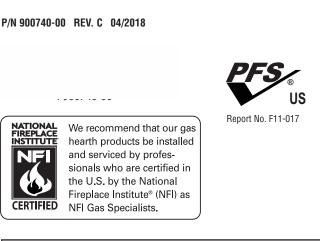


Installation and Operation Instructions

Unvented (Vent-Free) Gas Log Heaters



TF18NE	TF18PE	TF2430NE	TF2430PE
or use with log sets			
or doo minin rog ooto			
LTF18MM	LTF18F	RS	LTF18WT
-	LTF18F LTF24F	-	LTF18WT LTF24WT

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.

Modolo

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

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

WARNING:

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

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

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SAFETY

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 contains and/or generates chemicals known to the state of California to cause cancer or birth defects or other reproductive harm. WARNING: This is an unvented gas-fired heater. It uses air (oxygen) from the room in which it is installed. Provisions for adequate combustion and ventilation air must be provided. Refer to <u>Air for Combustion and</u> <u>Ventilation</u> section on <u>Page 6</u> of this manual.

This appliance may be installed in an aftermarket,* permanently located, manufactured (mobile) home, where not prohibited by local codes.

This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases.

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

DANGER: Carbon monoxide poisoning may lead to death!

SAFETY Continued

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

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

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 heater. Avoid any drafts that alter burner flame patterns. Ceiling fans can create drafts that alter burner flame patterns. Altered burner patterns can cause sooting. WARNING: Do not place log scraps or volcanic stone on burner.

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

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

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

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

You must operate this appliance with the fireplace screen and hood in place. Make sure fireplace screen and hood are 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.

this appliance.

SAFETY Continued

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

- 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. To prevent performance problems, the use of a propane/LP tank of less than 100 lbs. capacity is not recommended (propane/LP units only).
- 4. 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
- 5. This heater shall not be installed in a bedroom or bathroom.
- 6. 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.
- 7.Do not burn solid-fuel in a fireplace in which a vent-free appliance is installed.
- 8. 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.
- 9. 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.

- To prevent the creation of soot, follow the instructions in <u>Cleaning and Maintenance</u>, **Page 30**.
- 11. 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.
- 12. 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 <u>Air for</u> <u>Combustion and Ventilation</u>, **Page 6**. If appliance keeps shutting off, see <u>Troubleshooting</u>, **Page 33**.
- 13. Do not run appliance
- where flammable liquids or vapors are used or stored
- under dusty conditions
- 14. Do not use this appliance to cook food or burn paper or other objects.
- 15. 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.
- Do not operate appliance if any log is broken. Do not operate appliance if a log is chipped (dime-sized or larger).
- 17. 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.
- 18. Operating appliance above elevations of 4,500 feet may cause pilot outage.
- 19. Provide adequate clearances around air openings.
- 20. Solid fuels shall not be burned in a fireplace in which an unvented room heater is installed.
- 21. Follow the clearance requirements within this manual to assure adequate clearances for accessibility for purposes of servicing and proper operation.
- 22. Installation and the provisions for combustion and ventilation air must conform with the *National Fuel Gas Code, ANSI Z223.1/NFPA 54.*
- 23. 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.*

PRODUCT IDENTIFICATION

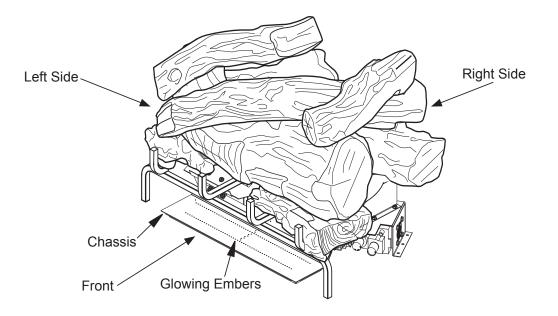


Figure 1 - Product Identification

LOCAL CODES

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

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.

UNPACKING

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

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.

AIR FOR COMBUSTION AND VENTILATION

- 1. Unusually Tight Construction
- 2. Unconfined Space

appliance fuel supply.

3. Confined Space

SAFETY DEVICE

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

This heater has a pilot with an Oxygen Deple-

tion 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.

This appliance has an electronic Igniter to light

ELECTRONIC IGNITION SYSTEM

Unusually Tight Construction

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

Unusually tight construction is defined as construction where:

- a. walls and ceilings exposed to the outside atmosphere have a continuous water vapor retarder with a rating of one perm (6 x 10⁻¹¹ kg per pa-sec-m²) or less with openings gasketed or sealed <u>and</u>
- b. weather stripping has been added on openable windows and doors <u>and</u>
- c. caulking or sealants are applied to areas such as joints around window and door frames, between sole plates and floors, between wall-ceiling joints, between wall panels, at penetrations for plumbing, electrical and gas lines and at other openings.

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

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

in some areas prohibit the use of vent-fre appliances. **AIR FOR COMBUSTI WARNING:** This heater shall not be installed in a room or space unless the required volume of indoor combustion air is provided by the method described in the National Fuel Gas Code, ANSI Z223.1/NFPA

54, the International Fuel Gas Code, or applicable local codes. Read the following instructions to ensure proper fresh air for this and other fuelburning appliances in your home.

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

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

Exhaust fans, some fireplaces, clothes dryers and some fuel-burning appliances draw air from the house to operate. You must provide adequate fresh air for these appliances. 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:

AIR FOR COMBUSTION AND VENTILATION Continued

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 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 <u>Ventilation Air From Inside Building</u>, **Page 8**.
- B. Vent room directly to the outdoors. See <u>Ventilation Air From Outdoors</u>, **Page 8**.
- C. Install a lower Btu/Hr 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.

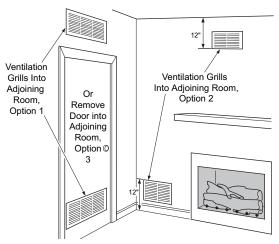


Figure 2 - Ventilation Air from Inside Building

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.

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.

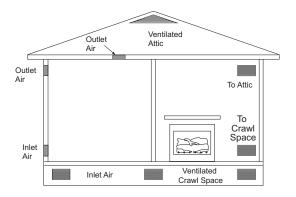


Figure 3 - Ventilation Air from Outdoors

INSTALLATION

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.

INSTALLATION

Continued

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.

WARNING: Never install the appliance

- in a bedroom or bathroom
- 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 appliance. Installing appliance next to vinyl or cloth wall coverings or operating appliance where impurities (such as, but not limited to, tobacco smoke, aromatic candles, cleaning fluids, oil or kerosene lamps, etc.) in the air exist, may discolor walls or cause odors.

IMPORTANT: Vent-free 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 <u>Air for Combustion</u> <u>and Ventilation</u>, **Page 6**.

CHECK GAS TYPE

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

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

INSTALLATION AND CLEARANCES FOR VENT-FREE OPERATION

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

MINIMUM FIREPLACE CLEARANCE TO COMBUSTIBLE MATERIALS Side Wall 16", Ceiling 42" Floor 5", Front: 36"

LOG SIZING REQUIREMENTS					
	Minimum Firebox Size				
Log Size	Height	Depth	Front	Rear*	
00			Width	Width	
18"	19"	14"	28"	20"	
24"	19"	14"	32"	22"	
30"	19"	14"	40"	30"	

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

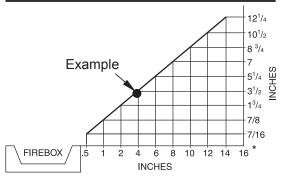
A. Clearances from the side of the fireplace cabinet to any combustible material and wall should follow diagram in *Figure 4, Page 10*.

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".

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 <u>If Using</u> <u>Mantel</u>. 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 5* 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>Accesso-</u> <u>ries</u> , Page 40). 18" Model: Noncombus- tible material OK.
Less than 8"	Noncombustible material must be extended to at least 8". See <u>Between 8"</u> <u>and 12"</u> , above. If you can- not extend material, you must operate appliance with flue damper open.

