4 - Minimum Clearance for Combustible to Wall

#### MINIMUM NONCOMBUSTIBLE MATERIAL CLEARANCES

#### If Not Using Mantel

**NOTE**: If using a mantel proceed to If Using Mantel. If not using a mantel, follow the information on this page.

You must have noncombustible material(s) above the fireplace opening. Noncombustible materials (such as slate, marble, tile, etc.) must be at least 1/2" thick. With sheet metal, you must have noncombustible material behind it. Noncombustible material must extend at least 8" up (for all models). If noncombustible material is less than 12", you must install the fireplace hood accessory (24", 30" and 36" Models Only). See *Figure 5* for minimum clearances.

Noncombustible Material Distance (A)	Requirements for Safe Installation
12" or more	Noncombustible material OK.
Between 8" and 12"	24", 30" or 36" Models: Install fireplace hood ac- cessory (GA6050 - see <u>Accessories</u> , <b>Page 34</b> ). 18" Model: Noncombus- tible material OK.
Less than 8"	Noncombustible material must be extended to at least 8". See <u>Between</u> <u>8" and 12"</u> , above. If you cannot extend material, you must operate heater with flue damper open.

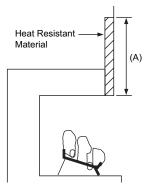


Figure 5 - Heat Resistant Material (Slate, Marble, Tile, etc.) Above Fireplace

Minimum clearance requirements include any projections such as shelves, window sills, mantels, etc. above the appliance.

#### If Using Mantel

You must have noncombustible material(s) above the fireplace opening. Noncombustible materials (such as slate, marble, tile, etc.) must be at least 1/2" thick. With sheet metal. vou must have noncombustible material behind it. Noncombustible material must extend at least 8" up (for all models). If noncombustible material is less than 12", you must install the fireplace hood accessory (24", 30" and 36" Models Only). Even if noncombustible material is more than 12", you may need the hood accessory to deflect heat away from your mantel shelf. See Figures 5 and 6 and Figure 7, Page 12, for minimum clearances. IMPORTANT: If you cannot meet these minimum clearances, you must operate heater with chimney flue damper open. Go to Installing Damper Clamp Accessory for Vented Operation, Page 12.

#### MANTEL CLEARANCES

In addition to meeting noncombustible material clearances, you must also meet required clearances between fireplace opening and mantel shelf. If you do not meet the clearances listed below, you will need a hood.

#### Determining Minimum Mantel Clearance

If you meet minimum clearance between mantel shelf and top of fireplace opening, a hood is not required (see *Figure 6*).

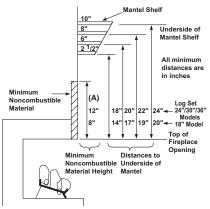


Figure 6 - Minimum Mantel Clearances Without Using Hood

#### Continued

#### Determining Minimum Mantel Clearance When Using a Hood

If minimum clearances in *Figure 6, Page 11*, are not met, you must have a hood. When using a hood there are still certain minimum mantel clearances required. Follow minimum clearances shown in *Figure 7*, when using hood.

NOTICE: Surface temperatures of adjacent walls and mantels become hot during operation. Walls and mantels above the firebox may become hot to the touch. If installed properly, these temperatures meet the requirement of the national product standard. Follow all minimum clearances shown in this manual.

Notice: If your installation does not meet the minimum clearances shown, you must do one of the following:

- operate the logs only with the flue damper open
- raise the mantel to an acceptable height
- · remove the mantel

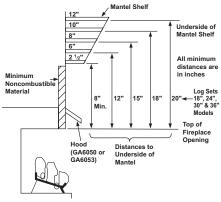


Figure 7 - Minimum Mantel Clearances When Using Hood

#### FLOOR CLEARANCES

- A. If installing appliance on the floor level, you must maintain the minimum distance of 14" to combustibles (see Figure 8).
- B. If combustible materials are less than 14" to the fireplace, you must install appliance at least 5" above the top surface of combustible flooring including tile and carpet (see *Figure 9*).

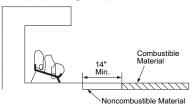


Figure 8 - Minimum Fireplace Clearances If Installed at Floor Level

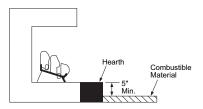


Figure 9 - Minimum Fireplace Clearances Above Combustible Flooring

#### INSTALLING DAMPER CLAMP ACCESSORY FOR VENTED OPERATION

**NOTE**: When used as a vented heater, appliance must be installed only in a solid-fuel burning fireplace with a working flue and constructed of noncombustible material.

For Massachusetts Residents Only: Installation of this gas log set as a vented appliance in the Commonwealth of Massachusetts requires the damper be permanently removed or welded in the fully open position.

If your heater is a manually-controlled model, you may use this heater as a vented product. There are three reasons for operating your heater in the vented mode.

Continued

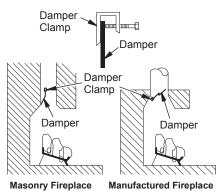
- 1. The fireplace does not meet the clearance to combustibles requirements for vent-free operation.
- State or local codes do not permit ventfree operation.
- 3. You prefer vented operation.

If reasons number 1 or 2 apply to you, you must permanently open chimney flue damper. You must install the damper clamp accessory (to order, see <u>Accessories</u>, **Page 34**). This will ensure vented operation (see **Figure 10**). The damper clamp will keep damper open. Installation instructions are included with clamp accessory.

See chart below for minimum permanent flue opening you must provide. Attach damper clamp so the minimum permanent flue opening will be maintained at all times.

Area of Various Standard Round Flues		
Diameter Area		
5"	20 sq. inches	
6"	29 sq. inches	
7"	39 sq. inches	
8"	51 sq. inches	

Chimney Height	Minimum Permanent Flue Opening
6' to 15'	39 sq. inches
15' to 30'	29 sq. inches



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Figure 10 - Attaching Damper Clamp

#### INSTALLING HEATER BASE ASSEMBLY

WARNING: You must secure this heater to fireplace floor. If not, heater will move when you adjust controls. Moving heater may cause a gas leak.

WARNING: If installing in a sunken fireplace, special care is needed. You must raise the fireplace floor to allow access to heater control panel. This will ensure adequate air flow and guard against sooting and controls being damaged. Raise fireplace floor with noncombustible material. Make sure material is secure.

CAUTION: Do not pick up heater base assembly by burners. This could damage heater. Only handle base assembly by grates.

**IMPORTANT**: Make sure the heater burners are level. If heater is not level, heater will not work properly.

#### Installation Items Needed

- hardware package (provided with heater)
- approved flexible gas hose and fittings (if allowed by local codes)
- sealant (resistant to propane/LP gas, not provided)
- electric drill with 3/16" masonry drill bit

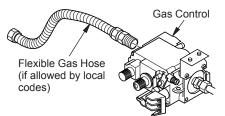
**NOTE**: Install optional Receiver and Hand-Held Remote Control Kit (see <u>Accessories</u>, **Page 34**) before installing gas log heater. See installation instructions included with the kit.

#### Continued

 Apply pipe joint sealant lightly to male threads of gas fitting (provided). Connect approved flexible gas hose to inlet side of gas control (see *Figure 11*).

**IMPORTANT**: Hold gas regulator with wrench when connecting flexible gas hose.

- 2. Position heater base assembly in fireplace.
- Mark screw locations through holes in front panel of base (see *Figure 12*). If installing in a brick-bottom fireplace, mark screw locations in mortar joint of bricks.
- 4. Remove heater base from fireplace.
- Drill holes at marked locations using 3/16" drill bit.
- Attach base, through holes in front panel of base, to fireplace floor using masonry screws provided in hardware package (see Figure 12).
- Connect to gas supply. See <u>Connecting</u> <u>To Gas Supply</u>.



#### Figure 11 - Attaching Flexible Gas Hose to Heater Gas Regulator

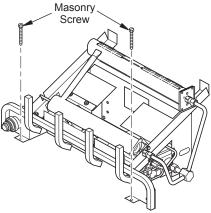


Figure 12 - Attaching Base to Fireplace Floor

#### CONNECTING TO GAS SUPPLY

WARNING: This appliance requires a 3/8" NPT (National Pipe Thread) inlet connection to the pressure regulator.

WARNING: A qualified service person must connect heater to gas supply. Follow all local codes.

CAUTION: Never connect propane/LP fireplace directly to the propane/LP supply. This heater requires an external regulator (not supplied). Install the external regulator between the heater and propane/LP supply.

WARNING: Never connect natural gas fireplace to private (non-utility) gas wells. This gas is commonly known as wellhead gas.

#### Installation Items Needed

Before installing heater, make sure you have the items listed below.

- external regulator (supplied by installer)
- piping (check local codes)
- sealant (resistant to propane/LP gas)
- · equipment shutoff valve \*
- test gauge connection \*
- · sediment trap
- tee joint
- pipe wrench
- approved flexible gas line with gas connector (if allowed by local codes)
- \* An equipment shutoff valve with 1/8" NPT tap is an acceptable alternative to test gauge connection. Purchase the optional equipment shutoff valve from your dealer.

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For propane/LP units, the installer must supply an external regulator. The external regulator will reduce incoming gas pressure. You must reduce incoming gas pressure to between 11" and 14" of water. If you do not reduce incoming gas pressure, heater regulator damage could occur. Install external regulator with the vent pointing down as shown in *Figure 13*. Pointing the vent down protects it from freezing rain or sleet.

CAUTION: Use only new, black iron or steel pipe. Internally-tinned copper tubing may be used in certain areas. Check your local codes. Use pipe of 1/2" diameter or greater to allow proper gas volume to heater. If pipe is too small, undue loss of volume will occur.

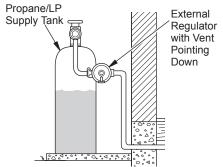


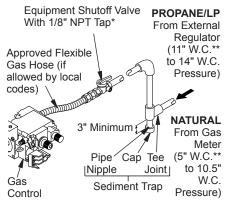
Figure 13 - External Regulator With Vent Pointing Down

Installation must include an equipment shutoff valve, union and plugged 1/8" NPT tap. Locate NPT tap within reach for test gauge hook up. NPT tap must be upstream from heater (see *Figure 14*).

**IMPORTANT**: Install equipment shutoff valve in an accessible location. The equipment shutoff valve is for turning on or shutting off the gas to the appliance.

Check your building codes for any special requirements for locating equipment shutoff valve to fireplaces.

Apply pipe joint sealant lightly to male NPT threads. This will prevent excess sealant from going into pipe. Excess sealant in pipe could result in clogged heater valves.



#### Figure 14 - Gas Connection

- \* Purchase the optional equipment shutoff valve from your dealer.
- \*\*Minimum inlet pressure for purpose of input adjustment.

# WARNING: Use pipe joint sealant that is resistant to liquid petroleum (LP) gas.

We recommend that you install a sediment trap in supply line as shown in *Figure 14*. Locate sediment trap where it is within reach for cleaning. Install in piping system between fuel supply and heater. Locate sediment trap where trapped matter is not likely to freeze. A sediment trap traps moisture and contaminants. This keeps them from going into heater controls. If sediment trap is not installed or is installed wrong, heater may not run properly.

**CAUTION:** Avoid damage to gas control. Hold gas control with wrench when connecting it to gas piping and/or fittings.

#### Continued

#### CHECKING GAS CONNECTIONS

WARNING: Test all gas piping and connections, internal and external to unit, for leaks after installing or servicing. Correct all leaks at once.

WARNING: Never use an open flame to check for a leak. Apply a noncorrosive leak detection fluid to all joints. Bubbles forming show a leak. Correct all leaks at once.

CAUTION: Make sure external regulator has been installed between propane/LP supply and heater. See guidelines under <u>Connecting to Gas Supply</u>, Page 14.

#### PRESSURE TESTING GAS SUPPLY PIPING SYSTEM

# Test Pressures In Excess Of 1/2 PSIG (3.5 kPa)

- Disconnect appliance with its appliance main gas valve (control valve) and equipment shutoff valve from gas supply piping system. Pressures in excess of 1/2 psig (3.5 kPa) will damage heater regulator.
- 2. Cap off open end of gas pipe where equipment shutoff valve was connected.
- Pressurize supply piping system by either opening propane/LP supply tank valve for propane/LP gas or opening main gas valve located on or near gas meter for natural gas or using compressed air.
- Check all joints of gas supply piping system. Apply noncorrosive leak detection fluid to all joints. Bubbles forming show a leak.
- 5. Correct all leaks at once.
- Reconnect heater and equipment shutoff valve to gas supply. Check reconnected fittings for leaks.

# Test Pressures Equal To or Less Than 1/2 PSIG (3.5 kPa)

- 1. Close equipment shutoff valve (see Figure 15).
- Pressurize supply piping system by either opening propane/LP supply tank valve for propane/LP gas or opening main gas valve located on or near gas meter for natural gas or using compressed air.
- Check all joints from gas meter to equipment shutoff valve for natural gas or propane/LP supply to equipment shutoff valve for propane/LP (see *Figure 16 or 17*). Apply noncorrosive leak detection fluid to all joints. Bubbles forming show a leak.
- 4. Correct all leaks at once.

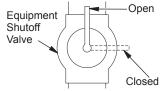
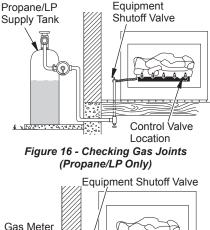


Figure 15 - Equipment Shutoff Valve



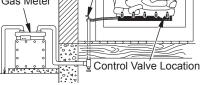


Figure 17 - Checking Gas Joints (Natural Gas Only)

#### Continued

# PRESSURE TESTING HEATER GAS CONNECTIONS

- 1. Open equipment shutoff valve (see Figure 15, Page 16).
- Open main gas valve located on or near gas meter for natural gas or open propane/LP supply tank valve.
- 3. Make sure control knob of heater is in the OFF position.
- Check all joints from equipment shutoff valve to gas valve (see *Figure 16 or 17*). Apply noncorrosive leak detection fluid to all joints. Bubbles forming show a leak.
- 5. Correct all leaks at once.
- Light heater (see <u>Operation</u>, Page 24 depending on your model). Check all other internal joints for leaks.
- Turn off heater (see <u>To Turn Off Gas to</u> <u>Appliance</u>, **Page 25**, depending on your model).

#### INSTALLING LOGS

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

BGE Series Burner System - Log Compatibility Chart		
Burner Sys- tem Models Models		Concrete Log Models
BGE18NR, BGE18PR	LBG18SM	LBG18BM
BGE2436NR, BGE2436PR	LBG24SM LBG30SM LBG36SM	LBG24BM LBG30BM

#### Log Support Brackets

If installing a LBG36SM, attach log support brackets before installing logs. These brackets are provided with the BG(E)2436 series burner systems.

- Install left bracket to left side of chassis using 2 screws provided (see Figure 18).
- Install right bracket to right front of chassis using 2 screws provided (see *Figure 18*). This bracket will also be used as remote control bracket if remote is installed.

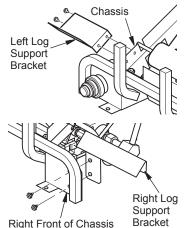


Figure 18 - Installing Log Support Brackets

#### **INSTALLING SWITCH**

A AUTO/OFF/ON switch and wire assembly is supplied with this burner system. This switch needs to be used only if remote or wall switch is not being used. Place the wire assembly and switch into the switch log. Remove the jumper wire from the control valve and then connect the wires to the valve from the switch assembly as shown in *Figure 19*.

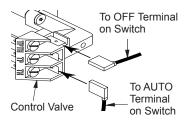


Figure 19 - Connecting Wires

### FIBER LOG MODELS LBG(18,24,30,36)SM

**NOTE**: Your appliance may vary from model shown but log placement will be the same.

1. Place bottom log in center of the base assembly as shown in *Figure 21*. The log must sit flat on the black metal sheet and behind the left metal tab as shown in *Figure 20*.

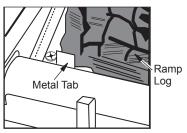


Figure 20 - Installing Log Set

- Rest rear log in back corner sections of base assembly as shown in *Figure 21*. Make sure log is completely vertical and not leaning in toward burner where flame will touch the log.
- 3. Position front right log against right side of grate prongs (see *Figure 21*).
- Position front left log against left side of grate prongs (see *Figure 21*).

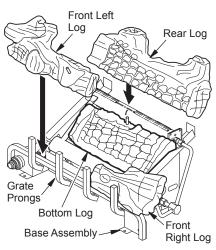
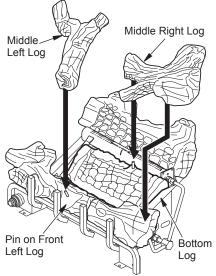


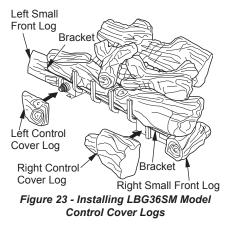
Figure 21 - Installing Log Set

- 5. Place middle right log over front right and bottom logs as shown in *Figure 22*. Be sure hole in middle right log seats over pin in bottom log.
- 6. Place middle left log over front left and bottom logs as show in *Figure 22*. Be sure hole in middle left log seats over pin in front left log.



#### Figure 22 - Installing Log Sets

 For LTF36SM, the front right and left logs are longer and are supported with brackets on each end (see *Figure 23*). Place left and right small front logs under left bracket and beside right bracket.



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 For LBG36SM, position left and right control cover logs as shown in *Figure* 24. These may be placed as desired to hide controls.



LBG(18,24,30)SM MODELS



LBG36SM MODELS Figure 24 - Correct Log Placement

#### CONCRETE LOG MODELS LBG (18,24,30) BM

**NOTE**: Your appliance may vary from model shown but log placement will be the same.

- Before placing any logs on the chassis you will need to remove the Air Shield located on the left side near the rear burner as shown in *Figure 25*. The Air Shield is held in place with one screw, remove the Air Shield and place the screw back into the hole in the chassis. Place the Air Shield with your owner's manual and keep.
- 2. Place fiber ramp log in center of chassis as shown in *Figure 26*. The fiber ramp log can be identified by the shape and much lighter weight when compared to the other logs. The log must sit flat on the black sheet metal and behind the left metal tab as shown. Make sure the side marked "BOTTOM" is setting down.

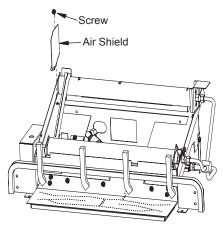


Figure 25 - Removing Air Shield

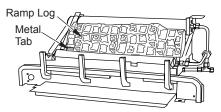


Figure 26 - Installing Fiber Ramp Log

 Place front left (18" D-064, 24" D-057 & 30" D-038) and front right (18" D-065, 24" D-058 & 30" D-039) logs as shown in *Figure 27*.

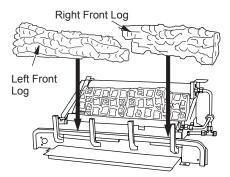


Figure 27 - Installing Left/Right Front Logs

4. Place left ember bed log (18" D-073, 24" & 30" D-048) as shown in *Figure 28*. The log has groove on one side that sets on the ember bed pan. The back side of this log needs to rest against the front of the base assembly. Make sure the flame from the ember pan does not touch the ember bed log.

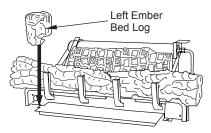
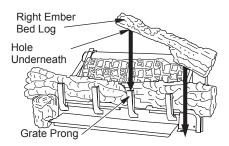


Figure 28 - Installing Left Ember Bed Log

5. The right ember bed log 24" & 30" (D-047) has a hole in the log that sets on the grate finger and the other end rest on the fireplace floor, place log as shown in *Figure 29*. The right ember bed logs for 18" (D-072) has a groove on the side that sets on the ember bed pan and the back of the log needs to rest against the front of the base. Make sure the flame from the ember pan does not touch the ember bed log. The back side of this log needs to rest against the front of the base sure the flame from the ember pan does not touch the ember bed log.



 The left middle log (18" D-066, 24" & 30" D-040) has a groove on the bottom to sit on the chassis and has to sit on the tab on the back of the left front log as shown in *Figure 30*.

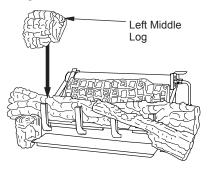


Figure 30 - Installing Left Middle Log

 The right middle log (18" D-067, 24" & 30" D-041) has a groove on the bottom to sit on the chassis and has to sit on the tab on the back of the right front. The right middle log should have a recess area that fits around the ramp log as shown in *Figure 31*.

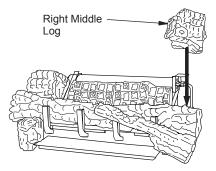


Figure 31 - Installing Right Middle Log

Figure 29 - Installing Right Ember Bed Log

 The rear middle log (18" D-068, 24" & 30" D-042) should fit between the ramp log and the rear burner. The left and right middle logs have recessed areas for the rear middle log to sit into (See Figure 32). There may be a small gap between the rear middle log and the ramp log, this is normal.. Be careful not to push the rear burner out of position while installing this log.

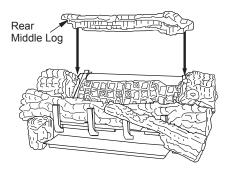


Figure 32 - Installing Rear Middle Log

 Rest the rear log (18" D-069, 24" & 30" D-043) on the chassis behind the rear burner as shown in *Figure 33*. The bottom of the rear log will sit into the rear log supports.

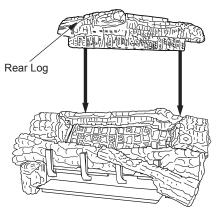


Figure 33 - Installing Rear Log

 Place the left top log (D-046) onto the rear log and the left middle log. Make sure to place the projection on the bottom of the left top log into the recessed areas on the rear and left middle logs (see Figure 34).

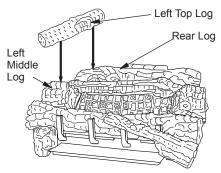


Figure 34 - Installing Left Top Log

 Rest the middle crossover log (18" D-070, 24" & 30" D-044) onto the right middle log and the left front log (see *Figure 35*). Make sure to match the projection on the bottom of the crossover log with the recess area in the right middle log and the left front log.

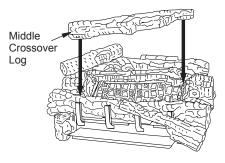


Figure 35 - Installing Middle Crossover Log

Continued

 Place the top rear log (18" D-071, 24" & 30" D-045) onto the rear log as shown. The rear log has a projection that will fit into the recess area on the bottom of the top rear log (see *Figure 36*).

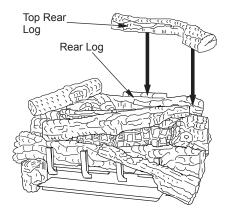


Figure 36 - Installing Top Rear Log

#### EMBER PLACEMENT - BGE SERIES BURNER SYSTEMS

WARNING: Do not operate unit without ember material correctly in place as shown in *Figures 38 & 39.* Do NOT place ember material anywhere else on the unit. Use only ember material supplied with unit. Excessive or incorrectly placed ember material may produce carbon monoxide or soot. If replacement embers are needed, the replacement embers must be purchased from IHP. See *Page 37* for part numbers.

WARNING: Do not use any other ember material not supplied with this unit.

WARNING: All previously applied loose material must be removed prior to reapplication.

If replacement embers are needed, the replacement embers must be purchased from IHP. See *Page 37* for part numbers.

- 1. Ember Chunk Placement. The BGE2436 burner systems include three ember chunks that are designed to fit over shoulder screws on the ember pan burner. The bottom of each ember chunk has a hole for securing the ember chunk in place when it is placed over a shoulder screw. Place the ember chunks as shown in Figure 37 on Page 23 by placing the ember chunk with the number "1" on the left, "2" in the center, and "3" on the right. These numbers are embossed on the back of each piece for identification purposes. Please note that BGE18 burner systems do not include ember chunks.
- Two ember materials are supplied with this log set. Platinum Bright Embers give a bright glow appearing as hot coals. Follow instructions for the ember material you choose. Should embers need replacing, see <u>Parts</u>, **Page 37**.

Platinum Bright Ember placement. Add embers to front, flat burner. Gently remove embers from bag. Separate pieces of ember material and place on surface of flat burner just behind horizontal ports as shown in *Figure 38*.

**Glowing Embers (rockwool) placement**. Place glowing ember material on front flat burner in areas away from ports as shown in *Figure 39*.

3. Add volcanic stone and small decorative logs around base of heater if desired. DO NOT place volcanic stone or additional logs on front burner or on logs. Placing any material on unit other than ember material on front burner may result in production of carbon monoxide or soot. Use volcanic stone to hide wires from switch/log to control valve. Place switch/log so the switch is easy to access.



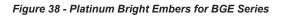
Ember Chunk #1 Ember Chunk #2 Ember Chunk #3 Flat Front Burner

Figure 37 - Ember Chunk Placement BGE2436 Series



Ember Material

Flat Front Burner





Glowing Embers (rockwool)

Figure 39 - Placement of Glowing Embers for BGE Series (shown with Platinum Bright Embers)

## **OPERATION**



#### FOR YOUR SAFETY READ BEFORE LIGHTING

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

- A. This appliance has a pilot which must be lighted by hand. 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 service technician or gas supplier. Force or attempted repair may result in a fire or explosion.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified 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 INSTRUCTIONS

NOTICE: During initial operation of new heater, burning logs will give off a paper-burning smell. Orange flame will also be present. Open damper or window to vent smell. This will only last a few hours.

### WARNING:

- If fireplace has glass doors, never operate this heater with glass doors closed. If you operate heater with doors closed, heat buildup inside fireplace will cause glass to burst. Make sure there are no obstructions across openings of fireplace.
- You must operate this heater with a fireplace screen in place. Make sure fireplace screen is closed before running heater.

**NOTE**: Homeowners generally prefer to operate their heater with the chimney damper closed. This will put all the heat into the room. However, there may be times you will desire the full flames of the HI heat setting but will find the heat output excessive. You can open the chimney damper (if you have one) fully or partially to release some of the heat.

WARNING: Damper handle will be hot if heater has been running.

- 1. STOP! Read the safety information.
- Make sure equipment shutoff valve is fully open.
- 3. Press in and turn control knob clockwise to the OFF position (see Figure 40).

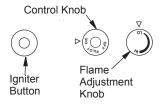


Figure 40 - Control Knob and Igniter Button Location

### OPERATION Continued

### WARNING: Burners will come on automatically within one minute when the selector switch is in the ON position after the pilot is lit.

- 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, *Page 24*. If you don't smell gas, go to the next step.
- Press in and turn control knob counterclockwise 
   to the PILOT position. Press in control knob for five (5) seconds (see Figure 40, Page 24).

**NOTE**: You may be running this heater for the first time after hooking up to gas supply. If so, the control knob may need to be pressed in for 30 seconds or less. This will allow air to bleed from the gas system.

 With control knob pressed in, press and release igniter button. This will light pilot. The pilot is attached to the front burner. If needed, keep pressing igniter button until pilot lights.

**NOTE**: If pilot does not stay lit, contact a qualified service person or gas supplier for repairs. Until repairs are made, light pilot with match. To light pilot with match, see <u>Manual Lighting Procedure</u>.

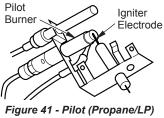
- Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob.
  - If control knob does not pop out when released, contact a qualified service person or gas supplier for repairs.

**NOTE**: If pilot goes out, repeat steps 4 through 8.

- 9. Slightly push in and turn control knob counterclockwise K to the ON position.
- 11. Set flame adjustment knob to any level between HI and LO.
- 12. You may shut off the burners and keep the pilot lit by doing one of the following:

  - b. Use remote control manual OFF button.

**CAUTION:** Do not try to adjust heating levels by using the equipment shutoff valve.



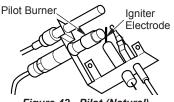


Figure 42 - Pilot (Natural)

TO TURN OFF GAS TO APPLIANCE

- 1. Turn control knob clockwise to the OFF position.
- 2. If Using Optional Hand-Held Remote: Set selector switch in the OFF position to prevent draining battery.
- 3. Close equipment shutoff valve (see Figure 16 or 17, Page 16).

### MANUAL LIGHTING PROCEDURE

- 1. Follow steps 1 through 6 under <u>Lighting</u> <u>Instructions</u>, **Page 24**.
- 2. Depress control knob and light pilot with match.
- Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob. Now follow steps 9 through 11, <u>Lighting Instructions</u>, Page 25.

## **INSPECTING BURNERS**

Check pilot flame pattern and burner flame patterns often.

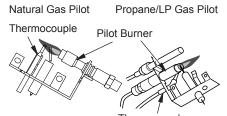
### PILOT FLAME PATTERN

Figure 43 shows a correct pilot flame pattern. Figure 44 shows an incorrect pilot flame pattern. The incorrect pilot flame is not touching the thermocouple. This will cause the thermocouple to cool. When the thermocouple cools, the heater will shut down.

If pilot flame pattern is incorrect, as shown in *Figure 44*.

- turn heater off (see <u>To Turn Off Gas to Appliance</u>, **Page 25**.
- see Troubleshooting, Page 29

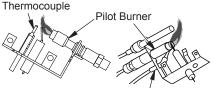
**NOTE**: The pilot flame on natural gas units will have a slight curve, but flame should be blue and have no yellow or orange color.



Thermocouple Figure 43 - Correct Pilot Flame Pattern (Your pilot may vary from pilots shown)

Natural Gas Pilot

Propane/LP Gas Pilot



Thermocouple

Figure 44 - Incorrect Pilot Flame Pattern (Your pilot may vary from pilots shown)

### **BURNER FLAME PATTERN**

*Figure 45* shows correct burner flame pattern. *Figure 46* shows incorrect burner flame pattern.

WARNING: If incorrect burnerflame occurs, your heater could produce increased levels of carbon monoxide.

NOTICE: Do not mistake orange flames with yellow tipping. Dirt or other fine particles are burned by heater, causing brief patches of orange flame.

Middle burner flame should be blue with the ramp/log glowing orange/red Bright yellow rear burner flame; flame will be blue next to the burner



Small blue flame on ember burner with no yellow tipping

### Figure 45 - Correct Burner Flame Pattern

If front burner flame pattern is incorrect, as shown in *Figure 45*.

- turn heater off (see <u>To Turn Off Gas to Appliance</u>, **Page 25**
- see Troubleshooting, Page 29

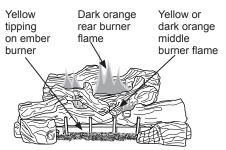


Figure 46 - Incorrect Burner Flame Pattern

WARNING: Turn off heater and let cool before cleaning.

