



P/N 901336-00 Rev. C 08/2026



Installation and Operation Instructions

Unvented (Vent-Free) Gas Log Heaters

Models

NF18EN	NF18EP	NF24EN	NF24EP
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For use with log sets

LNF18GR	LNF18ST	LNF18ES	LNF18HB
LNF24GR	LNF24ST	LNF24ES	LNF24HB
LNF30GR	LNF30ST	LNF30ES	LNF30HB

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

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **WHAT TO DO IF YOU SMELL GAS**
 - Do not try to light any appliance.
 - Do not touch any electrical switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

TABLE OF CONTENTS

Safety	2	Technical Service	43
Product Identification	5	Accessories	44
Local Codes	5	Parts	45
Unpacking	5	Warranty	51
Product Features	6		
Air For Combustion and Ventilation	6		
Installation	8		
Operation	31		
Inspecting Burners and Pilot Flame Patterns	37		
Cleaning and Maintenance	38		
Wiring Diagram	40		
Specifications	40		
Troubleshooting	41		
Replacement Parts	43		
Service Hints	43		



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.

SAFETY

⚠ 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 **Air 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.

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.

Any safety screen, guard, or barrier removed for servicing an appliance must be replaced prior to operating the heater. The firescreen or guard designed for this unvented appliance must be installed prior to operation.

SAFETY

Continued

 **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.

Appliance base assembly becomes very hot when running appliance.

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 appliance with the fireplace screen and hood in place before running appliance. 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.

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: Do not place log scraps or volcanic stone on burner.**

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.

SAFETY

Continued

- 1. 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.**
2. 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, unless installed as a vented appliance. See *Installing Damper Clamp Accessory (Required For Vented Applications)*, **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. **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 flue for damage. If damaged, repair flue and firebox before operating appliance.
 6. Do not burn solid-fuel in a fireplace in which an unvented appliance is installed.
 7. If appliance has glass doors, never operate this appliance with glass doors closed. Any glass doors shall be fully opened when the appliance is in operation. If you operate appliance 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 *Cleaning and Maintenance*, **Page 38**.
 9. Before using furniture polish, wax, carpet cleaner or similar products, turn appliance 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 appliance needs fresh, outside air ventilation to run properly. This appliance has an Oxygen Depletion Sensing (ODS) safety shutoff system.

The ODS shuts down the appliance if enough fresh air is not available. See *Air for Combustion and Ventilation*, **Page 6**. If appliance keeps shutting off, see *Troubleshooting*, **Page 41**.
 11. Do not run appliance
 - where flammable liquids or vapors are used or stored
 - under dusty conditions
 12. Do not use this appliance to cook food or burn paper or other objects.
 13. Do not use this room heater if any part has been 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 appliance if any log is broken. Do not operate appliance if a log is chipped (dime-sized or larger).
 15. Turn appliance 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 appliance.
 16. Remote-ready appliances must not be connected to any external electrical source.
 17. Operating appliance above elevations of 4,500 feet may cause pilot outage.
 18. To prevent performance problems, do not use propane/LP fuel tank of less than 100 lb. capacity (propane/LP units only).
 19. Provide adequate clearances around air openings.
 20. When installing as a vented appliance in a manufactured home or mobile home, the installation must conform with the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280, or when applicable, with Manufacture Home Installations Standard, ANSI/NCBCS A225.1/NFPZ 501A.
 21. This log heater is designed to be smokeless. If logs ever appear to smoke, turn off heater and call a qualified service person.

NOTE: During initial operation, slight smoking could occur due to log curing and heater burning manufacturing residues.

PRODUCT IDENTIFICATION

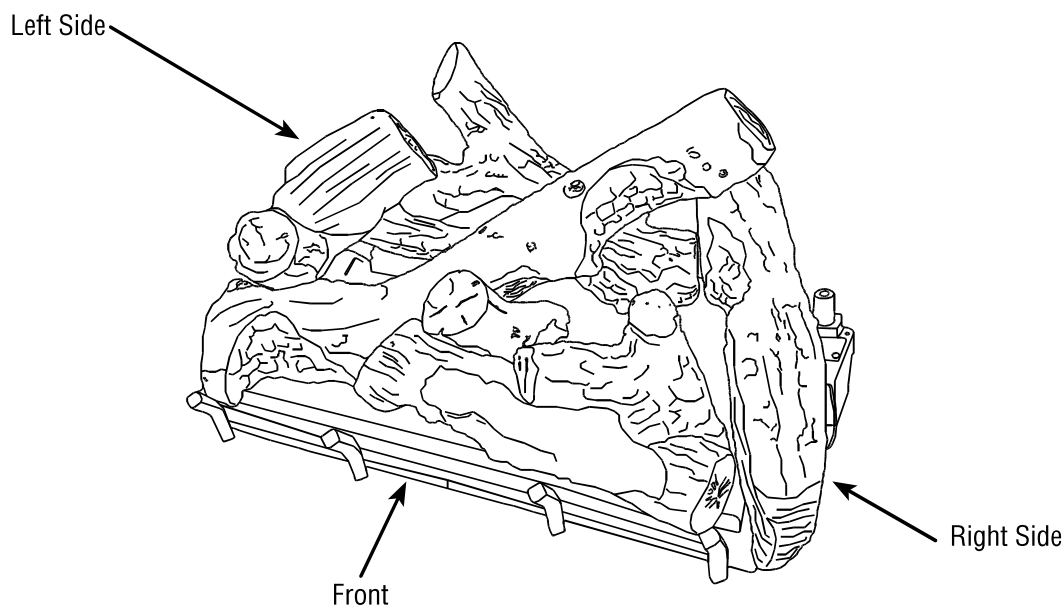


Figure 1 - Product Identification

LOCAL CODES

Install and use appliance with care. The installation must conform with local codes or in the absence of local codes, to the latest edition of The National Fuel Gas Code, ANSI Z223.1/NFPA54*.

*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.
3. 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 appliance 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 appliance is designed for vent-free operation with flue damper closed. It has been tested and approved to the ANSI Z21.11.2 standard for unvented appliances. State and local codes in some areas prohibit the use of vent-free appliances. This appliance may also be operated as a vented decorative (ANSI Z21.60) product by opening the flue damper. The thermostat function on the remote must be disabled when used in a vented configuration (see **Page 30**).

SAFETY DEVICE

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

ELECTRONIC IGNITION SYSTEM

This appliance has an electronic igniter to light appliance 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 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. 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. That will ensure 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 6-8** 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 (6×10^{-11} kg per pa-sec-m²) 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.

If your home meets all three criteria above, you must provide additional fresh air. See *Ventilation Air From Outdoors, Page 8*. If your home does not meet all three criteria above, proceed to *Determining Fresh-Air Flow For Heater Location, Page 7*.

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 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 m³ 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 m³ per kw) of

AIR FOR COMBUSTION AND VENTILATION

Continued

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.

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

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

_____ Btu/Hr (maximum the space 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 heater, 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.

⚠ 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.

AIR FOR COMBUSTION AND VENTILATION

Continued

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.

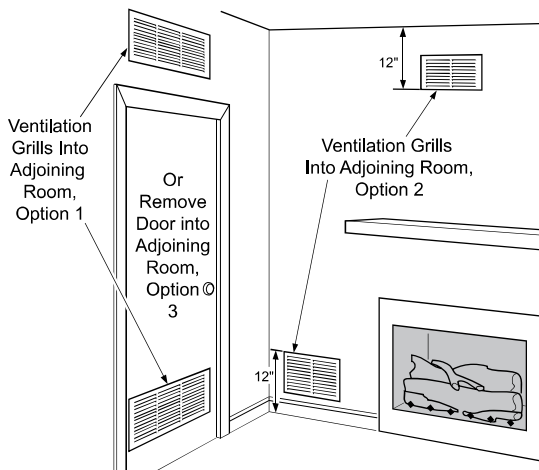


Figure 2 - Ventilation Air from Inside Building

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.

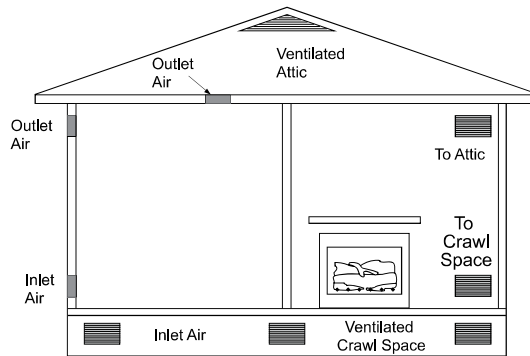


Figure 3 - Ventilation Air from Outdoors

INSTALLATION

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

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

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: 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 appliance.

INSTALLATION

Continued

WARNING: Never install the appliance

- 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 front, 42" from top of appliance; for side clearances see *Figure 4, Page 10*
- in high traffic areas
- in windy or drafty areas

CAUTION: This appliance 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.

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

IMPORTANT: Vent-free appliances add moisture to the air. Although this is beneficial, installing appliance in rooms without enough ventilation air may cause mildew to form from too much moisture. See *Air for Combustion and Ventilation, 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 the 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

Log Size	Minimum Firebox Size			
	Height	Depth	Front Width	Rear* Width
18"	17"	15"	26"	17"
24"	19"	15"	29"	22"
30"	19"	15"	33"	25"

Carefully follow the instructions below. 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, Page 10*.

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, Page 10*).

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

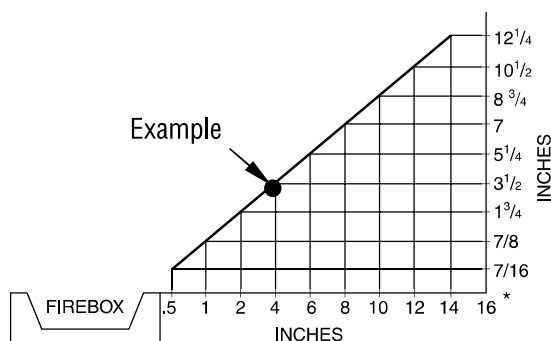
B. Clearances from the top of the fireplace opening to the ceiling should not be less than 42".

INSTALLATION

Continued

NOTICE: Manual control appliances may be used as a vented product. If so, you must always run appliance with chimney flue damper open. If running appliance with damper open, non-combustible material above fireplace opening is not needed. Go to Installing Damper Clamp Accessory (Required For Vented Applications), **Page 12**.

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



*Minimum 16" from Side Wall

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 these instructions.

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" and 30" Models Only). See **Figure 6, Page 11** for minimum clearances.

Noncombustible Material Distance (A)	Requirements for Safe Installation
12" or more	Noncombustible material OK.
Between 8" and 12"	24" or 30" Models: Install fireplace hood accessory (GA6050 - see <u>Accessories, Page 44</u>). 18" Model: Noncombustible material OK.
Less than 8"	Noncombustible material must be extended to at least 8". See <u>Between 8" and 12"</u> , above. If you cannot extend material, you must operate appliance with flue damper open.

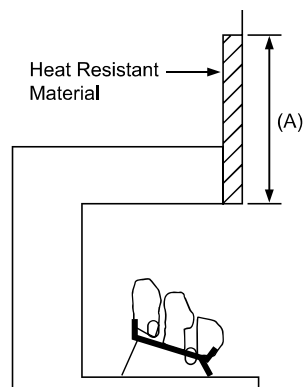


Figure 5 - Heat Resistant Material (Slate, Marble, Tile, etc.) Above Fireplace

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" and 30" 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, 6 and 7 on Pages 10 and 11**, for minimum clearances.

IMPORTANT: If you cannot meet these minimum clearances, you must operate appliance with chimney flue damper open. Go to Installing Damper Clamp Accessory (Required For Vented Applications), **Page 12**.

INSTALLATION

Continued

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**).

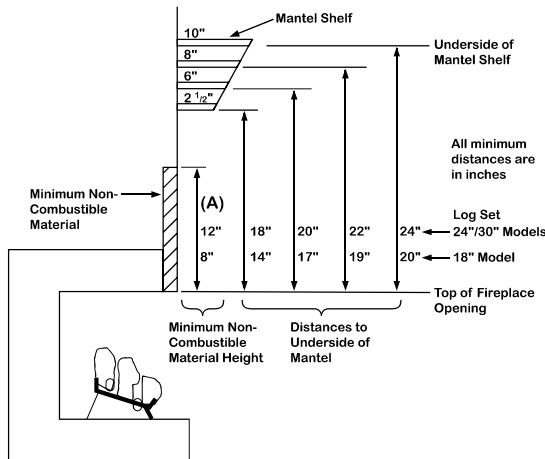


Figure 6 - Minimum Mantel Clearances Without Using Hood

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**, when using hood.

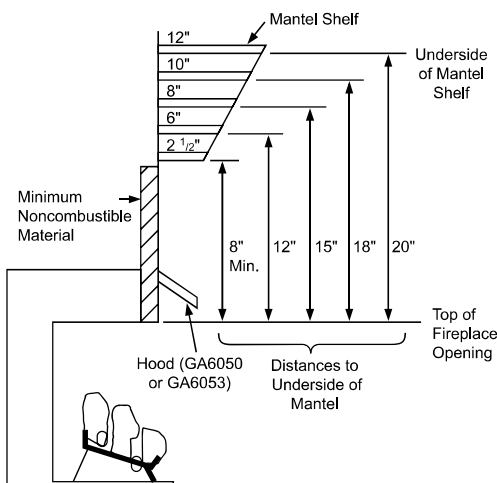


Figure 7 - Minimum Mantel Clearances When Using Hood

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

FLOOR CLEARANCES

- If installing appliance on the floor level, you must maintain the minimum distance of 14" to combustibles (see **Figure 8**).
- 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**).

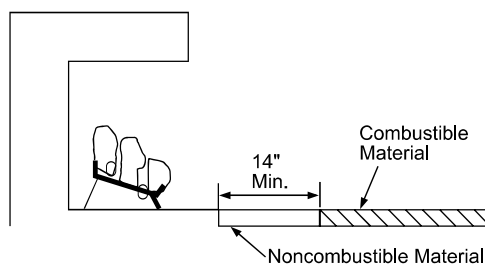


Figure 8 - Minimum Fireplace Clearances If Installed at Floor Level

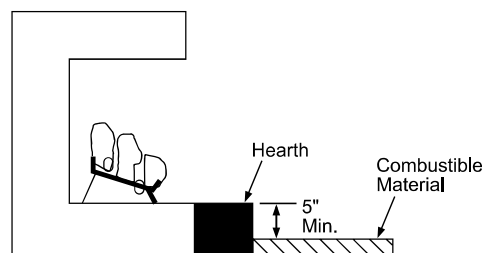


Figure 9 - Minimum Fireplace Clearances Above Combustible Flooring

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

INSTALLATION

Continued

INSTALLING DAMPER CLAMP ACCESSORY (REQUIRED FOR VENTED APPLICATIONS)

NOTE: When used as a vented appliance, it 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 appliance is a manually-controlled model, you may use this appliance as a vented product. There are three reasons for operating your appliance in the vented mode.

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

If reasons number 1 or 2 above apply to you, you must permanently open chimney flue damper. You must install the damper clamp accessory (to order, see [Accessories](#), Page 44). 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

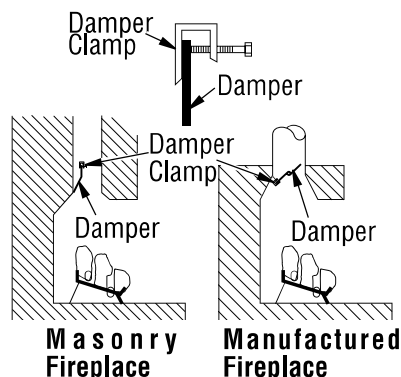


Figure 10 - Attaching Damper Clamp

INSTALLING APPLIANCE 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 or log misplacement.