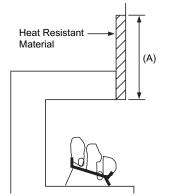


Figure 5 - Heat Resistant Material (Slate, Marble, Tile, etc.) Above Fireplace

If Using Mantel

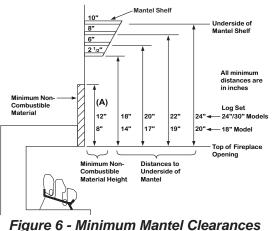
You must have noncombustible material(s) above the fireplace opening. Noncombustible materials (such as slate, marble, tile, etc.) must be at least 1/2" thick. With sheet metal, you must have noncombustible material behind it. Noncombustible material must extend at least 8" up (for all models). If noncombustible 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* and *6* and *Figure 7, Page 11*, for minimum clearances.

MANTEL CLEARANCES

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

Determining Minimum Mantel Clearance

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



igure 6 - Minimum Mantel Clearances Without Using Hood

Continued

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.

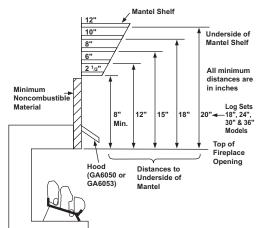


Figure 7 - Minimum Mantel Clearances When Using Hood

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

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

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

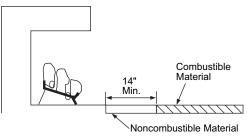


Figure 8 - Minimum Fireplace Clearances If Installed at Floor Level

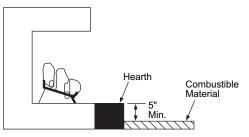


Figure 9 - Minimum Fireplace Clearances Above Combustible Flooring

INSTALLING APPLIANCE BASE ASSEMBLY

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

WARNING: If installing in a sunken fireplace, special care is needed. You must raise the fireplace floor to allow access to appliance 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.

AUTION: Do not pick up appliance base assembly by burners. This could damage the appliance. Only handle base assembly by grates.

IMPORTANT: Make sure the appliance burners are level.

Installation Items Needed

- hardware package (provided with appliance)
- approved flexible gas hose and fittings (only provided with TF burner system series) (if allowed by local codes)
- sealant (resistant to propane/LP gas, not provided)
- electric drill with 3/16" masonry drill bit
- Apply pipe joint sealant lightly to male threads of the 3/8 NPT side of gas fitting and connect to inlet side of gas control. Remove gas fitting from flexible gas hose (provided) before connecting to elbow (see Figure 10).
- 2. Position appliance base assembly in fireplace.
- 3. Mark screw locations through holes in front panel of base (see *Figure 11*). If installing in a brick-bottom fireplace, mark screw locations in mortar joint of bricks.
- 4. Remove 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 11).*
- Connect to gas supply. See <u>Connecting</u> <u>To Gas Supply</u>.

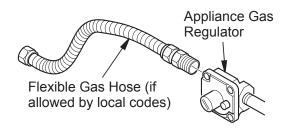


Figure 10 - Attaching Flexible Gas Hose to Appliance Gas Regulator

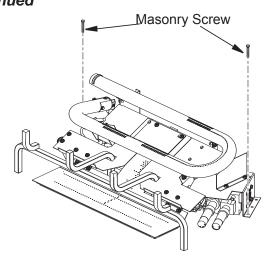


Figure 11 - Attaching Base to Fireplace Floor

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 appliance directly to the propane/LP supply. This appliance requires an external regulator (not supplied). Install the external regulator between the appliance and propane/LP supply.

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

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 12*. Pointing the vent down protects it from freezing rain or sleet.

CAUTION: Use only new, black iron or steel pipe. Internally-tinned copper tubing may be used in certain areas. Check your local codes. Use pipe of 1/2" diameter or greater to allow proper gas volume to appliance. 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 13*).

IMPORTANT: Install equipment shutoff valve in an accessible location. The equipment shutoff valve is for turning on or shutting off the gas to the appliance. Check your building codes for any special requirements for locating equipment shutoff valve to 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.

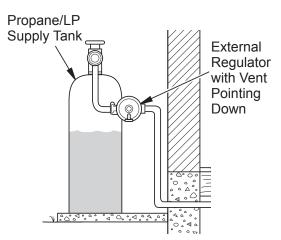
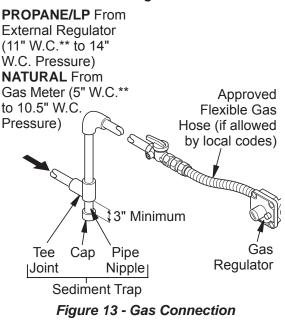


Figure 12 - External Regulator With Vent Pointing Down



**Minimum inlet pressure for purpose of input adjustment.

INSTALLATION

Continued

We recommend that you install a sediment trap in supply line as shown in *Figure 13*, *Page 13*. 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.

CAUTION: Make sure external regulator has been installed between propane/LP supply and appliance. See guidelines under Connecting to Gas Supply, *Page 12*.

PRESSURE TESTING GAS SUPPLY PIPING SYSTEM Test Pressures In Excess Of 1/2 PSIG (3.5 kPa)

- Disconnect appliance with its appliance main gas valve (control valve) and equipment shutoff valve from gas supply piping system. Pressures in excess of 1/2 psig (3.5 kPa) will damage appliance regulator.
- 2. Cap off open end of gas pipe where equipment shutoff valve was connected.

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

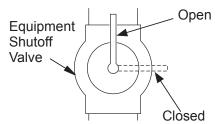


Figure 14 - Equipment Shutoff Valve

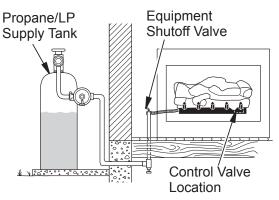


Figure 15 - Checking Gas Joints (Propane/LP Only)

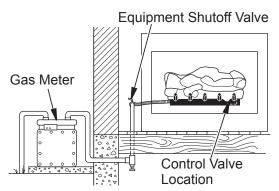


Figure 16 - Checking Gas Joints (Natural Gas Only)

PRESSURE TESTING APPLIANCE GAS CONNECTIONS

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

POWER SUPPLY AND BATTERY IN-STALLATION

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

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.

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

TF Series Burner System - Log Compatibility Chart				
Burner System Fiber Log Concrete Lo Models Models Models				
TF18NE TF18PE	LTF18MM	LTF18-RS LTF18WT		
TF2430NE TF2430PE	LTF24MM LTF30MM	LTF24-RS LTF30-RS LTF24WT LTF30WT		

Figure 21 - TF Series Burner System-Log Compatibility Chart

LTF(18,24,30)-MM 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 in *Figure 21, Page 16*. Each log includes reference numbers formed in the bottom or back of the log. The circled number indicates the order it is placed on the burner system. The remaining numbers indicate the size burner system the logs are designed to fit. For example, the first log for a 24 inch burner system will include a circled 1 and also a 24. The circled 1 indicates this is the first log to be installed. The 24 indicates this log belongs to a 24 inch log set. See *Page 43* for reference numbers detail.

1. Place the rear log (#1) on base assembly as shown in *Figure 22*. Log will fit over right end of burner and rest in middle of U-burner.

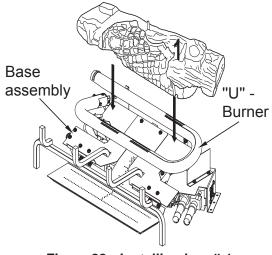


Figure 22 - Installing Log # 1

 Place the middle log (#2) in front of the Uburner and against the edges of the plate as shown in *Figure 23*.

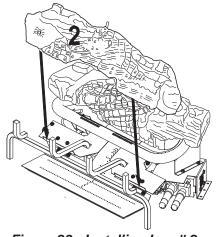


Figure 23 - Installing Log # 2

3. Place the front left log (#3) onto the base assembly between the middle log (#2) and the grate fingers. The back of the front left log (#3) will rest against the front of the middle log (#2). The notch at the end of the front left log (#3) will fit around the grate bar. See *Figure 24*.