CAUTION: You must keep control areas, burners and circulating air passageways of heater clean. Inspect these areas of heater before each use. Have heater inspected yearly by a qualified service person. Heater may need more frequent cleaning due to excessive lint from carpeting, pet hair, bedding material, etc.

WARNING: Failure to keep the primary air opening(s) of the burner(s) clean may result in sooting and property damage.

# BURNER ORIFICE HOLDER AND PILOT AIR INLET HOLE

The primary air inlet holes allow the proper amount of air to mix with the gas. This provides a clean burning flame. Keep these holes clear of dust, dirt, lint and pet hair. Clean these air inlet holes prior to each heating season. Blocked air holes will create soot. We recommend that you clean the unit every three months during operation and have heater inspected yearly by a qualified service person. We also recommend that you keep the burner tube and pilot assembly clean and free of dust and dirt. To clean these parts we recommend using compressed air no greater than 30 PSI. Your local computer store, hardware store or home center may carry compressed air in a can. If using compressed air in a can, please follow the directions on the can. If you don't follow directions on the can, you could damage the pilot assembly.

- 1. Shut off unit, including pilot. Allow unit to cool for at least thirty minutes.
- Inspect burner, pilot and primary air inlet holes on orifice holder for dust and dirt (see *Figure 47*).
- 3. Blow air through the ports/slots and holes in the burner.
- Check orifice holder located at the end of the burner tube again. Remove any large particles of dust, dirt, lint or pet hair with a soft cloth or vacuum cleaner nozzle.

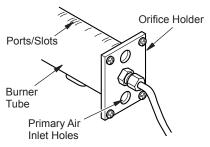


Figure 46 - Orifice Holder On Outlet Burner Tube

### CLEANING AND MAINTENANCE Continued

- 5. Blow air into the primary air holes on the orifice holder.
- In case any large clumps of dust have now been pushed into the burner repeat steps 3 and 4, beginning on *Page 27*.

Clean pilot assembly also. A yellow tip on the pilot flame indicates dust and dirt in the pilot assembly. There is a small pilot air inlet hole about 2" from where the pilot flame comes out of the pilot assembly (see **Figure 48**). With the unit off, lightly blow air through the air inlet hole. You may blow through a drinking straw if compressed air is not available.

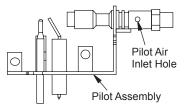


Figure 47 - Pilot Inlet Air Hole (Your pilot may vary from pilot shown)

### LOGS

- If you remove logs for cleaning, refer to <u>In-stalling Logs</u>, **Page 17**, to properly replace logs.
- Replace log(s) if broken or chipped (dimesized or larger).

### MAIN BURNER

Periodically inspect all burner flame holes with the heater running. All slotted burner flame holes should be open with yellow flame present. All round burner flame holes should be open with a small blue flame present. Some burner flame holes may become blocked by debris or rust, with no flame present. If so, turn off heater and let cool. Remove blockage, blocked burner flame holes will create soot. WARNING: Turn off heater and let cool before servicing. Only a qualified service person should service and repair heater.

# **CAUTION:** Never use a wire, needle or similar object to clean ODS/pilot. This can damage ODS/pilot unit.

NOTE A	troubleshooting	items are lister	in order o	foneration
NOTE. All	lioubleshooling			

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
When igniter button is pressed, there is no spark at ODS/pilot	<ol> <li>Igniter electrode not con- nected to igniter cable</li> <li>Igniter cable pinched or wet</li> </ol>	<ol> <li>Reconnect igniter cable</li> <li>Free igniter cable if pinched by any metal or tubing. Keep igniter cable</li> </ol>
	<ol> <li>Broken igniter cable</li> <li>Bad igniter</li> <li>Igniter electrode positioned wrong</li> </ol>	dry 3. Replace igniter cable 4. Replace igniter 5. Replace pilot assembly
	<ol> <li>Igniter electrode broken</li> <li>Battery not installed, battery power low or battery not installed correctly (electronic ignition models only)</li> </ol>	<ol> <li>Replace pilot assembly</li> <li>Install new alkaline battery in electronic igniter. Verify battery is installed correctly</li> </ol>
When igniter button is pressed, there is spark at ODS/pilot but no ignition	1. Gas supply turned off or equipment shutoff valve closed	1. Turn on gas supply or open equipment shutoff valve
	2. Control knob not in PILOT position	2. Turn control knob to PILOT position
	3. Control knob not pressed in while in PILOT position	3. Press in control knob while in PILOT position
	4. Air in gas lines when in- stalled	<ol> <li>Continue holding down control knob. Repeat ig- niting operation until air is removed</li> </ol>
	5. Depleted gas supply (pro- pane/LP only)	5. Contact local propane/LP gas company
	6. ODS/pilot is clogged	<ol> <li>Clean ODS/pilot (see <u>Cleaning and Mainte-</u> <u>nance</u>, Page 27) or re- place ODS/pilot assembly</li> </ol>
	7. Gas regulator setting is not correct	7. Replace gas regulator

# TROUBLESHOOTING

Continued

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
ODS/pilot lights but flame goes out when control knob is released	<ol> <li>Control knob not fully pressed in</li> <li>Control knob not pressed in long enough</li> <li>Safety interlock system has been triggered</li> <li>Equipment shutoff valve not fully open</li> <li>Pilot flame not touching</li> </ol>	<ol> <li>Press in control knob fully</li> <li>After ODS/pilot lights, keep control knob pressed in 30 seconds</li> <li>Wait one minute for safety interlock system to reset. Repeat ignition operation</li> <li>Fully open equipment shutoff valve</li> <li>A) Contact local natural or</li> </ol>
	<ul> <li>thermocouple, which allows thermocouple to cool, causing pilot flame to go out. This problem could be caused by one or both of the following:</li> <li>A) Low gas pressure</li> <li>B) Dirty or partially clogged ODS/pilot</li> </ul>	propane/LP gas company B) Clean ODS/pilot (see <u>Cleaning and Mainte-</u> <u>nance</u> , <b>Page 27</b> ) or re- place ODS/pilot assembly
	<ol> <li>Thermocouple connection loose at control valve</li> <li>Thermocouple damaged</li> <li>Control valve damaged</li> </ol>	<ol> <li>6. Hand tighten until snug, then tighten 1/4 turn more</li> <li>7. Replace pilot assembly</li> <li>8. Replace control valve</li> </ol>
One or both burners do not light after ODS/pilot is lit	<ol> <li>Inlet gas pressure is too low</li> <li>Burner orifice(s) clogged</li> </ol>	<ol> <li>Contact local natural or propane/LP gas company</li> <li>Clean burner(s) (see <u>Cleaning and Mainte-</u> <u>nance</u>, <b>Page 27</b>) or re- place burner orifice(s)</li> </ol>
	<ol> <li>Mislocated crossover tube</li> <li>Wire disconnected from gas control</li> </ol>	<ol> <li>Contact qualified service person</li> <li>See Wiring Diagram, Page 28</li> </ol>
Delayed ignition of one or both burners	<ol> <li>Manifold pressure is too low</li> <li>Burner orifice(s) clogged</li> </ol>	<ol> <li>Contact local natural or propane/LP gas company</li> <li>Clean burner(s) (see <u>Cleaning and Mainte-</u> <u>nance</u>, <b>Page 27</b>) or re- place burner orifice(s)</li> </ol>
	3. Mislocated crossover tube	3. Contact qualified service person
Burner backfiring during combustion	<ol> <li>Burner orifice is clogged or damaged</li> <li>Damaged burner</li> </ol>	1. Clean burner (see <u>Clean-</u> ing and <u>Maintenance</u> , <b>Page 27</b> ) or replace burner orifice
	3. Gas regulator defective	<ol> <li>Replace damaged burner</li> <li>Replace gas regulator</li> </ol>

# TROUBLESHOOTING

Continued

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Yellow flame in front burner during burner combustion	1. Not enough air	1. Check burner(s) for dirt and debris. If found, clean burner(s) (see <u>Cleaning</u> <u>and Maintenance</u> , <b>Page</b> 27)
	2. Gas regulator defective	2. Replace gas regulator
Slight smoke or odor during initial operation	<ol> <li>Residues from manufac- turing processes and logs curing</li> </ol>	1. Problem will stop after a few hours of operation
Heater produces a whistling noise when burners are lit	<ol> <li>Turning control knob to HI position when burners are cold</li> <li>Air in gas line</li> <li>Air passageways on heat- er blocked</li> <li>Dirty or partially clogged burner orifice(s)</li> </ol>	<ol> <li>Turn control knob to LO position and let warm up for a minute</li> <li>Operate burners until air is removed from line. Have gas line checked by local natural or propane/LP gas company</li> <li>Observe minimum instal- lation clearances (see Pages 9 through 11)</li> <li>Clean burners (see <u>Clean- ing and Maintenance</u>. Page 27) or replace burner orifice(s)</li> </ol>
White powder residue form- ing within burner box or on adjacent walls or furniture	1. When heated, vapors from furniture polish, wax, car- pet cleaners, etc. may turn into white powder residue	1. Turn heater off when us- ing furniture polish, wax, carpet cleaners or similar products
Moisture/condensation no- ticed on windows	1. Not enough combustion/ ventilation air	1. Refer to <u>Air for Combustion</u> <u>and Ventilation</u> require- ments ( <b>Page 6</b> )
Heater produces a clicking/ ticking noise just after burners are lit or shut off	1. Metal expanding while heating or contracting while cooling	1. This is normal with most heaters. If noise is ex- cessive, contact qualified service person

### TROUBLESHOOTING

Continued

### WARNING: If you smell gas

- Shut off gas supply.
- 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 your gas supplier, call the fire department.

**IMPORTANT**: Operating heater where impurities in air exist may create odors. Cleaning supplies, paint, paint remover, cigarette smoke, cements and glues, new carpet or textiles, etc., create fumes. These fumes may mix with combustion air and create odors. These odors will disappear over time.

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Heater produces unwanted odors	<ol> <li>Heater burning vapors from paint, hair spray, glues, cleaners, chemi- cals, new carpet, etc. (See <i>IMPORTANT</i> statement above)</li> <li>Low fuel supply (propane/ LP only)</li> <li>Gas leak. See Warning statement at top of page</li> </ol>	<ol> <li>Open window to ventilate room. Stop using odor causing products while heater is running</li> <li>Refill supply tank (pro- pane/LP only)</li> <li>Locate and correct all leaks (see <u>Checking Gas</u> Connections, <b>Page 16</b>)</li> </ol>
Heater shuts off in use (ODS operates)	<ol> <li>Not enough fresh air is available</li> <li>Low line pressure</li> <li>ODS/pilot is partially clogged</li> </ol>	<ol> <li>Open window and/or door for ventilation</li> <li>Contact local natural or propane/LP gas company</li> <li>Clean ODS/pilot (see <u>Cleaning and Mainte- nance</u>, <b>Page 27</b>)</li> </ol>
Gas odor even when control knob is in OFF position	<ol> <li>Gas leak. See Warning statement at top of page</li> <li>Control valve or gas con- trol defective</li> </ol>	<ol> <li>Locate and correct all leaks (see <u>Checking Gas</u> <u>Connections</u>, <b>Page 16</b>)</li> <li>Replace control valve or gas control</li> </ol>
Gas odor during combustion	<ol> <li>Foreign matter between control valve and burner</li> <li>Gas leak. See Warning statement at top of page</li> </ol>	<ol> <li>Take apart gas tubing and remove foreign matter</li> <li>Locate and correct all leaks (see <u>Checking Gas</u> <u>Connections</u>, <b>Page 16</b>)</li> </ol>
Log set cycles to pilot, but room temperature drops to a lower than ideal level before log set comes back on	1. Optional Hand-held re- mote control is too close to heater (Remote-Ready Models Only)	1. Move hand-held remote control unit farther away from the heater

### WIRING DIAGRAM

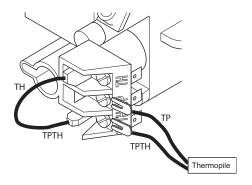


Figure 49 - Wiring Diagram - SIT Millivolt

A CAUTION: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

## **REPLACEMENT PARTS**

See *Pages 37-41* for a complete replacement parts list. Use only parts supplied from the manufacturer.

Normally, all parts should be ordered through your IHP distributor or dealer. Parts will be shipped at prevailing prices at time of order.

When ordering repair parts, always give the following information:

# SERVICE HINTS

### When Gas Pressure Is Too Low

- · pilot will not stay lit
- · burners will have delayed ignition
- · appliance will not produce specified heat
- · propane/LP gas supply may be low

You may feel your gas pressure is too low. If so, contact your local propane/LP or natural gas supplier.

- 1. The model number of the appliance.
- 2. The serial number of the appliance.
- 3. The part number.
- 4. The description of the part.
- 5. The quantity required.
- 6. The installation date of the appliance.

If you encounter any problems or have any questions concerning the installation or application of this appliance, please contact your dealer.

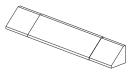
## **TECHNICAL SERVICE**

You may have further questions about installation, operation, or troubleshooting. Please contact your IHP dealer for any questions or concerns. When contacting your dealer please have your model and serial numbers of your appliance ready. You can also visit our web site at SuperiorFireplaces.us.com.

# ACCESSORIES

Purchase these appliance accessories from your local dealer. If they can not supply these accessories, contact IHP at SuperiorFireplaces.us.com for referral information. You can also write to the address listed on the back page of this manual.

Only kits supplied by IHP shall be used in the installation of this appliance. Use of non-approved accessory/part kit(s) can result in poor performance and safety hazards.



### FIREPLACE HOOD, BLACK

### Cat. No. F1764, Model GA6050

**For all models.** Helps deflect heat away from mantel or wall above fireplace. Fits openings 28" to 48" wide.



### RECEIVER AND HAND-HELD THERMOSTAT REMOTE CONTROL KIT Cat. No. F1078. Model TRC

For all models. Allows the fireplace to be operated in a manually or thermostatically controlled mode. You can turn the fireplace on and off without ever leaving the comfort of your easy chair.

### VOLCANIC STONE

### Cat. No. 80L42, Model FDVS

For all models. Order when additional volcanic stone is desired.

EMBER KITS Platinum Embers Cat. No J6207



Glowing Embers (rockwool) Cat. No J6208



### RECEIVER AND REMOTE CONTROL KIT Cat. No. F1079, Model TSRC

For all Remote-Ready Models. Allows the burner system to be operated in a manually or thermostatically controlled mode. Remote is programmable for your convenience and has a large bright LCD Touch Screen for easy use.



# ON/OFF REMOTE AND RECEIVER WITH WHITE WALL PLATE

### Cat. No. F2236, Model RCKIT 4001

For all Remote-Ready Models. Allows the fireplace to be turned on and off by using a hand-held remote control.



### WALL-MOUNT THERMOSTAT SWITCH

### Cat. No. F2040, Model GWMT1

For all models. The desired comfort setting can be selected on the wall thermostat and the log heater will automatically cycle from pilot to the heat setting selected.

### ACCESSORIES

Continued



WALL-MOUNT ON/OFF SWITCH Cat. No. F0245, Model GWMS2 For all models. Allows the gas log heater to be turned on and off with a wall switch.



LOG SCRAPS / FLOOR MEDIA KIT-1 Cat. No. F0250, Model VTA-LS5-1



LOG SCRAPS / FLOOR MEDIA KIT-2 Cat. No. F0251, Model VTA-LS5-2



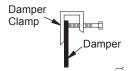
DECORATIVE ASH BED / CONTROL COVER KIT (SIX PACK) Cat. No. F1759, Model CDABKA-6 DECORATIVE ASH BED / CONTROL COVER KIT Cat. No. F0246, Model CDABKA

FLOOR MEDIA KIT

Cat. No. F1762, Model FM100 For all models. Includes volcanic stone, burner embers, and burner cinders



GAS APPLIANCE INSTALLATION KIT Cat. No. F0249, Model CIKA



### DAMPER CLAMP

Cat. No. F1760, Model GA6080

**For all models.** Permanently opens chimney flue damper for vented operation.

126829-01C

## SPECIFICATIONS

### BGE18PR

- Rating (Variable): 21,000/28,000 Btu/Hr
- Type Gas: Propane/LP
- · Ignition: Electronic
- Manifold Pressure: 7.9" W.C.
- Inlet Gas Pressure (in. of water): Max - 14" W.C., Min\* - 11" W.C.

### BGE18NR

- Rating (Variable): 19,000/28,000 Btu/Hr
- · Type Gas: Natural
- Ignition: Electronic
- Manifold Pressure: 3.4" W.C.
- Inlet Gas Pressure (in. of water): Max - 10.5" W.C., Min\* - 5" W.C.

### BGE2436PR

- Rating (Variable): 27,000/39,000 Btu/Hr
- Type Gas: Propane/LP
- · Ignition: Electronic
- Manifold Pressure: 7.9" W.C.
- Inlet Gas Pressure (in. of water): Max - 14" W.C., Min\* - 11" W.C.

### BGE2436NR

- Rating (Variable): 25,000/39,000 Btu/Hr
- · Type Gas: Natural
- · Ignition: Electronic
- Manifold Pressure: 3.4" W.C.
- Inlet Gas Pressure (in. of water): Max - 10.5" W.C., Min\* - 5" W.C.

\*For purpose of input adjustment

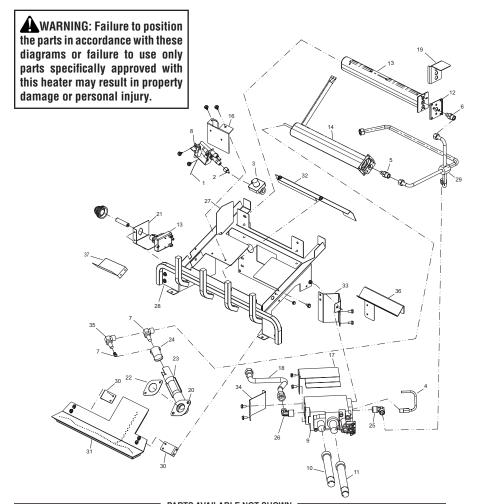
	GLOW RAMP™ BURNERS			
Cat. No.	Model	Description		
F0040	BGE18NR	18" Millivolt, Ramp Burner, Embers, Natural Gas		
F0044	BGE18PR	18" Millivolt, Ramp Burner, Emberss, Propane Gas		
F0048	BGE2436NR	24" Millivolt, Ramp Burner, Emberss, Natural Gas		
F0051	BGE2436PR	24" Millivolt, Ramp Burner, Embers, Propane Gas		
		LOG SETS		
F0053	LBG18BM	18" Boulder Mountain™, Concrete Log Set		
F0054	LBG24BM	24" Boulder Mountain, Concrete Log Set		
F0055	LBG30BM	30" Boulder Mountain, Concrete Log Set		
F0056	LBG18SM	18" Smokey Mountain™, Ceramic Fiber Log Set		
F0057	LBG24SM	24" Smokey Mountain, Ceramic Fiber Log Set		
F0058	LBG30SM	30" Smokey Mountain, Ceramic Fiber Log Set		
F1714	F1714 LBG36SM 36" Smokey Mountain, Ceramic Fiber Log Set			

NOTES:

• 18" log sets can only be used with 18" burners.

• 24", 30" and 36" log sets can only be used with 24" burners.

### REMOTE-READY CONTROL MODELS BGE18NR, BGE18PR, BGE2436NR, BGE2436PR



KEV		PARIS AV		I SHOWN	f	:	t
KEY NO.	PART NO.	DESCRIPTION	BGE18NR	BGE18PR	BGE2436NR	BGE2436PR	QTY.
	J3720	Wire Harness	•	•	•	•	1
	J3658	Warning Plate	•	•	•	•	1
	J3846	Lighting Instruction Plate	•	•	•	•	1
	J3664	Caution Decal	•	•	•	•	1
	J3689	Hardware Kit	•	•	•	•	1
	80L42	Volcanic Stone, FDVS	•	•	•	•	1
	J6504	Left Ember Chunk #1			•	•	1
	J6505	Middle Ember Chunk #2			•	•	1
	J6506	Right Ember Chunk #3			•	•	1
	J6208	Glowing Embers (rockwool)	•	•	•	•	1
	J6207	Platinum Embers	•	•	•	•	1
	J3656	Switch	•	•	•	•	1
	J3793	Wire Harness	•	•	•	•	1
**	a field realesse	de la carante					

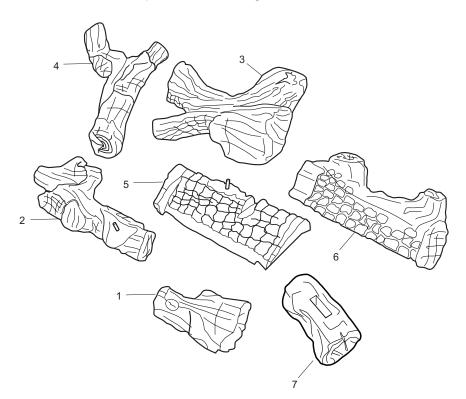
\*\* Not a field replaceable part.

This list contains replaceable parts used in your appliance. When ordering parts, follow the instructions listed under <u>*Replacement Parts*</u> on *Page 33* of this manual.

KEY							
NO.	PART NO.	DESCRIPTION	BGE18NR	BGE18PR	BGE2436NR	BGE2436PR	QTY.
1	J3571	Cable Igniter	•	•	•	•	1
2	J3635	Pilot Tube LP	1	•		•	1
	J3637	Pilot Tube NG	•		•		1
3	J3654	Pilot Regulator	•		•		1
4	J3660	Pilot Tubing	•		1		
5	J3671	Orifice, 0.0750	•		•	-	1
	J3674	Orifice, 0.0400		•			1
	J3679	Orifice, 0.0470				•	1
6	J3674	Orifice, 0.0400	1	•			1
	J3677	Orifice, 0.0595	•	-			1
	J3678	Orifice, 0.0720	-		•		1
_	J3679	Orifice, 0.0470	1	-		•	1
7	J4725	Orifice Elbow	•		•		1
	J4726	Orifice Elbow		-		•	1
0	J8079	Orifice, 0.0280		•			1
8	J3830	Pilot, ODS LP	1	•		•	1
0	J3831	Pilot, ODS NG	•		•		1
9	J3836	Gas Valve NG	•		•		1
10	J3837	Gas Valve LP		•		•	1
10	J3842	Knob Extension Pilot			•	•	1
11 12	J3843 **	Knob Extension HI-LO	•	•	•	•	1
12		Plate, NG Conversion				•	1
13 14	J4596 J4818	Electronic Igniter Front Ramp Burner	•	•	•	•	1
14	J4819	Front Ramp Burner	•	•		_	1
15	J4923				•	•	1
10	J4923 J4924	Rear Ramp Burner Rear Ramp Burner					1
16	J4842	Pilot Bracket	•				1
10	J4846	Heat Shield					1
18	J8174	Flex Tube					1
10 19	J5674	Air Shield		-			1
20	J3547	Captive Washer Nut			•		2
20 21	J6144	Igniter Bracket					2
22	J5456	Burner Gasket					1
22	J5416	Venturi			•		1
24	J4886	Air Shutter	•				1
25	J5418	Elbow	•	•	•	•	1
26	J3564	Elbow	•	•	•	•	1
27	00004	LIDOW					
28	**	Assembly, Ramp Base	•	•	•	•	1
29	RP125468-01	Burner Inlet Tube	•	•			1
	J6488	Burner Inlet Tube			•	•	1
30	J6397	Pan Burner Bracket	•	•	•	•	2
31	J6398	Pan Burner Assembly	•	•			1
	J6399	Pan Burner Assembly	-	-	•	•	1
32	RP125489-01	Air Shield	•	•			1
	RP125489-02	Air Shield	1	-	•	•	1
33	F3177	Valve Support Bracket	•	•	•	•	1
34	F3178	Valve Support Bracket	•	•	•	•	1
35	J6127	Orifice Holder		•			1
36	J6490	Log Support Bracket	1	İ	•	•	1
37	J5535	Log Support Bracket			•	•	1

### LOG MODELS LBG18SM, LBG24SM, LBG30SM (SMOKEY MOUNTAIN)

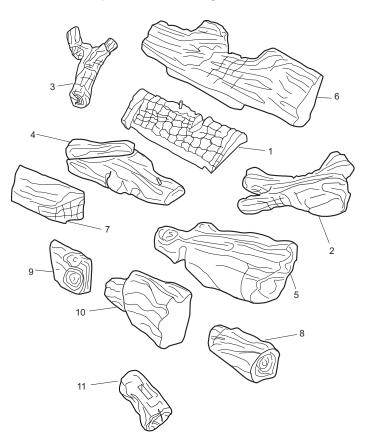
This list contains replaceable parts used in your appliance. When ordering parts, follow the instructions listed under <u>Replacement Parts</u> on **Page 33** of this manual.



KEY	MODEL NUMBER				
NO.	LBG18SM	LBG24SM	LBG30SM	DESCRIPTION	QTY
1	J5708	J5714	J5720	Front Right Log	1
2	J5707	J5713	J5719	Front Left Log	1
3	J5705	J6554	J6554	Middle Right Log	1
4	J5706	J5712	J5718	Middle Left Log	1
5	J5704	J5716	J5716	Bottom Log (Remote)	1
6	J5709	J5715	J5721	Rear Log	1
7	J6747	J6747	J6747	Switch Log	1

### LOG MODELS LBG36SM (SMOKEY MOUNTAIN)

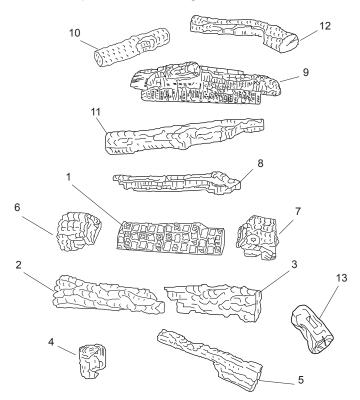
This list contains replaceable parts used in your appliance. When ordering parts, follow the instructions listed under <u>Replacement Parts</u> on **Page 33** of this manual.



KEY	MODEL NUMBER		
NO.	LBG36SM	DESCRIPTION	QTY
1	J5716	Bottom Log	1
2	J6554	Middle Right Log	1
3	J5718	Middle Left Log	1
4	J5722	Front Left Log	1
5	J5723	Front Right Log	1
6	J5724	Back Log	1
7	J5725	Left Small Front Log	1
8	J5726	Right Small Front Log	1
9	J5727	Left Control Cover Log	1
10	J5728	Right Control Cover Log	1
11	J6747	Switch Log	1

### LOG MODELS LBG18BM, LBG24BM, LBG30BM (BOULDER MOUNTAIN)

This list contains replaceable parts used in your appliance. When ordering parts, follow the instructions listed under <u>Replacement Parts</u> on **Page 33** of this manual.



### LOG MODELS LBG18BM, LBG24BM, LBG30BM

Cross reference log numbers.

KEY No.	LBG18BM	LOG ID No.	LBG24BM	LOG ID No.	LBG30BM	LOG ID No.	DESCRIPTION	QTY
1	J6631	NONE	J6641	NONE	J6641	NONE	Log, Ramp	1
2	J6632	D-064	J6642	D-057	J6652	D-038	Log, Left Front	1
3	J6633	D-065	J6643	D-058	J6653	D-039	Log, Right Front	1
4	J6634	D-073	J6644	D-048	J6644	D-048	Log, Left Front Ember Bed	1
5	J6635	D-072	J6645	D-047	J6645	D-047	Log, Right Front Ember Bed	1
6	F2943	D-066	J6646	D-040	J6646	D-040	Log, Left Middle	1
7	F2944	D-067	K2008	D-041	K2008	D-041	Log, Right Middle	1
8	J6636	D-068	J6647	D-042	J6647	D-042	Log, Rear Middle	1
9	J7518	D-069	J6648	D-043	J6648	D-043	Log, Rear	1
10	J6637	D-046	J6637	D-046	J6637	D-046	Log, Left Top	1
11	J6638	D-070	J6650	D-044	J6650	D-044	Log, Middle Crossover	1
12	J6639	D-071	J6651	D-045	J6651	D-045	Log, Top Rear	1
13	J5669	NONE	J5669	NONE	J5669	NONE	Log, LBGBM Switch	1

NOTES

# Innovative Hearth Products Superior<sup>®</sup> Brand Gas Log Set Limited Three Year Warranty

### THE WARRANTY

Innovative Hearth Products Limited Three Year Warranty ("IHP") warrants your Superior<sup>®</sup> brand Gas Log Set ("Product") to be free from defects in materials and workmanship at the time of manufacture. The logs and grate carry the Limited Three Year Warranty. After installation, if covered components manufactured by IHP are found to be defective in materials or workmanship during the Limited Three Year Warranty period and while the Product remains at the site of the original installation, IHP will, at its option, repair or replace the covered components. If repair or replacement is not commercially practical, IHP will, at its option, refund the purchase price or wholesale price of the IHP product, whichever is applicable. IHP will also pay IHP prevailing labor rates, as determined in its sole discretion, incurred in repairing or replacing such components. THERE ARE EXCLUSIONS AND LIMITATIONS to this Limited Three Year Warranty as described herein.

### **COVERAGE COMMENCEMENT DATE**

Warranty coverage begins on the date of purchase. In the case of new home construction, warranty coverage begins on the date of first occupancy of the dwelling or six months after the sale of the Product by an independent IHP dealer, whichever occurs earlier. The warranty shall commence no later than 24 months following the date of product shipment from IHP, regardless of the installation or occupancy date.

### **EXCLUSIONS AND LIMITATIONS**

This Limited Three Year Warranty applies only if the Product is installed in the United States or Canada and only if operated and maintained in accordance with the printed instructions accompanying the Product and in compliance with all applicable installation and building codes and good trade practices.

This warranty is non-transferable and extends to the original owner only. The Product must be purchased through a listed supplier of IHP and proof of purchase must be provided. The following do not carry the Limited Three Year Warranty but are warranted as follows:

Gas components – Repair or replacement for one year from the date of installation. Remote control – Repair or replacement for one year from the date of installation. Labor coverage – Prevailing IHP labor rates apply for the warranty period of the component.

#### Parts not otherwise listed carry a 90 day warranty from the date of installation.

### Whenever practicable, IHP will provide replacement parts, if available, for a period of 10 years from the last date of manufacture of the product.

IHP will not be responsible for: (a) damages caused by normal wear and tear, accident, riot, fire, flood or acts of God; (b) damages caused by abuse, negligence, misuse, or unauthorized alteration or repair of the Product affecting its stability or performance (The Product must be subjected to normal use. The Product is designed to burn either natural or propane gas only. Burning conventional fuels such as wood, coal or any other solid fuel will cause damage to the Product, will produce excessive temperatures and could result in a fire hazard.); (c) damages caused by failing to provide proper maintenance and service in accordance with the instructions provided with the Product; (d) damages, repairs or inefficiency resulting from faulty installation or application of the Product.