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.

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

Installation Items Needed

- hardware package (provided with appliance)
 - approved flexible gas hose and fittings (provided with appliance) (if allowed by local codes)
 - sealant (resistant to propane/LP gas, not provided)
 - electric drill with 3/16" masonry drill bit
1. Apply pipe joint sealant lightly to male threads of the 3/8 NPT side of gas fitting (provided) and connect to inlet side of gas control. Remove gas fitting from flexible gas hose (provided) before connecting to gas fitting (see **Figure 11, Page 13**).
 2. Position appliance base assembly in fireplace.

INSTALLATION

Continued

3. 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 appliance base from fireplace.
5. Drill holes at marked locations using 3/16" drill bit.
6. Attach base, through holes in back side panels of base, to fireplace floor using masonry screws provided in hardware package (see **Figure 12**).
7. Connect to gas supply. See Connecting To Gas Supply.

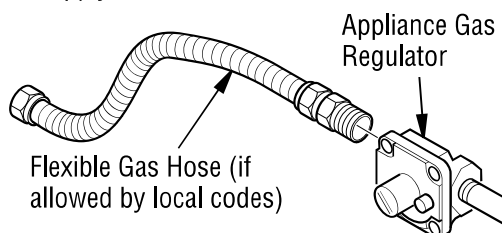


Figure 11 - Attaching Flexible Gas Hose to Appliance Gas Regulator

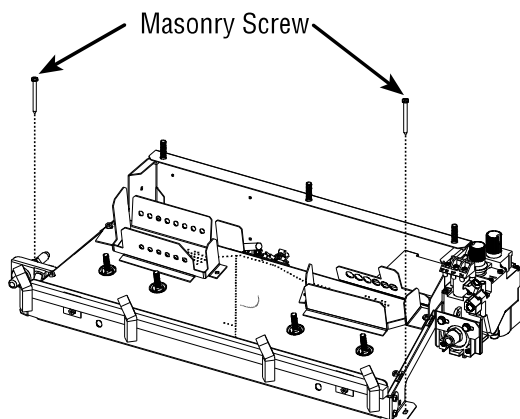


Figure 12 - Attaching Base to Fireplace Floor
CONNECTING TO GAS SUPPLY

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

⚠ WARNING: A qualified service person must connect appliance 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 this appliance to private (non-utility) gas wells. This gas is commonly known as wellhead gas and does not have odorants and may have impurities, and variations in BTU content. The use of well-head gas will void the manufacturer's warranty to this appliance.

Installation Items Needed

Before installing appliance, 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.

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, appliance regulator damage could occur. Install external regulator with the vent pointing down as shown in **Figure 13, Page 14**. Pointing the vent down protects it from freezing rain or sleet.

INSTALLATION

Continued

⚠ 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 appliance (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 appliances.

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 appliance valves.

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

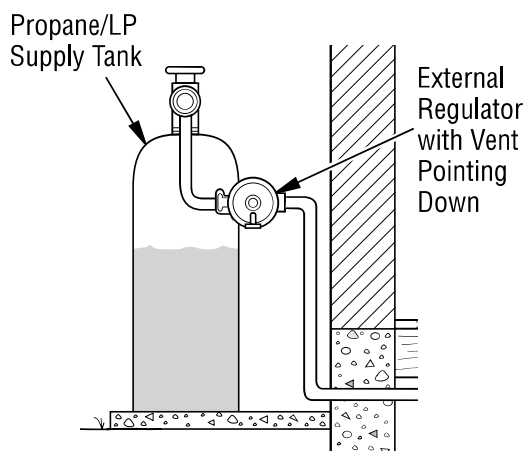


Figure 13 - External Regulator With Vent Pointing Down

PROPANE/LP From External Regulator (11" W.C.** to 14" W.C. Pressure)

NATURAL From Gas Meter (5" W.C.** to 10.5" W.C. Pressure)

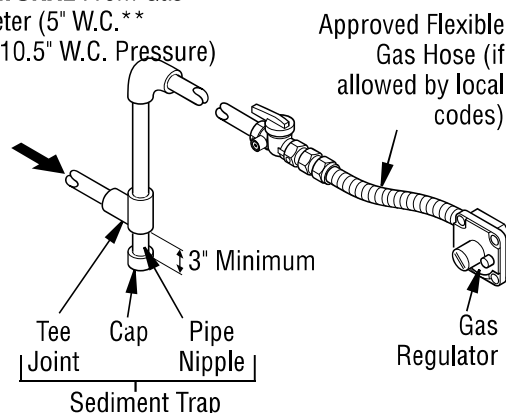


Figure 14 - Gas Connection

**Minimum inlet pressure for purpose of input adjustment.

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

⚠ 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.

INSTALLATION

Continued

⚠ CAUTION: Make sure external regulator has been installed between propane/LP supply and appliance. See guidelines under *Connecting to Gas Supply, Page 13*.

PRESSURE TESTING GAS SUPPLY PIPING SYSTEM

The appliance and its appliance main gas valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures **in excess of** 1/2 psi (3.5 kPa).

The appliance must be isolated from the gas supply piping system by closing its equipment shutoff valve during any pressure testing of the gas supply piping system at test pressures **equal to or less than** 1/2 psi (3.5 kPa).

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

1. 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 will damage appliance regulator.
2. Cap off open end of gas pipe where equipment shutoff valve was connected.
3. 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.
4. 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.
6. Reconnect appliance 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*).
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.

3. 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 *Figures 16 or 17*). Apply noncorrosive leak detection fluid to all joints. Bubbles forming show a leak.
4. Correct all leaks at once.

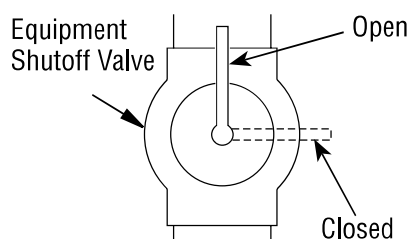


Figure 15 - Equipment Shutoff Valve

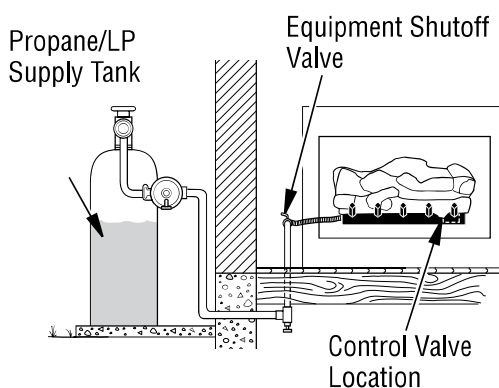


Figure 16 - Checking Gas Joints (Propane/LP Only)

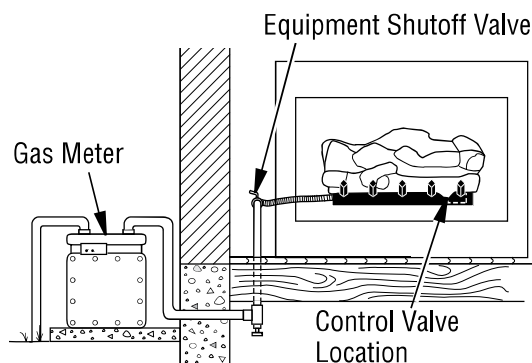


Figure 17 - Checking Gas Joints (Natural Gas Only)

INSTALLATION

Continued

POWER SUPPLY AND BATTERY INSTALLATION

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. The control module is located on the back of the burner assembly (see **Figure 18**). 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 "BATT" which is molded in the control module's black housing (see **Figure 18**). Be certain to push the plug fully into the receptacle. Install batteries in the battery power supply and hand held remote control. Place the battery box so it is located away from the burner as much as possible towards the back left side of the fireplace floor.



Connect Battery Plug Here

Figure 18 - Control Module

INSTALLATION

Continued

INSTALLING LOGS, EMBERS AND VOLCANIC STONE

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

⚠ WARNING: After installation and periodically thereafter, check to ensure that no flame comes in contact with any log. With the heater set to High, check to see if flame contact any log. If so, reposition logs according to the log installation instructions in this manual. Flames contacting logs will create soot.

NF Series Burner System - Log Compatibility Chart		
Burner System Models	Concrete Log Models	HI Def - Ceramic Log Models
NF18EN NF18EP	LNF18GR LNF18ES LNF18HB	LNF18ST
NF24EN NF24EP	LNF24GR LNF24ES LNF24HB LNF30GR LNF30ES LNF30HB	LNF24ST LNF30ST

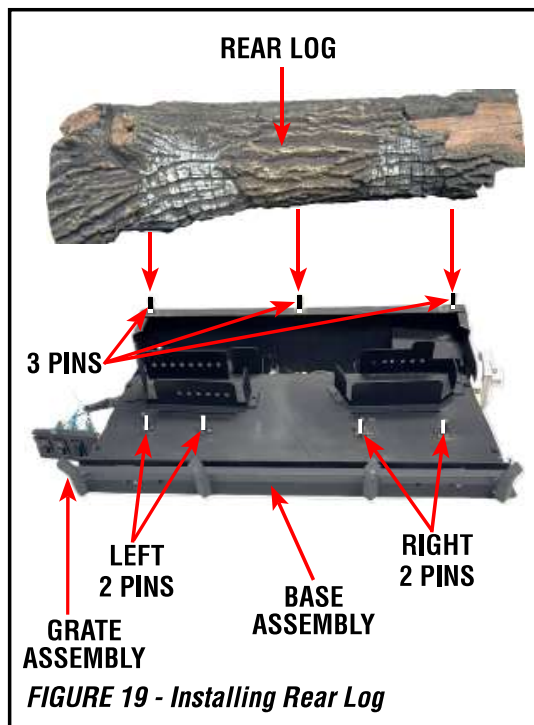
Figure 18A- NF Series Burner System - Log Compatibility Chart

LNF18GR, LNF24GR, AND LNF30GR LOG PLACEMENT

It is very important to install the logs exactly as instructed. Do not modify logs. Only use logs supplied with appliance or as identified for use with the appliance as shown.

1. Remove the entire Log Set provided and check for damage. If damaged, **STOP!!!** Contact dealer or IHP.
2. If you currently have a log set installed: Remove the entire Log Set that is currently installed on your Gas Log Burner and discard entire set.
3. Follow the steps found beginning on this page for installation of your new complete Log Set.

1. Place the **REAR LOG** on the base assembly as shown in **Figure 19** and **Figure 20**. The log has three holes on its bottom. Position the log on the three pins as shown. Make sure the log sits over the pins and the bottom of the log rests on the black painted metal shelf.



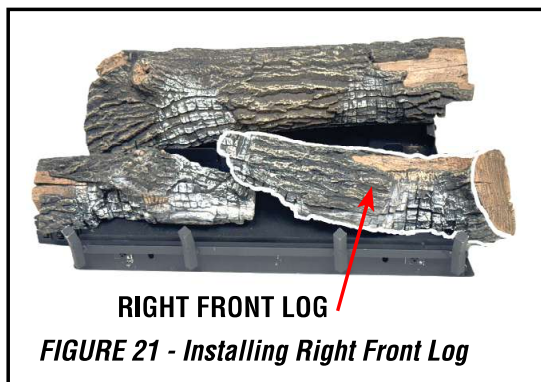
2. Place the **LEFT FRONT LOG** on the left two pins as shown in **Figure 19** and **Figure 20**. Make sure the bottom of the log rests on the black painted burner.



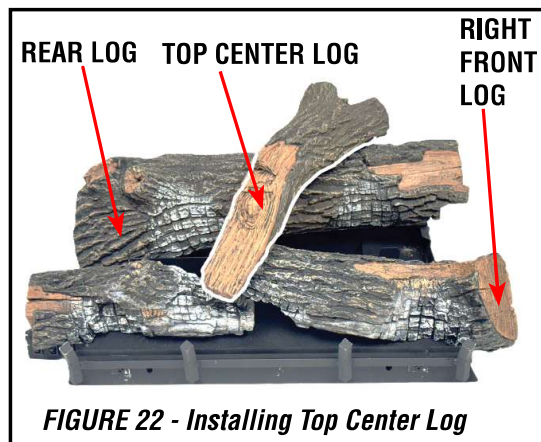
INSTALLATION

Continued

3. Place the **RIGHT FRONT LOG** on the right two pins as shown in **Figure 19 and Figure 21**. Make sure the bottom of the log rests on the black painted burner.



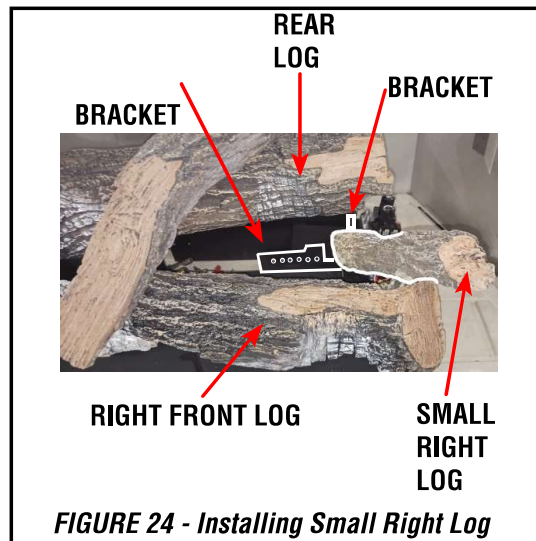
4. Place the **TOP CENTER LOG** on the **REAR LOG** and **RIGHT FRONT LOG** as shown in **Figure 22**. The **TOP CENTER LOG** has a projection on the bottom that matches a notch in the top of the **REAR LOG**.



5. Place the **TOP LEFT LOG** on the **REAR LOG** and **LEFT FRONT LOG** as shown in **Figure 23**. The **TOP LEFT LOG** has a projection on the bottom that matches a notch in the top of the **REAR LOG**.



6. Place the **SMALL RIGHT LOG** under the **REAR LOG**. Place the pointed end of the **SMALL RIGHT LOG** between the two brackets and the round projection into the hole on the **RIGHT FRONT LOG** as shown in **Figure 24**.



After setting the logs into position as described above, ensure each is properly and firmly seated. The vent-free gas log set will not function as intended if the logs are not correctly positioned. When placed properly, the yellow flames will not strike any portion of the logs. Periodically check the positioning of all logs to ensure proper log placement and stability. If any yellow flame is striking the logs, recheck log placement. Adjust to conform with instructions. There should be no flame impingement on the logs.

EMBER PLACEMENT

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

INSTALLATION

Continued

⚠ WARNING: ALL PREVIOUSLY APPLIED LOOSE MATERIAL MUST BE REMOVED PRIOR TO REAPPLICATION.

⚠ WARNING: Do not operate unit without ember material correctly in place as shown in Figures 26 and 27. 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 Parts Section in Owners Manual for part numbers.

1. Do not place embers behind the two outside groups of ports on each end of the front row of ports. Do not place any embers behind the two front logs.