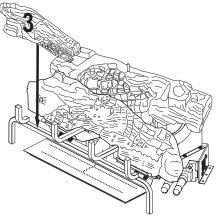


Figure 24 - Installing Log # 3

- 4. Place the front right log (#4) onto the base assembly between the middle log (#2) and the grate. The back of the front right log (#4) will rest against the front of the middle log (#2). The notch in the end of the front right log (#4) will fit around the grate bar. See *Figure 25*.
- 5. Place the left back top log (#5) on top of the rear log (#1). Match the rectangular peg on top of the left side of the rear log (#1) with the rectangular hole on the bottom of the left back top log (#5). Match the metal pin

on the top of the rear log (#1) with the round hole in the bottom of the left back top log (#5). See *Figure 26*.

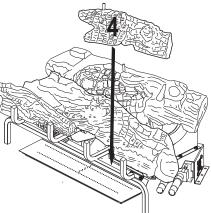
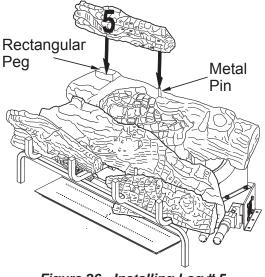


Figure 25 - Installing Log # 4



- Figure 26 Installing Log # 5
- 6. Place the left top forked log (#6) on the top of the middle log (#2). Match the rectangular projection on top of the middle log (#2) with the rectangular hole on the bottom of the left top forked log (#6). Match the metal pin on the top of the middle log (#2) with the round hold in the bottom of the left top forked log (#6). See *Figure 27, Page 17*.
- 7. Place the right rear chunk log (#7) on top of the middle log (#2) and rear log (#1) as shown in *Figure 28, Page 17*. Match the round peg on the top of the rear log (#1) with the round hole on the bottom of the right rear chunk (#7) log and square peg on the top of the middle log (#2) with the square hole on the bottom of the right rear chunk log (#7).

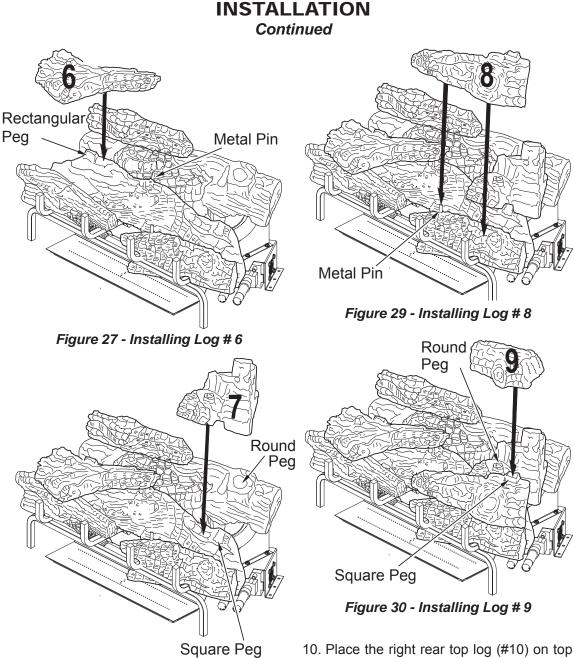


Figure 28 - Installing Log # 7

- Place the front right mid log (#8) on top of the front right log (#4) as shown in *Figure* 29. Match the round metal pin on the top of the front right log (#4) with the round hole on the bottom of the front right mid log (#8).
- 9. Place the top right log (#9) on top of the right rear chunk log (#7) and front right mid log (#8) as shown in *Figure 30*. Match the round peg on the top of the right rear chunk log (#7) with the round hole on the bottom of the top right log (#9) and square peg on the top of the front right mid log (#8) with the square hole on the bottom of the top right log (#9).
- Place the right rear top log (#10) on top of the right rear chunk log (#7) as shown in *Figure 31, Page 18*. Match the rectangular peg on the top of the right rear chunk log (#7) with the rectangular hole on the bottom of the right rear top log (#10).
- 11. Place the left top log (#11) on top of the left back top log (#5) and left top forked log (#6) as shown in *Figure 32, Page 18*. Match the round peg on the top of the left top forked log (#6) with the round hole on the bottom of the top left log (#11) and rectangular peg on the top of the left back top log (#5) with the rectangular hole on the bottom of the top left log (#11).

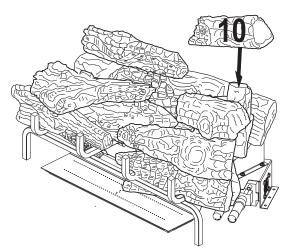


Figure 31 - Installing Log # 10

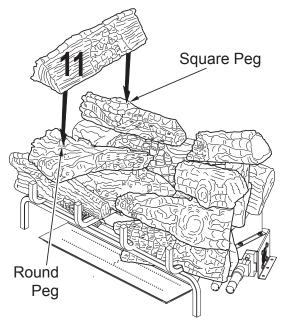


Figure 32 - Installing Log # 11

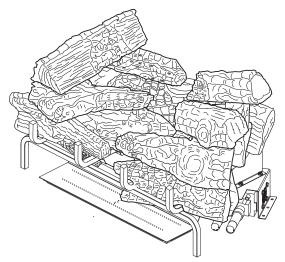


Figure 33 - Final Assembly

LTF(18,24,30)-RS 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. Place bottom ember log on base assembly as shown in *Figure 34*. The log should fit over the left side of the burner and rest in the middle of the U-burner.

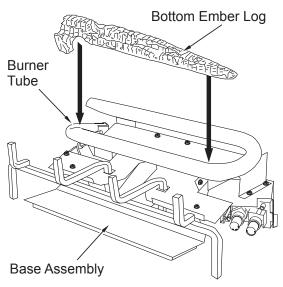


Figure 34 - Installing Bottom Ember Log

2. Place the rear log on the base assembly as shown in *Figure 35*. The rear log has grooves in the bottom which will allow the log to sit on the burner and behind the bottom ember log.

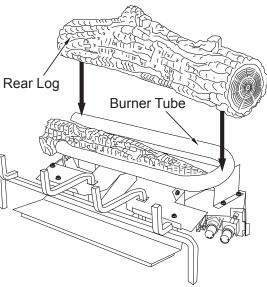


Figure 35 - Installing Rear Log

 Place the right front log onto the base and grate assembly as shown in *Figure 36*. The log has notches in the bottom for the grate.

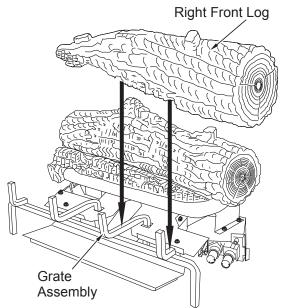


Figure 36 - Installing Right Front Log

 Place the left front log onto the base and the right front log as shown in *Figure 37*. The left front log has a notch on the bottom that will line up with the projection on the right front log.

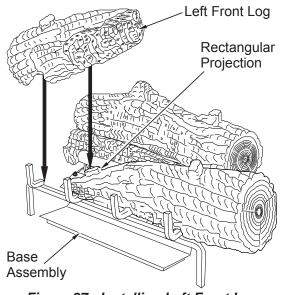


Figure 37 - Installing Left Front Log

5. Place the right crossover log onto the rear log and the right front log as shown in *Figure 38*. The right crossover log has notches in the bottom that will line up with the projections on the rear log and the right front log.

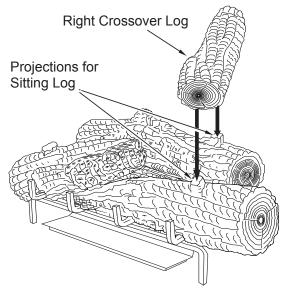


Figure 38 - Installing Right Crossover Log

6. Place the left crossover log onto the rear log and the left front log as shown in *Figure 39*. The left crossover log has notches in the bottom that will line up with the projections on the rear log and the left front log.

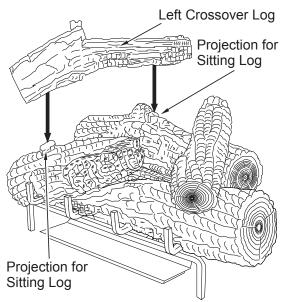


Figure 39 - Installing Left Crossover Log

LTF(18,24,30)-WT 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.

