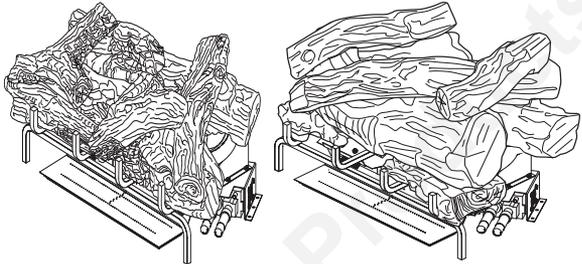




FMI PRODUCTS, LLC

**UNVENTED (VENT-FREE) GAS LOG HEATER
OWNER'S OPERATION AND INSTALLATION MANUAL**



NATIONAL
FIREPLACE
INSTITUTE



CERTIFIED
www.nficertified.org

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

**REMOTE LOG SET AND BURNER
SYSTEM MODELS TF18NE, TF18PE,
TF2430NE AND TF2430PE**

TF MODELS MAY BE USED WITH THE FOLLOWING LOGS (SEE REFERENCE CHART ON PAGE 18 FOR MORE INFORMATION) LTF18-MO, LTF24-MO, LTF30-MO, LTF18-MM, LTF24-MM, LTF30-MM, LTF18-SO, LTF24-SO, LTF30-SO, LTF18-RS, LTF24-RS AND LTF30-RS

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

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

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

For more information, visit www.fmiproducts.com

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SAFETY

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

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

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

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

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

SAFETY

Continued

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

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

⚠ DANGER: Carbon monoxide poisoning may lead to death!

Carbon Monoxide Poisoning: Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness or nausea. If you have these signs, the fireplace may not be working properly. **Get fresh air at once!** Have fireplace serviced. Some people are more affected by carbon monoxide than others. These include pregnant women, people with heart or lung disease or anemia, those under the influence of alcohol and those at high altitudes.

Natural and Propane/LP gases are odorless. An odor-making agent is added to these gases. The odor helps you detect a gas leak. However, the odor added to the gas can fade. Gas may be present even though no odor exists.

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

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

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

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

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

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

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

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

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

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

SAFETY

Continued

1. This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases.
2. Do not place propane/LP supply tank(s) inside any structure. Locate propane/LP supply tank(s) outdoors (propane/LP units only).
3. If you smell gas
 - shut off gas supply
 - do not try to light any appliance
 - do not touch any electrical switch; do not use any phone in your building
 - immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions
 - if you cannot reach your gas supplier, call the fire department
4. This heater shall not be installed in a bedroom or bathroom.
5. Before installing in a solid fuel burning fireplace, the chimney flue and firebox must be cleaned of soot, creosote, ashes and loose paint by a qualified chimney cleaner. Creosote will ignite if highly heated. A dirty chimney flue may create and distribute soot within the house. Inspect chimney flue for damage. If damaged, repair flue and firebox before operating heater.
6. Do not burn solid-fuel in a masonry or UL127 factory-built fireplace in which a vent-free room heater is installed.
7. If fireplace has glass doors, never operate this heater with glass doors closed. If you operate heater with doors closed, heat buildup inside fireplace will cause glass to burst. Make sure there are no obstructions across openings of fireplace.
8. To prevent the creation of soot, follow the instructions in *Cleaning and Maintenance*, page 34.
9. Before using furniture polish, wax, carpet cleaner or similar products, turn heater off. If heated, the vapors from these products may create a white powder residue within burner box or on adjacent walls and furniture.
10. This heater needs fresh, outside air ventilation to run properly. This heater has an Oxygen Depletion Sensing (ODS) safety shutoff system. The ODS shuts down the heater if enough fresh air is not available. See *Air for Combustion and Ventilation*, page 6. If heater keeps shutting off, see *Troubleshooting*, page 36.
11. Do not run heater
 - where flammable liquids or vapors are used or stored
 - under dusty conditions
12. Do not use this heater to cook food or burn paper or other objects.
13. Do not use heater if any part has been exposed to or under water. Immediately call a qualified service technician to inspect the room heater and to replace any part of the control system and any gas control which has been under water.
14. Do not operate heater if any log is broken. Do not operate heater if a log is chipped (dime-sized or larger).
15. Turn heater off and let cool before servicing, installing or repairing. Only a qualified service person should install, service or repair heater.
16. Make sure the remote is set to the OFF position when you are away from home for long periods of time.
17. Operating heater above elevations of 4,500 feet may cause pilot outage.
18. To prevent performance problems, do not use propane/LP fuel tank of less than 100 lb. capacity (propane/LP units only).
19. Provide adequate clearances around air openings.