This Limited Three Year Warranty covers only parts and labor as provided herein. In no case shall IHP be responsible for materials, components or construction which are not manufactured or supplied by IHP or for the labor necessary to install, repair or remove such materials, components or construction. Additional utility bills incurred due to any malfunction or defect in equipment are not covered by this warranty. All replacement or repair components will be shipped F.O.B. from the nearest stocking IHP factory.

### LIMITATION ON LIABILITY

It is expressly agreed and understood that IHP's sole obligation and the purchaser's exclusive remedy under this warranty, under any other warranty, expressed or implied, or in contract, tort or otherwise, shall be limited to replacement, repair, or refund, as specified herein.

In no event shall IHP be liable for any incidental or consequential damages caused by defects in the Product, whether such damage occurs or is discovered before or after replacement or repair, and whether such damage is caused by IHP's negligence. IHP has not made and does not make any representation or warranty of fitness for a particular use or purpose, and there is no implied condition of fitness for a particular use or purpose.

IHP makes no expressed warranties except as stated in this Limited Three Year Warranty. The duration of any implied warranty is limited to the duration of this expressed warranty.

No one is authorized to change this Limited Three Year Warranty or to create for IHP any other obligation or liability in connection with the Product. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. The provisions of this Limited Three Year Warranty are in addition to and not a modification of or subtraction from any statutory warranties and other rights and remedies provided by law.

### **INVESTIGATION OF CLAIMS AGAINST WARRANTY**

IHP reserves the right to investigate any and all claims against this Limited Three Year Warranty and to decide, in its sole discretion, upon the method of settlement.

To receive the benefits and advantages described in this Limited Three Year Warranty, the appliance must be installed and repaired by a licensed contractor approved by IHP.

Contact IHP at the address provided herein to obtain a listing of approved dealers/distributors. IHP shall in no event be responsible for any warranty work done by a contractor that is not approved without first obtaining LHP's prior written consent.

### HOW TO REGISTER A CLAIM AGAINST WARRANTY

In order for any claim under this warranty to be valid, you must contact the IHP dealer/distributor from which you purchased the product. If you cannot locate the dealer/ distributor, then you must notify IHP in writing. IHP must be notified of the claimed defect in writing within 90 days of the date of failure. Notices should be directed to the IHP Warranty Department at 1769 East Lawrence Street; Russellville, AL 35654 or visit our website at WWW.SUPERIORFIREPLACES.US.COM.

### SuperiorFireplaces.us.com

Record the following important information about your appliance:

Appliance model number	
Appliance serial number	
Date appliance was Installed	
Type of gas appliance uses	
Dealer name	

IHP reserves the right to make changes at any time, without notice, in design, materials, specifications, prices and also to discontinue colors, styles and products. Consult your local distributor for fireplace code information.





P/N 126828-01 Rev. B 10/2016





Report No. F09-100



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 ERTIFIED NFI Gas Specialists.

# Installation and Operation Instructions

# Unvented (Vent-Free) Gas Log Heater

BGE18NE	BGE18PE	BGE2436NE	BGE2436PE
use with log sets			
use with log sets LBG18BM	LBG	18SM	LBG36SM
use with log sets LBG18BM LBG24BM		18SM 24SM	LBG36SM

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

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 gases.

WARNING: This appliance is for installation only in a solid-fuel-burning masonry or UL127 factory-built fireplace or in a listed ventless firebox enclosure. It is design-certified for these installations in accordance with ANSI Z21.11.2. Exception: DO NOT install this appliance in a factory-built fireplace that includes instructions stating it has not been tested or should not be used with unvented gas logs.

This is an unvented gas-fired heater. It uses air (oxygen) from the room in which it is installed. Provisions for adequate combustion and ventilation air must be provided. Refer to Air for Combustion and Ventilation section on Page 6 of this manual.

# **WARNING**:

# FIRE OR EXPLOSION HAZARD

Failure to follow safety warnings exactly could result in serious injury, death, or property damage.

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

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# SAFETY

A WARNING: Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual for correct installation and operational procedures. For assistance or additional information consult a qualified installer, service agency or the gas supplier.

A WARNING: This appliance is for installation only in a solid-fuel-burning masonry or UL127 factorybuilt fireplace or in a listed ventless firebox enclosure. It is design-certified for these installations in accordance with ANSI Z21.11.2. Exception: DO NOT install this appliance in a factory-built fireplace that includes instructions stating it has not been tested or should not be used with unvented gas logs.

WARNING: This is an unvented gas-fired heater. It uses air (oxygen) from the room in which it is installed. Provisions for adequate combustion and ventilation air must be provided. Refer to <u>Air</u> for Combustion and Ventilation section on Page 6 of this manual.

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 gases.

\* Aftermarket: Completion of sale, not for purpose of resale, from the manufacturer

# SAFETY Continued

WARNING: This product contains and/or generates chemicals known to the state of California to cause cancer or birth defects or other reproductive harm.

IMPORTANT: Read this owner's manual carefully and completely before trying to assemble, operate or service this fireplace. Improper use of this fireplace can cause serious injury or death from burns, fire, explosion, electrical shock and carbon monoxide poisoning.

# A DANGER: Carbon monoxide poisoning may lead to death!

**Carbon Monoxide Poisoning:** Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness or nausea. If you have these signs, the fireplace may not be working properly. **Get fresh air at once!** Have fireplace serviced. Some people are more affected by carbon monoxide than others. These include pregnant women, people with heart or lung disease or anemia, those under the influence of alcohol and those at high altitudes. Natural and Propane/LP gases are odorless. An odor-making agent is added to these gases. The odor helps you detect a gas leak. However, the odor added to the gas can fade. Gas may be present even though no odor exists.

Make certain you read and understand all warnings. Keep this manual for reference. It is your guide to safe and proper operation of this fireplace.

WARNING: Any change to this heater or its controls can be dangerous.

WARNING: Do not use a blower insert, heat exchanger insert or other accessory not approved for use with this heater.

WARNING: Do not allow fans to blow directly into the fireplace. Avoid any drafts that alter burner flame patterns. Ceiling fans can create drafts that alter burner flame patterns. Altered burner patterns can cause sooting.

Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.

Do not place clothing or other flammable material on or near the appliance. Never place any objects on the heater.

Heater base assembly becomes very hot when running heater. Keep children and adults away from hot surface to avoid burns or clothing ignition. Heater will remain hot for a time after shutdown. Allow surface to cool before touching.

Carefully supervise young children when they are in the room with heater.

You must operate this heater with the fireplace screen and hood in place. Make sure fireplace screen and hood are in place before running heater. The fireplace screen shall have openings for introduction of combustion air.

Keep the appliance area clear and free from combustible materials, gasoline and other flammable vapors and liquids.

# SAFETY Continued

- 1. 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.
- Do not place propane/LP supply tank(s) inside any structure. Locate propane/ LP supply tank(s) outdoors (propane/LP units only).
- 3. If you smell gas
  - shut off gas supply
  - 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 your gas supplier, call the fire department
- 4. This heater shall not be installed in a bedroom or bathroom.
- 5. Before installing in a solid fuel-burning fireplace, the chimney flue and firebox must be cleaned of soot, creosote, ashes and loose paint by a qualified chimney cleaner. Creosote will ignite if highly heated. A dirty chimney flue may create and distribute soot within the house. Inspect chimney flue for damage. If damaged, repair flue and firebox before operating heater.
- Do not burn solid-fuel in a masonry or UL127 factory-built fireplace in which a vent-free room heater is installed.
- 7. If fireplace has glass doors, never operate this heater with glass doors closed. Any glass doors shall be fully opened when the appliance is in operation. If you operate heater with doors closed, heat buildup inside fireplace will cause glass to burst. Make sure there are no obstructions across openings of fireplace.
- 8. To prevent the creation of soot, follow the instructions in <u>Cleaning and Maintenance</u>, **Page 30**.
- 9. Before using furniture polish, wax, carpet cleaner or similar products, turn heater off. If heated, the vapors from these products may create a white powder residue within burner box or on adjacent walls and furniture.

- This heater needs fresh, outside air ventilation to run properly. This heater has an Oxygen Depletion Sensing (ODS) safety shutoff system. The ODS shuts down the heater if enough fresh air is not available. See <u>Air for Combustion and Ventilation</u>, **Page 6**. If heater keeps shutting off, see <u>Troubleshooting</u>, **Page 33**.
- 11. Do not run heater
  - where flammable liquids or vapors are used or stored
  - under dusty conditions
- 12. Do not use this heater to cook food or burn paper or other objects.
- 13. Do not use heater if any part has been exposed to or under water. Immediately call a qualified service technician to inspect the room heater and to replace any part of the control system and any gas control which has been under water.
- 14. Do not operate heater if any log is broken. Do not operate heater if a log is chipped (dime-sized or larger).
- 15. Turn heater off and let cool before servicing, installing or repairing. Only a qualified service person should install, service or repair heater.
- 16. Make sure the remote is set to the OFF position when you are away from home for long periods of time.
- 17. Remote heaters must not be connected to any external electrical source.
- 18. Operating heater above elevations of 4,500 feet may cause pilot outage.
- To prevent performance problems, do not use propane/LP fuel tank of less than 100 lb. capacity (propane/LP units only).
- 20. Provide adequate clearances around air openings.

# **PRODUCT IDENTIFICATION**

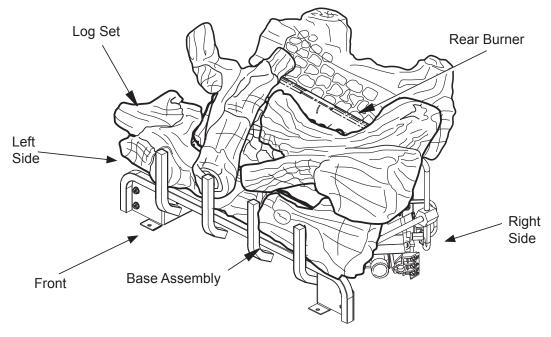


Figure 1 - Product Identification

# LOCAL CODES

Install and use appliance with care. Follow all local codes. In the absence of local codes, use the latest edition of *The National Fuel Gas Code, ANSI Z223.1/NFPA 54*\*.

### \*Available from:

American National Standards Institute, Inc. 25 West 43rd Street, 4th floor New York, NY 10036 National Fire Protection Association, Inc. 1 Batterymarch Park Quincy, MA 02169-7471

# UNPACKING

1. Remove logs and appliance base assembly from carton(s).

**NOTE**: Do not pick up appliance base assembly by burners. This could damage the appliance. Always handle base assembly by grate.

- 2. Remove all protective packaging applied to logs and appliance for shipment.
- Check appliance for any shipping damage. If appliance is damaged, promptly inform dealer where you purchased the appliance.

**CAUTION:** Do not remove the data plates from the grate assembly. The data plates contain important warranty and safety information.

# COMMONWEALTH OF MASSACHUSETTS REQUIREMENTS

These appliances are approved for installation in the US state of Massachusetts if the following additional requirements are met:

- Un-vented Room Heaters shall be installed in accordance with 527 CMR 30.
- Installation and repair must be done by a plumber or gas fitter licensed in the Commonwealth of Massachusetts.
- The flexible gas line connector used shall not exceed 36 inches (92 centimeters) in length.
- The individual manual shut-off must be a T-handle type valve.
- Unvented appliances may NOT be installed in bedrooms or bathrooms.
- A working smoke detector must be installed in the area where vent-free appliances are installed.

Seller of unvented propane or natural gas-fired supplemental room heaters shall provide to each purchaser a copy of 527 CMR 30 upon sale of the unit.

# **PRODUCT FEATURES**

# OPERATION

This heater is clean burning. It requires no outside venting. There is no heat loss out a vent or up a chimney. Heat is generated by both realistic flames and glowing coals. This heater is designed for vent-free operation with flue damper closed. It has been tested and approved to ANSI Z21.11.2 standard for unvented heaters. State and local codes in some areas prohibit the use of vent-free heaters.

# AIR FOR COMBUSTION AND VENTILATION

1. Unusually Tight Construction

2. Unconfined Space

heater fuel supply.

SAFETY DEVICE

3. Confined Space

The information on *Pages 6-8* will help you classify your space and provide adequate ventilation.

This heater has a pilot with an Oxygen Depletion Sensing (ODS) safety shutoff system. The

ODS/pilot is a required feature for vent-free room heaters. The ODS/pilot shuts off the

This heater has an electronic igniter to light

heater if there is not enough fresh air.

**ELECTRONIC IGNITION SYSTEM** 

### **Unusually Tight Construction**

The air that leaks around doors and windows may provide enough fresh air for combustion and ventilation. However, in buildings of unusually tight construction, you must provide additional fresh air.

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 one perm (6 x 10<sup>-11</sup> kg per pa-sec-m<sup>2</sup>) or less with openings gasketed or sealed and
- b. weather stripping has been added on openable windows and doors <u>and</u>
- 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.

If your home meets all three criteria above, you must provide additional fresh air. See <u>Ventilation Air From Outdoors</u>, Page 8.

If your home does not meet all three criteria above, proceed to <u>Determining</u> <u>Fresh-Air Flow For Heater Location</u>, below.

### **Confined and Unconfined Space**

The National Fuel Gas Code, ANSI Z223.1/ NFPA54 allows two methods for determining whether the space in which the heater is being

WARNING: This heater 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. Read the following instructions to ensure proper fresh air for this and other fuelburning appliances in your home.

Today's homes are built more energy efficient than ever. New materials, increased insulation and new construction methods help reduce heat loss in homes. Homeowners apply weather strip and caulk around windows and doors to keep the cold air out and the warm air in. During heating months, homeowners want their homes as airtight as possible.

While it is good to make your home energy efficient, your home needs to breathe. Fresh air must enter your home. All fuel-burning appliances need fresh air for proper combustion and ventilation.

Exhaust fans, some fireplaces, clothes dryers and some fuel-burning appliances draw air from the house to operate. You must provide adequate fresh air for these appliances. This will ensure proper venting of vented fuelburning appliances.

# PROVIDING ADEQUATE

The following are excerpts from National Fuel Gas Code, ANSI Z223.1/NFPA 54, Air for Combustion and Ventilation.

All spaces in homes fall into one of the three following ventilation classifications:

# AIR FOR COMBUSTION AND VENTILATION Continued

installed is confined or unconfined space. The standard method defines a confined space as a space whose volume is less than 50 cubic feet per 1,000 Btu/hr (4.8 m<sup>3</sup> per kw) of the aggregate input rating of all appliances installed in that space and an unconfined space as a space whose volume is not less than 50 cubic feet per 1,000 Btu/hr (4.8 m<sup>3</sup> 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.

Where the air infiltration rate of a structure is known, the Known Air Infiltration Rate Method may be used. Follow The National Fuel Gas Code, ANSI Z223.1/NFPA 54 to use this method to determine if the space is confined or unconfined.

\* Adjoining rooms are communicating only if there are doorless passageways or ventilation grills between them.

## DETERMINING FRESH-AIR FLOW FOR HEATER LOCATION

### Determining if You Have a Confined or Unconfined Space Using the Standard Method

Use this work sheet to determine if you have a confined or unconfined space.

**Space:** Includes the room in which you will install fireplace plus any adjoining rooms with doorless passageways or ventilation grills between the rooms.

 Determine the volume of the space (length x width x height).

Length x Width x Height = \_\_\_\_\_cu. ft. (volume of space)

*Example:* Space size 20 ft. (length) x 16 ft. (width) x 8 ft. (ceiling height) = 2560 cu. ft. (volume of space)

If additional ventilation to adjoining room is supplied with grills or openings, add the volume of these rooms to the total volume of the space. 2. Multiply the space volume by 20 to determine the maximum Btu/Hr the space can support.

\_\_\_\_\_ (volume of space) x 20 = (Maximum Btu/Hr the space can support) *Example:* 2560 cu. ft. (volume of space) x 20 = 51,200 (maximum Btu/Hr the space can support)

3. Add the Btu/Hr of all fuel burning appliances in the space.

Vent-free fireplace		Btu/Hr
Gas water heater*		Btu/Hr
Gas furnace		Btu/Hr
Vented gas heater		Btu/Hr
Gas fireplace logs		Btu/Hr
Other gas appliances*	+	Btu/Hr
Total	=	Btu/Hr
* Do not include direct vent das appliances		

\* Do not include direct-vent gas appliances. Direct-vent draws combustion air from the outdoors and vents to the outdoors.

Example:

Gas water heater	40,000	Btu/Hr
Vent-free fireplace	+ 33,000	Btu/Hr
Total	= 73,000	Btu/Hr

4. Compare the maximum Btu/Hr the space can support with the actual amount of Btu/Hr used.

\_\_\_\_ Btu/Hr (maximum can support)

\_\_\_\_\_ Btu/Hr (actual amount used)

*Example:* 51,200 Btu/Hr (maximum the space can support) 73,000 Btu/Hr (actual amount of Btu/Hr used)

The space in the above example is a confined space because the actual Btu/Hr used is more than the maximum Btu/Hr the space can support. You must provide additional fresh air. Your options are as follows:

- A. Rework worksheet, adding the space of an adjoining room. If the extra space provides an unconfined space, remove door to adjoining room or add ventilation grills between rooms. See <u>Ventilation Air From Inside Building</u>, Page 8.
- B. Vent room directly to the outdoors. See <u>Ventilation Air From Outdoors</u>, **Page 8**.
- C. Install a lower Btu/Hr fireplace, if lower Btu/ Hr size makes room unconfined.

If the actual Btu/Hr used is less than the maximum Btu/Hr the space can support, the space is an unconfined space. You will need no additional fresh air ventilation.

# AIR FOR COMBUSTION AND VENTILATION Continued

WARNING: If the area in which the heater may be operated does not meet the required volume for indoor combustion air, combustion and ventilation air shall be provided by one of the methods described in the National Fuel Gas Code, ANSI Z223.1/NFPA 54, the International Fuel Gas Code, or applicable local codes.

# **VENTILATION AIR**

### Ventilation Air From Inside Building

This fresh air would come from an adjoining unconfined space. When ventilating to an adjoining unconfined space, you must provide two permanent openings: one within 12" of the ceiling and one within 12" of the floor on the wall connecting the two spaces (see options 1 and 2, **Figure 2**). You can also remove door into adjoining room (see option 3, **Figure 2**). Follow the National Fuel Gas Code, ANSI Z223.1/NFPA 54, Air for Combustion and Ventilation for required size of ventilation grills or ducts.

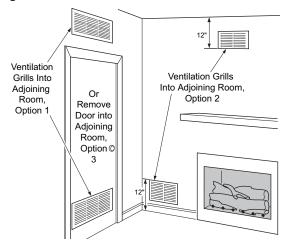


Figure 2 - Ventilation Air from Inside Building

### Ventilation Air From Outdoors

Provide extra fresh air by using ventilation grills or ducts. You must provide two permanent openings: one within 12" of the ceiling and one within 12" of the floor. Connect these items directly to the outdoors or spaces open to the outdoors. These spaces include attics and crawl spaces. Follow the *National Fuel Gas Code, ANSI Z223.1/NFPA 54, Air for Combustion and Ventilation* for required size of ventilation grills or ducts.

**IMPORTANT**: Do not provide openings for inlet or outlet air into attic if attic has a thermostat-controlled power vent. Heated air entering the attic will activate the power vent.

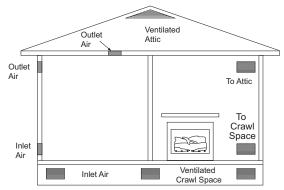


Figure 3 - Ventilation Air from Outdoors

NOTICE: This heater is intended for use as supplemental heat. Use this heater along with your primary heating system. Do not install this heater as your primary heat source. If you have a central heating system, you may run system's circulating blower while using heater. This will help circulate the heat throughout the house. In the event of a power outage, you can use this heater as your primary heat source.

WARNING: A qualified service person must install heater. Follow all local codes.

WARNING: Before installing in a solid fuel-burning fireplace, the chimney flue and firebox must be cleaned of soot, creosote, ashes and loose paint by a qualified chimney cleaner. Creosote will ignite if highly heated. A dirty chimney flue may create and distribute soot within the house. Inspect chimney and firebox flue for damage. If damaged, repair flue and firebox before operating heater.

WARNING: Any outside air ducts and/or ash dumps in the fireplace shall be permanently closed at time of appliance installation. WARNING: Seal any fresh air vents or ash clean-out doors located on floor or wall of fireplace. If not, drafting may cause pilot outage or sooting. Use a heat-resistant sealant. Do not seal chimney flue damper.

WARNING: Never install the heater

- in a bedroom or bathroom
- in a recreational vehicle
- where curtains, furniture, clothing or other flammable objects are less than 36" from the front and 42" from top heater, For side clearances see *Figure 4 Page 10*
- in high traffic areas
- in windy or drafty areas

A CAUTION: This heater creates warm air currents. These currents move heat to wall surfaces next to heater. Installing heater next to vinyl or cloth wall coverings or operating heater where impurities (such as, but not limited to, tobacco smoke, aromatic candles, cleaning fluids, oil or kerosene lamps, etc.) in the air exist, may discolor walls or cause odors.

*IMPORTANT:* Vent-free heaters add moisture to the air. Although this is beneficial, installing heater in rooms without enough ventilation air may cause mildew to form from too much moisture. See <u>Air for Combustion and Ventilation</u>, **Page 6**.

# INSTALLATION Continued

# CHECK GAS TYPE

Use the correct type of gas (natural or propane/ LP). If your gas supply is not the correct gas type, do not install appliance. Call dealer where you purchased the appliance for proper type appliance.

WARNING: This appliance is equipped for either natural gas or propane/LP gas but not both. Gas type is indicated on the rating plate. Field conversion is not permitted.

# INSTALLATION AND CLEARANCES FOR VENT-FREE OPERATION

WARNING: Maintain the minimum clearances. If you can, provide greater clearances from floor, ceiling and adjoining wall.

Minimum Fireplace Clearance to Combustible Materials Side Wall 16", Ceiling 42", Floor 5", Front 36"

LOG SIZING REQUIREMENTS				
	Minimum Firebox Size			Size
Log Set Models	Height	Depth	Front Width	Rear Width*
LBG18SM	17"	13.5"	20"	14"
LBG24SM	17"	13.5"	26"	18"
LBG30SM	21"	13.5"	32"	22"
LBG36SM	21"	13.5"	38"	27.5"
LBG18BM	17"	14.5"	26"	20"
LBG24BM	17"	14.5"	29"	22"
LBG30BM	21"	14.5"	32"	22"

Carefully follow these instructions. This will ensure safe installation into a masonry, UL127-listed manufactured fireplace or listed vent-free firebox.

### Minimum Clearances For Side Combustible Material, Side Wall and Ceiling

A. Clearances from the side of the fireplace cabinet to any combustible material and wall should follow diagram in *Figure 4*. *Example:* The face of a mantel, bookshelf, etc. is made of combustible material and protrudes 3-1/2" from the wall. This combustible material must be 4" from the side of the fireplace cabinet (see *Figure 4*).

**NOTE**: When installing your gas logs into a manufactured firebox, follow firebox manufacturer's instructions for minimum clearances to combustible materials.

B. Clearances from the top of the fireplace opening to the ceiling should not be less than 42".

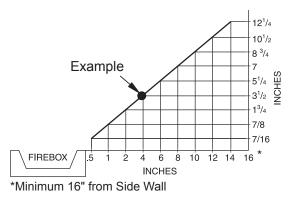


Figure 4 - Minimum Clearance for Combustible to Wall

### MINIMUM NONCOMBUSTIBLE MATERIAL CLEARANCES

### If Not Using Mantel

**NOTE**: If using a mantel proceed to If Using Mantel. If not using a mantel, follow the information on this page.

You must have noncombustible material(s) above the fireplace opening. Noncombustible materials (such as slate, marble, tile, etc.) must be at least 1/2" thick. With sheet metal, you must have noncombustible material behind it. Noncombustible material must extend at least 8" up (for all models). If noncombustible material is less than 12", you must install

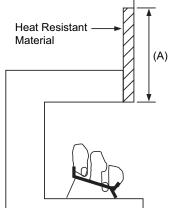
# INSTALLATION Continued

the fireplace hood accessory (24", 30" and 36" Models Only). See *Figure 5* for minimum clearances.

Noncombustible Material Distance (A)	Requirements for Safe Installation
12" or more	Noncombustible material OK.
Between 8" and 12"	24", 30" or 36" Models: Install fireplace hood accessory (GA6050 - see <u>Accessories</u> , <b>Page 40</b> ). 18" Model: Noncombus- tible material OK.
Less than 8"	Noncombustible material must be extended to at least 8". See <u>Between</u> <u>8" and 12"</u> , above. If you cannot extend material, you must operate heater with flue damper open.

### If Using Mantel

You must have noncombustible material(s) above the fireplace opening. Noncombustible materials (such as slate, marble, tile, etc.) must be at least 1/2" thick. With sheet metal, you must have noncombustible material behind it. Noncombustible material must extend at least 8" up (for all models). If noncombustible material is less than 12", you must install the fireplace hood accessory (24", 30" and 36" Models Only). Even if noncombustible material is more than 12", you may need the hood accessory to deflect heat away from your mantel shelf. See *Figures 5 and 6* and *Figure 7, Page 12*, for minimum clearances.





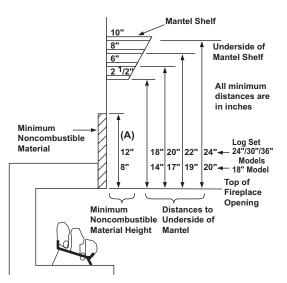
Minimum clearance requirements include any projections such as shelves, window sills, mantels, etc. above the appliance.

## MANTEL CLEARANCES

In addition to meeting noncombustible material clearances, you must also meet required clearances between fireplace opening and mantel shelf. If you do not meet the clearances listed below, you will need a hood.

### **Determining Minimum Mantel Clearance**

If you meet minimum clearance between mantel shelf and top of fireplace opening, a hood is not required (see *Figure 6*).



### Figure 6 - Minimum Mantel Clearances Without Using Hood

# Determining Minimum Mantel Clearance When Using a Hood

If minimum clearances in *Figure 6*, are not met, you must have a hood. When using a hood there are still certain minimum mantel clearances required. Follow minimum clearances shown in *Figure 7, Page 12*, when using hood.

NOTICE: Surface temperatures of adjacent walls and mantels become hot during operation. Walls and mantels above the firebox may become hot to the touch. If installed properly, these temperatures meet the requirement of the national product standard. Follow all minimum clearances shown in this manual.

# INSTALLATION

Continued

NOTICE: If your installation does not meet the minimum clearances shown, you must do one of the following:

- operate the logs only with the flue damper open
- raise the mantel to an acceptable height
- remove the mantel

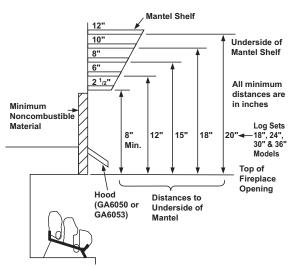
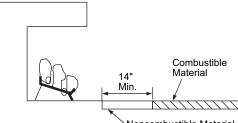


Figure 7 - Minimum Mantel Clearances When Using Hood

# **FLOOR CLEARANCES**

- A. If installing appliance on the floor level, you must maintain the minimum distance of 14" to combustibles (see *Figure 8*).
- B. If combustible materials are less than 14" to the fireplace, you must install appliance at least 5" above the top surface of combustible flooring including tile and carpet (see *Figure 9*).



Noncombustible Material

Figure 8 - Minimum Fireplace Clearances If Installed at Floor Level

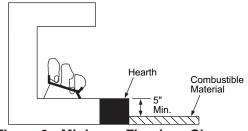


Figure 9 - Minimum Fireplace Clearances Above Combustible Flooring

# INSTALLING HEATER BASE ASSEMBLY

WARNING: You must secure this heater to fireplace floor. If not, heater will move when you adjust controls. Moving heater may cause a gas leak.

WARNING: If installing in a sunken fireplace, special care is needed. You must raise the fireplace floor to allow access to heater control panel. This will ensure adequate air flow and guard against sooting and controls being damaged. Raise fireplace floor with noncombustible material. Make sure material is secure.

A CAUTION: Do not pick up heater base assembly by burners. This could damage heater. Only handle base assembly by grates.

*IMPORTANT:* Make sure the heater burners are level. If heater is not level, heater will not work properly.

## Installation Items Needed

- hardware package (provided with heater)
- approved flexible gas hose and fittings (if allowed by local codes)
- sealant (resistant to propane/LP gas, not provided)
- electric drill with 3/16" masonry drill bit

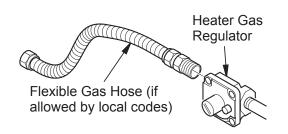
# INSTALLATION

# Continued

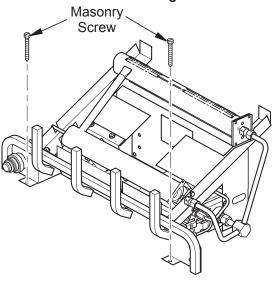
1. Apply pipe joint sealant lightly to male threads of gas fitting (provided). Connect approved flexible gas hose to inlet side of gas control (see *Figure 10*).

*IMPORTANT:* Hold gas regulator with wrench when connecting flexible gas hose.

- 2. Position heater base assembly in fireplace.
- 3. Mark screw locations through holes in front panel of base (see *Figure 11*). If installing in a brick-bottom fireplace, mark screw locations in mortar joint of bricks.
- 4. Remove heater base from fireplace.
- 5. Drill holes at marked locations using 3/16" drill bit.
- 6. Attach base, through holes in front panel of base, to fireplace floor using masonry screws provided in hardware package (see *Figure 11*).
- Connect to gas supply. See <u>Connecting</u> <u>To Gas Supply</u>.



### Figure 10 - Attaching Flexible Gas Hose to Heater Gas Regulator



### Figure 11 - Attaching Base to Fireplace Floor

# **CONNECTING TO GAS SUPPLY**

WARNING: This appliance requires a 1/2" NPT (National Pipe Thread) inlet connection to the pressure regulator.

WARNING: A qualified service person must connect heater to gas supply. Follow all local codes.

CAUTION: Never connect propane/LP fireplace directly to the propane/LP supply. This heater requires an external regulator (not supplied). Install the external regulator between the heater and propane/LP supply.

WARNING: Never connect natural gas fireplace to private (non-utility) gas wells. This gas is commonly known as wellhead gas.