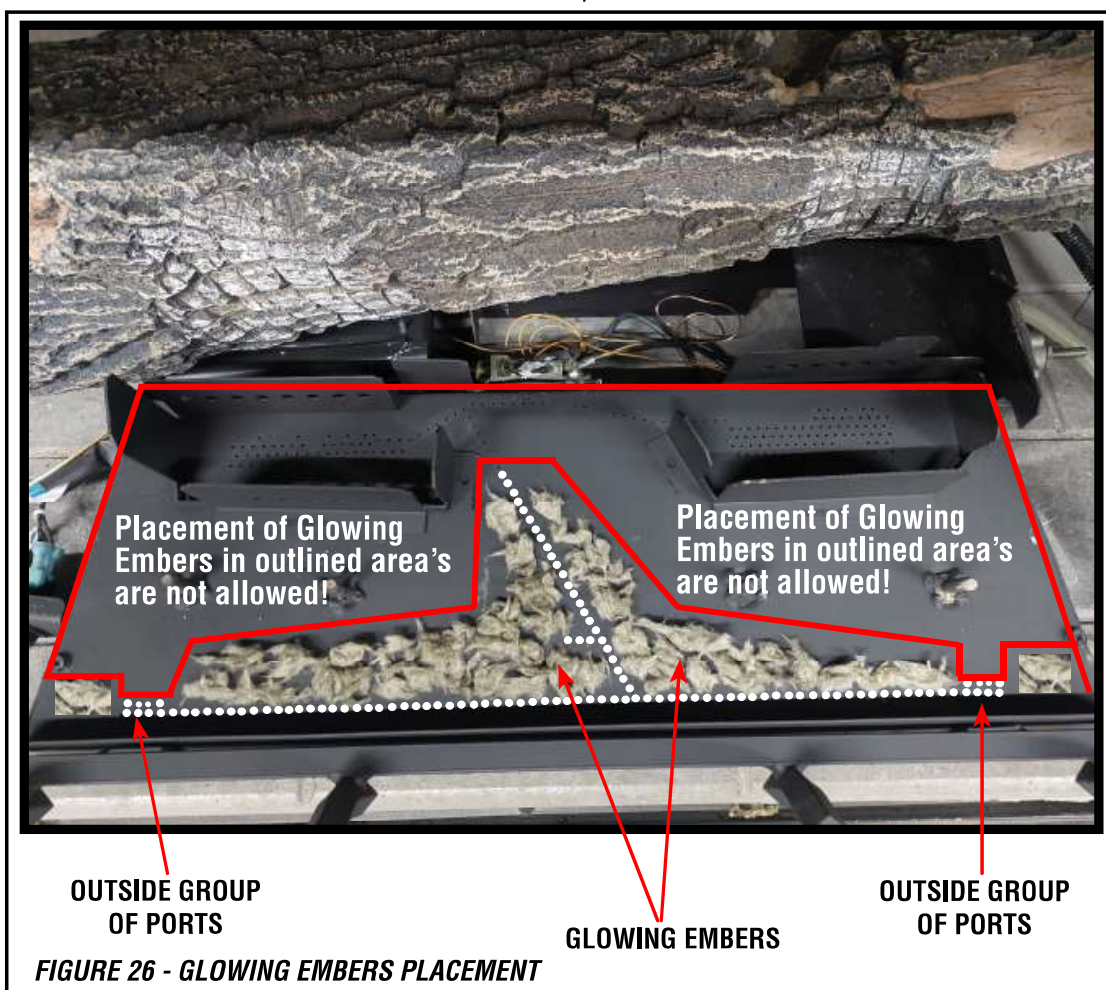
Glowing Embers Placement:

Remove Glowing Embers and shape into 1/2-inch to 1-inch sized thin, flat pieces. Place Glowing Embers material behind the front row of ports and on the left and right of the diagonal ports as shown in **Figure 26**. Please reference **Figure 26** to ensure that the Glowing Embers material is not placed in outlined areas. Placement in these areas is not allowed!

Platinum Bright Ember Placement:

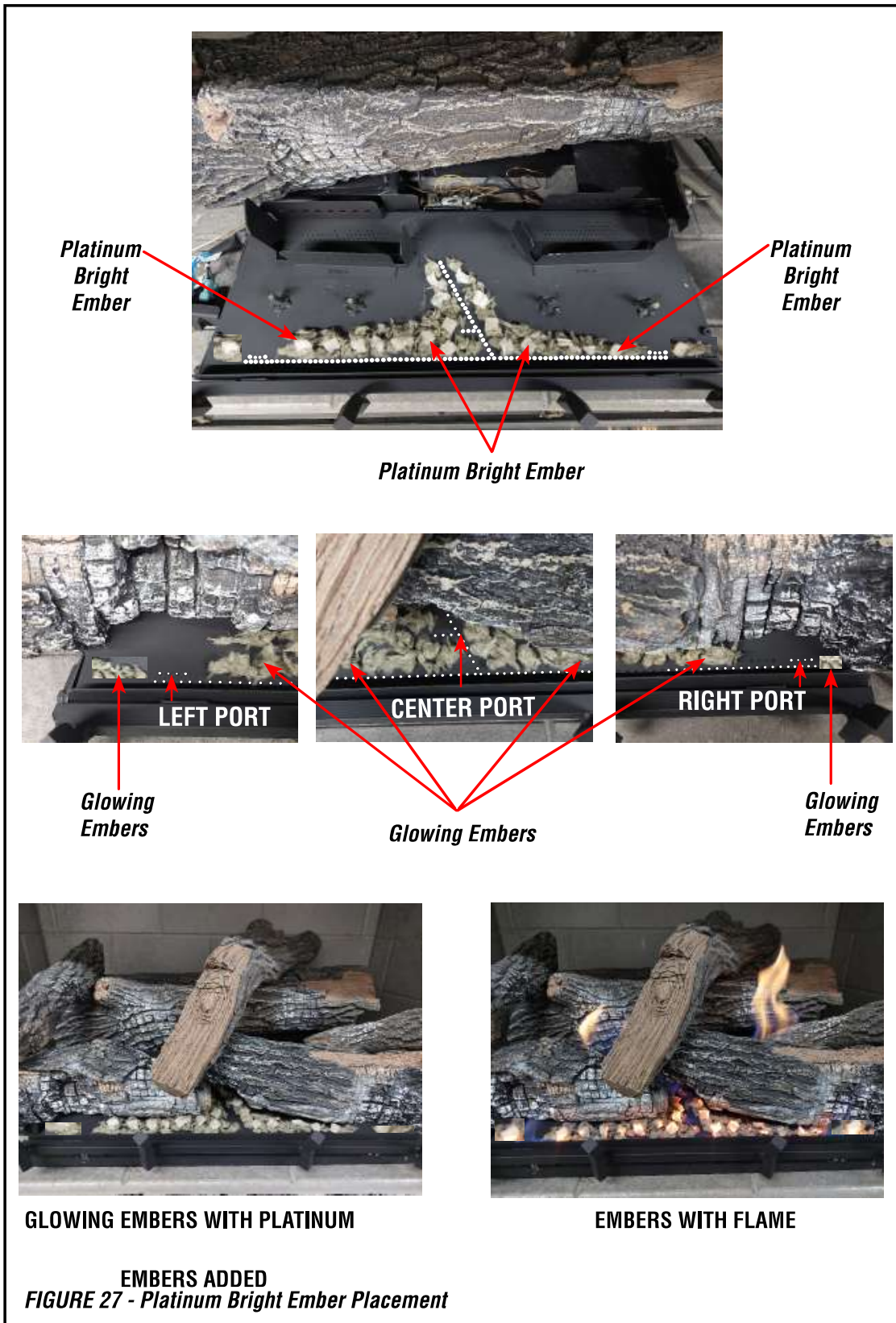
Gently remove Platinum Bright Embers from bag. Separate and place pieces of Platinum Bright Embers behind the front row of ports around the center port and on the left and right of the diagonal ports as shown in **Figure 27** on **Page 20**.

2. Add volcanic stone and small decorative logs around base of heater if desired. **DO NOT** place rock or additional logs anywhere on the burner or on logs. Placing any material on unit other than ember material on the burner may result in production of carbon monoxide or soot.



INSTALLATION

Continued



INSTALLATION

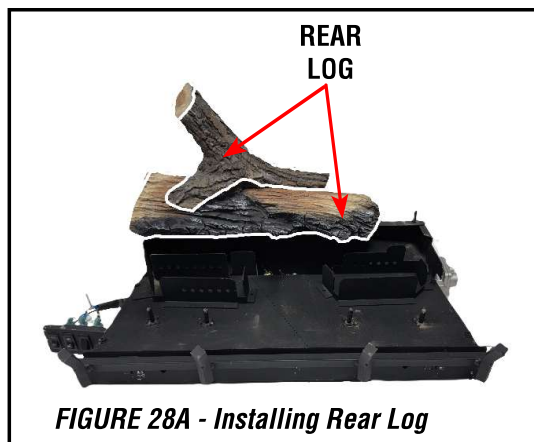
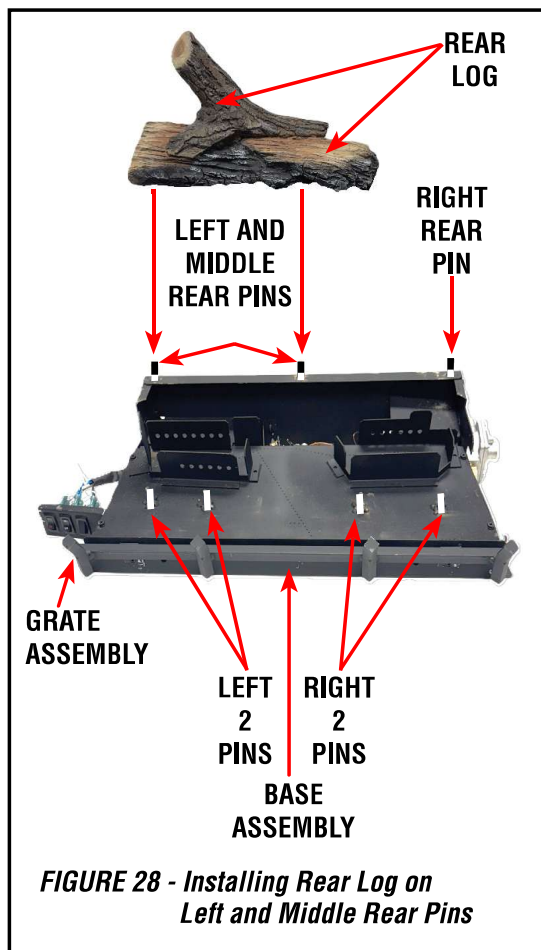
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LNF18ST, LNF24ST, LNF30ST LOG PLACEMENT

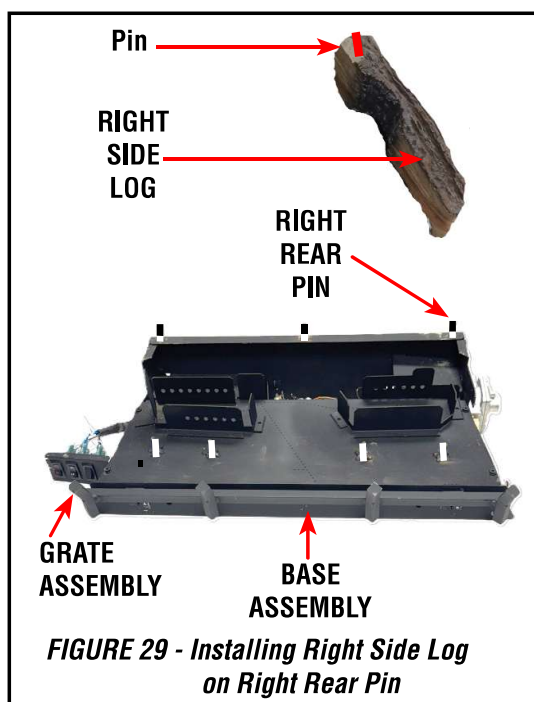
It is very important to install the logs exactly as instructed. Do not modify logs. Only use logs supplied with appliance or as identified for use with the appliance as shown.

1. Remove the entire Log Set provided and check for damage. If damaged, STOP!!! Contact dealer or IHP.
2. If you currently have a log set installed: Remove the entire Log Set that is currently installed on your Gas Log Burner and discard entire set.
3. Follow the steps found beginning on this page for installation of your new complete Log Set.

1. Place the **REAR LOG** on the base assembly as shown in **Figure 28 and Figure 28A**. The log has two holes on its bottom. Position the log on the left and middle pin as shown. Make sure the log sits over the pins and the bottom of the log rests on the black painted metal shelf.



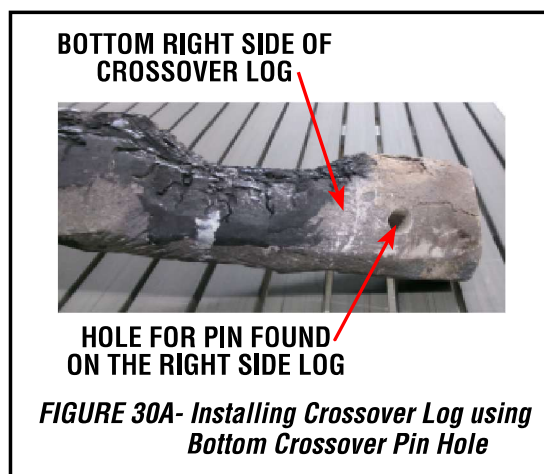
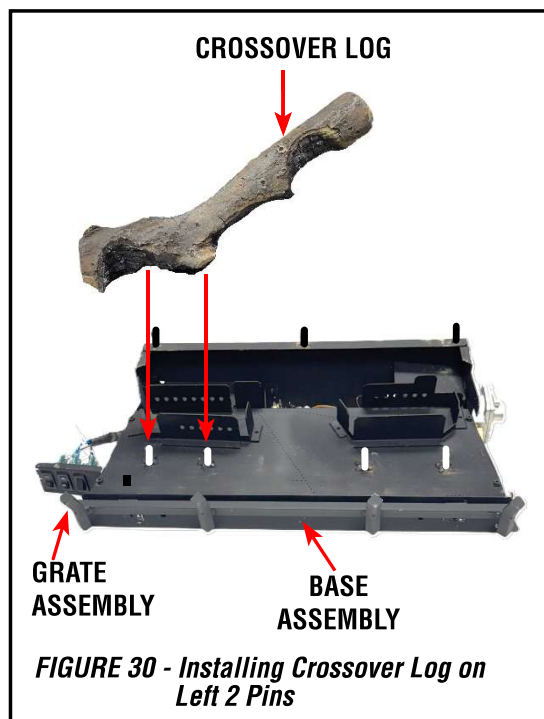
2. Place the **RIGHT SIDE LOG** on the base assembly as shown in **Figure 29 and Figure 29A**. The log has one hole on its bottom. Position the log on the right rear pin as shown. Make sure the log sits over the pin and against the side of the burner as shown.



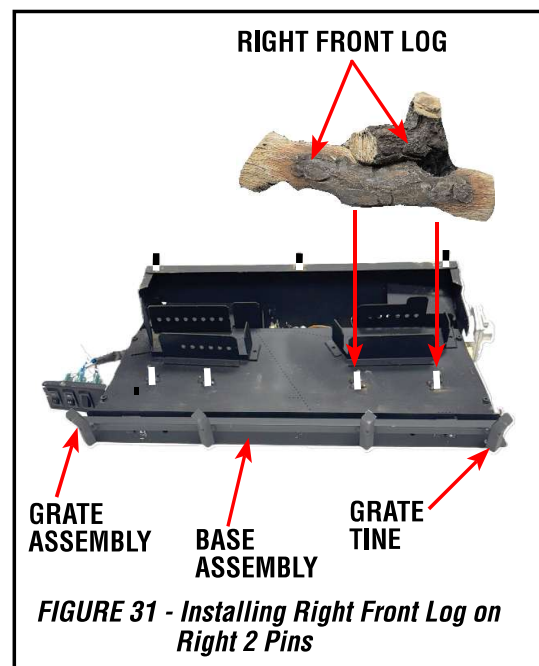
INSTALLATION

Continued

3. Place the **CROSSOVER LOG** on the base assembly as shown in **Figure 30 and Figure 30B**. All sizes of this log have two holes on its bottom left side. Position the log on the left 2 pins as shown. Make sure the log sits over the pins and the bottom of the log rests on the black painted metal shelf. All sizes of this log also have one hole on the right end side as shown in **Figure 30A** which fits over the pin on the **RIGHT SIDE LOG** (See **Figure 29** and **Figure 29A** on **Page 21** for clarity).