 Place the rear log (#1) on base assembly as shown in *Figure 41*. Log will fit over right end of burner and rest in middle of U-burner (see *Figure 41*).



Figure 40 - Burner Assembly



Figure 41 - Installing Log #1

2. Place the middle log (#2) in front of "U"burner and against the edges of plate as shown in *Figure 42*.

Middle Log

3. Place the front left log (#3) onto the base assembly between the middle log and the grate. The back of the front left log will rest against the front of the middle log. The notch in the end of the front left log will fit around the grate bar. See *Figure 43*.

Front Left Log



Figure 43 - Installing Log #3

4. Place the front right log (#4) onto the base assembly between the middle log and the grate. The back of the front right log will rest against the front of the middle log. The notch in the end of the front right log will fit around the grate bar. See *Figure 44*.

Front Right Log



Figure 44 - Installing Log #4

5. Place the left top back log (#5) on top of the rear log. Match the rectangular projection on top of the left side of the rear log with the rectangular hole on the bottom of the left top back log. Match the metal pin on the top of the rear log with the round hole in the bottom of the left top back log. See *Figure 45*.

Left Top Back Log



Figure 45 - Installing Log # 5

 Place the left top front log (#6) on the top of the middle log and the left top back log. Match the rectangular projection on top of the middle log with the rectangular hole on the bottom of the left top front log. The left top front log will rest on the flat part of the left top back log. See *Figure 46*.

Left Top Front Log



Figure 46 - Installing Log # 6

7. Place the right crossover log (#7) on top of the middle log and rear log as shown in *Figure 47*. Match the round peg on the top of the rear log with the round hole on the bottom of the right crossover log and square peg on the top of the middle log with the square hole on the bottom of the right crossover log. Right Crossover Log



Figure 47 - Installing Log # 7

 Match the round hole on the bottom of the center crossover log (#8) with the metal pin on the top of the right crossover log. Rest the front of the center crossover log on top of the front right log and against the grate. See *Figure 48* for final assembly.

Center Crossover Log



Figure 48 - Installing Log # 8



Figure 49 - Final Assembly (top view)

EMBER PLACEMENT

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

WARNING: Do not operate unit without ember material correctly in place as shown in *Figures 50 and 51*. Do NOT place ember material anywhere else on the unit. Use only ember material supplied with unit. Excessive or incorrectly placed ember material may produce carbon monoxide or soot. If replacement embers are needed, the replacement embers must be purchased from IHP. See *Page 42* for part numbers.

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

1. Two ember materials are supplied with this log set. Platinum Bright Embers give a bright glow appearing as hot coals. Should embers need replacing, see <u>Parts</u>, **Page 42**.

Platinum Bright Ember placement. Add embers to front, flat burner. Gently remove embers from bag. Separate pieces of ember material and place on surface of flat burner just behind horizontal ports as shown in *Figure 50*.

Glowing Embers placement. Place Glowing Embers material on front flat burner in areas away from ports as shown in *Figure 51*.

 Add Volcanic Stone and small decorative logs around base of appliance if desired.
 DO NOT place volcanic stone or additional logs on front burner or on logs.
 Placing any material on unit other than ember material on front burner may result in production of carbon monoxide or soot.



Ember Material

Flat Front Burner

Figure 50 - Platinum Bright Embers

Glowing Embers

Figure 51 - Placement of Glowing Embers (shown with Platinum Bright Embers)

OPERATION

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

WARNING:

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

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

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

FOR YOUR SAFETY READ BEFORE LIGHTING

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

- A. This appliance is equipped with an ignition device which automatically lights the pilot. Do not light pilot by hand.
- B. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS

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

REMOTE CONTROL OPERATION

BASIC CONSTRUCTION

• Touch-Screen LCD and three push buttons will allow input from users.

OPERATION Continued

- 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)

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.

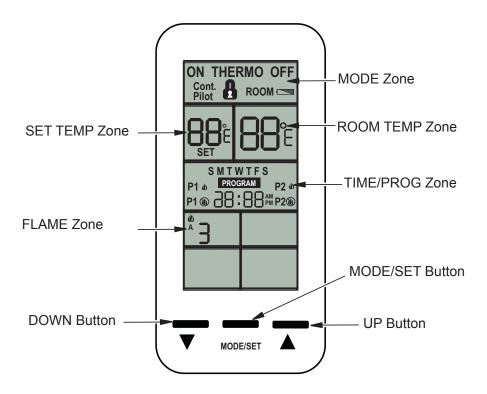


Figure 52 - Touch-Screen LCD and Button Layout

OPERATION

Continued

MODES OF OPERATION

OPERATION MODES:

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

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

MANUAL OFF MODE:

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

MANUAL ON MODE:

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

THERMOSTAT MODE:

- Will cycle flame on and off based on room and set temperatures. Will transmit ON command if SET TEMP (+SWING) is higher than ROOM TEMP and will transmit OFF command if SET TEMP (-SWING) is lower than ROOM TEMP.
- Built-in thermostat will measure room temperature.
- All programming should be written for deg. F and converted to deg. C when selected.
- Temperatures may be displayed in degrees F (factory default) or degrees C. Press the UP and DOWN Buttons simultaneously to change between degrees F and C.
- SET TEMP: While in THERMOSTAT mode, press the UP or DOWN Button to change the SET TEMP (45-90 deg. F, 7-32 deg. C); the new set temperature will automatically be accepted after 2 seconds. The factory default SET TEMP is 68 deg. F.

OPERATION Continued

- SWING Temperature: This model does not allow for SWING temperature adjustment. This model utilizes thermostatic flame modulation that will modulation the main flame based on the difference between room temperature and set temperature (see example below).
 - Important factory SWING TEMPERA-TURE setting is 2 degrees. The thermostatic flame modulation feature will not allow this SWING to be changed.

EXAMPLE:

Set Temperature	Room Temp.	Flame Level
	74F	OFF
	73F	Level 1
Set Temperature (72) -	→ 72F	Level 2

71F (or les	s) Leve	13

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

- SET TEMP Zone: SET TEMP is displayed
- TIME/PROG Zone: Current day indicator and current time is displayed
- FLAME Zone: A Flame Icon and flame setting level number is displayed

Thermostat Disable Feature

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

DAY AND TIME DISPLAY

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

OPERATION Continued

- 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).
- 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).
- 5. LCD Displays when in Day/Time Setup:
 - MODE Zone: Blank
 - ROOM TEMP Zone: Blank
 - SET TEMP Zone: Bank
 - TIME/PROG Zone: Day of Week, or Time of Day will Flash
 - FLAME Zone: Blank

Program Operation

- Touch the TIME/PROG Zone to activate or deactivate Program Operation. Touching the MODE Zone or pressing the MODE/SET Button will also deactivate Program Operation. When Program Operation is deactivated, the transmitter will return to MANUAL OFF Mode.
- Program Operation will cycle fireplace ignition ON and OFF based on time settings (2 weekend periods and 2 weekday periods) and thermostat settings. Press the MODE/SET Button or wait for 15 seconds to advance to each subsequent program setting.
- To enter Program Setup, touch and hold the TIME/PROG Zone for 5 seconds.
- Program OFF LCD Displays:MODE Zone: OFF

- ROOM TEMP Zone: Measured temperature is displayed
- SET TEMP Zone: Blank
- TIME/PROG Zone: Current day indicator, current time, and Program status (P1- OFF or P2-OFF) is displayed
- FLAME Zone: Blank
- Program ON LCD Displays:
- MODE Zone: THERMO and either ON or OFF is displayed
- ROOM TEMP Zone: Measured temperature is displayed
- SET TEMP Zone: SET TEMP is displayed
- TIME/PROG Zone: Current day indicator, current time, and Program status (P1- ON or P2-ON) is displayed
- FLAME Zone: If Thermostat is ON, A Flame Icon and

flame setting level number is displayed.

If Thermostat is OFF, display is blank.

Program Disable Feature

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

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.