# Installation Items Needed

Before installing heater, make sure you have the items listed below.

- external regulator (supplied by installer)
- piping (check local codes)
- sealant (resistant to propane/LP gas)
- equipment shutoff valve \*
- test gauge connection \*
- sediment trap
- tee joint
- pipe wrench
- approved flexible gas line with gas connector (if allowed by local codes)
- \* An equipment shutoff valve with 1/8" NPT tap is an acceptable alternative to test gauge connection. Purchase the optional equipment shutoff valve from your dealer.

# INSTALLATION Continued

For propane/LP units, the installer must **PROPANE/LP** From supply an external regulator. The external External Regulator regulator will reduce incoming gas pressure. You must reduce incoming gas pressure to between 11" and 14" of water. If you do not reduce incoming gas pressure, heater regulator damage could occur. Install external regulator with the vent pointing down as shown in Figure 12. Pointing the vent down protects it from freezing rain or sleet.

**A** CAUTION: Use only new, black iron or steel pipe. Internally-tinned copper tubing may be used in certain areas. Check your local codes. Use pipe of 1/2" diameter or greater to allow proper gas volume to heater. If pipe is too small, undue loss of volume will occur.

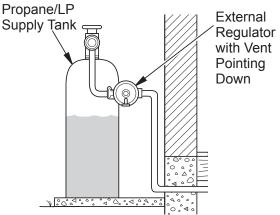


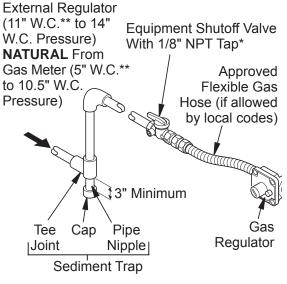
Figure 12 - External Regulator With Vent **Pointing Down** 

Installation must include an equipment shutoff valve, union and plugged 1/8" NPT tap. Locate NPT tap within reach for test gauge hook up. NPT tap must be upstream from heater (see Figure 13).

IMPORTANT: Install equipment shutoff valve in an accessible location. The equipment shutoff valve is for turning on or shutting off the gas to the appliance.

Check your building codes for any special requirements for locating equipment shutoff valve to fireplaces.

Apply pipe joint sealant lightly to male NPT threads. This will prevent excess sealant from going into pipe. Excess sealant in pipe could result in clogged heater valves.



## Figure 13 - Gas Connection

- \* Purchase the optional equipment shutoff valve from your dealer.
- \*\*Minimum inlet pressure for purpose of input adjustment.

# A WARNING: Use pipe joint sealant that is resistant to liquid petroleum (LP) gas.

We recommend that you install a sediment trap in supply line as shown in Figure 13. Locate sediment trap where it is within reach for cleaning. Install in piping system between fuel supply and heater. Locate sediment trap where trapped matter is not likely to freeze. A sediment trap traps moisture and contaminants. This keeps them from going into heater controls. If sediment trap is not installed or is installed wrong, heater may not run properly.

**A** CAUTION: Avoid damage to gas control. Hold gas control with wrench when connecting it to gas piping and/or fittings.

# INSTALLATION Continued

# CHECKING GAS CONNECTIONS

WARNING: Test all gas piping and connections, internal and external to unit, for leaks after installing or servicing. Correct all leaks at once.

WARNING: Never use an open flame to check for a leak. Apply a noncorrosive leak detection fluid to all joints. Bubbles forming show a leak. Correct all leaks at once.

CAUTION: Make sure external regulator has been installed between propane/LP supply and heater. See guidelines under <u>Connecting to Gas Supply</u>, Page 13.

## PRESSURE TESTING GAS SUPPLY PIPING SYSTEM

# Test Pressures In Excess Of 1/2 PSIG (3.5 kPa)

- Disconnect appliance with its appliance main gas valve (control valve) and equipment shutoff valve from gas supply piping system. Pressures in excess of 1/2 psig (3.5 kPa) will damage heater regulator.
- 2. Cap off open end of gas pipe where equipment shutoff valve was connected.
- Pressurize supply piping system by either opening propane/LP supply tank valve for propane/LP gas or opening main gas valve located on or near gas meter for natural gas or using compressed air.
- Check all joints of gas supply piping system. Apply noncorrosive leak detection fluid to all joints. Bubbles forming show a leak.
- 5. Correct all leaks at once.
- Reconnect heater and equipment shutoff valve to gas supply. Check reconnected fittings for leaks.

# Test Pressures Equal To or Less Than 1/2 PSIG (3.5 kPa)

- 1. Close equipment shutoff valve (see *Figure 14*).
- Pressurize supply piping system by either opening propane/LP supply tank valve for propane/LP gas or opening main gas valve located on or near gas meter for natural gas or using compressed air.
- Check all joints from gas meter to equipment shutoff valve for natural gas or propane/LP supply to equipment shutoff valve for propane/LP (see *Figure 15 or 16*). Apply noncorrosive leak detection fluid to all joints. Bubbles forming show a leak.
- 4. Correct all leaks at once.

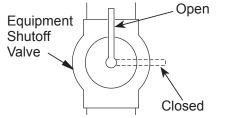


Figure 14 - Equipment Shutoff Valve

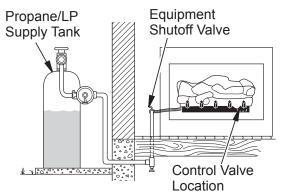


Figure 15 - Checking Gas Joints (Propane/LP Only)

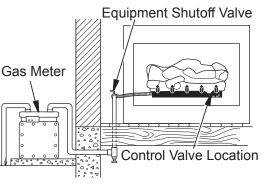


Figure 16 - Checking Gas Joints (Natural Gas Only)

### PRESSURE TESTING HEATER GAS CONNECTIONS

- 1. Open equipment shutoff valve (see *Figure* 14, Page 15).
- Open main gas valve located on or near gas meter for natural gas or open propane/ LP supply tank valve.
- 3. Make sure control knob of heater is in the OFF position.
- Check all joints from equipment shutoff valve to gas valve (see *Figure 15 or 16, Page 15*). Apply noncorrosive leak detection fluid to all joints. Bubbles forming show a leak.
- 5. Correct all leaks at once.
- Light heater (see <u>Operation</u>, **Page 23** depending on your model). Check all other internal joints for leaks.
- 7. Turn off heater (see <u>To Turn Off Gas to</u> <u>Appliance</u>, **Page 23**.

# POWER SUPPLY AND BATTERY IN-STALLATION

It is helpful to have a flashlight so you can see the connections as described below. Locate the battery power supply. It is the black box with the red and black wires. Locate the control module (see *Figure 17*). Connect the battery power supply to the control module by plugging the battery power supply to the mating receptacle on the control module. The receptacle is located on the side of the black control module next to the word "SUPPLY" which is molded in the control module's black housing (see *Figure 17*). Be certain to push the plug fully into the receptacle. Install batteries in the battery power supply and hand held remote control.

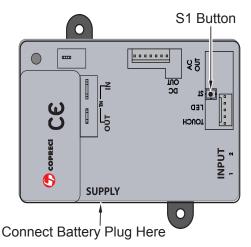
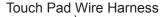


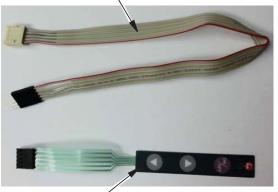
Figure 17 - Control Module

## **TOUCH PAD INSTALLATION**

Locate the touch pad wire harness and the touch pad control (see *Figure 18*). They are shipped from the factory in the clear plastic bag with your owner's manual. Connect the black plastic connectors together as shown in *Figure 19*. Connect the remaining end with the white plastic connector to the control module in the socket marked TOUCH LED (see *Figure 20*).

**NOTE**: The touch pad includes a red LED display light. If the LED remains on, the black plug is connected upside down. You must unplug the touch pad control from the touch pad wire harness, turn over, and reconnect.





Touch Pad Control Figure 18 - Touch Pad Wire Harness and Touch Pad Control

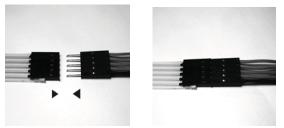


Figure 19 - Touch Pad Control Cable



Figure 20 - Connecting end of Touch Pad Cable

#### **INSTALLING LOGS**

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

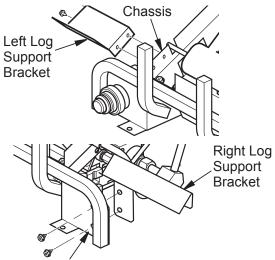
BGE Series Burner System - Log Compatibility Chart					
Burner System Models	Fiber Log Models	Concrete Log Models			
BGE18NE BGE18PE	LBG18SM	LBG18BM			
BGE2436NE BGE2436PE	LBG24SM LBG30SM LBG36SM	LBG24BM LBG30BM			

Figure 21 - BGE Series Burner System-Log Compatibility Chart

#### Log Support Brackets

If installing a LBG36SM, attach log support brackets before installing logs. These brackets are provided with the BGE2436 series burner systems.

- 1. Install left bracket to left side of chassis using 2 screws provided (see *Figure 22*).
- Install right bracket to right front of chassis using 2 screws provided (see *Figure 22*). This bracket will also be used as remote control bracket if remote is installed.



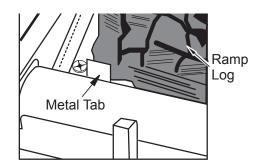
Right Front of Chassis Figure 22- Installing Log Support Brackets

## FIBER LOG MODELS LBG(18,24,30,36)SM

**NOTE**: Your appliance may vary from model shown but log placement will be the same.

- 1. Place bottom log in center of the base assembly as shown in *Figure 23*. The log must sit flat on the black sheet metal and behind the left metal tab as shown in *Figure 23-A*.
- 2. Rest rear log in back corner sections of base assembly as shown in *Figure 23*. Make sure log is completely vertical and not leaning in toward burner where flame will touch the log.
- 3. Position front right log against right side of grate prongs (see *Figure 23*).
- 4. Position front left log against left side of grate prongs (see *Figure 23*).
- Front Left Log Rear Log Grate Prongs Bottom Log Base Assembly Front Right Log

Figure 23 - Installing Log Set





- 5. Place middle right log over front right and bottom logs as shown in *Figure 24*. Be sure hole in middle right log seats over pin in bottom log.
- 6. Place middle left log over front left and bottom logs as show in *Figure 24*. Be sure hole in middle left log seats over pin in front left log.
- 7. For LTF36SM, the front right and left logs are longer and are supported with brackets on each end (see *Figure 25*). Place left and right small front logs under left bracket and beside right bracket.
- 8. For LBG36SM, position left and right control cover logs as shown in *Figure 25*. These may be placed as desired to hide controls.

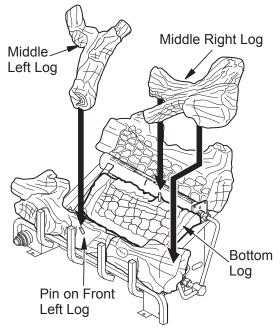
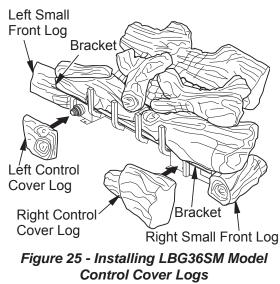


Figure 24 - Installing Log Sets





LBG36SM MODELS Figure 26 - Correct Log Placement

#### CONCRETE LOG MODELS LBG(18,24,30)BM

**NOTE**: Your appliance may vary from model shown but log placement will be the same.

1. Place fiber ramp log in center of chassis as shown in *Figure 27*. The fiber ramp log can be identified by the shape and much lighter weight when compared to the other logs. The log must sit flat on the black sheet metal and behind the left metal tab as shown. Make sure the side marked "BOTTOM" is setting down.

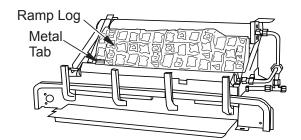


Figure 27 - Installing Fiber Ramp Log

- 2. Place front left and front right logs as shown in *Figure 28*.
- 3. Place left ember bed log as shown in *Fig-ure 29*. The log has groove on one side that sets on the ember bed pan. The back side of this log needs to rest against the

front of the base assembly. Make sure the flame from the ember pan does not touch the ember bed log.

4. The right ember bed log 24" & 30" (D-047) has a hole in the log that sets on the grate finger and the other end rests on the fire-place floor, place log as shown in *Figure 30, Page 20*. The right ember bed logs for 18" (D-072) has a groove on the side that sets on the ember bed pan and the back of the log needs to rest against the front of the base. Make sure the flame from the ember pan does not touch the ember bed log. The back side of this log needs to rest against the front of the base sure the flame from the ember pan does not touch the ember pan does.

Right Front Log

Figure 28 - Installing Left/Right Front Logs

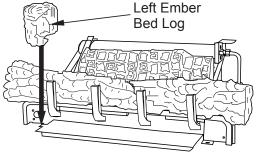


Figure 29 - Installing Left Ember Bed Log

5. The left middle log has a groove on the bottom to sit on the chassis and has to sit on the tab on the back of the left front log as shown in *Figure 31*.

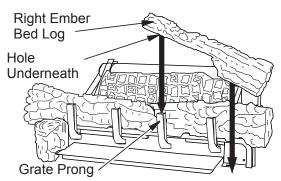


Figure 30 - Installing Right Ember Bed Log

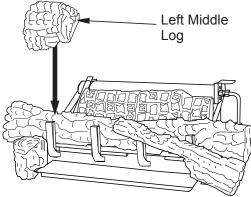


Figure 31 - Installing Left Middle Log

6. The right middle log has a groove on the bottom to sit on the chassis and has to sit on the tab on the back of the right front. The right middle log should have a recess area that fits around the ramp log as shown in *Figure 32*.

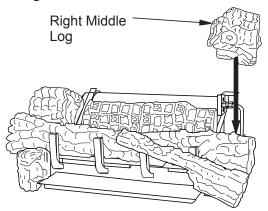


Figure 32 - Installing Right Middle Log

 The rear middle log should fit between the ramp log and the rear burner. The left and right middle logs have recessed areas for the rear middle log to sit into (see *Figure 33*). Be careful not to push the rear burner out of position while installing this log.

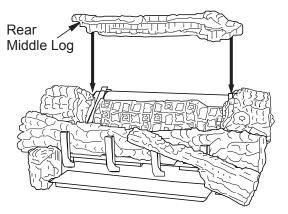
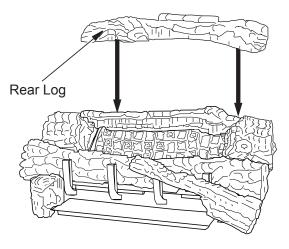


Figure 33 - Installing Rear Middle Log

8. Rest rear log in back corner sections of chassis assembly as shown in *Figure 34*.





9. Place the left top log onto the rear log and the left middle log. Make sure to place the projection on the bottom of the left top log into the recessed areas on the rear and left middle logs (see *Figure 35*).

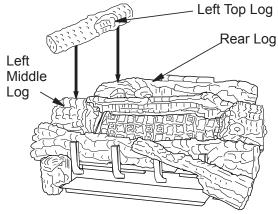


Figure 35 - Installing Left Top Log

 Rest the middle crossover log onto the right middle log and the left front log (see Figure 36). Make sure to match the projection on the bottom of the crossover log with the recess area in the right middle log and the left front log.

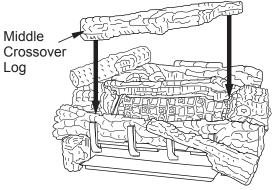


Figure 36 - Installing Middle Crossover Log

11. Place the top rear log onto the rear log as shown. The rear log has a projection that will fit into the recess area on the bottom of the top rear log (see *Figure 37*).

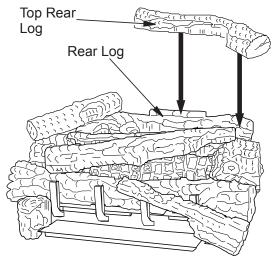


Figure 37 - Installing Top Rear Log

#### EMBER PLACEMENT

WARNING: Do not use any other ember material not supplied with this unit.

WARNING: Do not operate unit without ember material correctly in place as shown in *Figures 39 & 40*. Do NOT place ember material anywhere else on the unit. Use only ember material supplied with unit. Excessive or incorrectly placed ember material may produce carbon monoxide or soot. If replacement embers are needed, the replacement embers must be purchased from IHP. See *Page 41* for part numbers.

- Ember Chunk Placement. The BGE2436 1. burner systems include three ember chunks that are designed to fit over shoulder screws on the ember pan burner. The bottom of each ember chunk has a hole for securing the ember chunk in place when it is placed over a shoulder screw. Place the ember chunks as shown in Figure 38 on Page 22 by placing the ember chunk with the number "1" on the left, "2" in the center, and "3" on the right. These numbers are embossed on the back of each piece for identification purposes. Please note that BGE18 burner systems do not include ember chunks.
- 2. Two ember materials are supplied with this log set. Platinum Bright Embers give a bright glow appearing as hot coals. Should embers need replacing, see <u>Parts</u>, **Page 41**.

**Platinum Bright Ember placement.** Add embers to front, flat burner. Gently remove embers from bag. Separate pieces of ember material and place on surface of flat burner just behind horizontal ports as shown in *Figure 39*.

**Glowing Embers (rockwool) placement.** Place glowing ember material on front flat burner in areas away from ports as shown in *Figure 40*.

 Add volcanic stone and small decorative logs around base of heater if desired. DO NOT place volcanic stone or additional logs on front burner or on logs. Placing any material on unit other than ember material on front burner may result in production of carbon monoxide or soot. Use volcanic stone to hide wires from switch/log to control valve. Place switch/log so the switch is easy to access.

WARNING: All previously applied loose material must be removed prior to reapplication.

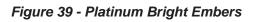


Ember Chunk #1 Ember Chunk #2 Ember Chunk #3 Flat Front Burner *Figure 38 - Ember Chunk Placement SVFS36 Series* 



Ember Material

Flat Front Burner





Glowing Embers (rockwool)

Figure 40 - Placement of Glowing Embers (shown with Platinum Bright Embers)

## **OPERATION**

NOTICE: During initial operation of new heater, burning logs will give off a paper-burning smell. Orange flame will also be present. Open damper or window to vent smell. This will only last a few hours.

# WARNING:

- If fireplace has glass doors, never operate this heater with glass doors closed. If you operate heater with doors closed, heat buildup inside fireplace will cause glass to burst. Make sure there are no obstructions across openings of fireplace.
- You must operate this heater with a fireplace screen in place. Make sure fireplace screen is closed before running heater.

WARNING: Damper handle will be hot if heater has been running.

CAUTION: Do not try to adjust heating levels by using the equipment shutoff valve.

> FOR YOUR SAFETY READ BEFORE LIGHTING

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

- A. This appliance is equipped with an ignition device which automatically lights the pilot. Do not light pilot by hand.
- 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. Do not use this appliance if any part has been under water. Immediately call a qualified 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 INSTRUCTIONS

- 1. STOP! Read the safety information.
- 2. Make sure equipment shutoff valve is fully open.
- Press any button on the remote to power the remote on. Press the MODE zone or the MODE/SET Button to start the unit. You will hear a beep from the control module and the pilot will start to light the unit.

**NOTE:** You may be running this heater for the first time after hooking up to gas supply. If so, you may have to restart the unit several of times to allow the air to bleed from the system.



- 1. Once you have activated the screen press the MODE Zone or MODE/SET Button until you see OFF.
- 2. Close equipment shutoff valve.

#### **REMOTE CONTROL OPERATION**

#### **BASIC CONSTRUCTION**

- Touch-Screen LCD and three push buttons will allow input from users.
- LCD screen will provide system status & input feedback to user.
- Backlight will illuminate LCD screen for 5 seconds after any user input the 1st touch of the LCD screen will only illuminate the backlight (will not respond to associated zone function). To activate any command, the backlight for the screen must be on and the command must be touched before the backlight goes off.
- Powered via four AAA sized batteries (6V nominal) with LOW BATTERY INDICATOR (5.0V).

#### Touch-Screen LCD and Button Layout (Not to scale)

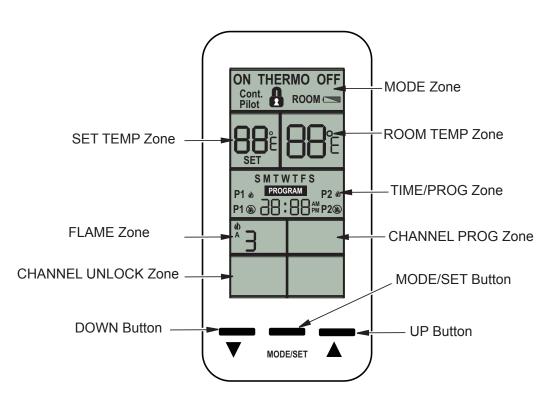


Figure 41 - Touch-Screen LCD and Button Layout

## **OPERATION**

#### Continued

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#### FUNCTIONAL DESCRIPTION

**NOTE:** All function adjustments will be automatically accepted 15-seconds after pressing a given touch zone or button. The user may press the MODE/SET button to immediately accept the adjustment manually.

#### **CHANNEL SELECTION**

This control may be operated in 3 different sub-channels for applications where 2.4GHz interference causes delayed operation of the remote control. The factory default is Channel 3. To change the channel on the transmitter:

- Touch the CHANNEL PROGRAM and CHANNEL UNLOCK zones simultaneously and hold for 5-seconds.
- The LCD screen will go blank except "Ch" will be displayed in the SET TEMP Zone and either "01", "02", or "03" will be displayed in the ROOM TEMP Zone.
- Press the UP or DOWN buttons to change the channel number (01-03).
- Press the MODE/SET Button to return to the normal operating display.

#### **Receiver Operation Notes:**

- The receiver manufacturer may refer to channels 01, 02, or 03.
- Receiver must be paired with transmitter in the receiver's factory default channel.
- Once paired, the channel selection may be changed in the transmitter per the instructions above.
- Once the channel selection is changed in the transmitter, the power supply to the receiver must be removed for at least 30-seconds, then re-applied.
- The receiver will recognize the new channel selection after about 30-seconds to 1-minute and normal operation will resume.

### MODES OF OPERATION

#### **OPERATION MODES:**

- MANUAL OFF
- MANUAL ON
- THERMOSTAT (with optional PRO-GRAM Mode)

The modes may be cycled in the order above by touching the MODE Zone or pressing the MODE/SET Button.

#### MANUAL OFF MODE:

- Transmits flame OFF command.
- Pilot Method: Intermittent Pilot Ignition (IPI)/Spark-to-Pilot only (continuous/ standing pilot not allowed)
  - Pilot flame will be turned OFF
- LCD Displays:
  - MODE Zone: OFF is displayed
  - ROOM TEMP Zone: Measured temperature is displayed
  - SET TEMP Zone: Blank
  - TIME/PROG Zone: Current day indicator and current time is displayed
  - FLAME Zone: Blank

#### MANUAL ON MODE:

- Transmits flame ON command.
  - Pilot Method: Intermittent Pilot Ignition (IPI)/Spark-to-Pilot only (continuous/ standing pilot not allowed)
    - Pilot flame will be ignited before turn Main Flame ON.
- LCD Displays:
  - MODE Zone: ON is displayed
  - ROOM TEMP Zone: Measured temperature is displayed
  - SET TEMP Zone: Blank
  - TIME/PROG Zone: Current day indicator and current time is displayed
  - FLAME Zone: A Flame Icon and flame setting level number is displayed

#### THERMOSTAT MODE:

- Will cycle flame on and off based on room and set temperatures. Will transmit ON command if SET TEMP (+SWING) is higher than ROOM TEMP and will transmit OFF command if SET TEMP (-SWING) is lower than ROOM TEMP.
- Built-in thermostat will measure room temperature.
- All programming should be written for deg. F and converted to deg. C when selected.
- Temperatures may be displayed in degrees F (factory default) or degrees C. Press the UP and DOWN Buttons simultaneously to change between degrees F and C.
- SET TEMP: While in THERMOSTAT mode, press the UP or DOWN Button

- to change the SET TEMP (45-90 deg. F, 7-32 deg. C); the new set temperature will automatically be accepted after 2 seconds. The factory default SET TEMP is 68 deg. F.
- SWING Temperature: This model does not allow for SWING temperature adjustment. This model utilizes thermostatic flame modulation that will modulation the main flame based on the difference between room temperature and set temperature (see example below).
  - Important factory SWING TEMPERA-TURE setting is 2 degrees. The thermostatic flame modulation feature will not allow this SWING to be changed.

#### EXAMPLE:

Set Temperature	Room Temp.	Flame Level
	74F	OFF
	73F	Level 1
Set Temperature (72)	→ 72F	Level 2
	71F (or less	s) Level 3

- Pilot Method: Continuous/Standing Pilot only (Intermittent Pilot Ignition (IPI)/ Spark-to-Pilot not allowed).
  - Pilot flame will remain ON when Main Flame Cycles ON and OFF.
- Manual Flame Adjustment while in THERMOSTAT mode: If Flame-A is manually adjusted while in thermostat mode, it will override the automatic flame setting until the flame cycles off, then back ON thermostatically; when the flame cycles ON again, automatic flame adjustment will resume. Automatic flame adjustment will also resume if the operational mode is cycled out of, then back into THERMOSTAT mode or if the SET temperature is changed.
- THERMOSTAT OFF LCD Displays:
  - MODE Zone: THERMO and OFF is displayed
  - ROOM TEMP Zone: Measured temperature is displayed
  - SET TEMP Zone: SET TEMP is displayed
  - TIME/PROG Zone: Current day indicator and current time is displayed
  - FLAME Zone: Blank
- THERMOSTAT ON LCD Displays:

- MODE Zone: THERMO and ON are displayed
- ROOM TEMP Zone: Measured temperature is displayed
- SET TEMP Zone: SET TEMP is displayed
- TIME/PROG Zone: Current day indicator and current time is displayed
- FLAME Zone: A Flame Icon and flame setting level number is displayed

#### Thermostat Disable Feature

- The Thermostat Mode (described above) may be disabled for applications where a thermostat is not allowed or undesirable. When Thermostat Mode is Disabled:
  - The Modes of operation will cycle between MANUAL ON and MANUAL OFF (omitting THERMO).
  - Program Operation (described below) is also disabled.
  - The SET TEMP zone will be blank.
  - The room temperature will still be measured & displayed in the ROOM TEMP Zone.
  - The TIME/PROG zone will continue to display the Clock and Day of week, but none of the icons associated with Program Mode will be displayed.
- To disable or re-enable the Thermostat, the transmitter must be in MANUAL OFF Mode, then touch and hold the SET TEMP Zone and the DOWN Button simultaneously for 10- seconds. The LCD screen will go blank except either THERMO and OFF or THERMO and ON will flash 3-times (0.5-seconds OFF, 0.5-seconds ON) to indicate the change has been made.

#### DAY AND TIME DISPLAY

- The current day of week and time of day will be continuously displayed in the TIME/PROG Zone (except during Setup operations).
- The day of week will be displayed as one of the following: S, M, T, W, T, F, S
- The time of day will be in 12-hour AM, 12-hour PM format. Midnight will be displayed as 12:00am.
- Day/Time Setup:
- 1. Press and hold the MODE Zone for 5 seconds to enter Day/Time Setup.

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- 1. Touch the UP or DOWN Buttons to adjust the day of week (press the MODE/SET Button or wait for 15 seconds for adjustment to be accepted, then enter hour of day adjustment).
- 2. Press the UP or DOWN Buttons to adjust the hour of the day. The time will advance in 1-hour increments; AM and PM will change when the hour advances to 12:00 midnight and 12:00 noon respectively (press the MODE/SET Button or wait for 15 seconds for adjustment to be accepted, then enter minute of hour adjustment).
- 3. Press the UP or DOWN Buttons to adjust the minute of the hour. The time will advance in 1-minute increments (press the MODE/SET Button or wait for 15 seconds and the transmitter will exit Day/Time Setup and return to normal operation).
- 4. LCD Displays when in Day/Time Setup:
  - MODE Zone: Blank
  - ROOM TEMP Zone: Blank
  - SET TEMP Zone: Bank
  - TIME/PROG Zone: Day of Week, or Time of Day will Flash
  - FLAME Zone: Blank

#### Program Operation

- Touch the TIME/PROG Zone to activate or deactivate Program Operation. Touching the MODE Zone or pressing the MODE/SET Button will also deactivate Program Operation. When Program Operation is deactivated, the transmitter will return to MANUAL OFF Mode.
- Program Operation will cycle fireplace ignition ON and OFF based on time settings (2 weekend periods and 2 weekday periods) and thermostat settings. Press the MODE/SET Button or wait for 15 seconds to advance to each subsequent program setting.
- Pilot Method (same as Thermostat Mode): Continuous/Standing Pilot only (Intermittent Pilot Ignition (IPI)/ Spark-to-Pilot not allowed).
  - Pilot flame will remain ON when Main Flame Cycles ON and OFF.

- To enter Program Setup, touch and hold the TIME/PROG Zone for 5 seconds.
- Program OFF LCD Displays:
  - MODE Zone: OFF
  - ROOM TEMP Zone: Measured temperature is displayed
  - SET TEMP Zone: Blank
  - TIME/PROG Zone: Current day indicator, current time, and Program status (P1- OFF or P2-OFF) is displayed
  - FLAME Zone: Blank
- Program ON LCD Displays:
- MODE Zone: THERMO and either ON or OFF is displayed
- ROOM TEMP Zone: Measured temperature is displayed
- SET TEMP Zone: SET TEMP is displayed
- TIME/PROG Zone: Current day indicator, current time, and Program status (P1- ON or P2-ON) is displayed
- FLAME Zone:

If Thermostat is ON, A Flame Icon and flame setting level number is displayed. If Thermostat is OFF, display is blank.

#### **Program Disable Feature**

- The Program Mode (described above) may be disabled for applications where a program operation is not allowed or undesirable. When Program Mode is Disabled:
  - The user will not be able to activate Program Mode
  - The user will not be able to enter Program Setup or edit Program Mode settings.
  - The TIME/PROG zone will continue to display the Clock and Day of week, but none of the icons associated with Program Mode will be displayed.
- To disable or re-enable the Program Mode, the transmitter must be in MAN-UAL OFF Mode, then touch and hold the TIME/PROG Zone and the DOWN Button simultaneously for 10-seconds. The LCD screen will go blank except either PROGRAM and OFF (OFF display in MODE Zone) or PROGRAM and ON (ON display in MODE Zone) will flash 3-times (0.5-seconds OFF, 0.5-seconds ON) to indicate the change has been made.