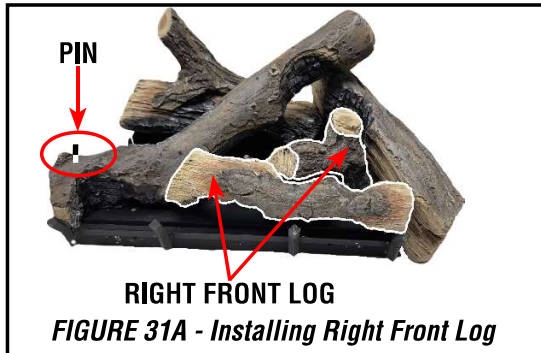


4. Place the **RIGHT FRONT LOG** on the base assembly as shown in **Figure 31** on **Page 22** and **Figure 31A** on **Page 23**. The log has two holes on its bottom. Position the log on the right 2 pins as shown. Make sure the log sits over the pins and the bottom of the log rests on the black painted metal shelf. The front of the log rests against the grate tine.



INSTALLATION

Continued



5.

18" and 24" SIZE LOGS:

Place the **LEFT SIDE LOG** on the base assembly as shown in **Figures 32A, 32B and 32C**.

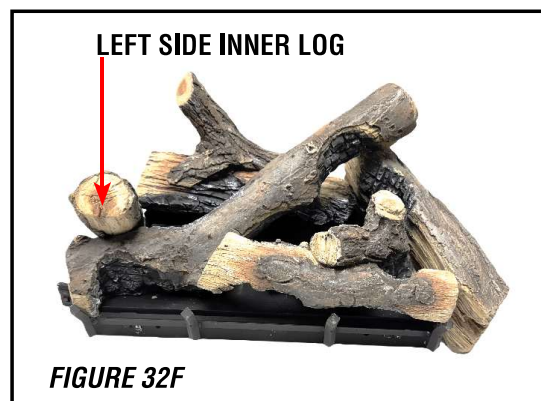
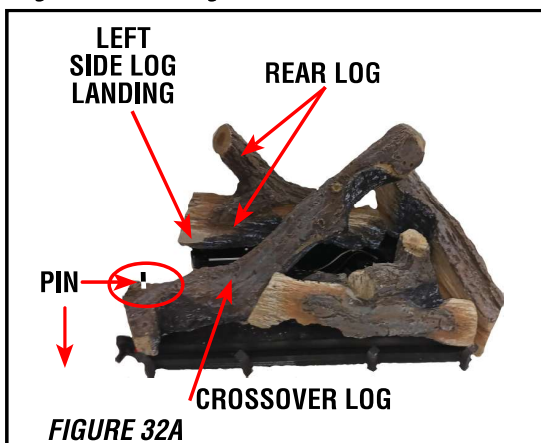
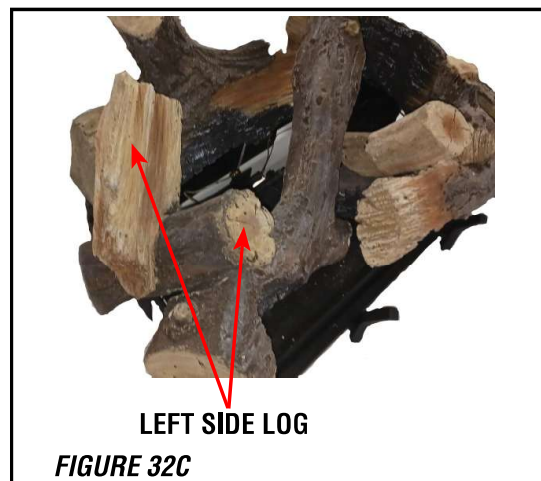
The split log end of the **LEFT SIDE LOG** faces forward with the bottom of the split log end sitting over the pin on the left side of the **CROSSOVER LOG**. The split rear section of the **LEFT SIDE LOG** rests against the **LEFT REAR LOG**. The bottom of the **LEFT SIDE LOG** has no bark detail and sits on the floor.

30" SIZE LOGS:

The 30" log set has two (2) logs to be placed on the left side. The **LEFT SIDE INNER LOG** is 13 inches long with dark bark detail and a split end as shown in **Figure 32D**. The **LEFT SIDE OUTER LOG** is 14 inches long, slightly larger in diameter, and is all split finish with no bark detail. See **Figure 32E**.

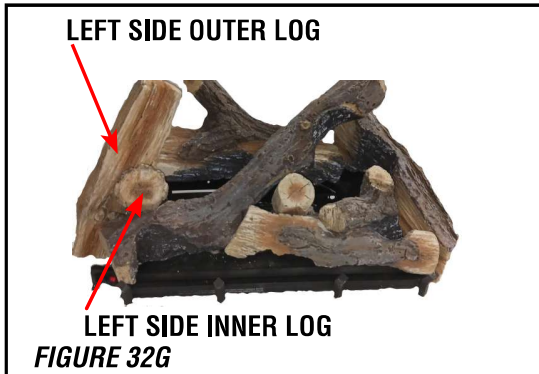
Place the **LEFT SIDE INNER LOG** on the base as shown in **Figure 32F**. The split log end of the **LEFT SIDE INNER LOG** faces forward with the bottom of the split log end sitting over the pin on the left side of the **CROSSOVER LOG**. The bottom of the **LEFT SIDE LOG** is the small wedge shaped end and sits on the floor.

Place the **LEFT SIDE OUTER LOG** on the base. The split face of the **LEFT SIDE OUTER LOG** faces forward and the small overhang on the log rests against the **LEFT SIDE INNER LOG**. See **Figure 32G** on **Page 24**.



INSTALLATION

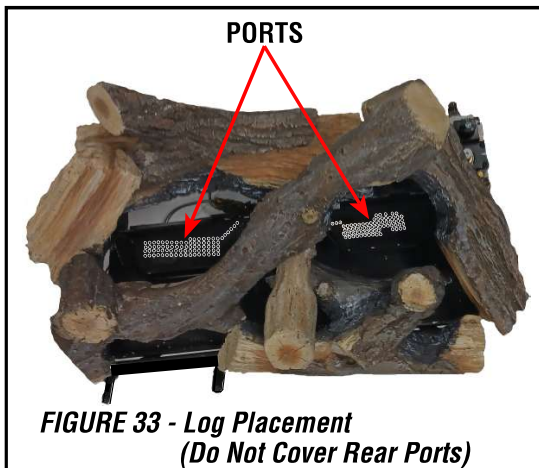
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After setting the logs into position as described above, ensure each is properly and firmly seated. The vent-free gas log set will not function as intended if the logs are not correctly positioned. When placed properly, the yellow flames will not strike any portion of the logs.

⚠ WARNING: DO NOT PLACE ANY LOG OVER THE TWO REAR GROUPS OF PORTS. SEE FIGURE 33.

Periodically check the positioning of all logs to ensure proper log placement and stability. If any yellow flame is striking the logs, recheck log placement. Adjust to conform with instructions. There should be no flame impingement on the logs.



EMBER PLACEMENT

⚠ 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.

⚠ WARNING: Do not operate unit without ember material correctly in place as shown in Figures 36 and 37. 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 Parts Section in Owners Manual for part numbers.

1. Do not place embers behind the two outside groups of ports on each end of the front row of ports. Do not place any embers behind the two front logs.

Glowing Embers Placement:

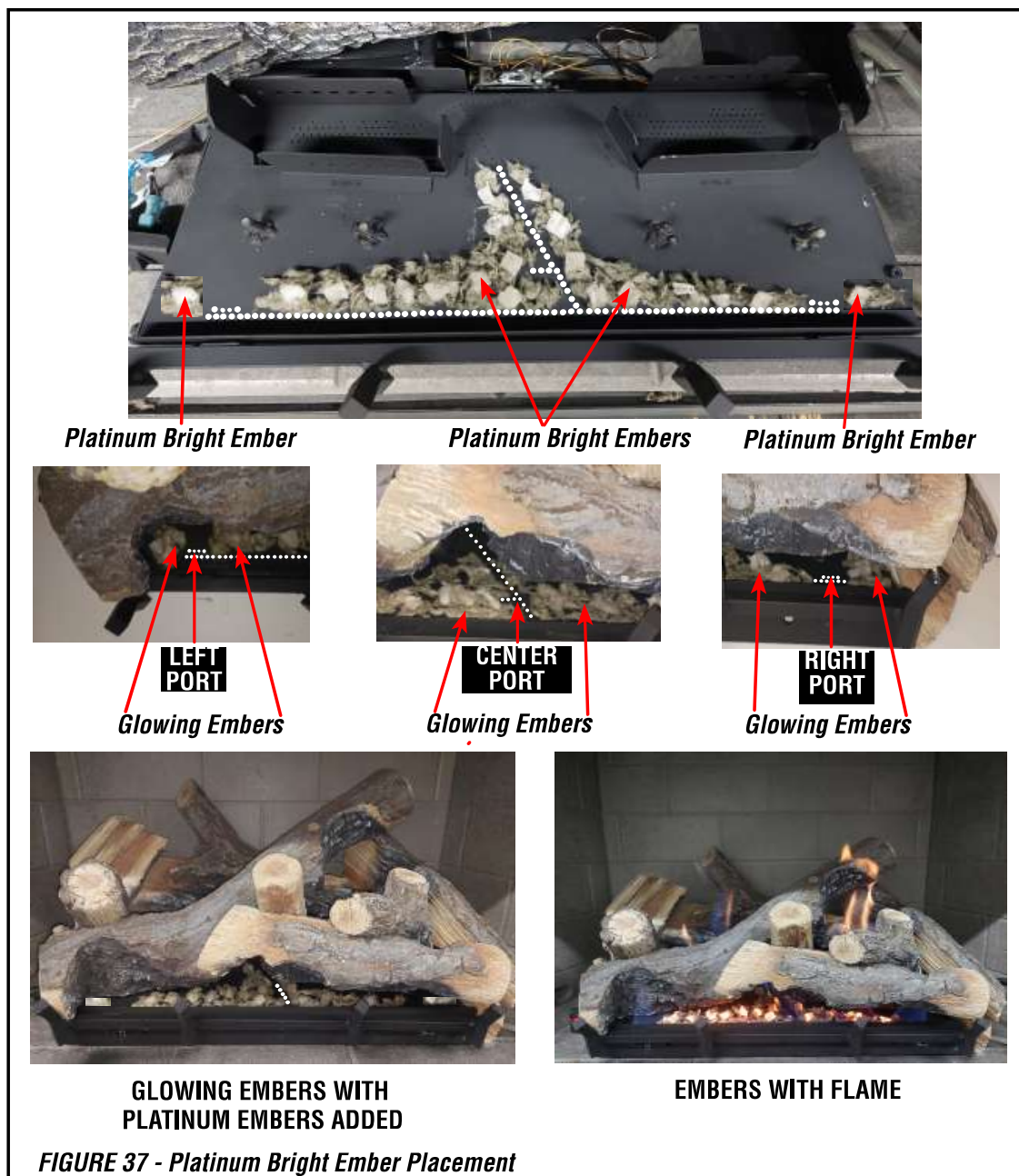
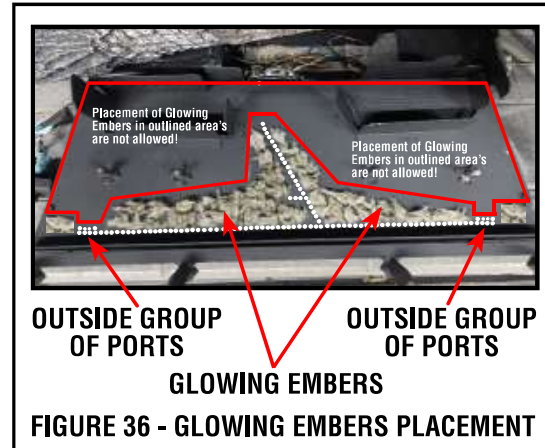
Remove Glowing Embers and shape into 1/2-inch to 1-inch sized thin, flat pieces. Place Glowing Embers material **behind** the front row of ports and on the left and right of the diagonal ports as shown in **Figure 36** on **Page 25**. Please reference **Figure 37** on **Page 25** to ensure that the Glowing Embers material is not placed in outlined areas. Placement in these areas is not allowed!

INSTALLATION

Continued

Platinum Bright Ember Placement:

Gently remove Platinum Bright Embers from bag. Separate and place pieces of Platinum Bright Embers **behind** the front row of ports around the center port and on the left and right of the diagonal. Add volcanic stone and small decorative logs around base of heater if desired. **DO NOT** place rock or additional logs anywhere on the burner or on logs. Placing any material on unit other than ember material on the burner may result in production of carbon monoxide or soot. nal ports as shown in **Figure 37** on **Page 25**.



INSTALLATION

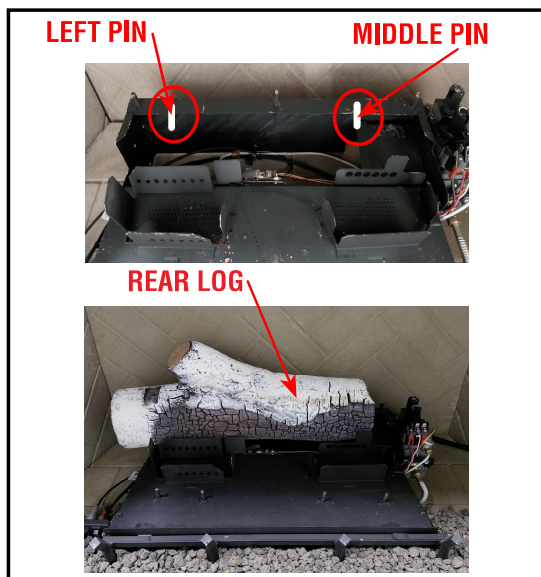
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LNF18HB, LNF24HB, LNF30HB LOG PLACEMENT

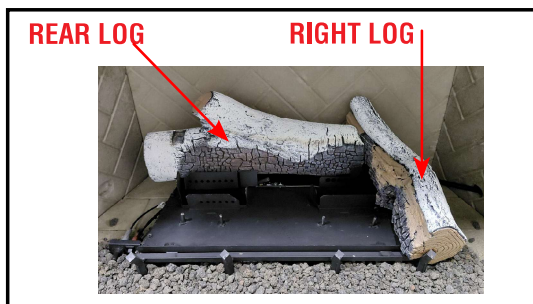
It is very important to install the logs exactly as instructed. Do not modify logs. Only use logs supplied with appliance or as identified for use with the appliance as shown.

1. Remove the entire Log Set provided and check for damage. If damaged, STOP!!! Contact dealer or IHP.
2. If you currently have a log set installed: Remove the entire Log Set that is currently installed on your Gas Log Burner and discard entire set.
3. Follow the steps found beginning on this page for installation of your new complete Log Set.

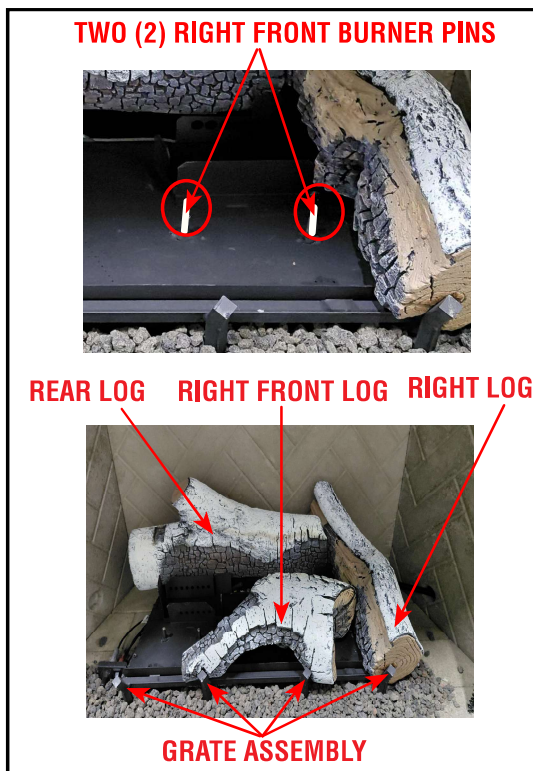
1. Place the Rear Log over the left and middle pins on the burners back bracket using the holes provided in the bottom of the log.