Child-Lock Operation

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

Room Temperature Limit

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

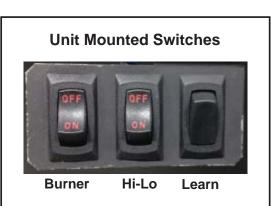
LEARN PROCESS (PAIRING THE REMOTE TO THE CONTROL MODULE)

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.



ON/OFF Switch turns the burner on and off

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

<u>Momentary Switch (Learn)</u> is for programming the remote (see instructions above).

SWITCHING ON

To turn the system on, press the Burner ON/ OFF switch to the ON position *(see figure on Page 29)*. Once the start up process is complete, the main burner and pilot will be lit.

REGULATING THE FLAME LEVEL.

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

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

INSPECTING BURNERS

Check pilot flame pattern and burner flame patterns often.

PILOT FLAME PATTERN

Figure 54 shows a correct pilot flame pattern. *Figure 55* shows an incorrect pilot flame pattern. The incorrect pilot flame is not touching the thermocouple. This will cause the thermocouple to cool. When the thermocouple cools, the appliance will shut down.

If pilot flame pattern is incorrect, as shown in *Figure 55*.

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

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

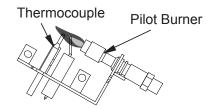


Figure 54 - Correct Pilot Flame Pattern (Your pilot may vary from pilots shown)

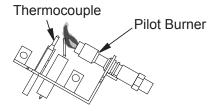


Figure 55 - Incorrect Pilot Flame Pattern (Your pilot may vary from pilots shown)

CLEANING AND MAINTENANCE

WARNING: Turn off appliance and let cool before cleaning.

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

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

BURNER INJECTOR HOLDER AND PILOT AIR INLET HOLE

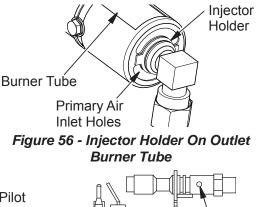
The primary air inlet holes allow the proper amount of air to mix with the gas. This provides a clean burning flame. Keep these holes clear of dust, dirt, lint and pet hair. Clean these air inlet holes prior to each heating season. Blocked air holes will create soot. We recommend that you clean the unit every three months during operation and have 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.
- Inspect burner, pilot and primary air inlet holes on injector holder for dust and dirt (see *Figure 57*).
- 3. Blow air through the ports/slots and holes in the burner.
- 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.
- 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 57*). With unit off, lightly blow air through air inlet hole. You may blow through a drinking straw if compressed air is not available.



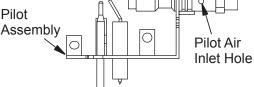


Figure 57 - Pilot Inlet Air Hole (Your pilot may vary from pilot shown)

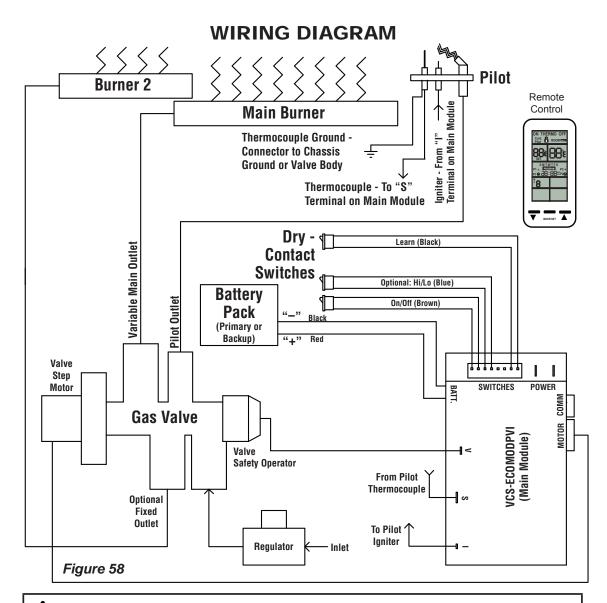
LOGS

- If you remove logs for cleaning, refer to <u>Installing Logs Embers and Volcanic Stone</u>, **Pages 16-23**, to properly replace logs.
- Replace log(s) if broken or chipped (dimesized 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.



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

SPECIFICATIONS

TF18PE

- Rating (Variable): 24,000/28,000 Btu/Hr
- Type Gas: Propane/LP
- Ignition: Electronic
- Manifold Pressure: 8" W.C.
- Inlet Gas Pressure (in. of water): Max - 14" W.C., Min* - 11" W.C.

TF18NE

- Rating (Variable): 24,000/28,000 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.

TF2430PE

- Rating (Variable): 28,000/39,000 Btu/Hr
- Type Gas: Propane/LP
- Ignition: Electronic
- Manifold Pressure: 8" W.C.
- Inlet Gas Pressure (in. of water): Max - 14" W.C., Min* - 11" W.C.

TF2430NE

- 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.

*For purpose of input adjustment

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

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

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

OBSERVED PROBLEM	P	OSSIBLE CAUSE	R	EMEDY
Either the remote or touch pad but- tons are pressed to start the burner ignition sequence and there is no function or response.	1.	Missing or weak batteries at power supply box or remote. Con- trol module may beep 10 times or may not beep at all. LCD display may show "BATTERY ERROR".	1.	Check batteries and replace if needed. (Batteries in the power supply box can be tested with a multimeter at the two connections at the back of the battery housing where the red and black wires are connected. Set the multimeter to DC voltage, initiate the ignition sequence, and observe the volt- age while the system is lighting (under load). The system will not function under 3.8 volts and bat- teries should be replaced if the voltage is under 4.0 volts.)
	2.	Unplugged power supply (battery) box	2.	Plug power supply box to module see <i>Page 15</i> .
	3.	Touch pad not plugged in to mod- ule or plugged in incorrectly	3.	Plug touch pad in module see Page 15, Figure 19 . Check to see it is positioned as shown.
	4.	Control valve wiring harness not plugged in or not in proper position	4.	Check to see that the control valve wiring harness' blue connector is plugged in to the module. Check to see that it is aligned with the mating pins. If any pins are visible, then the connector is not in the correct position. If this is the case, disconnect, align, and reconnect to the module.
	5.	Remote not communicating with control module	5.	The remote communicates with the module periodically. It doesn't communicate with the module continuously to conserve battery power.

Continued

	Continueu	
OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Either the remote or touch pad but- tons are pressed to start the burner ignition sequence and there is no function or response. <i>(Continued</i> <i>from</i> Page 33).	6. LED is blinking	 This indicates the battery power is low. Replace the batteries in the power supply box.
	7. Igniter cable is not connected	 Check the Igniter connection at both the control module and the ODS pilot. Connect if loose.
	8. Igniter cable pinched or wet	8. Free Igniter cable if pinched by any metal or tubing. Keep Igniter cable dry.
	9. Broken Igniter cable.	9. Replace wire harness including Igniter cable.
	10. Igniter electrode positioned wrong.	10. Replace ODS pilot assembly.
	11. Igniter electrode broken.	11. Replace ODS pilot assembly.
	12. Control module sounds 2 cycles of 3 beeps; LCD display may show ROM ERROR	12. Replace control module
	13. Control module sounds 2 cycles of 5 beeps; LCD display may show SUPPORT ERROR	13. Ground cable from control valve wiring harness is not ground- ing properly. Reposition spade terminal so that it makes contact with burner chassis metal or valve body.
	14. Bad reception from remote	 14. Change batteries in remote. Check reception of signal from a shorter distance. If still not working, try changing the chan- nel in the configuration menu. If this does not fix the problem, reset the channel (see Page 26 <i>Channel Selection</i>) and follow the instructions in Pairing on Page 29. Replace remote and control module as a final action.
	15. If LED on touch pad is continu- ously on, the cable is connected the wrong way.	15. Disconnect the touch pad be- tween the long and short cables, turn the short cable with the touch pad over and reconnect.
	16. The control module sounds 2 cycles of 5 beeps. The wiring assembly from the control valve is disconnected or broken.	16. Connect the wiring harness at the control module. Replace the valve assembly if all other cause/remedies fail to correct his problem.