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- Transmits a flame height setting command to the control module to adjust the Flame-A height.
- Available settings are 1-3 with a factory default of 3. Refer to the THERMOSTAT Mode section for additional details on flame modulation in THERMOSTAT mode.
- While in MANUAL ON, THERMOSTAT ON, or PROGRAM ON modes, touch the FLAME Zone to enter Flame-A Adjustment, then press the UP or DOWN buttons to raise and lower the flame; press the MODE/SET Button or wait for 15 seconds to accept the new setting.
- LCD Display: When setting the Flame-A height, the Flame-Aicon, and Flame-A setting number will flash in the FLAME Zone.

#### Child-Lock Operation

- Child-Lock operation prevents any user input to the transmitter. No mode of operation or feature may be adjusted when Child-Lock is activated. <u>All automatic</u> <u>functions (thermostat, program, etc.) will</u> <u>continue normally</u>.
- To activate or deactivate the Child-Lock feature, press and hold the MODE/SET and DOWN Buttons simultaneously for 5 seconds.
- LCD Displays:
- When activated, the LOCK icon will appear in the MODE Zone.
- If any touch-zone or button is pressed when activated, the LCD backlight will illuminate and the LOCK icon will flash for 5 seconds in the MODE Zone.

#### Room Temperature Limit

 The Room Temperature Limit Shutdown feature will operate in MANUAL ON, THERMOSTAT ON mode, and PROGRAM ON modes. If the room temperature reaches 95 deg. F or greater, the transmitter will automatically change to MANUAL OFF mode and send a MANUAL OFF command to the control module. If the user turns the control back ON and the room temperature is still 95F or greater, the transmitter will switch to back manual OFF and send another OFF command the next time the transmitter reads & updates the room temperature (2-minute update interval).

#### PAIRING

The remote and receiver are paired at the factory but in case they do not communicate after proving the batteries are fresh, repairing may be necessary. Follow the steps below to repair the remote to the receiver.

It is helpful to have a flashlight so you can see the connections as described below. Before proceeding, locate the S1 button on the receiver shown in the figure below. You will need to access this button during the re-pairing procedure and only have 20 seconds to press and release it.

To enter pairing mode press and hold the MODE/SET Button for 10-seconds.

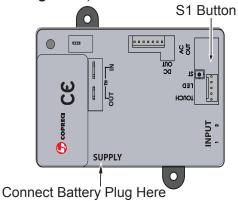
- Transmitter will transmit a pairing signal for 20-seconds, then automatically exit pairing mode and return to normal operation.
- LCD Displays When pairing mode is activated:
  - 1. MODE Zone: Blank
  - 2. ROOM TEMP Zone: The letters "On" will flash.
  - 3. SET TEMP Zone: The letter "P" is displayed
  - 4. TIME/PROG Zone: Blank
  - 5. FLAME Zone: Blank

#### **Receiver Operation**

**NOTE:** Once transmitter is in pairing mode, press the yellow or black pairing button on the receiver.

#### **TOUCH PAD OPERATION**

This touch control has only 3 buttons for controlling manually the flame of the appliance (see *Figure 42*).



**Control Module** 

The touch pad has:

- 1. Led display
- 2. ON/OFF button
- 3. UP button
- 4. DOWN button

With this control it is possible to turn on the fire, turn off the fire and control the flame level.

**NOTE:** The touch pad includes a red LED display light. If the LED remains on, the black plug is connected upside down. Unplug, turn over, and reconnect.

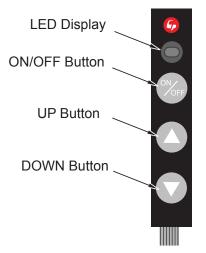


Figure 42 - Touch Pad Control

#### SWITCHING ON

To turn the system on just press the ON/OFF button. The system will emit a beep and begin the ignition process, which can take about 20 seconds. Once the start up process is complete, the pilot flame is lit.

#### **REGULATING THE FLAME LEVEL.**

 To increase the flame level, press the up button (▲). A beep and a flash of

- 1. the LED indicate that the system has accepted the order, and the flame will increase instantly (see *Figure 42*).
- To decrease the flame level, press the down button (♥). A beep and a flash of the LED indicate that the system has accepted the order, and the flame will decrease instantly (see Figure 42).

#### SWITCHING OFF

To switch off the fire, the ON/OFF button should be pressed. After the system has emitted a beep, the fire switches off.

WARNING: Do not convert heater to use different fuel type. Only use heater with fuel type specified.

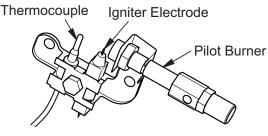


Figure 43 - Pilot (Natural)

## **INSPECTING BURNERS**

Check pilot flame pattern and burner flame patterns often.

### PILOT FLAME PATTERN

*Figure 44, Page 30* shows a correct pilot flame pattern. *Figure 45, Page 30* shows an incorrect pilot flame pattern. The incorrect pilot flame is not touching the thermocouple. This will cause the thermocouple to cool. When the thermocouple cools, the heater will shut down. If pilot flame pattern is incorrect, as shown in

#### Figure 45, Page 30.

- turn heater off (see <u>To Turn Off Gas to Appliance</u>, **Page 23**
- see Troubleshooting, Page 33

**NOTE**: The pilot flame on natural gas units will have a slight curve, but flame should be blue and have no yellow or orange color.

## **INSPECTING BURNERS**

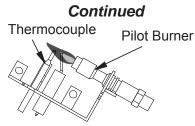


Figure 44 - Correct Pilot Flame Pattern (Your pilot may vary from pilots shown)

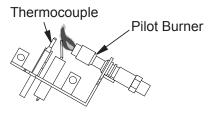


Figure 45 - Incorrect Pilot Flame Pattern (Your pilot may vary from pilots shown)

## **BURNER FLAME PATTERN**

*Figure 46*, shows correct burner flame pattern. *Figure 47*, shows incorrect burner flame pattern.

WARNING: If incorrect burner flame occurs, your heater could produce increased levels of carbon monoxide.

NOTICE: Do not mistake orange flames with yellow tipping. Dirt or other fine particles are burned by heater, causing brief patches of orange flame.

If burner flame pattern is incorrect, as shown in *Figure 47*.

- turn heater off (<u>see To Turn Off Gas to Appliance</u>, Page 23).
- see <u>Troubleshooting</u>, Page 33

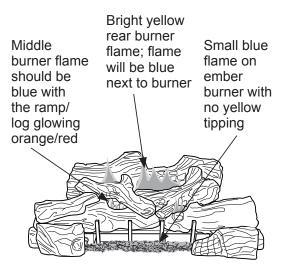


Figure 46 - Correct Burner Flame Pattern

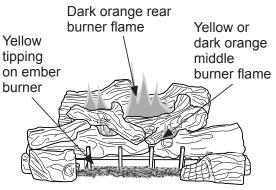


Figure 47 - Incorrect Burner Flame Pattern

## CLEANING AND MAINTENANCE

WARNING: Turn off heater and let cool before cleaning.

CAUTION: You must keep control areas, burners and circulating air passageways of heater clean. Inspect these areas of heater before each use. Have heater inspected yearly by a qualified service person. Heater may need more frequent cleaning due to excessive lint from carpeting, pet hair, bedding material, etc.

WARNING: Failure to keep the primary air opening(s) of the burner(s) clean may result in sooting and property damage.

## CLEANING AND MAINTENANCE Continued

#### BURNER ORIFICE HOLDER AND PILOT AIR INLET HOLE

The primary air inlet holes allow the proper amount of air to mix with the gas. This provides a clean burning flame. Keep these holes clear of dust, dirt, lint and pet hair. Clean these air inlet holes prior to each heating season. Blocked air holes will create soot. We recommend that you clean the unit every three months during operation and have heater inspected yearly by a qualified service person. We also recommend that you keep the burner tube and pilot assembly clean and free of dust and dirt. To clean these parts we recommend using compressed air no greater than 30 PSI. Your local computer store, hardware store or home center may carry compressed air in a can. If using compressed air in a can, please follow the directions on the can. If you don't follow directions on the can, you could damage the pilot assembly.

- 1. Shut off unit, including pilot. Allow unit to cool for at least thirty minutes.
- Inspect burner, pilot and primary air inlet holes on orifice holder for dust and dirt (see *Figure 48*).
- 3. Blow air through the ports/slots and holes in the burner.

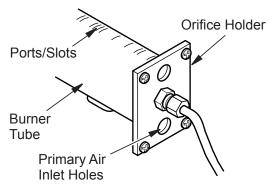


Figure 48 - Orifice Holder On Outlet Burner Tube

- 4. Check orifice holder located at the end of the burner tube again. Remove any large particles of dust, dirt, lint or pet hair with a soft cloth or vacuum cleaner nozzle.
- 5. Blow air into the primary air holes on the orifice holder.
- In case any large clumps of dust have now been pushed into the burner repeat steps 3 and 4.

Clean pilot assembly also. A yellow tip on the pilot flame indicates dust and dirt in the pilot assembly. There is a small pilot air inlet hole about 2" from where the pilot flame comes out of the pilot assembly (see **Figure 49**). With the unit off, lightly blow air through the air inlet hole. You may blow through a drinking straw if compressed air is not available.

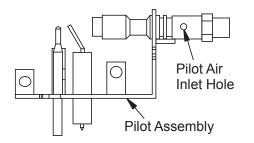


Figure 49 - Pilot Inlet Air Hole (Your pilot may vary from pilot shown)

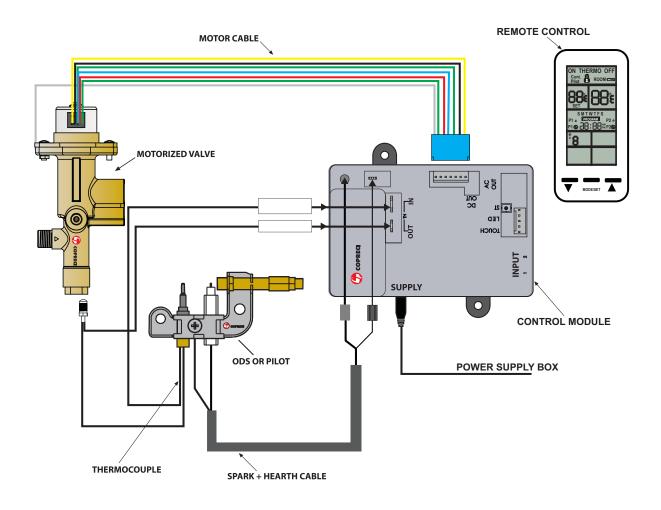
#### LOGS

- If you remove logs for cleaning, refer to <u>In-</u> <u>stalling Logs</u>, **Page 17**, to properly replace logs.
- Replace log(s) if broken or chipped (dimesized or larger).

#### **MAIN BURNER**

Periodically inspect all burner flame holes with the heater running. All slotted burner flame holes should be open with yellow flame present. All round burner flame holes should be open with a small blue flame present. Some burner flame holes may become blocked by debris or rust, with no flame present. If so, turn off heater and let cool. Remove blockage, blocked burner flame holes will create soot.

## WIRING DIAGRAM



## **SPECIFICATIONS**

### BGE18PE

- Rating (Variable): 24,000/30,000 Btu/Hr
- Type Gas: Propane/LP
- Ignition: Electronic
- Manifold Pressure: 8" W.C.
- Inlet Gas Pressure (in. of water): Max - 14" W.C., Min\* - 11" W.C.

#### BGE18NE

- Rating (Variable): 21,000/30,000 Btu/Hr
- Type Gas: Natural
- Ignition: Electronic
- Manifold Pressure: 4.5" W.C.
- Inlet Gas Pressure (in. of water): Max - 10.5" W.C., Min\* - 5" W.C.

#### BGE2436PE

- Rating (Variable): 30,000/39,000 Btu/Hr
- Type Gas: Propane/LP
- Ignition: Electronic
- Manifold Pressure: 8" W.C.
- Inlet Gas Pressure (in. of water): Max - 14" W.C., Min\* - 11" W.C.

#### BGE2436NE

- Rating (Variable): 26,000/39,000 Btu/Hr
- Type Gas: Natural
- Ignition: Electronic
- Manifold Pressure: 4.5" W.C.
- Inlet Gas Pressure (in. of water): Max - 10.5" W.C., Min\* - 5" W.C.

\*For purpose of input adjustment

WARNING: Turn off heater and let cool before servicing. Only a qualified service person should service and repair heater.

# **A** CAUTION: Never use a wire, needle or similar object to clean ODS/pilot. This can damage ODS/pilot unit.

**NOTE**: All troubleshooting items are listed in order of operation.

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Either the remote or touch pad but- tons are pressed to start the burner ignition sequence and there is no function or response.	<ol> <li>Missing or weak batteries at power supply box or remote. Control module may beep 10 times or may not beep at all. LCD display may show "BATTERY ERROR".</li> </ol>	<ol> <li>Check batteries and replace if needed. (Batteries in the power supply box can be tested with a multimeter at the two connec- tions at the back of the battery housing where the red and black wires are connected. Set the multimeter to DC voltage, initi- ate the ignition sequence, and observe the voltage while the system is lighting (under load). The system will not function under 3.8 volts and batteries should be replaced if the voltage is under 4.0 volts.)</li> </ol>
	2. Unplugged power supply (bat- tery) box	2. Plug power supply box to module see <i>Page 16</i> .
	3. Touch pad not plugged in to module or plugged in incorrectly	3. Plug touch pad in module see <i>Page 16, Figure 19</i> . Check to see it is positioned as shown.
	<ol> <li>Control valve wiring harness not plugged in or not in proper position</li> </ol>	4. Check to see that the control valve wiring harness' blue connector is plugged in to the module. Check to see that it is aligned with the mating pins. If any pins are visible, then the connector is not in the correct position. If this is the case, disconnect, align, and reconnect to the module.
	5. Remote not communicating with control module	5. (The remote communicates with the module periodically. It doesn't communicate with the module continuously to conserve battery power.)

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Either the remote or touch pad but- tons are pressed to start the burner ignition sequence and there is no function or response. (Continued	6. LED is blinking	<ol> <li>This indicates the battery power is low. Replace the batteries in the power supply box.</li> </ol>
from Page 33).	7. Igniter cable is not connected	<ol> <li>Check the igniter connection at both the control module and the ods pilot. Connect if loose.</li> </ol>
	8. Igniter cable pinched or wet	<ol> <li>Free igniter cable if pinched by any metal or tubing. Keep igniter cable dry.</li> </ol>
	9. Broken Igniter cable.	<ol> <li>Replace wire harness including igniter cable.</li> </ol>
	10. Igniter electrode positioned wrong.	10. Replace ods pilot assembly.
	11. Igniter electrode broken.	11. Replace ods pilot assembly.
	12. Control module sounds 2 cycles of 3 beeps; LCD display may show ROM ERROR	12. Replace control module
	13. Control module sounds 2 cycles of 5 beeps; LCD display may show SUPPORT ERROR	13. Ground cable from control valve wiring harness is not ground- ing properly. Reposition spade terminal so that it makes contact with burner chassis metal or valve body.
	14. Bad reception from remote	14. Change batteries in remote. Check reception of signal from a shorter distance. If still not working, try changing the chan- nel in the configuration menu. If this does not fix the problem, reset the channel (see <b>Page 25</b> <i>Channel Selection</i> ) and follow the instructions in Pairing on <b>Page 28</b> . Replace remote and control module as a final action.
	15. If LED on touch pad is continu- ously on, the cable is connected the wrong way.	15. Disconnect the touch pad be- tween the long and short cables, turn the short cable with the touch pad over and reconnect.
	16. The control module sounds 2 cycles of 5 beeps. The wiring assembly from the control valve is disconnected or broken.	16. Connect the wiring harness at the control module. Replace the valve assembly if all other cause/remedies fail to correct his problem.

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
When igniter button is pressed on the remote or touch pad, the pilot sparks but there is no ignition.	1. Gas supply turned off or equip- ment shutoff valve closed	<ol> <li>Turn on gas supply or open equipment shutoff valve.</li> </ol>
	2. Air in gas lines.	2. Continue turning the burner sys- tem ON and OFF. Repeat igniting operation until air is removed. On first time ignitions, air in the lines is common and it is not uncommon to repeat the ignition sequence 10 to 15 times before enough gas is at the ods pilot for it to light.
	3. Thermocouple circuit between the control valve and the control module is open.	3. Check the thermocouple con- nection at the control valve and also at the control module. The thermocouple connection at the control valve should be hand tight plus 1/4 to 1/2 turn. You should not be able to loosen the thermocouple at the control valve with your hand. Check the ther- mocouple terminal connection at the control module. If it is loose, remove it with needle nose pliers, using the pliers, slightly close the terminal's opening and reinstall on to the control module.
	4. No gas to the ods pilot	4. While the pilot is sparking, check for gas flow at the ods pilot. If flow is present, try to light the pilot with a long reach lighter. If it will not light but the flame is disturbed, air is in the line. Cycle through the ignition sequence to clear the line of air until gas is present. If no flow is present at the gas valve, check to see all shut off valves are open. Verify proper pressure is supplied to the valve. Excessive pressure can lock out the appliance's regulator. Also check to see that the wiring harness from the control valve is properly connected at the control module. The wiring harness con- nection housing can be identified by it's blue connector housing.
	5. Depleted gas supply (propane/ LP only)	5. Contact local propane/LP gas company.
	<ol> <li>Valve cable is disconnected or broken.</li> </ol>	6. Connect valve cable correctly
	7. ODS pilot is clogged	<ol> <li>Clean ods pilot (see Cleaning and Maintenance, Page 30) or replace ods pilot assembly.</li> </ol>
	8. Gas regulator setting is not cor- rect	8. Replace gas regulator

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
ODS pilot lights but pilot flame goes out before burners light.	1. Equipment shutoff valve not fully open	1. Fully open equipment shutoff valve.
	<ol> <li>Missing or weak batteries at power supply box or remote.</li> </ol>	2. Check batteries and replace if needed. (Batteries in the power supply box can be tested with a multimeter at the two connec- tions at the back of the battery housing where the red and black wires are connected. Set the multimeter to DC voltage, initi- ate the ignition sequence, and observe the voltage while the system is lighting (under load). The system will not function under 3.8 volts and batteries should be replaced if the voltage is under 4.0 volts.).
	<ol> <li>Thermocouple circuit between the ods pilot and control module is loose or damaged.</li> </ol>	3. Check thermocouple terminal connection at the control module. If it is loose, remove it with needle nose pliers, using the pliers, slightly close the terminal's opening and reinstall on to the control module.
	<ul> <li>4. Pilot flame not touching thermocouple, which allows thermocouple to cool, causing pilot flame to go out. This problem could be caused by one or both of the following:</li> <li>A) Low gas pressure or</li> <li>B)Dirty or partially clogged ODS pilot.</li> </ul>	<ul> <li>4. A) Contact local natural or propane/LP gas company.</li> <li>B) Clean ODS pilot (see Cleaning and Maintenance, Page 30) or replace ODS pilot assembly.</li> </ul>
	5. Thermocouple damaged	5. Replace ods pilot assembly.
	6. Control valve damaged.	6. Replace control valve
Burner system lights from remote but not from touch pad	1. Touch pad cable disconnected or broken	1. Connect or replace touch pad and cable.
	2. Defective touch pad	2. Replace touch pad
Burner system does not ignite the burner while the remote is in the program mode.	<ol> <li>Program mode does not work if soft start is deactivated.</li> </ol>	1. Activate soft start in the remote.
Burner system shuts off after operat- ing 6 seconds then sounds 5 beeps.	1. Short in touch pad wiring.	1. Replace touch pad and wiring harness.
Low battery power in remote.	<ol> <li>Batteries are weak. LOW BAT- TERY is shown in remote dis- play.</li> </ol>	1. Replace batteries in remote.

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Burner system shuts off. Control module sounds 2 cycles of 3 beeps.	1. Faulty control module	1. Replace control module.
Burner system shuts off. Control module sounds 2 cycles of 3 beeps.	1. Remote and control module not communicating properly	<ol> <li>Follow Pairing instructions on <i>Page 28</i> to re-pair remote to control module.</li> </ol>
	2. Faulty control module	2. Replace control module
Burner system shuts off. Control module sounds 20 beeps.	<ol> <li>Loss of communication between control module and remote after 18 minutes.</li> </ol>	1. Either the remote is too far from the burner system or the remote needs new batteries. The remote should work within 20 feet of the burner system. If it does not, re- place the batteries in the remote and battery supply box.
Burner system shuts off. Control module sounds 1 long beep.	1. Control module is too hot	<ol> <li>Check to see the fireplace size meets the minimum require- ments. Call technical service.</li> </ol>
Burner systems shuts off.	<ol> <li>The SAFETY temperature set- ting in the remote has shut the burner system off.</li> </ol>	<ol> <li>The remote includes a shut off that is preset at 40C (104F). If the remote is placed in a location that is at or above this temperature it will shut the burner system off. Placing the remote on a mantel may result in this problem. If it occurs, relocate the remote to a cooler location.</li> </ol>
Burner system lights or shuts off without touching the remote.	<ol> <li>More than one burner system is present and operating on the same frequency.</li> </ol>	<ol> <li>Follow Pairing instructions on <i>Page 28</i> to re-pair remote to control module.</li> </ol>

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY		
Burners do not light after ODS/ pilot is lit	1. Inlet gas pressure is too low	1. Contact local natural or propane/ LP gas company		
	2. Burner orifice(s) clogged	<ol> <li>Clean burner(s) (see <u>Cleaning</u> <u>and Maintenance</u>, <b>Page 30</b>) or replace burner orifice(s)</li> </ol>		
	3. Mislocated crossover tube	3. Contact qualified service person		
Delayed ignition of one or both burners	1. Manifold pressure is too low	1. Contact local natural or propane/ LP gas company		
	2. Burner orifice(s) clogged	<ol> <li>Clean burner(s) (see <u>Cleaning</u> <u>and Maintenance</u>, <b>Page 30</b>) or replace burner orifice(s)</li> </ol>		
	3. Mislocated crossover tube	3. Contact qualified service person		
Burner backfiring during combustion	1. Burner orifice is clogged or dam- aged	<ol> <li>Clean burner (see <u>Cleaning</u> <u>and Maintenance</u>, <b>Page 30</b>) or replace burner orifice</li> </ol>		
	2. Damaged burner	2. Replace damaged burner		
	3. Gas regulator defective	3. Replace gas regulator		
Yellow flame in middle burner during burner combustion	1. Not enough air	<ol> <li>Check burner(s) for dirt and debris. If found, clean burner(s) (see <u>Cleaning and Maintenance</u>, Page 30)</li> </ol>		
	2. Gas regulator defective	2. Replace gas regulator		
Slight smoke or odor during initial operation	1. Residues from manufacturing processes and logs curing	1. Problem will stop after a few hours of operation		
Heater produces a whistling noise when burners are lit	1. Set the unit to HI by using the remote when burners are cold	<ol> <li>Set the unit to LO by using the remote and let warm up for a minute</li> </ol>		
	2. Air in gas line	2. Operate burners until air is removed from line. Have gas line checked by local natural or propane/LP gas company		
	3. Air passageways on heater blocked	3. Observe minimum installation clearances (see <b>Pages 9-12</b> )		
	<ol> <li>Dirty or partially clogged burner orifice(s)</li> </ol>	<ol> <li>Clean burners (see <u>Cleaning and</u> <u>Maintenance</u>, <b>Page 3</b>) or replace burner orifice(s)</li> </ol>		
White powder residue forming within burner box or on adjacent walls or furniture	<ol> <li>When heated, vapors from furni- ture polish, wax, carpet cleaners, etc. may turn into white powder residue</li> </ol>	<ol> <li>Turn heater off when using furni- ture polish, wax, carpet cleaners or similar products</li> </ol>		
Moisture/condensation noticed on windows	1. Not enough combustion/ventila- tion air	1. Refer to <u>Air for Combustion and</u> <u>Ventilation</u> requirements ( <b>Page 6</b> )		
Heater produces a clicking/ticking noise just after burners are lit or shut off	1. Metal expanding while heating or contracting while cooling	1. This is normal with most heaters. If noise is excessive, contact qualified service person		

#### Continued

## **WARNING:** If you smell gas

- Shut off gas supply.
- 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 your gas supplier, call the fire department.

**IMPORTANT**: Operating heater where impurities in air exist may create odors. Cleaning supplies, paint, paint remover, cigarette smoke, cements and glues, new carpet or textiles, etc., create fumes. These fumes may mix with combustion air and create odors. These odors will disappear over time.

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY	
Heater produces unwanted odors	1. Heater burning vapors from paint, hair spray, glues, cleaners, chemicals, new carpet, etc. (See <i>IMPORTANT</i> statement above)	<ol> <li>Open window to ventilate room. Stop using odor causing prod- ucts while heater is running</li> </ol>	
	<ol> <li>Low fuel supply (propane/LP only)</li> </ol>	<ol> <li>Refill supply tank (propane/LP only)</li> </ol>	
	3. Gas leak. See Warning state- ment at top of page	<ol> <li>Locate and correct all leaks (see <u>Checking Gas Connections</u>, <b>Page 15</b>)</li> </ol>	
Heater shuts off in use (ODS operates)			
	2. Low line pressure	<ol> <li>Contact local natural or propane/ LP gas company</li> </ol>	
	3. ODS/pilot is partially clogged	<ol> <li>Clean ODS/pilot (see <u>Cleaning</u> <u>and Maintenance</u>, <b>Page 30</b>)</li> </ol>	
Gas odor even when control knob is in OFF position	1. Gas leak. See Warning state- ment at top of page	<ol> <li>Locate and correct all leaks (see <u>Checking Gas Connections</u>, <b>Page 15</b>)</li> </ol>	
	2. Control valve or gas control defective	2. Replace control valve or gas control	
Gas odor during combustion	1. Foreign matter between control valve and burner	1. Take apart gas tubing and re- move foreign matter	
	2. Gas leak. See Warning state- ment at top of page	<ol> <li>Locate and correct all leaks (see <u>Checking Gas Connections</u>, <b>Page 15</b>)</li> </ol>	
Log set cycles to pilot, but room tem- perature drops to a lower than ideal level before log set comes back on	1. Optional Hand-held remote control is too close to heater	1. Move hand-held remote control unit farther away from the heater	

## **REPLACEMENT PARTS**

See *Pages 41-45* for a complete replacement parts list. Use only parts supplied from the manufacturer.

Normally, all parts should be ordered through your IHP distributor or dealer. Parts will be shipped at prevailing prices at time of order.

When ordering repair parts, always give the following information:

## SERVICE HINTS

#### When Gas Pressure Is Too Low

- pilot will not stay lit
- burners will have delayed ignition
- · appliance will not produce specified heat
- propane/LP gas supply may be low

You may feel your gas pressure is too low. If so, contact your local propane/LP or natural gas supplier.

- 1. The model number of the appliance.
- 2. The serial number of the appliance.
- 3. The part number.
- 4. The description of the part.
- 5. The quantity required.
- 6. The installation date of the appliance.

If you encounter any problems or have any questions concerning the installation or application of this appliance, please contact your dealer.

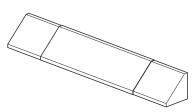
## **TECHNICAL SERVICE**

You may have further questions about installation, operation, or troubleshooting. Please contact your IHP dealer for any questions or concerns. When contacting your dealer please have your model and serial numbers of your appliance ready. You can also visit our web site at SuperiorFireplaces.US.com.

## ACCESSORIES

Purchase these appliance accessories from your local dealer. If they can not supply these accessories, contact IHP at SuperiorFireplaces.US.com for referral information. You can also write to the address listed on the back page of this manual.

Only kits supplied by IHP shall be used in the installation of this appliance. Use of non-approved accessory/part kit(s) can result in poor performance and safety hazards.



#### FIREPLACE HOOD, BLACK Cat. No. F1764, Model GA6050

**For all models.** Helps deflect heat away from mantel or wall above fireplace. Fits openings 28" to 48" wide.

#### **VOLCANIC STONE**

#### Cat. No. 80L42, Model FDVS

For all models. Order when additional volcanic stone is desired.

#### VENT-FREE VCT AND VRT SERIES FIREBOXES

Available in 32", 36" and 42" models. Flush face and Louver models available with and without brick.

#### **FLOOR MEDIA KIT**

Cat. No. F1762, Model FM100

For all models. Includes volcanic stone, burner embers, and burner cinders

## DECORATIVE ASH BED / CONTROL COVER KIT

Cat. No. F0246, Model CDABKA

LOG SCRAPS / FLOOR MEDIA KIT-1 Cat. No. F0250, Model VTA-LS5-1

#### LOG SCRAPS / FLOOR MEDIA KIT-2 Cat. No. F0251, Model VTA-LS5-2

#### EMBER KITS

Platinum Embers Cat. No J6207

Glowing Embers (rockwool) Cat. No J6208

#### REMOTE-READY CONTROL MODELS BGE18NE, BGE18PE, BGE2436NE, BGE2436PE

28 $29$ $7$ $6$ $4$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$
11 10 Cat. No. Description
BGE18NE 18" N Electronic Ramp Burner With Embers
BGE18PE 18" P Electronic Ramp Burner With Embers
BGE2436NE 24" N Electronic Ramp Burner With Embers
BGE2436PE 24" P Electronic Ramp Burner With Embers

	PARTS AVAILABLE NOT SHOWN						
KEY							-
NO.	PART NO.	DESCRIPTION	BGE18NE	BGE18PE	BGE2436NE	BGE2436PE	QTY.
	J5519	Flex Tube	•	•	•	•	1
	J3658	Warning Plate	•	•	•	•	1
	J6585	Lighting Instruction Plate	•	•	•	•	1
	J3664	Caution Decal	•	•	•	•	1
	J3689	Hardware Kit	•	•	•	•	1
	80L42	Volcanic Stone, FDVS	•	•	•	•	1
	J6504	Left Ember Chunk #1			•	•	1
	J6505	Middle Ember Chunk #2			•	•	1
	J6506	Right Ember Chunk #3			•	•	1
	J6207	Platinum Embers	•	•	•	•	1
	J6208	Glowing Embers (rockwool)	•	•	•	•	1
	J7675	Control, Remote Skytech	•	•	•	•	1
	J5535	Bracket, Left Log Support			•	•	1
	J6490	Bracket, Right Log Support			•	•	1
	J6584	Harness, Pilot Igniter	•	•	•	•	1
	J6586	Screw, Min. Rate	•				1
	**	Screw, Min. Rate		•			1
	**	Screw, Min. Rate			•		1
	J6587	Screw, Min. Rate				•	1
	J6580	Supply, Battery Power	•	•	•	•	1
	J6674	Touch Pad Manual Control	•	•	•	•	1
	J6675	Touch Pad Wire Harness	•	•	•	•	1
** ** *	Not a field rankapaphi part						

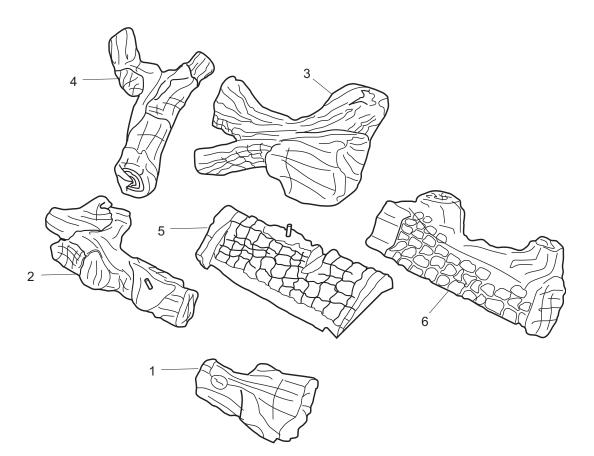
\*\* Not a field replaceable part.