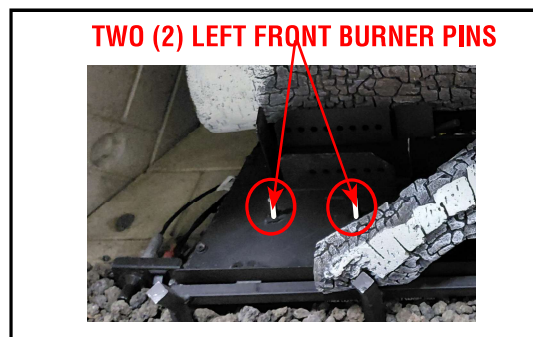
2. Place the Right Log over the right pin on the burners back bracket using the holes provided in the bottom of the log.



3. Place the Right Front Log over the two (2) right front burner pins using the two (2) holes provided in the bottom of the log. The log must rest fully against the burner with no space underneath it and the burner. The two front log sections must rest on the grate assembly.

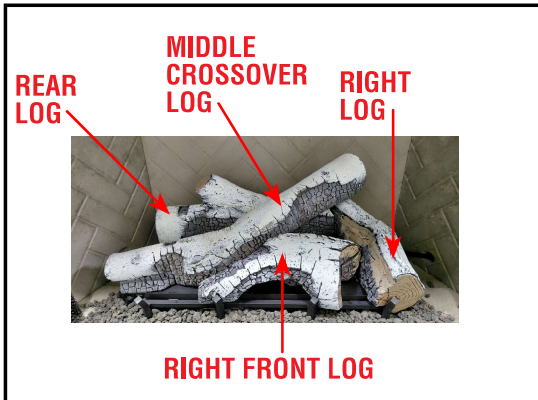


4. Place the Middle Crossover Log over the two (2) left burner pins using the holes provided in the bottom of the log.

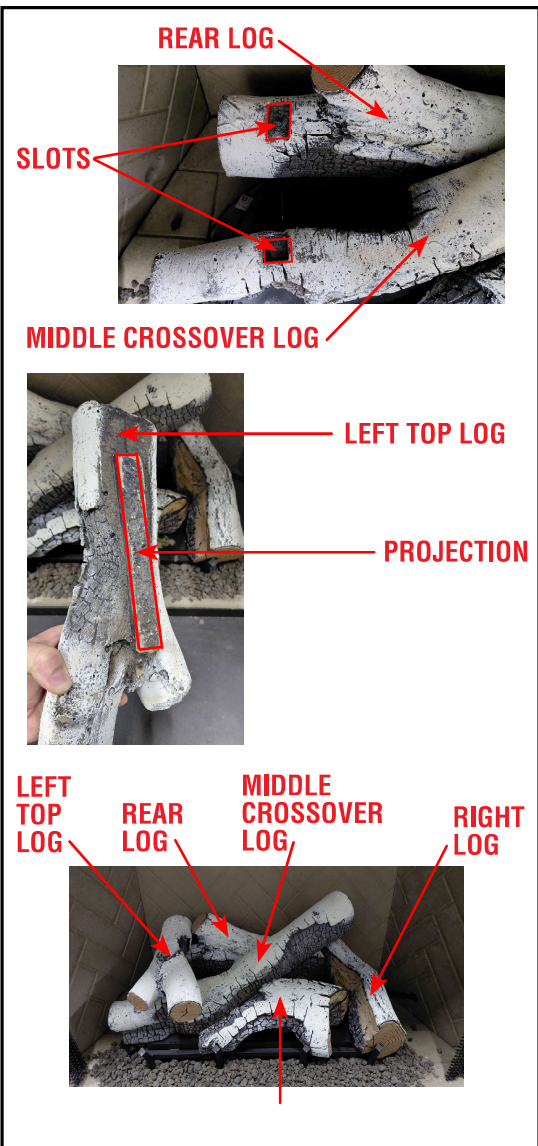


INSTALLATION

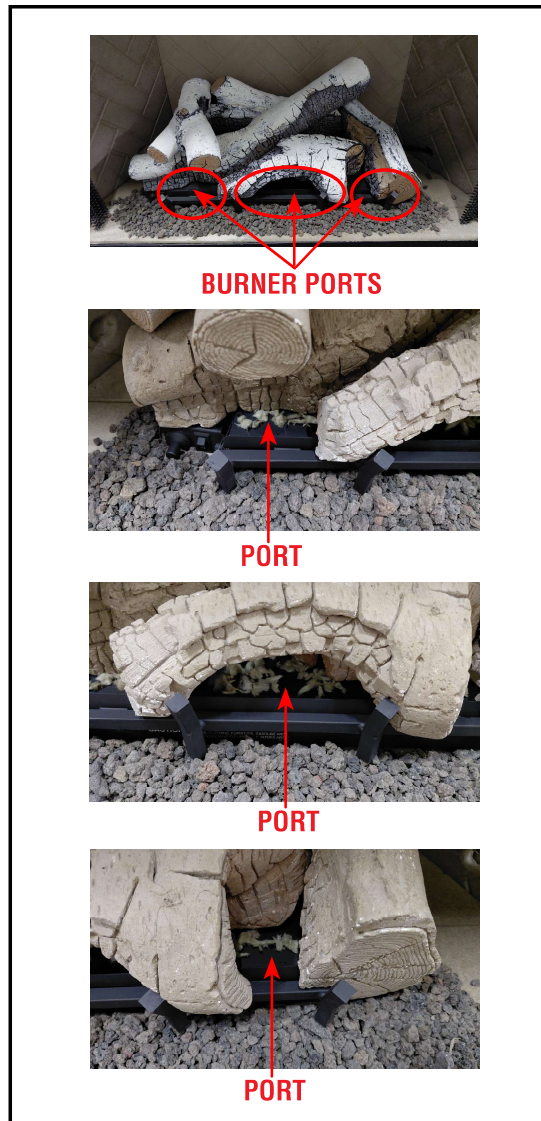
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5. Place the Left Top Log into the slots provided in the Rear Log and the Middle Crossover Log.



6. Place the Glowing Embers behind the front and middle burner ports. **DO NOT PLACE EMBERS ON TOP OF THE BURNER PORTS!**



INSTALLATION

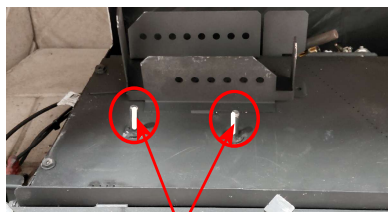
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LNF18ES, LNF24ES, LNF30ES LOG PLACEMENT

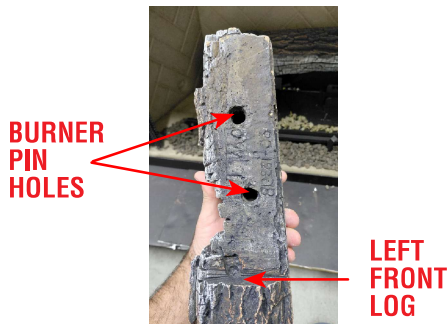
It is very important to install the logs exactly as instructed. Do not modify logs. Only use logs supplied with appliance or as identified for use with the appliance as shown.

1. Remove the entire Log Set provided and check for damage. If damaged, STOP!!! Contact dealer or IHP.
2. If you currently have a log set installed: Remove the entire Log Set that is currently installed on your Gas Log Burner and discard entire set.
3. Follow the steps found beginning on this page for installation of your new complete Log Set.

1. Place the Left Front Log on the front left burner pins using the holes provided in the bottom of the log.

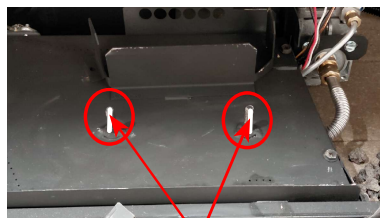


FRONT LEFT BURNER PINS



LEFT FRONT LOG

2. Place the Right Front Log on the front right burner pins using the holes provided in the bottom of the log.



FRONT RIGHT BURNER PINS



LEFT FRONT LOG

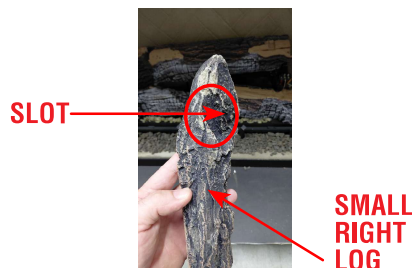
RIGHT FRONT LOG

3. Place the Small Right Log in between the right rear bracket and the right leg flange using the slot on the back of the log. Insert the small log onto the flange at a 45 degree angle and slightly rotate counterclockwise until the charred side of the log is facing to the inside.

RIGHT LEG FLANGE

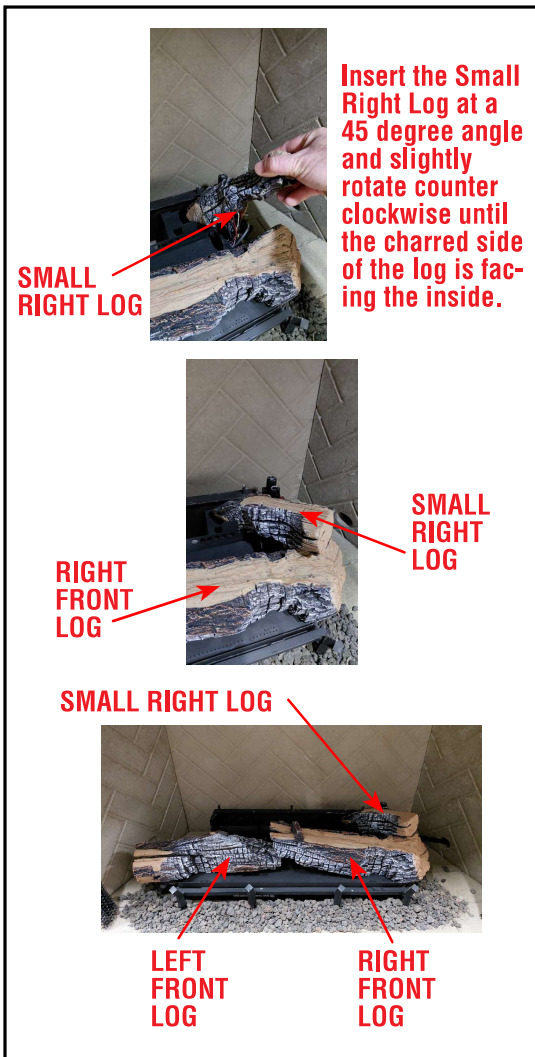


RIGHT REAR BRACKET

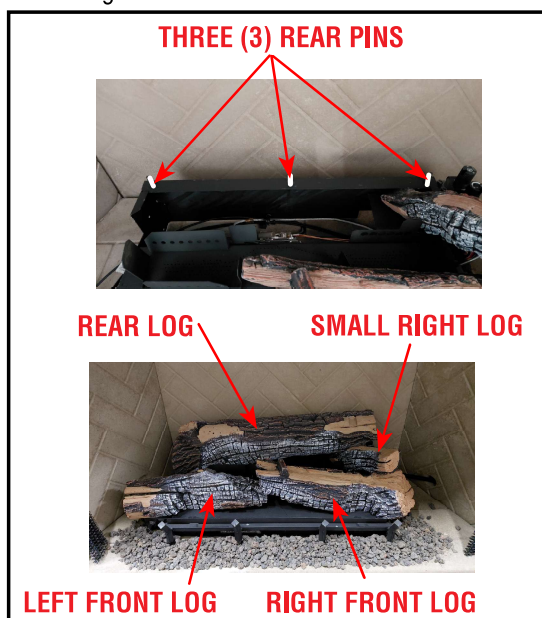


INSTALLATION

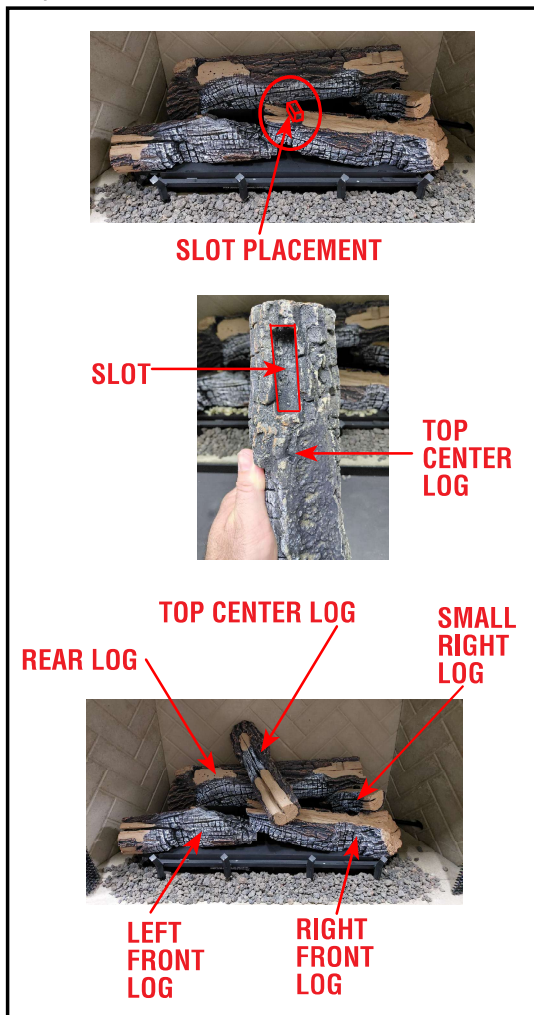
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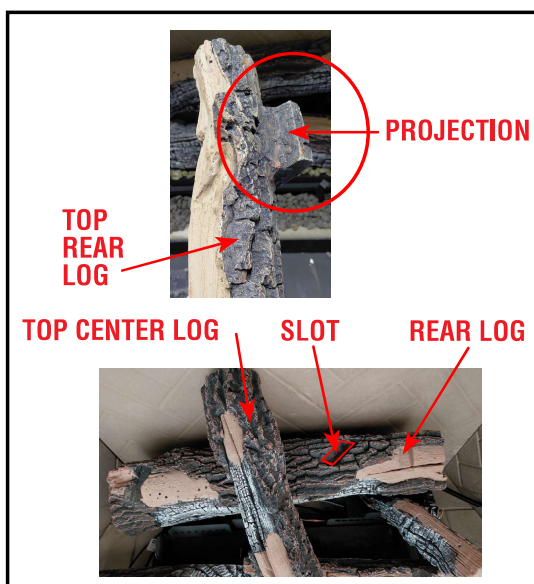
4. Place the Rear Log on the three (3) rear pins as shown using the holes provided in the bottom of the log.