PRODUCT IDENTIFICATION

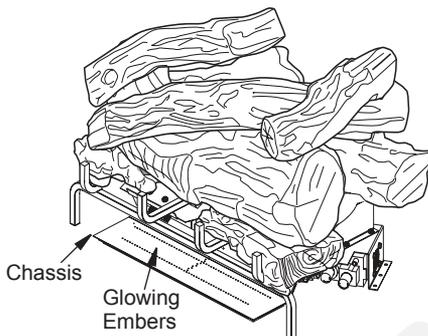


Figure 1 - Product Identification

LOCAL CODES

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

*Available from:

American National Standards Institute, Inc.
1430 Broadway
New York, NY 10018

National Fire Protection Association, Inc.
Batterymarch Park
Quincy, MA 02269

State of Massachusetts: The installation must be made by a licensed plumber or gas fitter in the Commonwealth of Massachusetts.

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

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

UNPACKING

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

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

Note: Do not pick up heater base assembly by burners. This could damage heater. Always handle base assembly by grate.

2. Remove all protective packaging applied to logs and heater for shipment.
3. Check heater for any shipping damage. If heater is damaged call FMI PRODUCTS, LLC at 1-866-328-4537 for replacement parts before returning to dealer.

PRODUCT FEATURES

OPERATION

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

SAFETY DEVICE

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

ELECTRONIC IGNITION SYSTEM

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

AIR FOR COMBUSTION AND VENTILATION

⚠ WARNING: This heater shall not be installed in a room or space unless the required volume of indoor combustion air is provided by the method described in the *National Fuel Gas Code, ANSI Z223.1/NFPA 54, the International Fuel Gas Code, or applicable local codes. Read the following instructions to insure proper fresh air for this and other fuel-burning appliances in your home.*

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

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

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

PROVIDING ADEQUATE VENTILATION

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

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

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

The information on pages 6 through 8 will help you classify your space and provide adequate ventilation.

Unusually Tight Construction

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

Unusually tight construction is defined as construction where:

- a. walls and ceilings exposed to the outside atmosphere have a continuous water vapor retarder with a rating of one perm (6×10^{-11} kg per pa-sec- m^2) or less with openings gasketed or sealed and
- b. weather stripping has been added on openable windows and doors and
- c. caulking or sealants are applied to areas such as joints around window and door frames, between sole plates and floors, between wall-ceiling joints, between wall panels, at penetrations for plumbing, electrical and gas lines and at other openings.

If your home meets all of the three criteria above, you must provide additional fresh air. See *Ventilation Air From Outdoors*, page 8.

If your home does not meet all of the three criteria above, proceed to *Determining Fresh-Air Flow For Heater Location*, page 7.

AIR FOR COMBUSTION AND VENTILATION

Continued

Confined and Unconfined Space

The *National Fuel Gas Code, ANSI Z223.1/NFPA 54* defines a confined space as a space whose volume is less than 50 cubic feet per 1,000 Btu/hr (4.8 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.

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

DETERMINING FRESH-AIR FLOW FOR HEATER LOCATION

Determining if You Have a Confined or Unconfined Space

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

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

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

Length x Width x Height = _____ cu. ft.
(volume of space)

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

If additional ventilation to adjoining room is supplied with grills or openings, add the volume of these rooms to the total volume of the space.