This list contains replaceable parts used in your appliance. When ordering parts, follow the instructions listed under <u>*Replacement Parts*</u> on *Page 40* of this manual.

KEY							
NO.	PART NO.	DESCRIPTION	BGE18NE	BGE18PE	BGE2436NE	BGE2436PE	QTY.
1	J6685	Electronic Valve Kit	•		•		1
	J6688	Electronic Valve Kit		•		•	1
2	F3184	Bracket, Valve		•	•	•	1
3	J8075	Fitting, Tube .375125 NPTF	•	•	•	•	1
4	J6599	Tube, Orifice to Valve			•	•	2
5	J6598	Tube, Regulator to Valve	•	•	•	•	1
6	J3562	Connector, Male 3/8 NPTF	•	•	•	•	1
7	J3653	Regulator, Gas LP.		•		•	1
	J7603	Regulator, Gas NG.	•		•	•	1
8	J4886	Shutter, Air	•	•	•	•	1
9	J5416	Tube, Venturi	•	•	•	•	1
10	J5456	Gasket, Burner	•	•	•	•	1
11	J6397	Bracket, Pan Burner Support	•	•	•	•	2
12	J6398	Assy, Pan Burner BGE2436	-		•	•	1
	J6399	Assy, Pan Burner BGE18	•	•			1
13	J4725	Orifice, Elbow P53 95 110	•			•	1
	J4723	Orifice, Elbow P53 95 220	-		•	2	1
	J8079	Orifice, 0.028 (PAN)		•			1
14	J6127	Orifice, Holder 90° Elbow		•			1
15	J6581	Module, Control Board	•	•	•	•	1
16	10004	<b>T D</b>					
17	J3634	Tube, Pilot	•	•	٠	•	1
18	J6582	Pilot, Electric (NG)	•		•		1
	J6583	Pilot, Electric (LP)		•		•	1
19	F3142	Bracket, Pilot	•		7	7	1
	F2938	Bracket, Pilot		•	•	*	1
	F2939	Bracket, Pilot				•	1
20	RP125489-01	Shield, Air 18" BGE	•	•			1
	RP125489-02	Shield, Air 24/30/36" BGE			•	•	1
21	J4818	Burner 18" Ramp Front	•	•			1
	J4819	Burner 24/30" Ramp Front			•	•	1
22	J4820	Burner 18" Ramp Rear	•	•			1
	J4821	Burner 24/30" Ramp Rear			•	•	
23	J4038	Plate, Gas (NG only)	•		•		1
24	J5665	Bracket, Air Shield				•	1
25	J3675	Injector (.0453) Rear Burner	-			•	1
	J3676	Injector (.067) Rear Burner			•	-	1
	J3677	Injector (.0595)) Rear Burner	•				1
	F3137	Injector (.042) Rear Burner		•			1
26	F3185	Tube, Inlet	•	•			1
27	J3671	Injector (.0750) Middle Burner	•			7	1
	J3672	Injector (.053) Middle Burner				•	1
	J3679	Injector (.047) Middle Burner		•		-	1
20	F2933	Injector (.085) Middle Burner			•		1
28	K2014	Control Module Heat Shield	•	•	•	•	1
29	J5918	Aluminum Spacers	•	•	•	•	2
30	J6508	Pilot Shield		•		•	1
		1					

### LOG MODELS LBG18SM, LBG24SM, LBG30SM (SMOKEY MOUNTAIN)

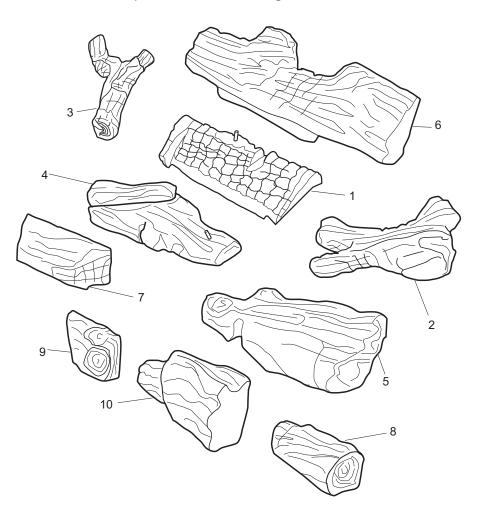
This list contains replaceable parts used in your appliance. When ordering parts, follow the instructions listed under <u>*Replacement Parts*</u> on *Page 40* of this manual.



KEY	MODEL NUMBER				
NO.	LBG18SM	LBG24SM	LBG30SM	DESCRIPTION	QTY
1	J5708	J5714	J5720	Front Right Log	1
2	J5707	J5713	J5719	Front Left Log	1
3	J5705	J6554	J6554	Middle Right Log	1
4	J5706	J5712	J5718	Middle Left Log	1
5	J5704	J5716	J5716	Bottom Log (Remote)	1
6	J5716	J5715	J5721	Rear Log	1

# LOG MODELS

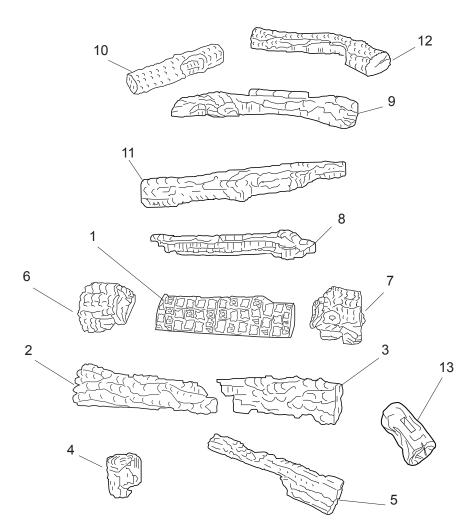
LBG36SM (SMOKEY MOUNTAIN) This list contains replaceable parts used in your appliance. When ordering parts, follow the instructions listed under <u>Replacement Parts</u> on **Page 40** of this manual.



KEY NO.	MODEL NUMBER LBG36SM	DESCRIPTION	QTY
1	J5716	Bottom Log	1
2	J6554	Middle Right Log	1
3	J5718	Middle Left Log	1
4	J5722	Front Left Log	1
5	J5723	Front Right Log	1
6	J5724	Back Log	1
7	J5725	Left Small Front Log	1
8	J5726	Right Small Front Log	1
9	J5727	Left Control Cover Log	1
10	J5728	Right Control Cover Log	1

#### LOG MODELS LBG18BM, LBG24BM, LBG30BM (BOULDER MOUNTAIN)

This list contains replaceable parts used in your appliance. When ordering parts, follow the instructions listed under <u>*Replacement Parts*</u> on *Page 40* of this manual.



KEY	P		R		
NO.	LBG18BM	LBG24BM	LBG30BM	DESCRIPTION	QTY
1	J6631	J6641	J6641	Log, Ramp	1
2	J6632	J6642	J6652	Log, Left Front	1
3	J6633	J6643	J6653	Log, Right Front	1
4	J6634	J6644	J6644	Log, Left Front Ember Bed	1
5	J6635	J6645	J6645	Log, Right Front Ember Bed	1
6	F2943	J6646	J6646	Log, Left Middle	1
7	F2944	K2008	K2008	Log, Right Middle	1
8	J6636	J6647	J6647	Log, Rear Middle	1
9	J7518	J6648	J6648	Log, Rear	1
10	J6637	J6637	J6637	Log, Left Top	1
11	J6638	J6650	J6650	Log, Middle Crossover	1
12	J6639	J6651	J6651	Log, Top Rear	1
13	J6640	J6640	J6640	Log, Switch	1

NOTES

## Innovative Hearth Products Superior<sup>®</sup> Brand Gas Log Set Limited Three Year Warranty

#### THE WARRANTY

Innovative Hearth Products Limited Three Year Warranty ("IHP") warrants your Superior® brand Gas Log Set ("Product") to be free from defects in materials and workmanship at the time of manufacture. The logs and grate carry the Limited Three Year Warranty. After installation, if covered components manufactured by IHP are found to be defective in materials or workmanship during the Limited Three Year Warranty period and while the Product remains at the site of the original installation, IHP will, at its option, repair or replace the covered components. If repair or replacement is not commercially practical, IHP will, at its option, refund the purchase price or wholesale price of the IHP product, whichever is applicable. IHP will also pay IHP prevailing labor rates, as determined in its sole discretion, incurred in repairing or replacing such components. THERE ARE EXCLUSIONS AND LIMITATIONS to this Limited Three Year Warranty as described herein.

#### **COVERAGE COMMENCEMENT DATE**

Warranty coverage begins on the date of purchase. In the case of new home construction, warranty coverage begins on the date of first occupancy of the dwelling or six months after the sale of the Product by an independent IHP dealer, whichever occurs earlier. The warranty shall commence no later than 24 months following the date of product shipment from IHP, regardless of the installation or occupancy date.

#### **EXCLUSIONS AND LIMITATIONS**

This Limited Three Year Warranty applies only if the Product is installed in the United States or Canada and only if operated and maintained in accordance with the printed instructions accompanying the Product and in compliance with all applicable installation and building codes and good trade practices.

This warranty is non-transferable and extends to the original owner only. The Product must be purchased through a listed supplier of IHP and proof of purchase must be provided. The following do not carry the Limited Three Year Warranty but are warranted as follows:

Gas components – Repair or replacement for one year from the date of installation. Remote control – Repair or replacement for one year from the date of installation. Labor coverage – Prevailing IHP labor rates apply for the warranty period of the component.

#### Parts not otherwise listed carry a 90 day warranty from the date of installation.

#### Whenever practicable, IHP will provide replacement parts, if available, for a period of 10 years from the last date of manufacture of the product.

IHP will not be responsible for: (a) damages caused by normal wear and tear, accident, riot, fire, flood or acts of God; (b) damages caused by abuse, negligence, misuse, or unauthorized alteration or repair of the Product affecting its stability or performance (The Product must be subjected to normal use. The Product is designed to burn either natural or propane gas only. Burning conventional fuels such as wood, coal or any other solid fuel will cause damage to the Product, will produce excessive temperatures and could result in a fire hazard.); (c) damages caused by failing to provide proper maintenance and service in accordance with the instructions provided with the Product; (d) damages, repairs or inefficiency resulting from faulty installation or application of the Product.

This Limited Three Year Warranty covers only parts and labor as provided herein. In no case shall IHP be responsible for materials, components or construction which are not manufactured or supplied by IHP or for the labor necessary to install, repair or remove such materials, components or construction. Additional utility bills incurred due to any malfunction or defect in equipment are not covered by this warranty. All replacement or repair components will be shipped F.O.B. from the nearest stocking IHP factory.

#### LIMITATION ON LIABILITY

It is expressly agreed and understood that IHP's sole obligation and the purchaser's exclusive remedy under this warranty, under any other warranty, expressed or implied, or in contract, tort or otherwise, shall be limited to replacement, repair, or refund, as specified herein.

In no event shall IHP be liable for any incidental or consequential damages caused by defects in the Product, whether such damage occurs or is discovered before or after replacement or repair, and whether such damage is caused by IHP's negligence. IHP has not made and does not make any representation or warranty of fitness for a particular use or purpose, and there is no implied condition of fitness for a particular use or purpose.

IHP makes no expressed warranties except as stated in this Limited Three Year Warranty. The duration of any implied warranty is limited to the duration of this expressed warranty.

No one is authorized to change this Limited Three Year Warranty or to create for IHP any other obligation or liability in connection with the Product. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. The provisions of this Limited Three Year Warranty are in addition to and not a modification of or subtraction from any statutory warranties and other rights and remedies provided by law.

#### INVESTIGATION OF CLAIMS AGAINST WARRANTY

IHP reserves the right to investigate any and all claims against this Limited Three Year Warranty and to decide, in its sole discretion, upon the method of settlement.

To receive the benefits and advantages described in this Limited Three Year Warranty, the appliance must be installed and repaired by a licensed contractor approved by IHP.

Contact IHP at the address provided herein to obtain a listing of approved dealers/distributors. IHP shall in no event be responsible for any warranty work done by a contractor that is not approved without first obtaining LHP's prior written consent.

#### HOW TO REGISTER A CLAIM AGAINST WARRANTY

In order for any claim under this warranty to be valid, you must contact the IHP dealer/distributor from which you purchased the product. If you cannot locate the dealer/ distributor, then you must notify IHP in writing. IHP must be notified of the claimed defect in writing within 90 days of the date of failure. Notices should be directed to the IHP Warranty Department at 1508 EIm Hill Pike, Suite 108; Nashville, TN 37210 or visit our website at WWW.SUPERIORFIREPLACES.US.COM.

#### SuperiorFireplaces.US.com

Record the following important information about your appliance:

Appliance model number	
Appliance serial number	
Date appliance was Installed	
Type of gas appliance uses	
Dealer name	

IHP reserves the right to make changes at any time, without notice, in design, materials, specifications, prices and also to discontinue colors, styles and products. Consult your local distributor for fireplace code information.



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P/N 126826-01 Rev. A 01/2014

**Installation and Operation Instructions** 

Superior<sup>™</sup> Unvented (Vent-Free) Gas Log Heater



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

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 gases.

WARNING: This appliance is for installation only in a solid-fuel burning masonry or UL127 factory-built fireplace or in a listed ventless firebox enclosure. It is design-certified for these installations in accordance with ANSI Z21.11.2. Exception: DO NOT install this appliance in a factory-built fireplace that includes instructions stating it has not been tested or should not be used with unvented gas logs.

This is an unvented gas-fired heater. It uses air (oxygen) from the room in which it is installed. Provisions for adequate combustion and ventilation air must be provided. Refer to <u>Air for Combustion and Ventilation</u> section on page 6 of this manual.

A WARNING: If the information in these instructions 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 your gas supplier, call the fire department.

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

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#### SAFETY

WARNING: Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual for correct installation and operational procedures. For assistance or additional information consult a qualified installer, service agency or the gas supplier.

A WARNING: This appliance is for installation only in a solid-fuel burning masonry or UL127 factorybuilt fireplace or in a listed ventless firebox enclosure. It is design-certified for these installations in accordance with ANSI Z21.11.2. Exception: DO NOT install this appliance in a factory-built fireplace that includes instructions stating it has not been tested or should not be used with unvented gas logs.

WARNING: This is an unvented gas-fired heater. It uses air (oxygen) from the room in which it is installed. Provisions for adequate combustion and ventilation air must be provided. Refer to <u>Air</u> for Combustion and Ventilation section on page 6 of this manual.

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 gases.

\* Aftermarket: Completion of sale, not for purpose of resale, from the manufacturer

#### SAFETY Continued

WARNING: This product contains and/or generates chemicals known to the state of California to cause cancer or birth defects or other reproductive harm.

IMPORTANT: Read this owner's manual carefully and completely before trying to assemble, operate or service this fireplace. Improper use of this fireplace can cause serious injury or death from burns, fire, explosion, electrical shock and carbon monoxide poisoning.

# DANGER: Carbon monoxide poisoning may lead to death!

**Carbon Monoxide Poisoning:** Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness or nausea. If you have these signs, the fireplace may not be working properly. **Get fresh air at once!** Have fireplace serviced. Some people are more affected by carbon monoxide than others. These include pregnant women, people with heart or lung disease or anemia, those under the influence of alcohol and those at high altitudes.

Natural and Propane/LP gases are odorless. An odor-making agent is added to these gases. The odor helps you detect a gas leak. However, the odor added to the gas can fade. Gas may be present even though no odor exists.

Make certain you read and understand all warnings. Keep this manual for reference. It is your guide to safe and proper operation of this fireplace.

WARNING: Any change to this heater or its controls can be dangerous.

WARNING: Do not use a blower insert, heat exchanger insert or other accessory not approved for use with this heater.

WARNING: Do not allow fans to blow directly into the fireplace. Avoid any drafts that alter burner flame patterns. Ceiling fans can create drafts that alter burner flame patterns. Altered burner patterns can cause sooting.

Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.

Do not place clothing or other flammable material on or near the appliance. Never place any objects on the heater.

Heater base assembly becomes very hot when running heater. Keep children and adults away from hot surface to avoid burns or clothing ignition. Heater will remain hot for a time after shutdown. Allow surface to cool before touching.

Carefully supervise young children when they are in the room with heater. When using the hand-held remote accessory, keep selector switch in the OFF position to prevent children from turning on burners with remote.

You must operate this heater with the fireplace screen and hood in place. Make sure fireplace screen and hood are in place before running heater. The fireplace screen shall have openings for introduction of combustion air.

Keep the appliance area clear and free from combustible materials, gasoline and other flammable vapors and liquids.

#### SAFETY Continued

- 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.
- Do not place propane/LP supply tank(s) inside any structure. Locate propane/ LP supply tank(s) outdoors (propane/LP units only).
- 3. If you smell gas
  - shut off gas supply
  - · 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 your gas supplier, call the fire department
- 4. This heater shall not be installed as a vented appliance.
- 5. Before installing in a solid fuel burning fireplace, the chimney flue and firebox must be cleaned of soot, creosote, ashes and loose paint by a qualified chimney cleaner. Creosote will ignite if highly heated. A dirty chimney flue may create and distribute soot within the house. Inspect chimney flue for damage. If damaged, repair flue and firebox before operating heater.
- 6. Do not burn solid-fuel in a fireplace in which a vent-free room heater is installed.
- 7. If fireplace has glass doors, never operate this heater with glass doors closed. Any glass doors shall be fully opened when the appliance in operation. If you operate heater with doors closed, heat buildup inside fireplace will cause glass to burst. Make sure there are no obstructions across openings of fireplace.
- To prevent the creation of soot, follow the instructions in <u>Cleaning and Maintenance</u>, page 29.

- Before using furniture polish, wax, carpet cleaner or similar products, turn heater off. If heated, the vapors from these products may create a white powder residue within burner box or on adjacent walls and furniture.
- 10. This heater needs fresh, outside air ventilation to run properly. This heater has an Oxygen Depletion Sensing (ODS) safety shutoff system. The ODS shuts down the heater if enough fresh air is not available. See <u>Air for Combustion and Ventilation</u>, page 6. If heater keeps shutting off, see <u>Troubleshooting</u>, page 31.
- 11. Do not run heater
  - where flammable liquids or vapors are used or stored
  - under dusty conditions
- 12. Do not use this heater to cook food or burn paper or other objects.
- 13. Do not use heater if any part has been exposed to or under water. Immediately call a qualified service technician to inspect the room heater and to replace any part of the control system and any gas control which has been under water.
- 14. Do not operate heater if any log is broken. Do not operate heater if a log is chipped (dime-sized or larger).
- Turn heater off and let cool before servicing, installing or repairing. Only a qualified service person should install, service or repair heater.
- 16. Operating heater above elevations of 4,500 feet may cause pilot outage.
- To prevent performance problems, do not use propane/LP fuel tank of less than 100 lb. capacity (propane/LP units only).
- Provide adequate clearances around air openings.

# UNPACKING

CAUTION: Do not remove the data plates from the grate assembly. The data plates contain important warranty and safety information.

1. Remove logs and heater base assembly from cartons.

Note: Do not pick up heater base assembly by burners. This could damage heater. Always handle base assembly by grate.

- 2. Remove all protective packaging applied to logs and heater for shipment.
- Check heater for any shipping damage. If heater is damaged call INNOVATIVE HEARTH PRODUCTS at 1-800-655-2008 for replacement parts before returning to dealer.

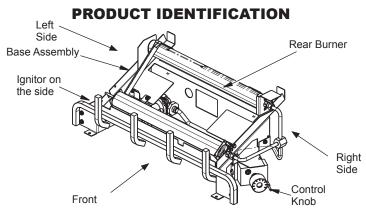


Figure 1 - Product Identification

# LOCAL CODES

Install and use heater with care. Follow all local codes. In the absence of local codes, use the latest edition of *The National Fuel Gas Code, ANSI Z223.1/NFPA 54\**.

#### \*Available from:

American National Standards Institute, Inc. 1430 Broadway New York, NY 10018 National Fire Protection Association, Inc. Batterymarch Park Quincy, MA 02269 **State of Massachusetts:** The installation must be made by a licensed plumber or gas fitter in the Commonwealth of Massachusetts.

Sellers of unvented propane or natural gas-fired supplemental room heaters shall provide to each purchaser a copy of 527 CMR 30 upon sale of the unit.

Vent-free gas products are prohibited for bedroom and bathroom installation in the Commonwealth of Massachusetts.

# **PRODUCT FEATURES**

#### OPERATION

This heater is clean burning. It requires no outside venting. There is no heat loss out a vent or up a chimney. Heat is generated by both realistic flames and glowing coals. This heater is designed for vent-free operation with flue damper closed. It has been tested and approved to ANSI Z21.11.2 standard for unvented heaters. State and local codes in some areas prohibit the use of vent-free heaters.

#### SAFETY DEVICE

This heater has a pilot with an Oxygen Depletion Sensing (ODS) safety shutoff system. The ODS/pilot is a required feature for vent-free room heaters. The ODS/pilot shuts off the heater if there is not enough fresh air.

#### **ELECTRONIC IGNITION SYSTEM**

This heater has an electronic ignitor to light heater fuel supply.

# AIR FOR COMBUSTION AND VENTILATION

WARNING: This heater 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. Read the following instructions to insure proper fresh air for this and other fuel-burning appliances in your home.

Today's homes are built more energy efficient than ever. New materials, increased insulation and new construction methods help reduce heat loss in homes. Home owners weather strip and caulk around windows and doors to keep the cold air out and the warm air in. During heating months, home owners want their homes as airtight as possible.

While it is good to make your home energy efficient, your home needs to breathe. Fresh air must enter your home. All fuel-burning appliances need fresh air for proper combustion and ventilation.

Exhaust fans, fireplaces, clothes dryers and fuel burning appliances draw air from the house to operate. You must provide adequate fresh air for these appliances. This will insure proper venting of vented fuel-burning appliances.

#### PROVIDING ADEQUATE VENTILATION

The following are excerpts from National Fuel Gas Code, ANSI Z223.1/NFPA 54, Air for Combustion and Ventilation.

All spaces in homes fall into one of the three following ventilation classifications:

- 1. Unusually Tight Construction
- 2. Unconfined Space
- 3. Confined Space

The information on pages 6 through 8 will help you classify your space and provide adequate ventilation.

#### **Unusually Tight Construction**

The air that leaks around doors and windows may provide enough fresh air for combustion and ventilation. However, in buildings of unusually tight construction, you must provide additional fresh air.

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 one perm (6 x 10<sup>-11</sup> kg per pa-sec-m<sup>2</sup>) or less with openings gasketed or sealed and
- 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.

#### AIR FOR COMBUSTION AND VENTILATION Continued

If your home meets all of the three criteria above, you must provide additional fresh air. See Ventilation Air From Outdoors, page 8.

If your home does not meet all of the three criteria above, proceed to Determining Fresh-Air Flow For Heater Location, below.

#### **Confined and Unconfined Space**

The National Fuel Gas Code, ANSI Z223.1/ NFPA 54 defines a confined space as a space whose volume is less than 50 cubic feet per 1,000 Btu/hr (4.8 m<sup>3</sup> per kw) of the aggregate input rating of all appliances installed in that space and an unconfined space as a space whose volume is not less than 50 cubic feet per 1,000 Btu/hr (4.8 m<sup>3</sup> 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.

\* Adjoining rooms are communicating only if there are doorless passageways or ventilation grills between them.

#### DETERMINING FRESH-AIR FLOW FOR HEATER LOCATION

#### Determining if You Have a Confined or **Unconfined Space**

Use this work sheet to determine if you have a confined or unconfined space.

Space: Includes the room in which you will install fireplace plus any adjoining rooms with doorless passageways or ventilation grills between the rooms.

1. Determine the volume of the space (length x width x height).

Length x Width x Height = cu. ft. (volume of space)

Example: Space size 20 ft. (length) x 16 ft. (width) x 8 ft. (ceiling height) = 2560 cu. ft. (volume of space)

If additional ventilation to adjoining room is supplied with grills or openings, add the volume of these rooms to the total volume of the space.

2. Multiply the space volume by 20 to determine the maximum Btu/Hr the space can support.

(volume of space) x 20 = (Maximum Btu/Hr the space can support) Example: 2560 cu. ft. (volume of space) x 20 = 51,200 (maximum Btu/Hr the space can support)

3. Add the Btu/Hr of all fuel burning appliances in the space.

Vent-free fireplace		Btu/Hr
Gas water heater*		Btu/Hr
Gas furnace		Btu/Hr
Vented gas heater		Btu/Hr
Gas fireplace logs		Btu/Hr
Other gas appliances* -	+	Btu/Hr
Total =	=	Btu/Hr

\* Do not include direct-vent gas appliances. Direct-vent draws combustion air from the outdoors and vents to the outdoors.

Example:

Gas water heater	_	40,000	Btu/Hr
Vent-free fireplace	+	33,000	Btu/Hr
Total	=	73,000	Btu/Hr

Compare the maximum Btu/Hr the space can 4 support with the actual amount of Btu/Hr used.

Btu/Hr (maximum can support)

Btu/Hr (actual amount used)

Example: 51,200 Btu/Hr (maximum the space can support) 73.000 Btu/Hr (actual amount of Btu/Hr used)

The space in the above example is a confined space because the actual Btu/Hr used is more than the maximum Btu/Hr the space can support. You must provide additional fresh air. Your options are as follows:

- A. Rework worksheet, adding the space of an adjoining room. If the extra space provides an unconfined space, remove door to adjoining room or add ventilation grills between rooms. See Ventilation Air From Inside Building, page 8.
- B. Vent room directly to the outdoors. See Ventilation Air From Outdoors, page 8.
- C. Install a lower Btu/Hr fireplace, if lower Btu/ Hr size makes room unconfined

If the actual Btu/Hr used is less than the maximum Btu/Hr the space can support, the space is an unconfined space. You will need no additional fresh air ventilation

# AIR FOR COMBUSTION AND VENTILATION

Continued

A WARNING: If the area in which the heater may be operated does not meet the required volume for indoor combustion air, combustion and ventilation air shall be provided by one of the methods described in the National Fuel Gas Code, ANSI Z223. 1/NFPA 54, the International Fuel Gas Code, or applicable local codes.

#### VENTILATION AIR

#### Ventilation Air From Inside Building

This fresh air would come from an adjoining unconfined space. When ventilating to an adjoining unconfined space, you must provide two permanent openings: one within 12" of the ceiling and one within 12" of the floor on the wall connecting the two spaces (see options 1 and 2, Figure 2). You can also remove door into adjoining room (see option 3, Figure 2). Follow the National Fuel Gas Code, ANSI 2223.1/NFPA 54, Air for Combustion and Ventilation for required size of ventilation grills or ducts.

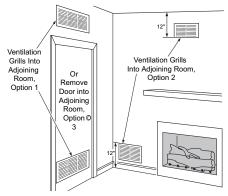


Figure 2 - Ventilation Air from Inside Building

#### Ventilation Air From Outdoors

Provide extra fresh air by using ventilation grills or ducts. You must provide two permanent openings: one within 12" of the ceiling and one within 12" of the floor. Connect these items directly to the outdoors or spaces open to the outdoors. These spaces include attics and crawl spaces. Follow the National Fuel Gas Code, ANSI Z223.1/NFPA 54, Air for Combustion and Ventilation for required size of ventilation grills or ducts.

*IMPORTANT:* Do not provide openings for inlet or outlet air into attic if attic has a thermostat-controlled power vent. Heated air entering the attic will activate the power vent.

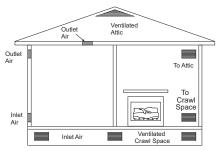


Figure 3 - Ventilation Air from Outdoors

NOTICE: This heater is intended for use as supplemental heat. Use this heater along with your primary heating system. Do not install this heater as your primary heat source. If you have a central heating system, you may run system's circulating blower while using heater. This will help circulate the heat throughout the house. In the event of a power outage, you can use this heater as your primary heat source.

WARNING: A qualified service person must install heater. Follow all local codes.

WARNING: Before installing in a solid fuel burning fireplace, the chimney flue and firebox must be cleaned of soot, creosote, ashes and loose paint by a qualified chimney cleaner. Creosote will ignite if highly heated. A dirty chimney flue may create and distribute soot within the house. Inspect chimney and firebox flue for damage. If damaged, repair flue and firebox before operating heater.

WARNING: Any outside air ducts and/or ash dumps in the fireplace shall be permanently closed at time of appliance installation.

WARNING: Seal any fresh air vents or ash clean-out doors located on floor or wall of fireplace. If not, drafting may cause pilot outage or sooting. Use a heat-resistant sealant. Do not seal chimney flue damper.

WARNING: Never install the heater

- in a bedroom or bathroom
- in a recreational vehicle
- where curtains, furniture, clothing or other flammable objects are less than 36" from the front and 42" from top heater, For side clearances see Figure 4 page 10
- in high traffic areas
- · in windy or drafty areas

A CAUTION: This heater creates warm air currents. These currents move heat to wall surfaces next to heater. Installing heater next to vinyl or cloth wall coverings or operating heater where impurities (such as, but not limited to, tobacco smoke, aromatic candles, cleaning fluids, oil or kerosene lamps, etc.) in the air exist, may discolor walls or cause odors.

*IMPORTANT*: Vent-free heaters add moisture to the air. Although this is beneficial, installing heater in rooms without enough ventilation air may cause mildew to form from too much moisture. See <u>Air for Combustion and Ventilation</u>, page 6.

#### CHECK GAS TYPE

Use the correct type of gas (natural or propane/ LP). If your gas supply is not the correct gas type, do not install heater. Call dealer where you bought heater for proper type heater.