5. Place the Top Center Log using the slot and placing it over the Right Front Log and the Rear Log as shown.



6. Place the Top Rear Log into the slot on the Rear Log and cross over the Top Center Log.

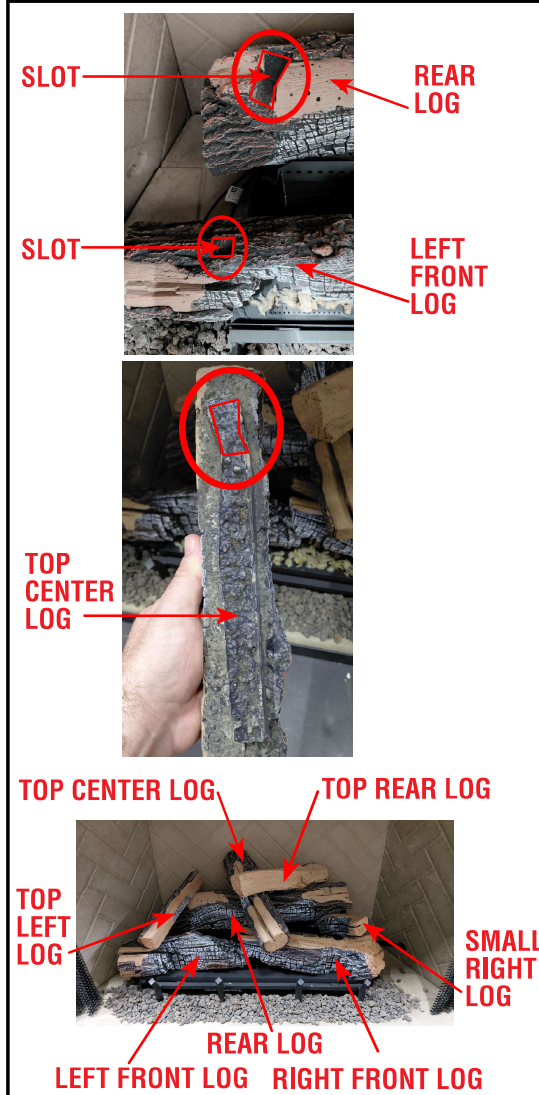


INSTALLATION

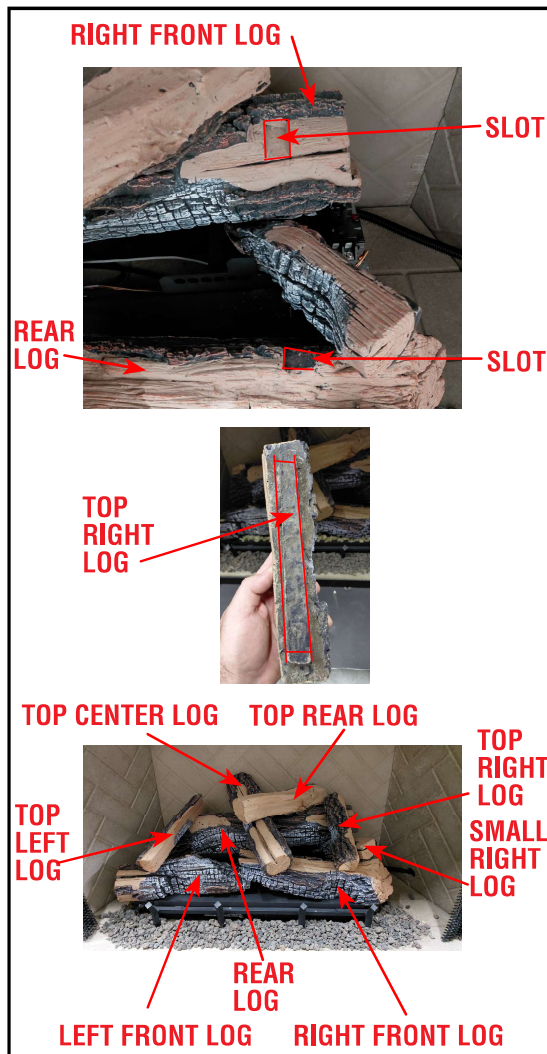
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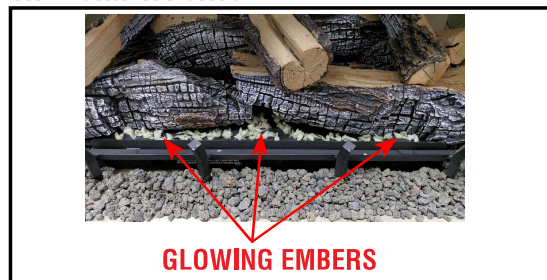
7. Place the Top Left Log onto the Rear and Left Front Logs as shown. Notice the shape on the back of the log. It will match the slot on the Rear Log.



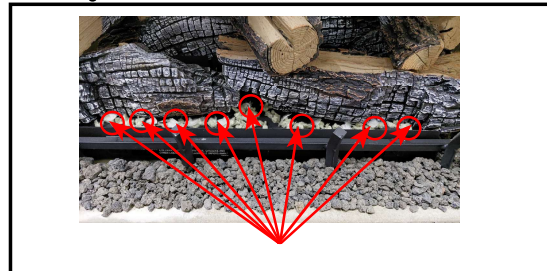
8. Place the Top Right Log using the slots on the Rear and Right Front Logs making sure the charred side is facing the inside.



9. Place Glowing Embers behind the front burner ports as shown. **DO NOT PLACE EMBERS OVER THE BURNER PORTS!**



10. Place the Platinum Embers on top of the Glowing Embers as shown.



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. The fireplace screen shall have openings for introduction of combustion air.

 **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. If any portion of this appliance does not operate as the instructions indicate, do not try to repair it, call a qualified service technician. Do not use tools. Force or attempted repair may result in a fire or explosion.
- D. Do not use this room heater if any part has been 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.

LIGHTING INSTRUCTIONS

1. STOP! Read the safety information.
2. Make sure equipment shutoff valve is fully open.
3. 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.

TO TURN OFF GAS TO APPLIANCE

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

OPERATION

Continued

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)

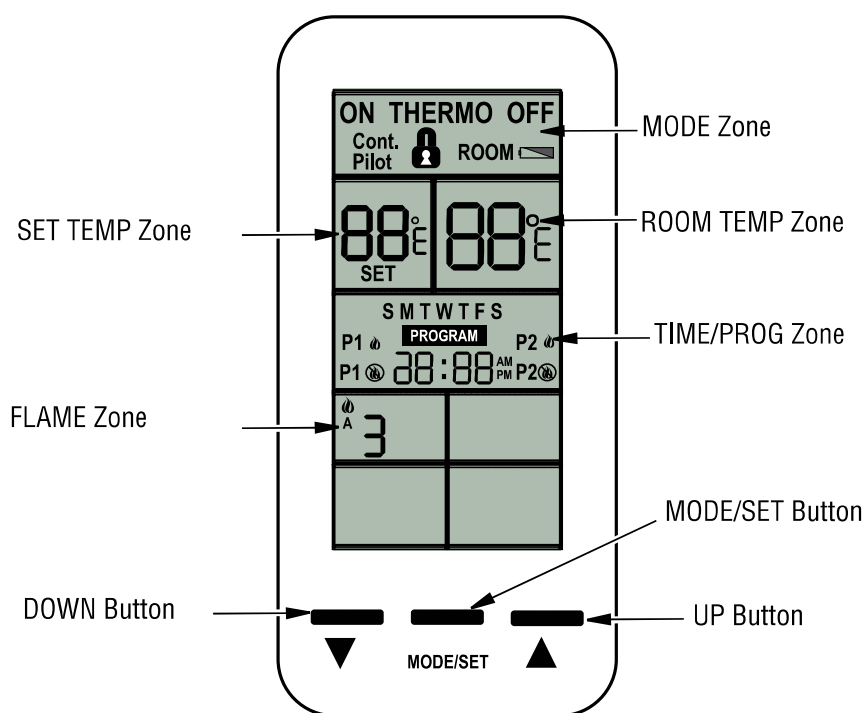


Figure 38 - Touch-Screen LCD and Button Layout

OPERATION

Continued

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.

MODES OF OPERATION

OPERATION MODES:

- MANUAL OFF
- MANUAL ON
- THERMOSTAT (with optional PROGRAM 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 TEMPERATURE 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)	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.

OPERATION

Continued

- 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
- 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.
 2. 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).
 3. 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).
 4. 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).
- 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.

OPERATION

Continued

5. LCD Displays – when in Day/Time Setup:

- MODE Zone: Blank
- ROOM TEMP Zone: Blank
- SET TEMP Zone: Blank
- 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.
- 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 MANUAL 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.

Flame-A (or Main) Adjustment

- 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-A icon, and Flame-A setting number will flash in the FLAME Zone.

OPERATION

Continued

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. All automatic functions (thermostat, program, etc.) will continue normally.
- 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).

LEARN PROCESS (PAIRING THE REMOTE TO THE CONTROL MODULE)

NOTE: The transmitter must be in the "OFF" or "THERMO OFF" in order to allow the remote to pair with the control module.

To pair the remote transmitter to the control module, press the learn switch and release. There should be an audible beep indicating the module is ready to accept a transmitter code. Next, press the mode/set button twice on the transmitter within 60 seconds to send a signal (the "MODE/SET" button must be pressed once to activate the screen [lights up] and then a second time for the remote and module to pair). If the signal is received, the module should beep indicating the signal was received. **NOTE:** Module will remain "Open" and ready to accept a signal for 60 seconds after the learn switch is pressed.

The control module will learn up to 3 different transmitter security codes (only one may be a thermostat style).

Press and hold in the learn switch in for 6 seconds to clear all transmitter security codes retained in memory. After releasing the switch, three series of beeps will be heard. This serves as proof that the transmitter's security codes have been cleared from memory. Repeat learn process as needed.

Unit Mounted Switches



Burner

Hi-Lo

Learn

ON/OFF Switch turns the burner on and off

Hi (Off) / Low (On) Switch controls the main burner flame height

Momentary Switch (Learn) is for programming the remote (see instructions above).

OPERATION

Continued

SWITCHING ON

To turn the system on, press the Burner ON/OFF switch to the ON position (see figure on **Page 36**). Once the start up process is complete, the main burner and pilot will be lit.

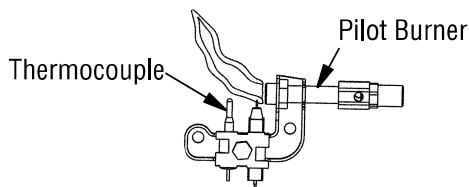


Figure 40 - Incorrect Pilot Flame Pattern

REGULATING THE FLAME LEVEL.

1. To decrease the flame level to low, press the Hi-Low switch to the LO position.
2. To increase to high flame level, press the Hi-Low switch to the HI position.

NOTE: If the appliance is set to the low flame level and turned off, it will light on high flame level and then cycle to low flame level on the next flame sequence.

SWITCHING OFF

To switch off the fire, press the Burner ON/OFF Switch to the OFF position.

BURNER PRIMARY AIR HOLES

Air is drawn into burner through holes in fitting at entrance to burner. These holes may become blocked with dust or lint. Periodically inspect these holes for any blockage and clean as necessary. Blocked air holes will create soot.

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

INSPECTING BURNERS AND PILOT FLAME PATTERNS

Check pilot flame pattern and burner flame patterns often.

PILOT FLAME PATTERN

Figure 39 shows a correct pilot flame pattern. **Figure 40** shows an incorrect pilot flame pattern. Incorrect pilot flame is not touching thermocouple. This will cause the thermocouple to cool. When thermocouple cools, heater will shut down.

If pilot flame pattern is incorrect, as shown in **Figure 40**

- turn heater off (see To Turn Off Gas to Appliance).
- see Troubleshooting Section and Switching On, **Page 41**).

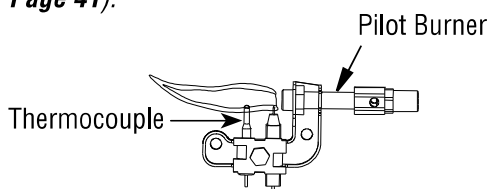


Figure 39- Correct Pilot Flame Pattern

CLEANING AND MAINTENANCE

⚠ WARNING: Turn off appliance and let cool before cleaning.

⚠ CAUTION: You must keep control areas, burner 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, bedding material, pet hair, etc.

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

Perform a periodic visual check of pilot and burner flame.

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 appliance 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.
2. 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.
4. Check injector holder located at end of 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 injector holder.
6. In case any large clumps of dust have now been pushed into the burner repeat steps 3 and 4. Clean pilot assembly also. Additional cleaning may be needed for proper pilot operation based on use/lack of use. A yellow tip on the pilot flame may indicate dust and dirt in the pilot assembly. There is a small pilot air inlet hole about from where the pilot flame comes out of pilot assembly (see **Figure 42**). With unit off, lightly blow air through air inlet hole. You may blow through a drinking straw if compressed air is not available.

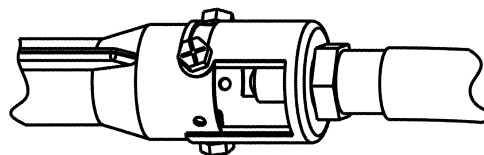


Figure 41 - Injector Holder On Outlet Burner Tube

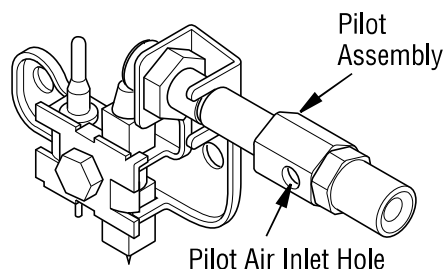


Figure 42 - Pilot Inlet Air Hole

LOGS

- If you remove logs for cleaning, refer to *Installing Logs Embers and Volcanic Stone*, **Pages 17-25**, to properly replace logs.
- Replace log(s) if broken or chipped (dime-sized or larger).

MAIN BURNER

Periodically inspect all burner flame holes with appliance running. All slotted burner flame holes should be open with 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 appliance and let cool. Remove blockage, blocked burner flame holes will create soot.

⚠ WARNING: The injector holders (air shutters) are not adjustable. Do not move injector holders from their original positions.

CLEANING AND MAINTENANCE

Continued

MAIN BURNER

Periodically inspect all burner flame holes with appliance running. All burner flame holes should be open with flame present. If burner flame holes become blocked by debris or rust, with no flame present. Turn off appliance and let cool. Remove blockage, blocked burner flame holes will create soot.

⚠ WARNING: The injector holder (air shutters) are not adjustable. Do not move injector holder from original positions.

Proper Flame Appearance:

Upon initial use and periodically thereafter, inspect the burner flame for proper flame appearance. The burner has two flame areas on the front left and right that can be observed for this purpose. When burning properly, propane models will have a 1 inch to 1-1/2 inch tall flame in the circled areas (see **Figure 43**) that have a center area that is bright yellow surrounded by blue flame. Natural gas models will have a 1 inch to 2 inch tall flame with a blue base that is approximately half of the flame height and the upper half that is bright yellow.



Figure 43 - Proper Flame Appearance



Figure 44 - Improper Flame Appearance

Improper Flame Appearance:

Upon initial use and periodically thereafter, inspect the burner flame for improper flame appearance. The burner has two flame areas on the front left and right that can be observed for this purpose. When burning improperly, either propane or natural gas models will have a flame in the circled areas as shown in **Figure 44** that have a mostly yellow or orange flame. The improper flame height will be 2 inches tall or higher.

⚠ WARNING: IMPORTANT NOTICE REGARDING IMPROPER FLAME APPEARANCE: If your flame appearance matches that described in the Improper Flame Appearance, see **Figure 44** above, **STOP**, read the troubleshooting section in the instruction manual starting on **Page 41**. If you are not able to resolve the issue causing the flame appearance to be met as described in the Proper Flame Appearance in **Figure 43**, contact your IHP dealer for service support.