Continued

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
When Igniter button is pressed on the remote or touch pad, the pilot sparks but there is no ignition.	1. Gas supply turned off or equip- ment shutoff valve closed	 Turn on gas supply or open equip- ment shutoff valve.
	2. Air in gas lines.	 Continue turning the burner system ON and OFF. Repeat igniting operation until air is removed. On first time ignitions, air in the lines is common and it is not uncommon to repeat the ignition sequence 10 to 15 times before enough gas is at the ODS pilot for it to light.
	3. Thermocouple circuit between the control valve and the control module is open.	3. Check the thermocouple con- nection at the control valve and also at the control module. The thermocouple connection at the control valve should be hand tight plus 1/4 to 1/2 turn. You should not be able to loosen the thermocouple at the control valve with your hand. Check the thermocouple terminal connection at the control module. If it is loose, remove it with needle nose pliers, using the pliers, slightly close the terminal's opening and reinstall on to the control module.
	4. No gas to the ODS pilot	4. While the pilot is sparking, check for gas flow at the ODS pilot. If flow is present, try to light the pilot with a long reach lighter. If it will not light but the flame is disturbed, air is in the line. Cycle through the ignition sequence to clear the line of air until gas is present. If no flow is present at the gas valve, check to see all shut off valves are open. Verify proper pressure is supplied to the valve. Excessive pressure can lock out the appliance's regulator. Also check to see that the wiring harness from the control valve is properly connected at the control module. The wiring harness connection housing can be identified by it's blue connector housing.
	5. Depleted gas supply (propane/LP only)	5. Contact local propane/LP gas company.
	 Valve cable is disconnected or broken. 	6. Connect valve cable correctly
	7. ODS pilot is clogged	 Clean ODS pilot (see Cleaning and Maintenance , Page 31) or replace ODS pilot assembly.
	8. Gas regulator setting is not correct	8. Replace gas regulator

Continued

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
ODS pilot lights but pilot flame goes out before burners light.	1. Equipment shutoff valve not fully open	 Fully open equipment shutof valve.
	 Missing or weak batteries at power supply box or remote. 	2. Check batteries and replace in needed. (Batteries in the power supply box can be tested with a multimeter at the two connections at the back of the battery housing where the red and black wires are connected. Set the multimeter to DC voltage, initiate the ignition sequence, and observe the volt age while the system is lighting (under load). The system will no function under 3.8 volts and batteries should be replaced if the voltage is under 4.0 volts.).
	 Thermocouple circuit between the ODS pilot and control module is loose or damaged. 	 Check thermocouple termina connection at the control module lf it is loose, remove it with needle nose pliers, using the pliers slightly close the terminal's open- ing and reinstall on to the contro module.
	 4. Pilot flame not touching thermo- couple, which allows thermo- couple to cool, causing pilot flame to go out. This problem could be caused by one or both of the fol- lowing: A) Low gas pressure or B)Dirty or partially clogged ODS pilot. 	 4. A) Contact local natural or propane/LP gas company. B) Clean ODS pilot (see Clean ing and Maintenance, Page 31 or replace ODS pilot assembly.
	5. Thermocouple damaged	5. Replace ODS pilot assembly.
	6. Control valve damaged.	6. Replace control valve
Burner system lights from remote but not from touch pad	1. Touch pad cable disconnected or broken	1. Connect or replace touch pad and cable.
	2. Defective touch pad	2. Replace touch pad
Burner system does not ignite the burner while the remote is in the program mode.	 Program mode does not work if soft start is deactivated. 	1. Activate soft start in the remote.
Burner system shuts off after operat- ing 6 seconds then sounds 5 beeps.	1. Short in touch pad wiring.	 Replace touch pad and wiring harness.
Low battery power in remote.	1. Batteries are weak. LOW BAT- TERY is shown in remote display.	1. Replace batteries in remote.

TROUBLESHOOTING

Continued

	Continucu	
OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Burner system shuts off. Control module sounds 2 cycles of 3 beeps.	1. Faulty control module	1. Replace control module.
Burner system shuts off. Control module sounds 2 cycles of 3 beeps.	1. Remote and control module not communicating properly	 Follow Pairing instructions on Page 29 to re-pair remote to control module.
	2. Faulty control module	2. Replace control module
Burner system shuts off. Control module sounds 20 beeps.	 Loss of communication between control module and remote after 18 minutes. 	 Either the remote is too far from the burner system or the remote needs new batteries. The remote should work within 20 feet of the burner system. If it does not, re- place the batteries in the remote and battery supply box.
Burner system shuts off. Control module sounds 1 long beep.	1. Control module is too hot	 Check to see the fireplace size meets the minimum require- ments. Call technical service.

Burner systems shuts off.	 The SAFETY temperature setting in the remote has shut the burner system off. 	 The remote includes a shut off that is preset at 40C (104F). If the remote is placed in a location that is at or above this temperature it will shut the burner system off. Placing the remote on a mantel may result in this problem. If it occurs, relocate the remote to a cooler location.
Burner system lights or shuts off without touching the remote.	 More than one burner system is present and operating on the same frequency. 	 Follow Pairing instructions on Page 29 to re-pair remote to control module.

TROUBLESHOOTING

Continued

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY		
Burners do not light after ODS/ pilot is lit	1. Inlet gas pressure is too low	1. Contact local natural or propane/ LP gas company		
	2. Burner orifice(s) clogged	2. Clean burner(s) (see <u>Cleaning</u> <u>and Maintenance</u> , Page 31) or replace burner orifice(s)		
	3. Mislocated crossover tube	3. Contact qualified service person		
Delayed ignition of one or both burners	1. Manifold pressure is too low	1. Contact local natural or propane/ LP gas company		
	2. Burner orifice(s) clogged	2. Clean burner(s) (see <u>Cleaning</u> <u>and Maintenance</u> , Page 31) or replace burner orifice(s)		
	3. Mislocated crossover tube	3. Contact qualified service person		
Burner backfiring during combustion	1. Burner orifice is clogged or dam- aged	 Clean burner (see <u>Cleaning and</u> <u>Maintenance</u>, Page 31) or replace burner orifice 		
	2. Damaged burner	2. Replace damaged burner		
	3. Gas regulator defective	3. Replace gas regulator		
Yellow flame in middle burner during burner combustion	1. Not enough air	 Check burner(s) for dirt and debris. If found, clean burner(s) (see <u>Clean- ing and Maintenance</u>, Page 31) 		
	2. Gas regulator defective	2. Replace gas regulator		
Slight smoke or odor during initial operation	1. Residues from manufacturing processes and logs curing	1. Problem will stop after a few hours of operation		
Appliance produces a whistling noise when burners are lit	1. Set the unit to HI by using the remote when burners are cold	1. Set the unit to LO by using the remote and let warm up for a minute		
	2. Air in gas line	 Operate burners until air is re- moved from line. Have gas line checked by local natural or pro- pane/LP gas company 		
	3. Air passageways on appliance blocked	3. Observe minimum installation clearances (see Pages 9-11)		
	 Dirty or partially clogged burner orifice(s) 	 Clean burners (see <u>Cleaning and</u> <u>Maintenance</u>, Page 31) or replace burner orifice(s) 		
White powder residue forming within burner box or on adjacent walls or furniture	 When heated, vapors from furni- ture polish, wax, carpet cleaners, etc. may turn into white powder residue 	1. Turn appliance off when using fur- niture polish, wax, carpet cleaners or similar products		
Moisture/condensation noticed on windows	1. Not enough combustion/ventila- tion air	 Refer to <u>Air for Combustion and</u> <u>Ventilation</u> requirements (Page 6) 		
Appliance produces a clicking/ ticking noise just after burners are lit or shut off	1. Metal expanding while heating or contracting while cooling	1. This is normal with most ap- pliances. If noise is excessive, contact qualified service person		

TROUBLESHOOTING

Continued

WARNING: If you smell gas

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

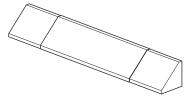
IMPORTANT: Operating appliance where impurities in air exist may create odors. Cleaning supplies, paint, paint remover, cigarette smoke, cements and glues, new carpet or textiles, etc., create fumes. These fumes may mix with combustion air and create odors. These odors will disappear over time.