WARNING: This appliance is equipped for either natural gas or propane/LP gas but not both. Gas type is indicated on the rating plate. Field conversion is not permitted.

INSTALLATION AND CLEARANCES FOR VENT-FREE OPERATION

WARNING: Maintain the minimum clearances. If you can, provide greater clearances from floor, ceiling and adjoining wall.

Minimum Fireplace Clearance to Combustible Materials Side Wall 16", Ceiling 42", Floor 5", Front 36"

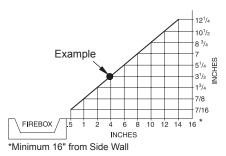
Carefully follow these instructions. This will
ensure safe installation into a masonry,
UL127-listed manufactured fireplace or listed
vent-free firebox.

#### Minimum Clearances For Side Combustible Material, Side Wall and Ceiling

A. Clearances from the side of the fireplace cabinet to any combustible material and wall should follow diagram in Figure 4. *Example:* The face of a mantel, bookshelf, etc. is made of combustible material and protrudes 3 <sup>1</sup>/<sub>2</sub>" from the wall. This combustible material must be 4" from the side of the fireplace cabinet (see Figure 4).

Note: When installing your gas logs into a manufactured firebox, follow firebox manufacturer's instructions for minimum clearances to combustible materials.

B. Clearances from the top of the fireplace opening to the ceiling should not be less than 42".



#### Figure 4 - Minimum Clearance for Combustible to Wall

LOG SIZING REQUIREMENTS				
Log Set	Minimum Firebox Size			
Model No.	Height Depth		Front Width	Rear* Width
LBG18-SM	17"	13.5"	20"	14"
LBG24-SM	17"	13.5"	26"	18"
LBG30-SM	21"	13.5"	32"	22"
LBG36-SM	21"	13.5"	38"	27.5"
LBG18-BM	17"	14.5"	26"	20"
LBG24-BM	17"	14.5"	29"	22"
LBG30-BM	21"	14.5"	32"	22"

#### MINIMUM NONCOMBUSTIBLE MATERIAL CLEARANCES

#### If Not Using Mantel

Note: If using a mantel proceed to If Using Mantel. If not using a mantel, follow the information on this page.

You must have noncombustible material(s) above the fireplace opening. Noncombustible materials (such as slate, marble, tile, etc.) must be at least 1/2" thick. With sheet metal, you must have noncombustible material behind it. Noncombustible material must extend at least 8" up (for all models). If noncombustible material is less than 12", you must install the fireplace hood accessory (24", 30" and 36" Models Only). See Figure 5 for minimum clearances.

Noncombustible Material Distance (A)	Requirements for Safe Installation
12" or more	Noncombustible mate- rial OK.
Between 8" and 12"	24", 30" or 36" Models: Install fireplace hood accessory (GA6050 or GA6053 see <u>Acces-</u> <u>sories</u> , page 45). 18" Model: Noncombustible material OK.
Less than 8"	Noncombustible mate- rial must be extended to at least 8". See <u>Between 8" and 12"</u> , above. If you cannot ex- tend material, you must operate heater with flue damper open.

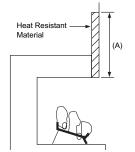


Figure 5 - Heat Resistant Material (Slate, Marble, Tile, etc.) Above Fireplace

#### If Using Mantel

You must have noncombustible material(s) above the fireplace opening. Noncombustible materials (such as slate, marble, tile, etc.) must be at least 1/2" thick. With sheet metal, you must have noncombustible material behind it. Noncombustible material must extend at least 8" up (for all models). If noncombustible material is less than 12", you must install the fireplace hood accessory (24", 30" and 36" Models Only). Even if noncombustible materialis material is more than 12", you may need the hood accessory to deflect heat away from your mantel shelf. See Figures 5 and 6 and Figure 7, page 9, for minimum clearances.

#### MANTEL CLEARANCES

In addition to meeting noncombustible material clearances, you must also meet required clearances between fireplace opening and mantel shelf. If you do not meet the clearances listed below, you will need a hood.

#### Determining Minimum Mantel Clearance

If you meet minimum clearance between mantel shelf and top of fireplace opening, a hood is not required (see Figure 6).

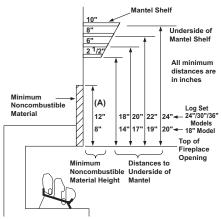


Figure 6 - Minimum Mantel Clearances Without Using Hood

#### Continued

#### Determining Minimum Mantel Clearance When Using a Hood

If minimum clearances in Figure 6, page 11, are not met, you must have a hood. When using a hood there are still certain minimum mantel clearances required. Follow minimum clearances shown in Figure 7, when using hood.

NOTICE: Surface temperatures of adjacent walls and mantels become hot during operation. Walls and mantels above the firebox may become hot to the touch. If installed properly, these temperatures meet the requirement of the national product standard. Follow all minimum clearances shown in this manual.

NOTICE: If your installation does not meet the minimum clearances shown, you must do one of the following:

- operate the logs only with the flue damper open
- raise the mantel to an acceptable height
- remove the mantel

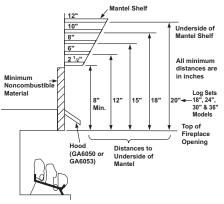


Figure 7 - Minimum Mantel Clearances When Using Hood

#### FLOOR CLEARANCES

- A. If installing appliance on the floor level, you must maintain the minimum distance of 14" to combustibles (see Figure 8).
- B. If combustible materials are less than 14" to the fireplace, you must install appliance at least 5" above the top surface of combustible flooring including tile and carpet. (see Figure 9).

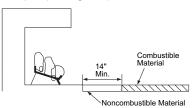


Figure 8 - Minimum Fireplace Clearances If Installed at Floor Level

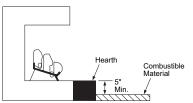


Figure 9 - Minimum Fireplace Clearances Above Combustible Flooring

#### INSTALLING HEATER BASE ASSEMBLY

WARNING: You must secure this heater to fireplace floor. If not, heater will move when you adjust controls. Moving heater may cause a gas leak.

A CAUTION: Do not pick up heater base assembly by burners. This could damage heater. Only handle base assembly by grates.

Continued

WARNING: If installing in a sunken fireplace, special care is needed. You must raise the fireplace floor to allow access to heater control panel. This will insure adequate air flow and guard against sooting and controls being damaged. Raise fireplace floor with noncombustible material. Make sure material is secure.

*IMPORTANT:* Make sure the heater burners are level. If heater is not level, heater will not work properly. For thermostat models, avoid damage to thermostat bulb. Avoid nicks or sharp bends in thermostat bulb wire. Keep thermostat bulb in mounting bracket until ready to mount base to floor. See <u>Optional</u> <u>Positioning Of Thermostat Sensing Bulb</u>, page 30.

#### Installation Items Needed

- hardware package (provided with heater)
- approved flexible gas hose and fittings (provided) (if allowed by local codes)
- sealant (resistant to propane/LP gas, not provided)
- electric drill with 3/16" masonry drill bit
- Apply pipe joint sealant lightly to male threads of gas fitting (provided). Connect approved flexible gas hose to gas regulator of heater (see Figure 10). *IMPORTANT*: Hold gas regulator with wrench when connecting flexible gas hose.
- Position heater base assembly in fireplace.
- Mark screw locations through holes in front panel of base (see Figure 11). If installing in a brick-bottom fireplace, mark screw locations in mortar joint of bricks.
- 4. Remove heater base from fireplace.
- Drill holes at marked locations using 3/16" drill bit.
- Attach base, through holes in front panel of base, to fireplace floor using masonry screws provided in hardware package (see Figure 11).
- Connect to gas supply. See <u>Connecting</u> <u>To Gas Supply</u>.

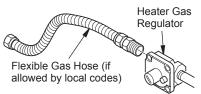


Figure 10 - Attaching Flexible Gas Hose to Heater Gas Regulator (Thermostatically-Controlled Models Only)

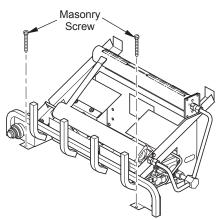


Figure 11 - Attaching Base to Fireplace Floor

CONNECTING TO GAS SUPPLY

WARNING: This appliance requires a 1/2" NPT (National Pipe Thread) inlet connection to the pressure regulator.

WARNING: A qualified service person must connect heater to gas supply. Follow all local codes.

**CAUTION:** Never connect propane/LP fireplace directly to the propane/LP supply. This heater requires an external regulator (not supplied). Install the external regulator between the heater and propane/LP supply.

#### Continued

### WARNING: Never connect natural gas fireplace to private (non-utility) gas wells. This gas is commonly known as wellhead gas.

#### Installation Items Needed

Before installing heater, make sure you have the items listed below.

- external regulator (supplied by installer)
- piping (check local codes)
- sealant (resistant to propane/LP gas)
- equipment shutoff valve \*
- test gauge connection \*
- sediment trap
- tee joint
- pipe wrench
- approved flexible gas line with gas connector (if allowed by local codes) (not provided)

\* An equipment shutoff valve with 1/8" NPT tap is an acceptable alternative to test gauge connection. Purchase the optional equipment shutoff valve from your dealer.

For propane/LP units, the installer must supply an external regulator. The external regulator will reduce incoming gas pressure. You must reduce incoming gas pressure to between 11" and 14" of water. If you do not reduce incoming gas pressure, heater regulator damage could occur. Install external regulator with the vent pointing down as shown in Figure 14. Pointing the vent down protects it from freezing rain or sleet.

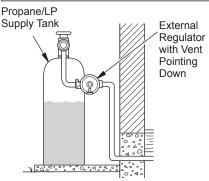
CAUTION: Use only new, black iron or steel pipe. Internally-tinned copper tubing may be used in certain areas. Check your local codes. Use pipe of 1/2" diameter or greater to allow proper gas volume to heater. If pipe is too small, undue loss of volume will occur. Installation must include an equipment shutoff valve, union and plugged 1/8" NPT tap. Locate NPT tap within reach for test gauge hook up. NPT tap must be upstream from heater (see Figure 12 or Figure 13 on page 15, depending on your model).

*IMPORTANT*: Install equipment shutoff valve in an accessible location. The equipment shutoff valve is for turning on or shutting off the gas to the appliance.

Check your building codes for any special requirements for locating equipment shutoff valve to fireplaces.

Apply pipe joint sealant lightly to male NPT threads. This will prevent excess sealant from going into pipe. Excess sealant in pipe could result in clogged heater valves.

# WARNING: Use pipe joint sealant that is resistant to liquid petroleum (LP) gas.



#### Figure 12 - External Regulator With Vent Pointing Down

We recommend that you install a sediment trap in supply line as shown in Figure 13, page 15. Locate sediment trap where it is within reach for cleaning. Install in piping system between fuel supply and heater. Locate sediment trap where trapped matter is not likely to freeze. A sediment trap traps moisture and contaminants. This keeps them from going into heater controls. If sediment trap is not installed or is installed wrong, heater may not run properly.

#### Continued

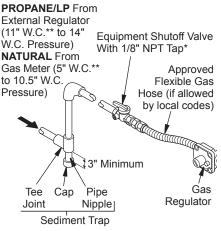


Figure 13 - Gas Connection

CAUTION: Avoid damage to regulator. Hold gas regulator with wrench when connecting it to gas piping and/or fittings.

#### CHECKING GAS CONNECTIONS

WARNING: Test all gas piping and connections, internal and external to unit, for leaks after installing or servicing. Correct all leaks at once.

WARNING: Never use an open flame to check for a leak. Apply a noncorrosive leak detection fluid to all joints. Bubbles forming show a leak. Correct all leaks at once.

CAUTION: Make sure external regulator has been installed between propane/LP supply and heater. See guidelines under <u>Connecting to Gas Supply</u>, page 13.

#### PRESSURE TESTING GAS SUPPLY PIPING SYSTEM

# Test Pressures In Excess Of 1/2 PSIG (3.5 kPa)

- Disconnect appliance with its appliance main gas valve (control valve) and equipment shutoff valve from gas supply piping system. Pressures in excess of 1/2 psig (3.5 kPa) will damage heater regulator.
- 2. Cap off open end of gas pipe where equipment shutoff valve was connected.
- Pressurize supply piping system by either opening propane/LP supply tank valve for propane/LP gas or opening main gas valve located on or near gas meter for natural gas or using compressed air.
- Check all joints of gas supply piping system. Apply noncorrosive leak detection fluid to all joints. Bubbles forming show a leak.
- 5. Correct all leaks at once.
- Reconnect heater and equipment shutoff valve to gas supply. Check reconnected fittings for leaks.

# Test Pressures Equal To or Less Than 1/2 PSIG (3.5 kPa)

- 1. Close equipment shutoff valve (see Figure 14, page 16).
- Pressurize supply piping system by either opening propane/LP supply tank valve for propane/LP gas or opening main gas valve located on or near gas meter for natural gas or using compressed air.
- Check all joints from gas meter to equipment shutoff valve for natural gas or propane/LP supply to equipment shutoff valve for propane/LP (see Figure 15 or 16, page 16). Apply noncorrosive leak detection fluid to all joints. Bubbles forming show a leak.
- 4. Correct all leaks at once.

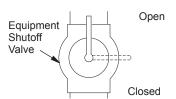
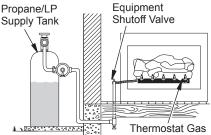
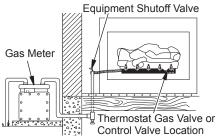


Figure 14 - Equipment Shutoff Valve



Valve or Control Valve Location

#### Figure 15 - Checking Gas Joints (Propane/LP Only)



#### Figure 16 - Checking Gas Joints (Natural Gas Only)

# PRESSURE TESTING HEATER GAS CONNECTIONS

- 1. Open equipment shutoff valve (see Figure 14).
- Open main gas valve located on or near gas meter for natural gas or open propane/LP supply tank valve.
- 3. Make sure control knob of heater is in the OFF position.
- Check all joints from equipment shutoff valve to thermostat gas valve (see Figure 15 or 16). Apply noncorrosive leak detection fluid to all joints. Bubbles forming show a leak.
- 5. Correct all leaks at once.

- Light heater (see <u>Operation</u>, page 26, depending on your model). Check all other internal joints for leaks.
- Turn off heater (see <u>To Turn Off Gas to</u> <u>Appliance</u>, page 27.

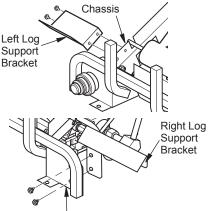
### INSTALLING LOGS

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

#### Log Support Brackets

If installing a LBG36-SM, attach log support brackets before installing logs. These brackets are provided with the BG(E)2436 series burner systems.

- Install left bracket to left side of chassis using 2 screws provided (see Figure 17).
- Install right bracket to right front of chassis using 2 screws provided (see Figure 17).



Right Front of Chassis

#### Figure 17 - Installing Log Support Brackets

#### SWITCH LOG

Log sets LBG(18,24,30,36)-SM, and LBG(18,24,30)-BM come with a switch log that is not used with these burner systems. The switch log can be used as a decorative log place on the hearth. Do not place on the burner system.

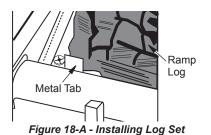
Continued

BGE Series Burner System - Log Compatibility Chart			
Burner System Models	Concrete Log Models		
BGE18NT, BGE18PT	LBG18-SM	LBG18-BM	
BGE2436NT, BGE2436PT	LBG24-SM LBG30-SM LBG36-SM	LBG24-BM LBG30-BM	

#### FIBER LOG MODELS LBG(18,24,30,36)-SM

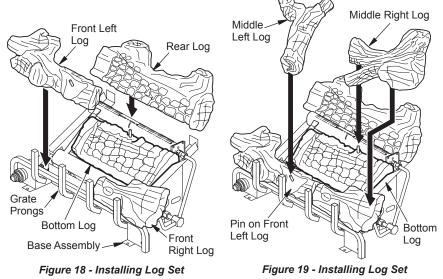
Note: Your appliance may vary from model shown but log placement will be the same.

- 1. Place bottom log in center of the base assembly as shown in Figure 18. The log must sit flat on the black sheet metal and behind the left metal tab as shown in figure 18-A.
- Rest rear log in back corner sections of base assembly as shown in Figure 18. Make sure log is completely vertical and not leaning in toward burner where flame will touch the log.
- Position front right log against right side of grate prongs (see Figure 18).
- Position front left log against left side of grate prongs (see Figure 18).
- 5. Place middle right log over front right and bottom logs as shown in Figure 19. Be



sure hole in middle right log seats over pin in bottom log.

6. Place middle left log over front left and bottom logs as show in Figure 19. Be sure hole in middle left log seats over pin in front left log.



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- For LTF36-SM, the front right and left logs are longer and are supported with brackets on each end (see Figure 20). Place left and right small front logs under left bracket and beside right bracket.
- For LBG36-SM, position left and right control cover logs as shown in Figure 21. These may be placed as desired to hide controls.

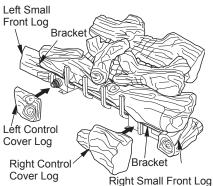


Figure 20 - Installing LBG36-SM Model Control Cover Logs



LBG(18,24,30)-SM MODELS



LBG36-SM MODELS Figure 21 - Correct Log Placement

# CONCRETE LOG MODELS LBG (18,24,30) BM

Note: Your appliance may vary from model shown but log placement will be the same.

 Place fiber ramp log in center of chassis as shown in Figure 22. The fiber ramp log can be identified by the shape and much lighter weight when compared to the other logs. The log must sit flat on the black sheet metal and behind the left metal tab as shown. Make sure the side marked "BOTTOM" is setting down.

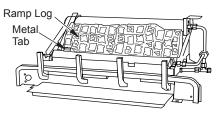


Figure 22 - Installing Fiber Ramp Log

 Place front left (18" D-064, 24" D-057 & 30" D-038) and front right (18" D-065, 24" D-058 & 30" D-039) logs as shown in Figure 23.

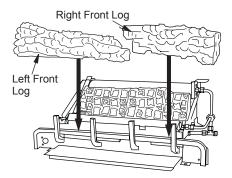


Figure 23 - Installing Left/Right Front Logs

 Place left ember bed log (18" D-073, 24" & 30" D-048) as shown in Figure 24. The log has groove on one side that sets on the ember bed pan. The back side of this log needs to rest against the front of the base assembly. Make sure the flame from the ember pan does not touch the ember bed log.

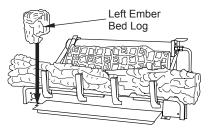


Figure 24 - Installing Left Ember Bed Log

4. The right ember bed log 24" & 30" (D-047) has a hole in the log that sets on the grate finger and the other end rest on the fireplace floor, place log as shown in Figure 25. The right ember bed logs for 18" (D-072) has a groove on the side that sets on the ember bed pan and the back of the log needs to rest against the front of the base. Make sure the flame from the ember pan does not touch the ember bed log. The back side of this log needs to rest against the front of the base the from the bace sure the flame from the ember pan does not touch the ember pan does not touch the ember pan does not touch the base assembly, make sure the flame from the ember pan does not touch the ember bed log.

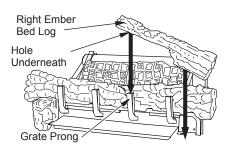


Figure 25 - Installing Right Ember Bed Log

 The left middle log (18" D-066, 24" & 30" D-040) has a groove on the bottom to sit on the chassis and has to sit on the tab on the back of the left front log as shown in Figure 26.

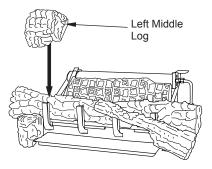


Figure 26 - Installing Left Middle Log

 The right middle log (18" D-067, 24" & 30" D-041) has a groove on the bottom to sit on the chassis and has to sit on the tab on the back of the right front. The right middle log should have a recess area that fits around the ramp log as shown in Figure 27.

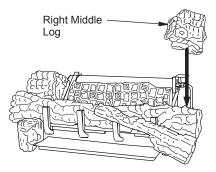


Figure 27 - Installing Right Middle Log

 The rear middle log (18" D-068, 24" & 30" D-042) should fit between the ramp log and the rear burner. The left and right middle logs have recessed areas for the rear middle log to sit into (See Figure 28). There may be a small gap between the rear middle log and the ramp log, this is normal. Be careful not to push the rear burner out of position while installing this log.

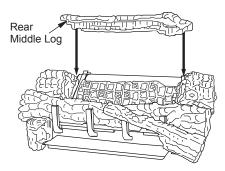


Figure 28 - Installing Rear Middle Log

 Rest the rear log (18" D-069, 24" & 30" D-043) on the chassis behind the rear burner as shown in Figure 29. The bottom of the rear log will sit into the rear log supports.

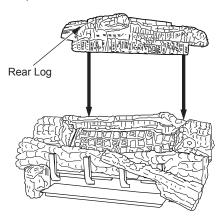


Figure 29 - Installing Rear Log

 Place the left top log (D-046) onto the rear log and the left middle log. Make sure to place the projection on the bottom of the left top log into the recessed areas on the rear and left middle logs (see Figure 30).

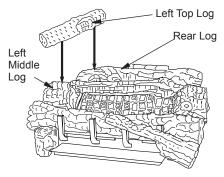


Figure 30 - Installing Left Top Log

 Rest the middle crossover log (18" D-070, 24" & 30" D-044) onto the right middle log and the left front log (see Figure 31). Make sure to match the projection on the bottom of the crossover log with the recess area in the right middle log and the left front log.

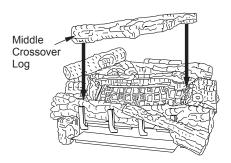


Figure 31 - Installing Middle Crossover Log

 Place the top rear log (18" D-071, 24" & 30" D-045) onto the rear log as shown. The rear log has a projection that will fit into the recess area on the bottom of the top rear log (see Figure 32).

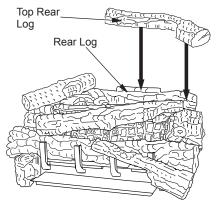


Figure 32 - Installing Top Rear Log

#### EMBER PLACEMENT - BGE SERIES BURNER SYSTEMS

WARNING: Do not use any other ember material not supplied with this unit.

WARNING: Do not operate unit without ember material correctly in place as shown in Figures 33 & 34. Do NOT place ember material anywhere else on the unit. Use only ember material supplied with unit. Excessive or incorrectly placed ember material may produce carbon monoxide or soot. If replacement embers are needed, the replacement embers must be purchased from IHP. See page 33 for part numbers.

WARNING: Do not use any other ember material not supplied with this unit.

WARNING: All previously applied loose material must be removed prior to reapplication.

 Ember Chunk Placement. The BGE2436 burner systems include three ember chunks that are designed to fit over shoulder screws on the ember pan burner. The bottom of each ember chunk has a hole for securing the ember chunk in place when it is placed over a shoulder screw. Place the ember chunks as shown in Figure 33 on page 22 by placing the ember chunk with the number "1" on the left, "2" in the center, and "3" on the right. These numbers are embossed on the back of each piece for identification purposes. Please note that BGE18 burner systems do not include ember chunks.

 Two ember materials are supplied with this log set. Platinum Bright Embers give a bright glow appearing as hot coals. Follow instructions for the ember material you choose. Should embers need replacing, see <u>Parts</u>, page 36.

**Platinum Bright Ember placement.** Add embers to front, flat burner. Gently remove embers from bag. Separate pieces of ember material and place on surface of flat burner just behind horizontal ports as shown in Figure 34.

**Rock Wool placement.** Place rock wool material on front flat burner in areas away from ports as shown in Figure 35.

3. Add lava rock and small decorative logs around base of heater if desired. DO NOT place rock or additional logs on front burner or on logs. Placing any material on unit other than ember material on front burner may result in production of carbon monoxide or soot. Use lava rock to hide wires from switch/log to control valve. Place switch/log so the switch is easy to access.

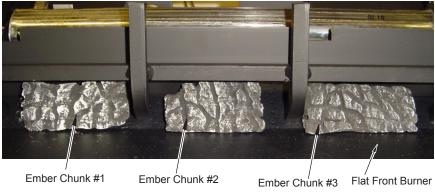


Figure 33 - Ember Chunk Placement BGE2436 Series



Ember Material

Flat Front Burner

Figure 34 - Platinum Bright Embers for BGE Series



Figure 35 - Placement of Rock Wool for BGE Series (shown with Platinum Bright Embers)

# **OPERATION**

#### FOR YOUR SAFETY READ BEFORE LIGHTING

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

- A. This appliance has a pilot which must be lighted by hand. 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 service technician or gas supplier. Force or attempted repair may result in a fire or explosion.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified 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 INSTRUCTIONS

NOTICE: During initial operation of new heater, burning logs will give off a paper-burning smell. Orange flame will also be present. Open damper or window to vent smell. This will only last a few hours.

# WARNING:

- If fireplace has glass doors, never operate this heater with glass doors closed. If you operate heater with doors closed, heat buildup inside fireplace will cause glass to burst. Make sure there are no obstructions across openings of fireplace.
- You must operate this heater with a fireplace screen in place. Make sure fireplace screen is closed before running heater.

Note: Home owners generally prefer to operate their heater with the chimney damper closed. This will put all the heat into the room. However, there may be times you will desire the full flames of the HI heat setting but will find the heat output excessive. You can open the chimney damper (if you have one) fully or partially to release some of the heat.

# WARNING: Damper handle will be hot if heater has been running.

- 1. STOP! Read the safety information.
- 2. Make sure equipment shutoff valve is fully open.
- 3. Turn control knob clockwise to the OFF position.
- 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. If you don't smell gas, go to the next step.
- Turn control knob counterclockwise
   ✓ to the PILOT position. Press in control knob for five (5) seconds (see Figure 36).

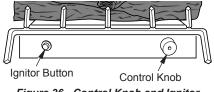


Figure 36 - Control Knob and Ignitor Button Location

#### OPERATION Continued

Note: You may be running this heater for the first time after hooking up to gas supply. If so, the control knob may need to be pressed in for 30 seconds or more. This will allow air to bleed from the gas system.

 With control knob pressed in, press and release ignitor button. This will light pilot. The pilot is attached to the front burner. If needed, keep pressing ignitor button until pilot lights.

Note: If pilot does not stay lit, contact a qualified service person or gas supplier for repairs. Until repairs are made, light pilot with match. To light pilot with match, see <u>Manual Lighting Procedure</u>.

- Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob.
  - If control knob does not pop out when released, contact a qualified service person or gas supplier for repairs.

Note: If pilot goes out, repeat steps 3 through 7. This heater has a safety interlock system. Wait one (1) minute for system to reset before lighting pilot again.

- 8. Turn control knob counterclockwise ✓ to desired heating level. The burners should light. Set control knob to any heat level between HI and LO.
- 9. To leave pilot lit and shut off burners only, turn control knob clockwise to the PILOT position.

CAUTION: Do not try to adjust heating levels by using the equipment shutoff valve.

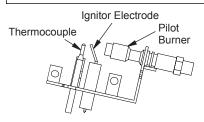


Figure 37 - Pilot

### TO TURN OFF GAS TO APPLIANCE

- Turn control knob clockwise to the OFF position.
- Close equipment shutoff valve (see Figure 14, page 16).

#### THERMOSTAT CONTROL OPERATION

The thermostat control knob can be set to any comfort level between HI and LO. The thermostat will gradually modulate the heat output and flame height from higher to lower settings or pilot, in order to maintain the comfort level you select. The ideal comfort setting will vary by household depending upon the amount of space to be heated, the output of the central heating system, etc.

Note: Selecting the HI setting with the control knob will cause the burner to remain fully on, without modulating down in most cases.

#### MANUAL LIGHTING PROCEDURE

- Follow steps 1 through 5 under <u>Lighting</u> <u>Instructions</u>, page 23.
- 2. Press control knob and light pilot with match.
- Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob. Now follow step 8 under <u>Lighting Instructions</u>, page 23.

# **INSPECTING BURNERS**

Check pilot flame pattern and burner flame patterns often.

#### PILOT FLAME PATTERN

Figure 38 shows a correct pilot flame pattern. Figure 39 shows an incorrect pilot flame pattern. The incorrect pilot flame is not touching the thermocouple. This will cause the thermocouple to cool. When the thermocouple cools, the heater will shut down.

If pilot flame pattern is incorrect, as shown in Figure 39

- turn heater off (see <u>To Turn Off Gas to Appliance</u>, page 24.
- see *Troubleshooting*, page 28

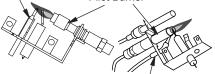
Note: The pilot flame on natural gas units will have a slight curve, but flame should be blue and have no yellow or orange color.

Natural Gas Pilot

Propane/LP Gas Pilot

Thermocouple

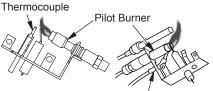
Pilot Burner



Thermocouple Figure 38- Correct Pilot Flame Pattern (Your pilot may vary from pilots shown)

Natural Gas Pilot

Propane/LP Gas Pilot



Thermocouple

Figure 39 - Incorrect Pilot Flame Pattern (Your pilot may vary from pilots shown)

#### BURNER FLAME PATTERN

Figure 40 shows correct burner flame pattern. Figure 41 shows incorrect burner flame pattern. WARNING: If incorrect burner flame occurs, your heater could produce increased levels of carbon monoxide.

NOTICE: Do not mistake orange flames with yellow tipping. Dirt or other fine particles are burned by heater, causing brief patches of orange flame.

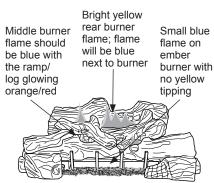


Figure 40 - Correct Burner Flame Pattern

If burner flame pattern is incorrect, as shown in Figure 41

turn heater off (see <u>To Turn Off Gas to Appliance</u>, page 24.

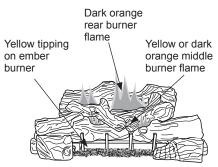


Figure 41 - Incorrect Burner Flame Pattern

# **CLEANING AND MAINTENANCE**

# WARNING: Turn off heater and let cool before cleaning.

CAUTION: You must keep control areas, burners and circulating air passageways of heater clean. Inspect these areas of heater before each use. Have heater inspected yearly by a qualified service person. Heater may need more frequent cleaning due to excessive lint from carpeting, pet hair, bedding material, etc.

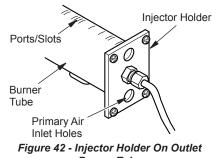
WARNING: Failure to keep the primary air opening(s) of the burner(s) clean may result in sooting and property damage.