WIRING DIAGRAM

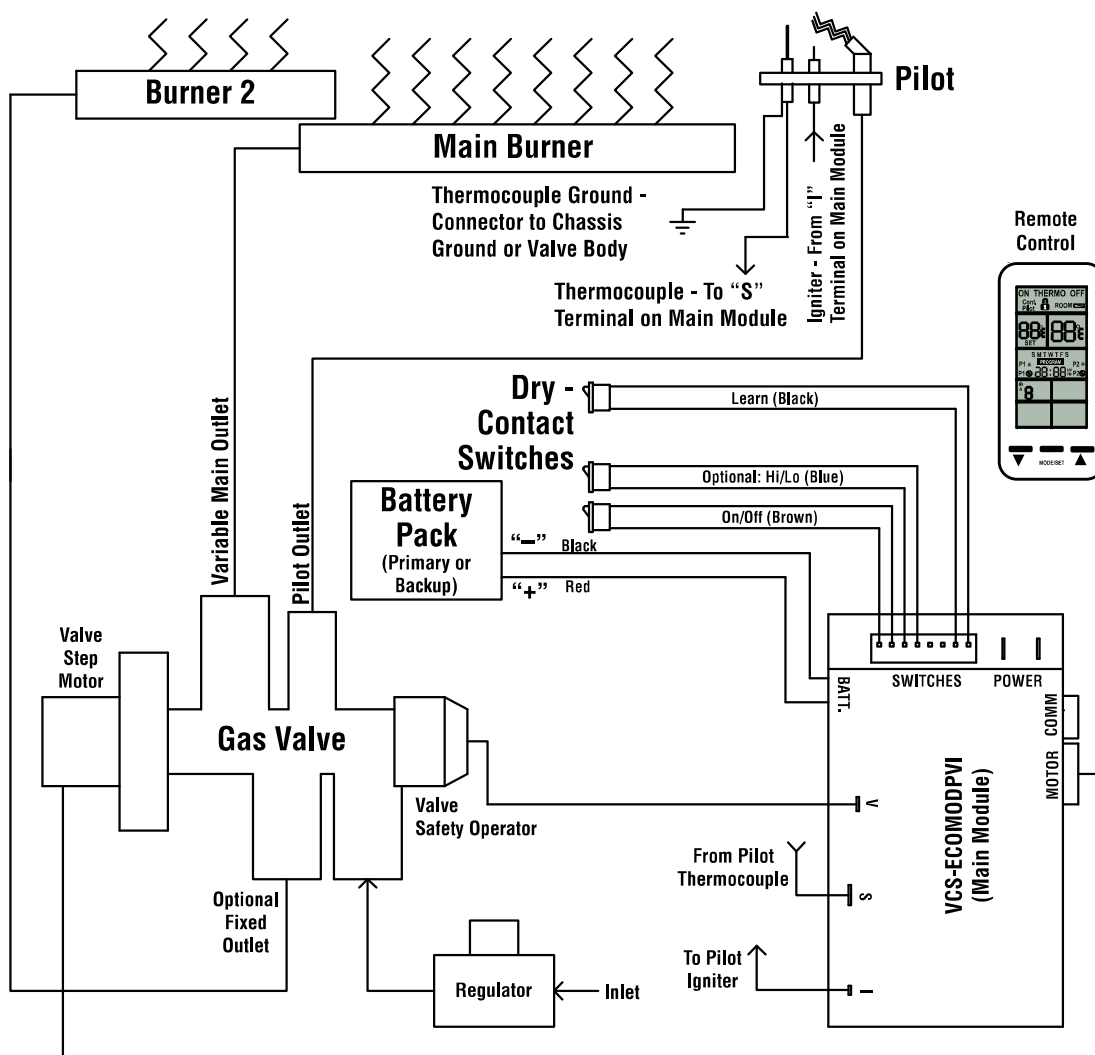


Figure 45

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

SPECIFICATIONS

NF18EN

- Rating (Variable): 22,000/30,000 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.

NF18EP

- Rating (Variable): 22,000/30,000 Btu/Hr
- Type Gas: Propane/LP
- Ignition: Electronic
- Manifold Pressure: 10" W.C.
- Inlet Gas Pressure (in. of water):
Max - 14" W.C., Min* - 11" W.C.

NF24EN

- Rating (Variable): 28,000/39,000 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.

NF24EP

- Rating (Variable): 25,000/36,000 Btu/Hr
- Type Gas: Propane/LP
- Ignition: Electronic
- Manifold Pressure: 10" W.C.
- Inlet Gas Pressure (in. of water):
Max - 14" W.C., Min* - 11" W.C.

*For purpose of input adjustment

TROUBLESHOOTING

⚠ 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.**

TROUBLESHOOTING ELECTRONIC SYSTEMS

Before troubleshooting, ensure that the fireplace main line gas shutoff valve is in the ON position. The following troubleshoots the fireplace only to an elementary level. Detailed valve system troubleshooting should only be performed by a qualified service technician.

SYMPTOM	POSSIBLE CAUSES	CORRECTIVE ACTION
1. Nothing happens when the fireplace is turned ON/OFF.	a. Remote is not functioning properly.	Re-Pair remote. Replace batteries in remote control and/or battery holder in control compartment.
	b. Gas is not reaching the fireplace.	Check the gas supply and gas shutoff valves. *
	c. Unit is not receiving power.	Check/replace batteries.
		Replace unit battery pack.
2. The main Burner does not light and the igniter is sparking.	a. Gas is not reaching the fireplace.	Check the gas supply and gas shutoff valves.
	b. Loose wires to the valve.	Check control compartment for any obviously loose wiring (call a service technician, if necessary).
	c. Loose wires to ignition module.	Check control compartment for any obviously loose wiring (call a service technician, if necessary).
	d. Air in the gas line.	Purge gas line of air (call a service technician if required).
	e. Unit is not receiving power.	Replace batteries.
3. The main Burner comes on but then goes out.	a. Gas is not reaching fireplace.	Check the gas supply and gas shutoff valves.
	b. Loose wires to the valve or ignition module.	Check control compartment for any obviously loose wiring (call a service technician, if necessary).
	c. Pilot flame is not engulfing the sensor.	Call a service technician.
4. Burner will not shut off.	Remote does not function.	Replace batteries in remote control.
	Remote is lost.	Replace remote control.
	Turn off gas shutoff valve.	Contact Technical Service (see Page 43).

*The unit may have multiple gas supply shutoffs (the main gas supply valve in the house, the gas supply valve in the fireplace control compartment, and/or an additional shutoff valve near the fireplace).

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.

SYMPTOM	POSSIBLE CAUSES	CORRECTIVE ACTION
5. Heater produces unwanted odors.	a. Heater burning vapors from paint, hair spray, glues, cleaners, chemicals, new carpet, etc. (See IMPORTANT statement above).	Open window to ventilate room. Stop using odor causing products while heater is running.
	b. Low fuel supply (propane/LP only).	Refill supply tank (propane LP only).
	c. Gas leak. See Warning statement at top of page.	Locate and correct all leaks (see <u>Checking Gas Connections, Page 14</u>).
6. Heater shuts off in use (ODS operates.)	a. Not enough fresh air is available.	Open window and/or door for ventilation.
	b. Low line pressure.	Contact local natural or propane/LP gas company.
	c. ODS/pilot is partially clogged.	Clean ODS/pilot (see, <u>Cleaning and Maintenance, Page 38</u>).
7. Gas odor even when control knob is in OFF position.	a. Gas leak. See Warning statement at top of page.	Locate and correct all leaks (see <u>Checking Gas Connections, Page 14</u>).
	b. Control valve or gas control defective.	Replace control valve or gas control.
8. Gas odor during combustion.	Foreign matter between control valve and burner.	Take apart gas tubing and remove foreign matter.
	Gas leak. See Warning statement at top of page.	Locate and correct all gas leaks (see <u>Checking Gas Connections, Page 14</u>).

REPLACEMENT PARTS

See **Pages 45-50** 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.

NEVER USE SUBSTITUTE MATERIALS. USE OF NON-APPROVED PARTS CAN RESULT IN POOR PERFORMANCE AND SAFETY HAZARDS.

When ordering repair parts, always give the following information:

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.

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.

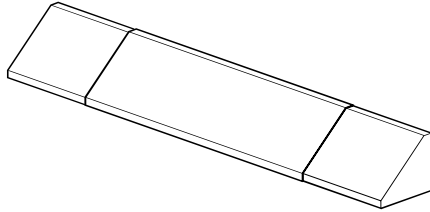
TECHNICAL SERVICE

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.

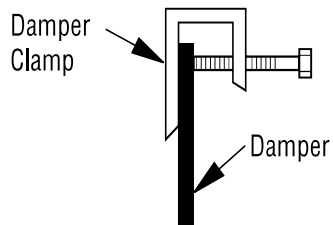
Only kits supplied by IHP shall be used in the installation of this appliance. Use of non-approved accessory/part kit(s) can result in poor performance and safety hazards.



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.



DAMPER CLAMP

(Required in vented applications)

Cat. No. F1760, Model GA6080

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



GAS APPLIANCE INSTALLATION KIT

Cat. No. F0249, Model CIKA

VOLCANIC STONE

Cat. No. 80L42, Model FDVS

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



EMBER KITS

Cat. No J6207 - Platinum Embers

Cat. No J6208 - Glowing Embers (rockwool)



FLOOR MEDIA KIT

Cat No. F1762, Model FM100

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

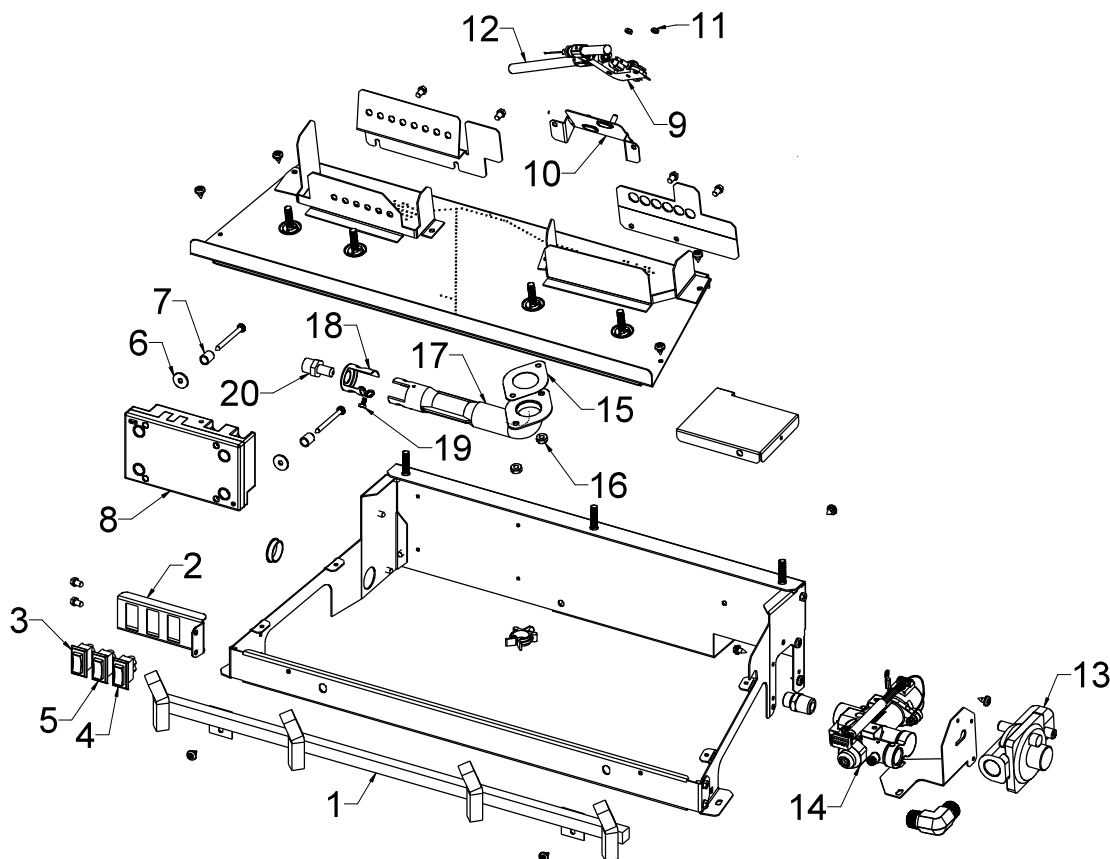
PARTS

REMOTE MODELS

NF18EN, NF18EP, NF24EN AND NF24EP

Cat. No.	Model
F5102	NF18EN
F5103	NF18EP
F5104	NF24EN
F5105	NF24EP

⚠ WARNING: Contact an IHP dealer to obtain any of these parts. Never use substitute materials not approved by IHP. Use of non-approved parts can result in poor performance and safety hazards.



⚠ 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.

PARTS

REMOTE MODELS

This list contains replaceable parts used in your heater. When ordering parts, follow the instructions listed under Replacement Parts on **Page 43** of this manual.

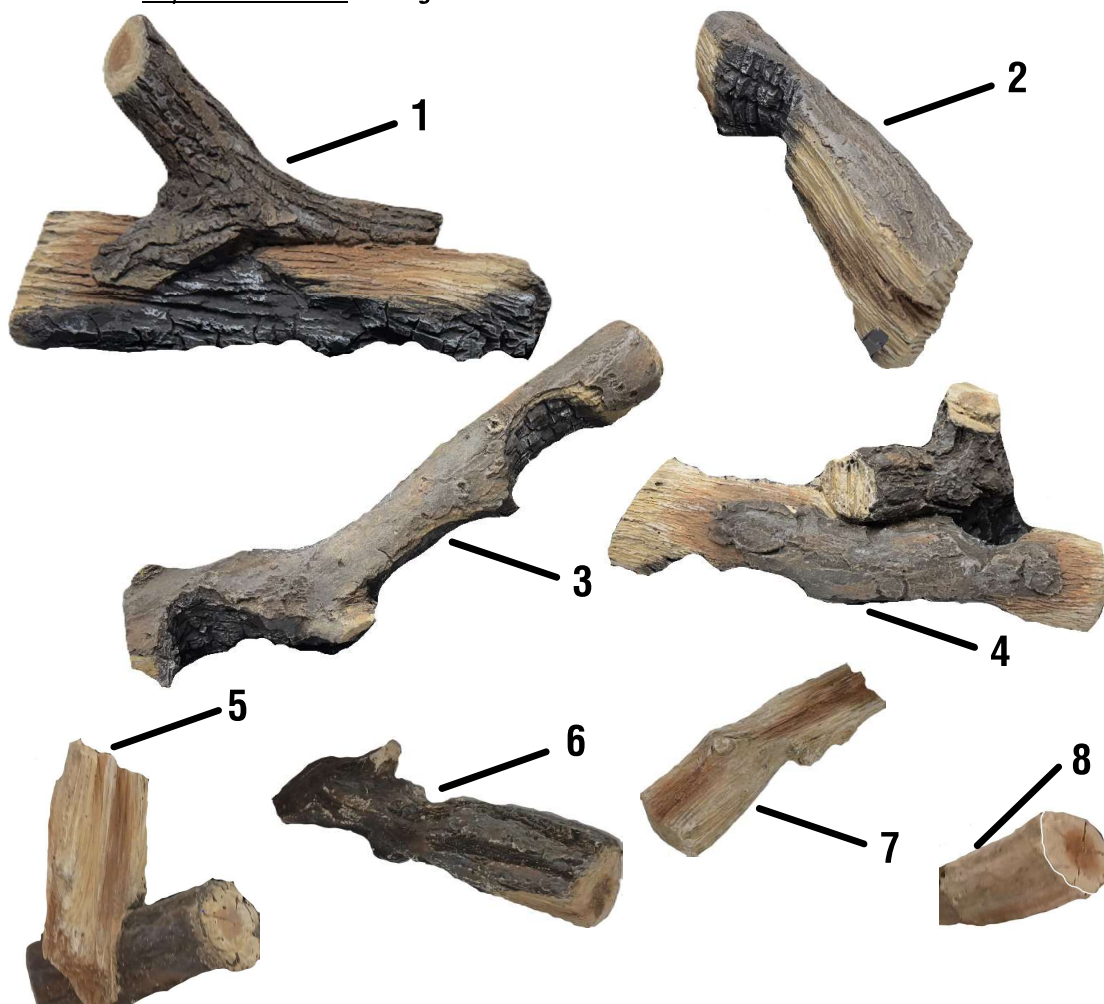
⚠ WARNING: Contact an IHP dealer to obtain any of these parts. Never use substitute materials not approved by IHP. Use of non-approved parts can result in poor performance and safety hazards.