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Appliance produces unwanted odors	1. Appliance burning vapors from paint, hair spray, glues, cleaners, chemicals, new carpet, etc. (See <i>IMPORTANT</i> statement above)	 Open window to ventilate room. Stop using odor causing products while appliance is running
	2. Low fuel supply (propane/LP only)	 Refill supply tank (propane/LP only)
	3. Gas leak. See Warning state- ment at top of page	 Locate and correct all leaks (see <u>Checking Gas Connections</u>, Page 14)
Appliance shuts off in use (ODS operates)	1. Not enough fresh air is available	 Open window and/or door for ventilation
	2. Low line pressure	 Contact local natural or propane/ LP gas company
	3. ODS/pilot is partially clogged	3. Clean ODS/pilot (see <u>Cleaning</u> <u>and Maintenance</u> , Page 31)
Gas odor even when control knob is in OFF position	1. Gas leak. See Warning state- ment at top of page	 Locate and correct all leaks (see <u>Checking Gas Connections</u>, Page 14)
	2. Control valve or gas control defec- tive	2. Replace control valve or gas control
Gas odor during combustion	1. Foreign matter between control valve and burner	1. Take apart gas tubing and remove foreign matter
	2. Gas leak. See Warning state- ment at top of page	 Locate and correct all leaks (see <u>Checking Gas Connections</u>, Page 14)
Log set cycles to pilot, but room tem- perature drops to a lower than ideal level before log set comes back on	1. Optional Hand-held remote con- trol is too close to appliance	 Move hand-held remote control unit farther away from the appli- ance

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.



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



Decorative Ash Bed / Control Cover Kit (Six Pack) Cat. No. F1759, Model CDABKA-6

Decorative Ash Bed / Control Cover Kit Cat. No. F0246, Model CDABKA



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



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



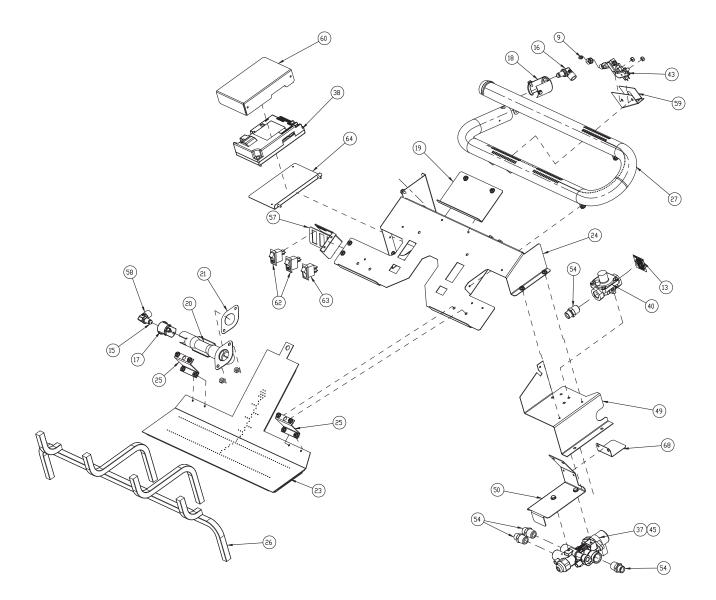
DECORATIVE PINE CONES - SET OF 3 Cat. No. F0247, Model GA9650A

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)

REMOTE MODELS TF18NE, TF18PE, TF2430NE, TF2430PE

Cat. No.	Model
F0023	TF18NE
F0024	TF18PE
F0029	TF2430NE
F0030	TF2430PE



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.

TF18NE, TF18PE, TF2430NE AND TF2430PE MODELS This list contains replaceable parts used in your appliance. When ordering parts, follow the instructions listed under <u>Replacement Parts</u> on **Page 45** of this manual. KEV

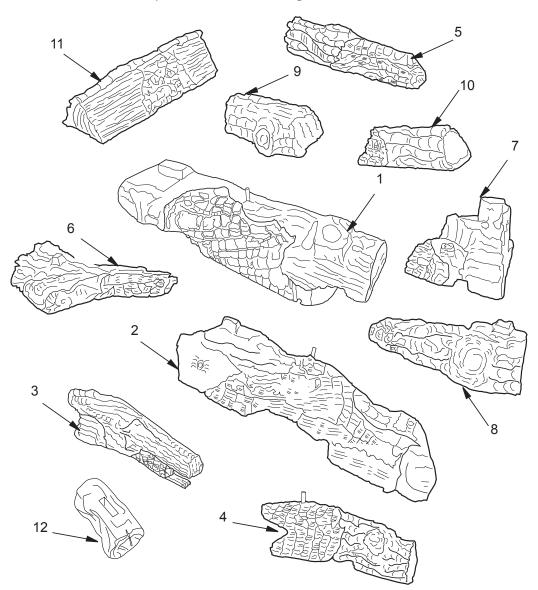
NO. PART NO. DESCRIPTION 18NE 18PE 2430NE 2 9 F2932 Tube, Pilot • </th <th>2430PE</th> <th>QTY. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</th>	2430PE	QTY. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
15 J8079 Orifice, (0.028) #70 (PAN) • 15 J3609 Orifice, (0.0625) 1/16" (PAN) • 15 F2931 Orifice, (0.047) 1.2mm (PAN) • 16 J3606 Orifice, (0.1015) 2.58mm • 16 J3615 Orifice, (0.070) #50 (Rear) • 16 F3321 Orifice, (0.0591) 1.50mm (Rear) •	•	1 1 1 1 1 1 1		
15 J3609 Orifice, (0.0625) 1/16" (PAN) • 15 F2931 Orifice, (0.047) 1.2mm (PAN) • 16 J3606 Orifice, (0.1015) 2.58mm • 16 J3615 Orifice, (0.070) #50 (Rear) • 16 F3321 Orifice, (0.0591) 1.50mm (Rear) •	•	1 1 1 1 1 1		
15 F2931 Orifice, (0.047) 1.2mm (PAN) • 16 J3606 Orifice, (0.1015) 2.58mm • 16 J3615 Orifice, (0.070) #50 (Rear) • • 16 F3321 Orifice, (0.0591) 1.50mm (Rear) •	•	1 1 1 1 1		
16 J3606 Orifice, (0.1015) 2.58mm • 16 J3615 Orifice, (0.070) #50 (Rear) • 16 F3321 Orifice, (0.0591) 1.50mm (Rear) •	•	1 1 1 1		
16 J3615 Orifice, (0.070) #50 (Rear) 16 F3321 Orifice, (0.0591) 1.50mm (Rear)	•	1 1 1		
16 F3321 Orifice, (0.0591) 1.50mm (Rear) •	•	1		
	•	1		
16 J3620 Orifice, (0.082) #45 (Rear) •	•			
	•	1		
17J4886Shutter, Air (Pan Burner)•••	•			
18 J5199 Shutter, Air •		1		
18 J5200 Shutter, Air • •		1		
19 J8073 Bracket, Log Support Painted • • •	•	1		
20 J5416 Tube, Venturi • • •	•	1		
21 J5456 Gasket, Burner • •	•	1		
23 J6145 Assy, Pan Burner TF18 • •		1		
23 J6146 Assy, Pan Burner TF2430 •	•	1		
25 J6147 Bracket, Front Burner • •	•	2		
26 J6148 Asm, 18" Grate • •		1		
26 J6149 Asm, 24" & 30" Grate •	•	1		
27 J6166 Burner, 24" Dual Yellow •		1		
27 K2030 Burner, 24" Dual Yellow	•	1		
27 J6167 Burner, 18" Dual •		1		
27 F2941 Burner, 18" Dual •		1		
37 J7936 Valve, Electronic Copreci • • •	•	1		
38 F2960 Module, Ecoflow ODS RF Control • • •	•	1		
39 F2958 Battery Pack C - Ecoflow • • •	•	1		
40 J7603 Regulator, Gas • •		1		
40 J3653 Regulator, Gas ·	•	1		
43 F2955 Pilot, NG Electric Copreci 24" • •		1		
43 F2956 Pilot, LP Electric Copreci 24" •	•	1		
48 J8076 Leg, Support • • •	•	1		
49 F2951 Bracket, Valve • •	•	1		
54 J3562 Connector, Male 3/8 NPTF To 3/8 Tube • •	•	4		
58 J6127 Orifice Holder, 90° Elbow • •	•	1		
59 J6508 Shield, Pilot • • •	•	1		
60 F3195 Shield, Control Module Heat • •	•	1		
61 F2959 Battery, "C" Size • • •				
62 27K30 Switch, Rocker, Burner On/Off • • •	•	1		
62 F3456 Switch, Rocker, Burner Hi/Lo • • •	•	1		
63 F2964 Switch, Momentary • • •	•	1		
64 F3194 Bracket, Module • • •	•	1		
68 F3196 Shield, Valve Heat • •	•	1		