# BURNER INJECTOR HOLDER AND PILOT AIR INLET HOLE

The primary air inlet holes allow the proper amount of air to mix with the gas. This provides a clean burning flame. Keep these holes clear of dust, dirt, lint and pet hair. Clean these air inlet holes prior to each heating season. Blocked air holes will create soot. We recommend that you clean the unit every three months during operation and have heater inspected yearly by a qualified service person.

We also recommend that you keep the burner tube and pilot assembly clean and free of dust and dirt. To clean these parts we recommend using compressed air no greater than 30 PSI. Your local computer store, hardware store or home center may carry compressed air in a can. If using compressed air in a can, please follow the directions on the can. If you don't follow directions on the can, you could damage the pilot assembly.

- 1. Shut off unit, including pilot. Allow unit to cool for at least thirty minutes.
- Inspect burner, pilot and primary air inlet holes on injector holder for dust and dirt (see Figure 42).
- 3. Blow air through the ports/slots and holes in the burner.
- Check injector holder located at the end of the burner tube again. Remove any large particles of dust, dirt, lint or pet hair with a



Burner Tube

soft cloth or vacuum cleaner nozzle.

- Blow air into the primary air holes on the injector holder.
- In case any large clumps of dust have now been pushed into the burner repeat steps 3 and 4.

Clean pilot assembly also. A yellow tip on the pilot flame indicates dust and dirt in the pilot assembly. There is a small pilot air inlet hole about 2" from where the pilot flame comes out of the pilot assembly (see Figure 43). With the unit off, lightly blow air through the air inlet hole. You may blow through a drinking straw if compressed air is not available.

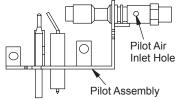


Figure 43 - Pilot Inlet Air Hole (Your pilot may vary from pilot shown)

#### LOGS

- If you remove logs for cleaning, refer to <u>Installing Logs</u>, page 16, to properly replace logs.
- Replace log(s) if broken or chipped (dimesized or larger).

#### MAIN BURNER

Periodically inspect all burner flame holes with the heater running. All slotted burner flame holes should be open with yellow flame present. All round burner flame holes should be open with a small blue flame present. Some burner flame holes may become blocked by debris or rust, with no flame present. If so, turn off heater and let cool. Remove blockage, blocked burner flame holes will create soot.

# OPTIONAL POSITIONING OF THERMOSTAT SENSING BULB

#### FOR MASONRY AND FACTORY-BUILT METAL FIREPLACE

If your log set cycles to pilot, but the room temperature drops to a lower than ideal comfort level before the log set comes back on, you may want to reposition the thermostat sensing bulb.

The thermostat sensing bulb is located on the gas valve assembly. This location allows the thermostat to keep the room temperature at an ideal comfort level for most fireplace applications. If positioning the thermostat sensing bulb elsewhere, follow these directions.

Tools needed: 5/16" hex driver or socket

1. Locate the gas valve assembly and thermostat sensing bulb (see Figure 44).

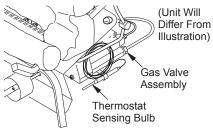


Figure 44 - Location of Gas Valve Assembly and Thermostat Sensing Bulb

 With 5/16" hex driver or socket, loosen the thermostat screw. Carefully slide the thermostat sensing bulb out of the retaining clamp (see Figure 45).

Note: Do not remove screw. Make sure you tighten screw after removing thermostat sensing bulb.

*IMPORTANT:* Do not force or bend thermostat sensing bulb or capillary.

 The thermostat sensing bulb may be located to the lower right front side of fireplace. Place bulb in an area that will be close to room temperature when log set is operating.

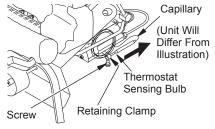


Figure 45 - Removing Thermostat Sensing Bulb

WARNING: Turn off heater and let cool before servicing. Only a gualified service person should service and repair heater.

# A CAUTION: Never use a wire, needle or similar object to clean ODS/pilot. This can damage ODS/pilot unit.

Note: All troubleshooting items are listed in order of operation.

#### **OBSERVED PROBLEM POSSIBLE CAUSE** REMEDY When ignitor button is 1. Ignitor electrode not con-1. Reconnect ignitor cable pressed, there is no spark nected to ignitor cable at ODS/pilot 2. Ignitor cable pinched or 2. Free ignitor cable if pinched by any metal or tubing. wet Keep ignitor cable dry 3. Broken ignitor cable 3. Replace ignitor cable 4. Bad ignitor 4. Replace ignitor 5. Ignitor electrode positioned 5. Replace pilot assembly wrong 6. lanitor electrode broken 6. Replace pilot assembly 7. Battery not installed, battery 7. Install new alkaline battery power low or battery not inin electronic ignitor. Verify battery is installed corstalled correctly (electronic ignition models only) rectly When ignitor button is 1. Gas supply turned off or 1. Turn on gas supply or open pressed, there is spark at equipment shutoff valve equipment shutoff valve ODS/pilot but no ignition closed 2. Control knob not in PILOT 2. Turn control knob to PILOT position position 3. Control knob not pressed in 3. Press in control knob while while in PILOT position in PILOT position 4. Air in gas lines when in-4. Continue holding down stalled control knob. Repeat igniting operation until air is removed 5. Depleted gas supply (pro-5. Contact local propane/LP pane/LP only) gas company 6. Clean ODS/pilot (see 6. ODS/pilot is clogged Cleaning and Maintenance, page 29) or replace ODS/ pilot assembly 7. Gas regulator setting is not 7. Replace gas regulator correct

	Continued	
OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
ODS/pilot lights but flame goes out when control knob	1. Control knob not fully pressed in	1. Press in control knob fully
is released	2. Control knob not pressed in long enough	2. After ODS/pilot lights, keep control knob pressed in 30 seconds
	3. Safety interlock system has been triggered	3. Wait one minute for safety interlock system to reset. Repeat ignition operation
	4. Equipment shutoff valve not fully open	4. Fully open equipment shut- off valve
	5. Pilot flame not touching thermocouple, which allows thermocouple to cool, caus-	<ol> <li>A) Contact local natural or propane/LP gas company</li> </ol>
	ing pilot flame to go out. This problem could be caused by one or both of the following: A) Low gas pressure B) Dirty or partially clogged ODS/pilot	B) Clean ODS/pilot (see <u>Cleaning and Maintenance</u> , page 29) or replace ODS/ pilot assembly
	6. Thermocouple connection loose at control valve	6. Hand tighten until snug, then tighten 1/4 turn more
	7. Thermocouple damaged 8. Control valve damaged	<ol> <li>7. Replace pilot assembly</li> <li>8. Replace control valve</li> </ol>
One or both burners do not light after ODS/pilot is lit	<ol> <li>Inlet gas pressure is too low</li> <li>Burner orifice(s) clogged</li> </ol>	<ol> <li>Contact local natural or propane/LP gas company</li> <li>Clean burner(s) (see <u>Cleaning and Maintenance</u>, page 29) or replace burner orifice(s)</li> </ol>
	3. Mislocated crossover tube	3. Contact qualified service person
Delayed ignition of one or both burners	<ol> <li>Manifold pressure is too low</li> <li>Burner orifice(s) clogged</li> </ol>	<ol> <li>Contact local natural or propane/LP gas company</li> <li>Clean burner(s) (see <u>Cleaning and Maintenance</u>,</li> </ol>
	3. Mislocated crossover tube	page 29) or replace burner orifice(s) 3. Contact qualified service person
Burner backfiring during combustion	1. Burner orifice is clogged or damaged	<ol> <li>Clean burner (see <u>Cleaning</u> <u>and Maintenance</u>, page 29) or replace burner orifice</li> </ol>
	<ol> <li>Damaged burner</li> <li>Gas regulator defective</li> </ol>	<ol> <li>Replace damaged burner</li> <li>Replace gas regulator</li> </ol>

Continued

	continueu	
OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Yellow flame in front burner during burner combustion	1. Not enough air	<ol> <li>Check burner(s) for dirt and debris. If found, clean burner(s) (see <u>Cleaning and</u> <u>Maintenance</u>, page 29)</li> </ol>
	2. Gas regulator defective	2. Replace gas regulator
Slight smoke or odor during initial operation	1. Residues from manufac- turing processes and logs curing	1. Problem will stop after a few hours of operation
Heater produces a whistling noise when burners are lit	<ol> <li>Turning control knob to HI position when burners are cold</li> <li>Air in gas line</li> </ol>	<ol> <li>Turn control knob to LO position and let warm up for a minute</li> <li>Operate burners until air is removed from line. Have gas line checked by local natural or propane/LP gas company</li> </ol>
	<ol> <li>Air passageways on heater blocked</li> <li>Dirty or partially clogged burner orifice(s)</li> </ol>	<ol> <li>Observe minimum installa- tion clearances (see pages 9 through 11)</li> <li>Clean burners (see <u>Clean- ing and Maintenance</u>, page 29) or replace burner orifice(s)</li> </ol>
White powder residue form- ing within burner box or on adjacent walls or furniture	1. When heated, vapors from furniture polish, wax, carpet cleaners, etc. may turn into white powder residue	<ol> <li>Turn heater off when us- ing furniture polish, wax, carpet cleaners or similar products</li> </ol>
Moisture/condensation no- ticed on windows	1. Not enough combustion/ ventilation air	1. Refer to <u>Air for Combustion</u> <u>and Ventilation</u> require- ments (page 6)
Heater produces a clicking/ ticking noise just after burners are lit or shut off	1. Metal expanding while heating or contracting while cooling	1. This is normal with most heaters. If noise is exces- sive, contact qualified ser- vice person

Continued

# A WARNING: If you smell gas

- Shut off gas supply.
- 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 your gas supplier, call the fire department.

*IMPORTANT*: Operating heater where impurities in air exist may create odors. Cleaning supplies, paint, paint remover, cigarette smoke, cements and glues, new carpet or textiles, etc., create fumes. These fumes may mix with combustion air and create odors. These odors will disappear over time.

REMEDY

#### OBSERVED PROBLEM POSSIBLE CAUSE

Heater produces unwanted odors	<ol> <li>Heater burning vapors from paint, hair spray, glues, cleaners, chemicals, new carpet, etc. (See <i>IMPOR-TANT</i> statement above)</li> <li>Low fuel supply (propane/ LP only)</li> <li>Gas leak. See Warning statement at top of page</li> </ol>	<ol> <li>Open window to ventilate room. Stop using odor causing products while heater is running</li> <li>Refill supply tank (propane/LP only)</li> <li>Locate and correct all leaks (see <u>Checking Gas Connections</u>, page 15)</li> </ol>
Heater shuts off in use (ODS operates)	<ol> <li>Not enough fresh air is available</li> <li>Low line pressure</li> <li>ODS/pilot is partially clogged</li> </ol>	<ol> <li>Open window and/or door for ventilation</li> <li>Contact local natural or propane/LP gas company</li> <li>Clean ODS/pilot (see <u>Cleaning and Maintenance</u>, page 29)</li> </ol>
Gas odor even when control knob is in OFF position	<ol> <li>Gas leak. See Warning statement at top of page</li> <li>Control valve or gas control defective</li> </ol>	<ol> <li>Locate and correct all leaks (see <u>Checking Gas Con- nections</u>, page 15)</li> <li>Replace control valve or gas control</li> </ol>
Gas odor during combustion	<ol> <li>Foreign matter between control valve and burner</li> <li>Gas leak. See Warning statement at top of page</li> </ol>	<ol> <li>Take apart gas tubing and remove foreign matter</li> <li>Locate and correct all leaks (see <u>Checking Gas Con-</u> <u>nections</u>, page 15)</li> </ol>
Log set cycles to pilot, but room temperature drops to a lower than ideal level before log set comes back on	1. Thermostat sensing bulb needs to be repositioned	<ol> <li>Reposition thermostat sensing bulb (see <u>Optional</u> <u>Positioning of Thermostat</u> <u>Sensing Bulb</u>, page 30)</li> </ol>

# SPECIFICATIONS

#### BGE18PT

- Rating (Variable): 19,000/29,000 Btu/Hr
- Type Gas: Propane/LP
- Ignition: Electronic
- Manifold Pressure: 7.9" W.C.
- Inlet Gas Pressure (in. of water): Max - 14" W.C., Min\* - 11" W.C.

#### BGE18NT

- Rating (Variable): 21,000/28,000 Btu/Hr
- Type Gas: Natural
- Ignition: Electronic
- Manifold Pressure: 3.4" W.C.
- Inlet Gas Pressure (in. of water): Max - 10.5" W.C., Min\* - 5" W.C.

#### BGE2436PT

- Rating (Variable): 23,000/39,000 Btu/Hr
- Type Gas: Propane/LP
- · Ignition: Electronic
- Manifold Pressure: 7.9" W.C.
- Inlet Gas Pressure (in. of water): Max - 14" W.C., Min\* - 11" W.C.

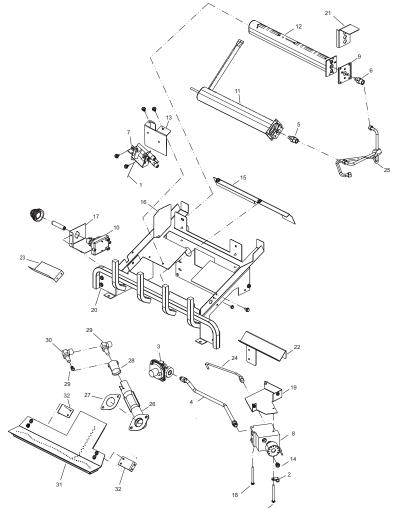
#### BGE2436NT

- Rating (Variable): 25,000/39,000 Btu/Hr
- Type Gas: Natural
- Ignition: Electronic
- Manifold Pressure: 3.4" W.C.
- Inlet Gas Pressure (in. of water): Max - 10.5" W.C., Min\* - 5" W.C.

\*For purpose of input adjustment

### PARTS

# THERMOSTATICALLY CONTROLLED MODELS BGE18NT, BGE18PT, BGE2436NT, BGE2436PT



	PARTS AVAILABLE NOT SHOWN						
KEY			-		-		1
NO.	PART NO.	DESCRIPTION	BGE18NT	BGE18PT	BGE2436NT	BGE2436PT	QTY.
	120466-01	Flex Tube	•	•	•	•	1
	100563-01	Warning Plate	•	•	•	•	1
	101054-01	Lighting Instruction Plate	•	•	•	•	1
	100639-12	Caution Decal	•	•	•	•	1
	101137-02	Hardware Kit	•	•	•	•	1
	GA6060	Lava Rock	•	•	•	•	1
	125557-01	Left Ember Chunk #1			•	•	1
	125557-02	Middle Ember Chunk #2			•	•	1
	125557-03	Right Ember Chunk #3			•	•	1
	125071-01	Rockwool Embers	•	•	•	•	1
	125070-01	Platinum Embers	•	•	•	•	1

18

126826-01A

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# PARTS

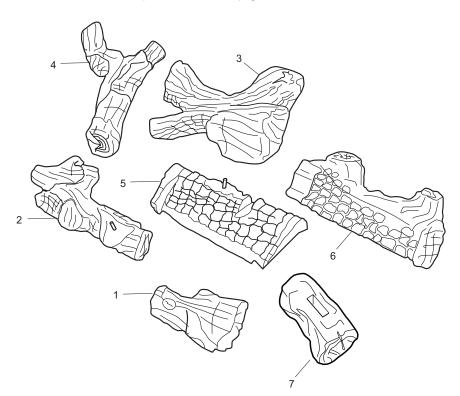
#### THERMOSTATICALLY CONTROLLED MODELS

This list contains replaceable parts used in your heater. When ordering parts, follow the instructions listed under <u>*Replacement Parts*</u> on page 45 of this manual.

NO.         PART NO.         DESCRIPTION         BGE18NT         BGE18PT         BGE2436NT         BG22436PT           1         098271-12         Cable Ignitor         • <td< th=""><th><b>QTY.</b> 1 1 1 1 1 1 1</th></td<>	<b>QTY.</b> 1 1 1 1 1 1 1
2         098544-01         Thermobulb Clip         •	1 1 1 1
3         098867-09 098867-10         Gas Regulator         •         •         •           4         125491-01         Inlet Tube         •         •         •           5         101004-06         Front Orifice, 0.0530         •         •         •           101004-04         Front Orifice, 0.0750         •         •         •	1 1 1 1
098867-10         Gas Regulator         •         •           4         125491-01         Inlet Tube         •         •           125491-02         Inlet Tube         •         •         •           5         101004-06         Front Orifice, 0.0530         •         •           101004-04         Front Orifice, 0.0750         •         •	1 1 1
125491-02         Inlet Tube         •           5         101004-06         Front Orifice, 0.0530         •         •           101004-22         Front Orifice, 0.0890         •         •           101004-04         Front Orifice, 0.0750         •         •	1
5 101004-06 Front Orifice, 0.0530 • • • 101004-22 Front Orifice, 0.0890 • 101004-04 Front Orifice, 0.0750 •	
101004-22         Front Orifice, 0.0890         •           101004-04         Front Orifice, 0.0750         •	
6 101004-09 Rear Orifice, 0.0400 •	1
101004-01 Rear Orifice, 0.0492 • 101004-14 Rear Orifice, 0.0720 •	1 1 1
101004-14 Rear Onlice, 0.0720	1
7 120630-02 Pilot, ODS LP • •	1
120630-05 Pilot, ODS NG • •	1
8 101329-20 Gas Valve Service Kit •	1
101329-30 Gas Valve Service Kit •	1
101329-31 Gas Valve Service Kit •	1
101329-26 Gas Valve Service Kit •	1
9 ** Plate, NG Conversion • •	1
10 111435-01 Electronic Ignitor • • •	1
11 112465-01 Front Ramp Burner • •	1
112465-02 Front Ramp Burner • •	1
12 113242-01 Rear Ramp Burner • • • 113242-02 Rear Ramp Burner • •	1
13 112713-01 Pilot Bracket •	1
112713-02 Pilot Bracket	1
14 ** Min. Rate Screw • • • •	1
15 125489-01 Air Deflector Bracket • •	1
125489-02 Air Deflector Bracket • •	1
16	
17 125019-01 Ignitor Bracket • • • •	1
18 099211-01 Screw, HWH AB 10-16 x 2.5 • • • •	1
19 125490-01 Manual Valve Bracket • • •	1
20 ** Assembly, Ramp Base • • •	1
21 121005-01 Air Shield •	1
22 125499-01 Log Support Bracket • •	1
23 120761-01 Log Support Bracket • •	1
24 099387-09 Pilot Tube • • • •	1
25 125491-01 Burner Tube • •	1
125491-02 Burner Tube • •	1
26         119321-01         Venturi         •	1
27         119795-01         Gasket         •	1
29 111819-10 Orifice Elbow	1
111819-10 Onice Elbow	1
099056-47 Orifice 0.0225	1
30 124933-01 Orifice Holder Elbow •	1
31 125306-01 Pan Burner • •	1
125306-02 Pan Burner • •	1
32 125301-01 Support Bracket • • •	2

#### LOG MODELS LBG18-SM, LBG24-SM, LBG30-SM

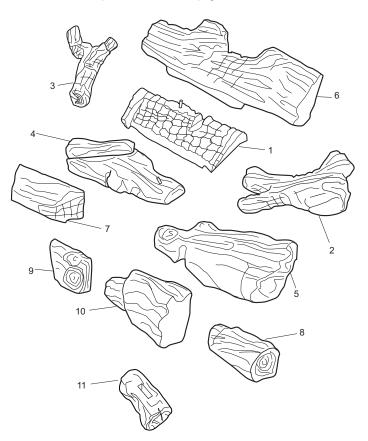
This list contains replaceable parts used in your heater. When ordering parts, follow the instructions listed under <u>Replacement Parts</u> on page 45 of this manual.



KEY	MODEL NUMBER				
NO.	LBG18-SM	LBG24-SM	LBG30-SM	DESCRIPTION	QTY
1	121699-05	121699-11	121699-17	Front Right Log	1
2	121699-04	121699-10	121699-16	Front Left Log	1
3	121699-02	125683-01	125683-01	Middle Right Log	1
4	121699-03	121699-09	121699-15	Middle Left Log	1
5	121699-01	121699-13	121699-13	Bottom Log (Remote)	1
6	121699-06	121699-12	121699-18	Rear Log	1
7	126080-01	126080-01	126080-01	Switch Log	1

#### LOG MODELS LBG36-SM

This list contains replaceable parts used in your heater. When ordering parts, follow the instructions listed under <u>Replacement Parts</u> on page 45 of this manual.

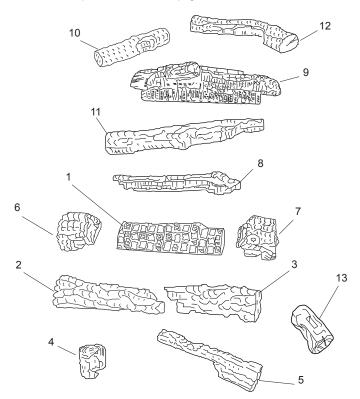


KEY NO.	MODEL NUMBER LBG36-SM	DESCRIPTION	QTY
1	121699-13	Bottom Log	1
2	125683-01	Middle Right Log	1
3	121699-15	Middle Left Log	1
4	121699-20	Front Left Log	1
5	121699-21	Front Right Log	1
6	121699-22	Back Log	1
7	121699-23	Left Small Front Log	1
8	121699-24	Right Small Front Log	1
9	121699-25	Left Control Cover Log	1
10	121699-26	Right Control Cover Log	1
11	126080-01	Switch Log	1

### PARTS

#### LOG MODELS LBG18-BM, LBG24-BM, LBG30-BM

This list contains replaceable parts used in your heater. When ordering parts, follow the instructions listed under <u>Replacement Parts</u> on page 45 of this manual.



# LOG MODELS LBG18-BM, LBG24-BM, LBG30-BM

Cross reference log numbers.

KEY No.	LBG18-BM	LOG ID No.	LBG24-BM	LOG ID No.	LBG30-BM	LOG ID No.	DESCRIPTION	QTY
1	125851-01	NONE	125852-01	NONE	125852-01	NONE	Log, Ramp	1
2	125851-02	D-064	125852-02	D-057	125853-01	D-038	Log, Left Front	1
3	125851-03	D-065	125852-03	D-058	125853-02	D-039	Log, Right Front	1
4	125851-04	D-073	125852-04	D-048	125852-04	D-048	Log, Left Front Ember Bed	1
5	125851-05	D-072	125852-05	D-047	125852-05	D-047	Log, Right Front Ember Bed	1
6	125851-06	D-066	125852-06	D-040	125852-06	D-040	Log, Left Middle	1
7	125851-07	D-067	125852-07	D-041	125852-07	D-041	Log, Right Middle	1
8	125851-08	D-068	125852-08	D-042	125852-08	D-042	Log, Rear Middle	1
9	125851-09	D-069	125852-09	D-043	125852-09	D-043	Log, Rear	1
10	125851-10	D-046	125851-10	D-046	125851-10	D-046	Log, Left Top	1
11	125851-11	D-070	125852-11	D-044	125852-11	D-044	Log, Middle Crossover	1
12	125851-12	D-071	125852-12	D-045	125852-12	D-045	Log, Top Rear	1
13	121079-01	NONE	121079-01	NONE	121079-01	NONE	Log, LBG-BM Switch	1

# **REPLACEMENT PARTS**

Note: Use only original replacement parts. This will protect your warranty coverage for parts replaced under warranty.

Contact authorized dealers of this product. If they can't supply original replacement part(s), call INNOVATIVE HEARTH PRODUCTS at 1-800-655-2008.

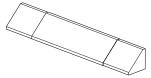
# SERVICE HINTS

#### When Gas Pressure Is Too Low

- · pilot will not stay lit
- · burners will have delayed ignition
- heater will not produce specified heat
- · propane/LP gas supply may be low

You may feel your gas pressure is too low. If so, contact your local propane/LP or natural gas supplier.

Purchase these heater accessories from your local dealer. If they can not supply these accessories, call INNOVATIVE HEARTH PRODUCTS at 1-800-655-2008 for referral information. You can also write to the address listed on the back page of this manual.



# FIREPLACE HOOD

#### Black - GA6050 Brushed Brass - GA6053

For all models. Helps deflect heat away from mantel or wall above fireplace. Fits openings 28" to 48" wide.

#### LAVA ROCK - GA6060

For all models. Order when additional rock is desired.

When calling, have ready

- your name
- · your address
- model and serial numbers of your heater
- · how heater was malfunctioning
- type of gas used (propane/LP or natural gas)
- · purchase date

Usually, we will ask you to return the part to the factory.

# **TECHNICAL SERVICE**

You may have further questions about installation, operation or troubleshooting. If so, contact INNOVATIVE HEARTH PRODUCTS at 1-800-655-2008. When calling please have your model and serial numbers of your heater ready.

You can also visit INNOVATIVE HEARTH PRODUCTS technical services web site at **www.IHP.US.com**.

# ACCESSORIES

#### VENT-FREE VCT AND VRT FIREBOXES

#### Available in 32", 36" and 42" models.

Flush face and Louver face models available with and without brick.

#### FLOOR MEDIA KIT - FM100

For all models. Includes lava rock, burner embers, and burner cinders

#### **CONTROL COVER KIT - CC100**

For all models. Includes control cover log and 6 unique fall-away logs.

# Innovative Hearth Products Superior™ Brand Gas Log Set Limited Three Year Warranty

#### THE WARRANTY

Innovative Hearth Products Limited Three Year Warranty ("IHP") warrants your Superior<sup>™</sup> brand Gas Log Set ("Product") to be free from defects in materials and workmanship at the time of manufacture. The logs and grate carry the Limited Three Year Warranty. After installation, if covered components manufactured by IHP are found to be defective in materials or workmanship during the Limited Three Year Warranty period and while the Product remains at the site of the original installation, IHP will, at its option, repair or replace the covered components. If repair or replacement is not commercially practical, IHP will, at its option, refund the purchase price or wholesale price of the IHP product, whichever is applicable. IHP will also pay IHP prevailing labor rates, as determined in its sole discretion, incurred in repairing or replacing such components. THERE ARE EXCLUSIONS AND LIMITATIONS to this Limited Three Year Warranty as described herein.

#### **COVERAGE COMMENCEMENT DATE**

Warranty coverage begins on the date of installation. In the case of new home construction, warranty coverage begins on the date of first occupancy of the dwelling or six months after the sale of the Product by an independent IHP dealer, whichever occurs earlier. The warranty shall commence no later than 24 months following the date of product shipment from IHP, regardless of the installation or occupancy date.

#### **EXCLUSIONS AND LIMITATIONS**

This Limited Three Year Warranty applies only if the Product is installed in the United States or Canada and only if operated and maintained in accordance with the printed instructions accompanying the Product and in compliance with all applicable installation and building codes and good trade practices.

This warranty is non-transferable and extends to the original owner only. The Product must be purchased through a listed supplier of IHP and proof of purchase must be provided. The following do not carry the Limited Three Year Warranty but are warranted as follows:

- Gas components Repair or replacement for one year from the date of installation. Remote control – Repair or replacement for one year from the date of installation.
- Labor coverage Prevailing IHP labor rates apply for the warranty period of the component.

#### Parts not otherwise listed carry a 90 day warranty from the date of installation.

#### Whenever practicable, IHP will provide replacement parts, if available, for a period of 10 years from the last date of manufacture of the product.

IHP will not be responsible for: (a) damages caused by normal wear and tear, accident, riot, fire, flood or acts of God; (b) damages caused by abuse, negligence, misuse, or unauthorized alteration or repair of the Product affecting its stability or performance (The Product must be subjected to normal use. The Product is designed to burn either natural or propane gas only. Burning conventional fuels such as wood, coal or any other solid fuel will cause damage to the Product, will produce excessive temperatures and could result in a fire hazard.); (c) damages caused by failing to provide proper maintenance and service in accordance with the instructions provided with the Product; (d) damages, repairs or inefficiency resulting from faulty installation or application of the Product.

This Limited Three Year Warranty covers only parts and labor as provided herein. In no case shall IHP be responsible for materials, components or construction which are not manufactured or supplied by IHP or for the labor necessary to install, repair or remove such materials, components or construction. Additional utility bills incurred due to any malfunction or defect in equipment are not covered by this warranty. All replacement or repair components will be shipped F.O.B. from the nearest stocking IHP factory.

#### LIMITATION ON LIABILITY

It is expressly agreed and understood that IHP's sole obligation and the purchaser's exclusive remedy under this warranty, under any other warranty, expressed or implied, or in contract, tort or otherwise, shall be limited to replacement, repair, or refund, as specified herein.

In no event shall IHP be liable for any incidental or consequential damages caused by defects in the Product, whether such damage occurs or is discovered before or after replacement or repair, and whether such damage is caused by IHP's negligence. IHP has not made and does not make any representation or warranty of fitness for a particular use or purpose, and there is no implied condition of fitness for a particular use or purpose.

IHP makes no expressed warranties except as stated in this Limited Three Year Warranty. The duration of any implied warranty is limited to the duration of this expressed warranty.

No one is authorized to change this Limited Three Year Warranty or to create for IHP any other obligation or liability in connection with the Product. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. The provisions of this Limited Three Year Warranty are in addition to and not a modification of or subtraction from any statutory warranties and other rights and remedies provided by law.

#### **INVESTIGATION OF CLAIMS AGAINST WARRANTY**

IHP reserves the right to investigate any and all claims against this Limited Three Year Warranty and to decide, in its sole discretion, upon the method of settlement.

To receive the benefits and advantages described in this Limited Three Year Warranty, the appliance must be installed and repaired by a licensed contractor approved by IHP.

Contact IHP at the address provided herein to obtain a listing of approved dealers/distributors. IHP shall in no event be responsible for any warranty work done by a contractor that is not approved without first obtaining LHP's prior written consent.

#### HOW TO REGISTER A CLAIM AGAINST WARRANTY

In order for any claim under this warranty to be valid, you must contact the IHP dealer/distributor from which you purchased the product. If you cannot locate the dealer/ distributor, then you must notify IHP in writing. IHP must be notified of the claimed defect in writing within 90 days of the date of failure. Notices should be directed to the IHP Warranty Department at 1508 EIm Hill Pike, Suite 108; Nashville, TN 37210 or visit our website at WWW.SUPERIORFIREPLACES.US.COM.

# WARRANTY

#### **KEEP THIS WARRANTY**

Model (located on product or identification tag)

Serial No. (located on product or identification tag)\_\_\_\_\_

Date Purchased

Keep receipt for warranty verification.

\_\_\_\_\_

# NOTES



# NOTES



# NOTES




1508 Elm Hill Pike, Suite 108 Nashville, TN 37210 1-800-655-2008 www.IHP.US.com



126826-01 Rev. A 01/14