KEY NO.	CAT. NO.	DESCRIPTION	NF18EN	NF18EP	NF24EN	NF24EP	QTY.
1	F5144	Assy, VF Grate 18"	•	•			1
	F5145	Assy, VF Grate 24"			•	•	1
2	F5130	Brkt, VF Switch	•	•	•	•	1
3	27K30	Switch, Rocker	•	•	•	•	1
4	F2964	Switch, Momentary	•	•	•	•	1
5	F3456	Switch, Hi-Lo (SI Rocker)	•	•	•	•	1
6	F5135	Washer, Nylon #8 x 5/8" OD	•	•	•	•	2
7	F2940	Spacer, .4375 Aluminum	•	•	•	•	2
8	F2960	Module, Ecoflow ODS RF Ctrl	•	•	•	•	1
9	F2955	Pilot, NG EL Copreci #239	•		•		1
	F2956	Pilot, LP EL Copreci #245		•		•	1
10	F5140	Weldment, Pilot Bracket	•	•	•		1
	F5141	Weldment, Pilot Bracket				•	1
11	F5142	Nut, Narrow Hex 10-32 Zinc	•	•	•	•	2
12	F2932	Tube, Pilot - 19"	•	•	•	•	1
13	F4935	Regulator, Fixed NG 4.5" WC 3/8"	•		•		1
	F4936	Regualtor, Fixed LP 10" WC 3/8"		•		•	1
14	J7936	Valve, Gas I-Out #47 w/15" JFM-22600-152		•		•	1
	F3691	Valve, Gas I-Out #31 w/15" JFM-22600-164			•		1
	F5131	Valve, Copr I-Out #39 w/15" JFM-22600/181	•				1
15	J5456	Gasket, Burner	•	•	•	•	1
16	J3547	Nut, 10-24 Captive Washer	•	•	•	•	2
17	F5132	Tube, Venturi	•		•	•	1
	F5133	Tube, Venturi		•			1
18	J4886	Shutter, Air	•	•	•	•	1
19	F5143	Screw #6-32 x 1/4 Hex Slot PH Combo HD	•	•	•	•	3
20	F5136	Orifice, 0.061 In [1.55 MM]		•			1
	F5137	Orifice, #51 0.067 [1.70 MM]				•	1
	F5138	Orifice, #42 0.0935 In [2.37 MM]	•				1
	F5139	Orifice, #36 0.1065 In [2.70 MM]			•		1
----- PARTS AVAILABLE - NOT SHOWN -----							
21	F4149	Flex Line, 22" .375 Tube w/Nuts	•	•	•	•	1
22	F2957	Wire, Spark Copreci 24"	•	•	•	•	1
23	J7933	V-Wire, 24" Safety Mag	•	•	•	•	1
24	F2949	Harness - ODS Remote Wrng	•	•	•	•	1
25	F2950	Remote Ctrl ODS Touchscrn	•	•	•	•	1
26	F2958	Battery Pack C - Ecoflow	•	•	•	•	1
27	J6207	Kit, Platinum Embers	•	•	•	•	1
28	F5134	Kit, Rockwool Ember	•	•	•	•	1
29	J3689	Kit, Hardware	•	•	•	•	1
30	J3693	Kit, Lava Rock 2.5 Lbs 3/8"	•	•	•	•	2

PARTS

LOG SET MODELS: LNF18ST, LNF24ST, LNF30ST

This list contains replaceable parts used in your appliance. When ordering parts, follow the instructions listed under Replacement Parts on **Page 43** of this manual.



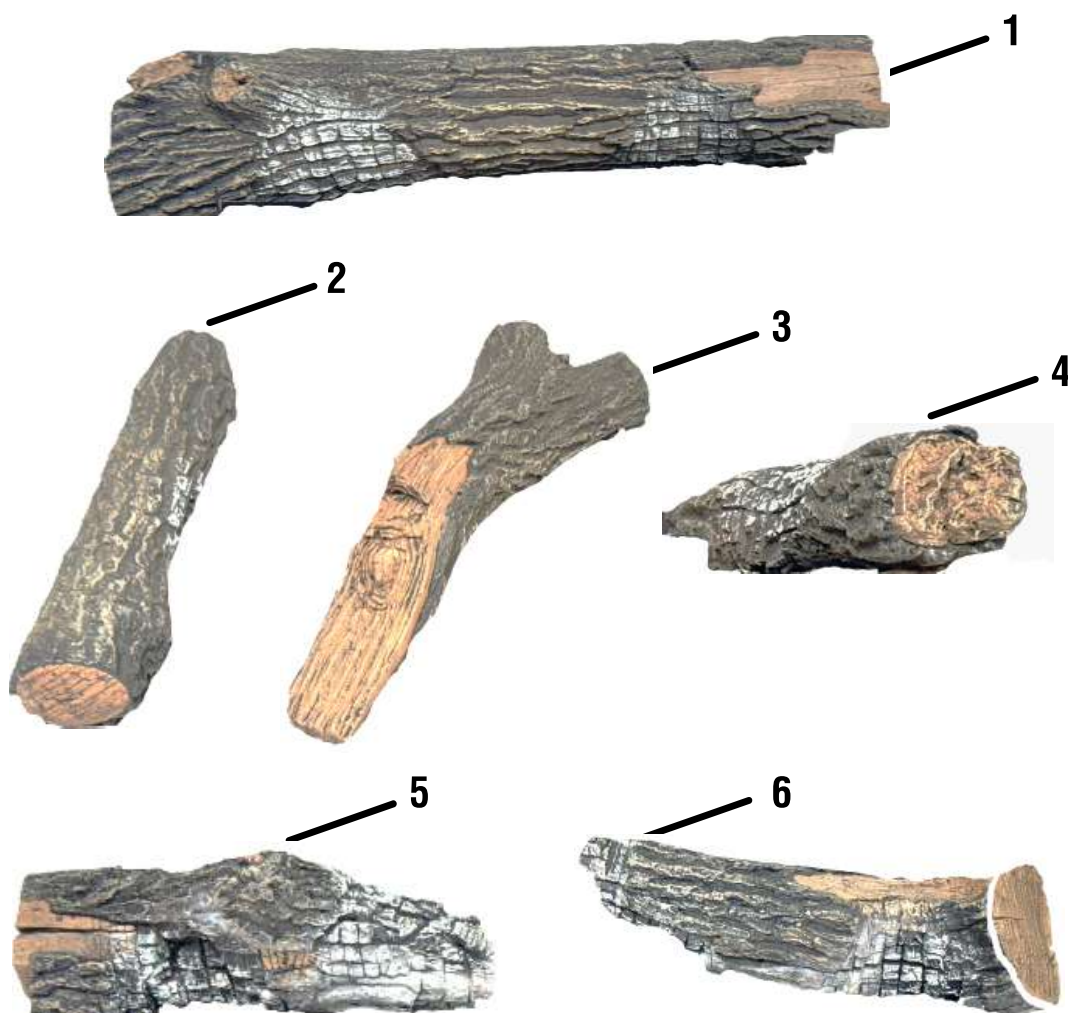
KEY NO.	CAT. NO.	DESCRIPTION	LNF18ST	LNF24ST	LNF30ST	QTY.
1	*	Left Rear Log #1	•	•	•	1
2	*	Right Side Log #2	•	•	•	1
3	*	Crossover Log #3	•	•	•	1
4	*	Right Front Log #4	•	•	•	1
5	*	Left Side Log #5	•	•	•	1
6	*	Left Side Inner Log 13" #6			•	1
7	*	Left Side Outer Log 14" #7			•	1
8	*	Small Log #8	•	•	•	1
9	F5109	Complete Log Set	•	•	•	1
	F5110	Concrete Log Set		•		1
	F5111	Complete Log Set			•	1

***Order complete log set**

PARTS

LOG SET MODELS: LNF18GR, LNF24GR, LNF30GR

This list contains replaceable parts used in your appliance. When ordering parts, follow the instructions listed under *Replacement Parts* on **Page 43** of this manual.



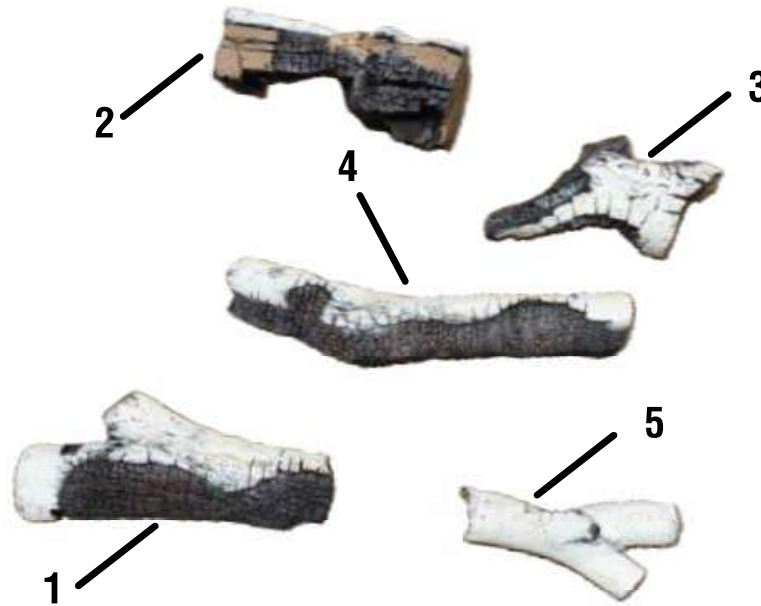
KEY NO.	CAT. NO.	DESCRIPTION	LNF18GR	LNF24GR	LNF30GR	QTY.
1	*	Rear Log #1	•			1
	*			•	•	1
2	*	Top Left Log #2	•	•	•	1
3	*	Top Center Log #3	•	•	•	1
4	*	Small Right Log #4	•	•	•	1
5	*	Left Front Log #5	•			1
	*	Left Front Log #5		•		1
	*	Left Front Log #5			•	1
6	*	Right Front Log #6	•			1
	*	Right Front Log #6		•		1
	*	Right Front Log #6			•	1
7	F5106	Complete Log Set	•			1
	F5107	Complete Log Set		•		1
	F5108	Complete Log Set			•	1

*Order complete log set

PARTS

LOG SET MODELS: LNF18HB, LNF24HB, LNF30HB

This list contains replaceable parts used in your appliance. When ordering parts, follow the instructions listed under *Replacement Parts* on **Page 43** of this manual.



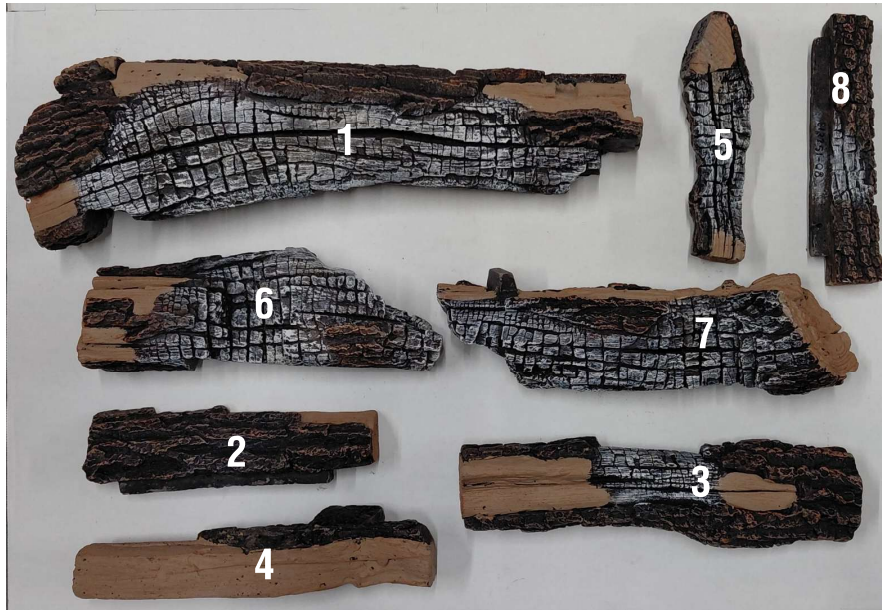
KEY NO.	CAT. NO.	DESCRIPTION	LNF18HB	LNF24HB	LNF30HB	QTY.
1	*	REAR LOG 18	•			1
	*	REAR LOG 24/30		•	•	1
2	*	RIGHT LOG 18	•			1
	*	RIGHT LOG 24		•		1
	*	RIGHT LOG 30			•	1
3	*	MIDDLE FRONT 18"	•			1
	*	MIDDLE FRONT 24/30		•		1
4	*	CROSSOVER LOG 18	•		•	1
	*	CROSSOVER LOG 24/30		•		1
5	*	LEFT TOP LOG 18/24/30	•	•	•	1
	F5194	COMPLETE LOG SET 18"	•			1
	F5195	COMPLETE LOG SET 24"		•		1
	F5196	COMPLETE LOG SET 30"			•	1

*Order complete log set

PARTS

LOG SET MODELS: LNF18ES, LNF24ES, LNF30ES

This list contains replaceable parts used in your appliance. When ordering parts, follow the instructions listed under *Replacement Parts* on **Page 43** of this manual.



KEY NO.	CAT. NO.	DESCRIPTION	LNF18ES	LNF24ES	LNF30ES	QTY.
1	*	SPLIT REAR LOG 24/30		•	•	1
2	*	SPLIT TOP LEFT LOG 18/24/30	•	•	•	1
3	*	TOP CENTER LOG 18	•			1
	*	TOP CENTER LOG 24/30		•	•	1
4	*	SPLIT TOP REAR LOG 18/24/30	•	•	•	1
5	*	SMALL RIGHT LOG 18/24/30	•	•	•	1
6	*	LEFT FRONT LOG 18	•			1
	*	LEFT FRONT LOG 24		•		1
	*	LEFT FRONT LOG 30			•	1
7	*	RIGHT FRONT LOG 18	•			1
	*	RIGHT FRONT LOG 24		•		1
	*	RIGHT FRONT LOG 30			•	1
8	*	TOP RIGHT LOG 18	•			1
	*	TOP RIGHT LOG 24/30		•	•	1
9	*	TOP REAR LOG 18	•			1
	F5191	COMPLETE LOG SET 18"	•			1
	F5192	COMPLETE LOG SET 24"		•		1
	F5193	COMPLETE LOG SET 30"			•	1
*Order complete log set						

Innovative Hearth Products Superior® Brand Vent Free Gas Log Set Limited Five Year Warranty

THE WARRANTY

Innovative Hearth Products Limited Five Year Warranty ("IHP") warrants your Superior brand Vent Free 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 Five Year Warranty. After installation, if covered components manufactured by IHP are found to be defective in materials or workmanship during the Limited Five 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 Five 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 Five 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 Five 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 Five 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 Five 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 Five 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 Five 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 Five Year Warranty and to decide, in its sole discretion, upon the method of settlement.

To receive the benefits and advantages described in this Limited Five 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 IHP'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.

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	

Innovative Hearth Products (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.