PARTS AVAILABLE, NOT SHOWN

J3658	Warning Plate	•	•	•	•	1
J3846	Lighting Instructions	•	•	•	•	1
J3664	Caution Decal	•	•	•	•	1
J3689	Hardware Kit	•	•	•	•	1
80L42	Volcanic Stone, FDVS	•	•	•	•	1
J5519	Flextube with Fitting	•	•	•	•	1
J6208	Glowing Embers (rockwool)	•	•	•	•	1
J6207	Platinum Bright Embers Kit	•	•	•	•	1
J6585	Plate Lighting Instructions	•	•	•	•	1
F2957	ODS Spark Wire	•	•	•	•	1
J6599	Flex Line, 12" 3/8 with 2 male Nuts	•	•			2
J6599	Flex Line, 12" 3/8 with 2 male Nuts			•	•	1
J8083	Flex Line, 14" 3/8 with 2 male Nuts			•	•	1
J8084	Flex Line, 22" 3/8 with 2 male Nuts	•	•	•	•	1
F2950	Remote Control ODS Touchscreen	•	•	•	•	1
F2949	ODS Remote Wiring Harness	•	•	•	•	1
J7933	V-Wire	•	•	•	•	1

LOG SET MODELS: LTF18MM, LTF24MM, LTF30MM (MASSIVE MIXED OAK™)

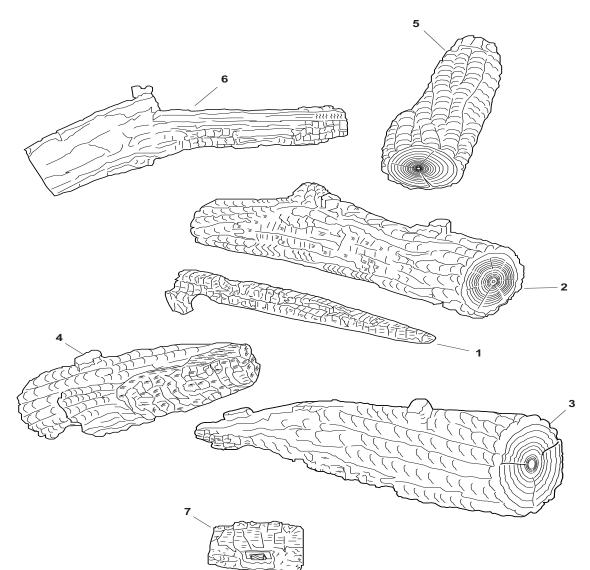
This list contains replaceable parts used in your appliance. When ordering parts, follow the instructions listed under <u>*Replacement Parts*</u> on *Page 45* of this manual.



		PART NUMBERS	6		
KEY NO.	LTF18MM	LTF24MM	LTF30MM	DESCRIPTION	QTY
1	J6405	J6412	J6420	Rear Log #1	1
2	J8178	J6509	J6513	Middle Log #2	1
3	J6407	J6414	J7585	Front Left Log #3	1
4	J8179	J6510	J8219	Front Right Log #4	1
5	J8220	J6511	J6511	Left Top Back Log #5	1
6	J8221	J6512	J8222	Left Top Forked Log #6	1
7	J8223	J8224	J8225	Right Rear Chunk Log #7	1
8	J8226	J8227	J8227	Front Right Middle Log #8	1
9	J8228	J8229	J6514	Top Right Log #9	1
10	J8230	K2015	K2015	Right Rear Top Log #10	1
11	J8231	J8232	J8233	Left Top Log #11	1
12	J6496	J6496	J6496	Switch Logs	1

LOG SET MODELS: LTF18-RS, LTF24-RS, LTF30-RS (RUGGED STACK™)

This list contains replaceable parts used in your appliance. When ordering parts, follow the instructions listed under <u>Replacement Parts</u> on **Page 45** of this manual.

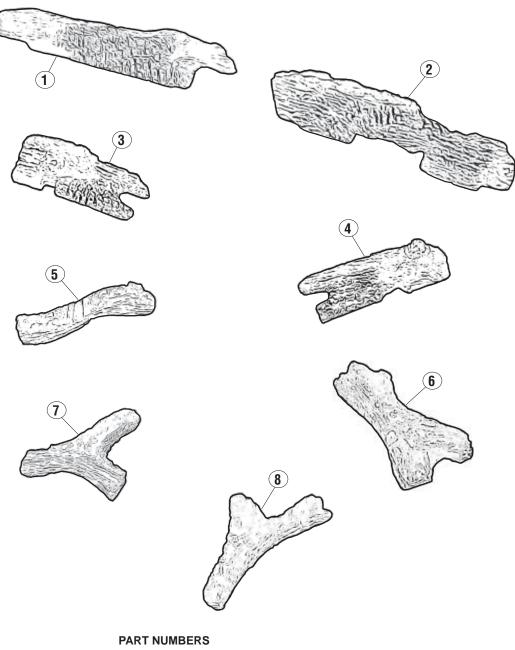


PART	NUMBER	S
1		1

KEY NO.	LTF18-RS	LTF24-RS	LTF30-RS	DESCRIPTION	QTY
1	J6661	J6666	J6666	Bottom Ember Log #1	1
2	J6662	J6667	J6667	Rear Log #2	1
3	J6660	J6665	J6670	Right Front Log #3	1
4	J6659	J7380	J6669	Left Front Log #4	1
5	J6664	J8102	J8102	Right Crossover Log #5	1
6	J6663	J8103	J8103	Left Crossover Log #6	1
7	J5669	J5669	J5669	Switch Log	1

LOG SET MODELS: LTF18WT, LTF24WT, LTF30WT (WILD TIMBER™)

This list contains replaceable parts used in your appliance. When ordering parts, follow the instructions listed under <u>Replacement Parts</u> on **Page 45** of this manual.



KEY	PARTNOMBERS							
NO.	LTF18WT	ID #	LTF24WT	ID #	LTF30WT	ID #	DESCRIPTION	QTY
								1
1	F2817	WT-12	F2818	WT-04	F2819	WT-20	Back Bottom Log	1
2	F2820	WT-11	F2821	WT-03	F2822	WT-19	Middle Bottom Log	1
3	F2823	WT-09	F2824	WT-01	F2825	WT-17	Front Left Bottom Log	1
4	F2826	WT-10	F2827	WT-02	F2828	WT-18	Front Right Bottom Log	1
5	F2829	WT-14	F2830	WT-06	F2830	WT-06	Back Left Top Log	1
6	F2831	WT-16	F2832	WT-08	F2833	WT-22	Far Right Top Log	1
7	F2834	WT-13	F2835	WT-05	F2836	WT-21	Left "Y" Top Log	1
8	F2837	WT-15	F2838	WT-07	F2838	WT-07	Front Top Log	1

REPLACEMENT PARTS

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

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

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

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.

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.

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.

Innovative Hearth Products Superior[®] Brand Gas Log Set Limited Three Year Warranty

THE WARRANTY

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

COVERAGE COMMENCEMENT DATE

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

EXCLUSIONS AND LIMITATIONS

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

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

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

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

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

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

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

LIMITATION ON LIABILITY

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

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

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

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

INVESTIGATION OF CLAIMS AGAINST WARRANTY

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

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

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

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

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



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