2. Multiply the space volume by 20 to determine the maximum Btu/Hr the space can support.

_____ (volume of space) x 20 = (Maximum Btu/Hr the space can support)

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

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

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

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

Example:

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

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

_____ Btu/Hr (maximum the space can support)

_____ Btu/Hr (actual amount used)

Example: 51,200 Btu/Hr (maximum the space can support)

73,000 Btu/Hr (actual amount of Btu/Hr used)

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

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

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

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

AIR FOR COMBUSTION AND VENTILATION

Continued

VENTILATION AIR

Ventilation Air From Inside Building

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

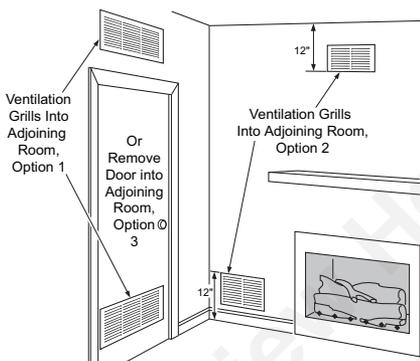


Figure 2 - Ventilation Air from Inside Building

Ventilation Air From Outdoors

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

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

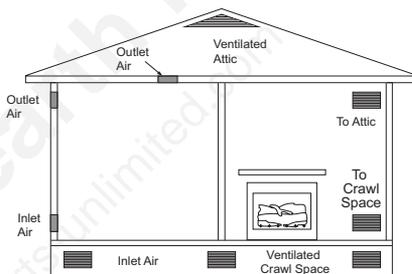


Figure 3 - Ventilation Air from Outdoors

INSTALLATION

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

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

WARNING: Seal any fresh air vents or ash clean-out doors located on floor or wall of fire-place. 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 heater.

⚠ WARNING: Never install the heater

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

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

IMPORTANT: Vent-free heaters add moisture to the air. Although this is beneficial, installing heater in rooms without enough ventilation air may cause mildew to form from too much moisture. See [Air for Combustion and Ventilation](#), page 6.

CHECK GAS TYPE

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

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

INSTALLATION AND CLEARANCES FOR VENT-FREE OPERATION

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

MINIMUM FIREPLACE CLEARANCE TO COMBUSTIBLE MATERIALS

Side Wall 16", Ceiling 42"
Floor 5", Front: 36"

LOG SIZING REQUIREMENTS

Log Size	Minimum Firebox Size			
	Height	Depth	Front Width	Rear* 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.

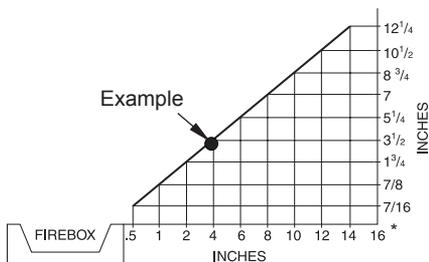
Example: The face of a mantel, bookshelf, etc. is made of combustible material and protrudes 3 1/2" from the wall. This combustible material must be 4" from the side of the fireplace cabinet (see Figure 4, page 10).

INSTALLATION

Continued

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".



*Minimum 16" from Side Wall

Figure 4 - Minimum Clearance for Combustible to Wall

Minimum Noncombustible Material Clearances

If Not Using Mantel

Note: If using a mantel proceed to *If Using Mantel*. If not using a mantel, follow these instructions.

You must have noncombustible material(s) above the fireplace opening. Noncombustible materials (such as slate, marble, tile, etc.) must be at least 1/2" thick. With sheet metal, you must have noncombustible material behind it. Noncombustible material must extend at least 8" up (for all models). If noncombustible material is less than 12", you must install the fireplace hood accessory (24" and 30" Models Only). See Figure 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 or GA6053 see <i>Accessories</i> , page 43). 18" Model: Noncombustible material OK.
Less than 8"	Noncombustible material must be extended to at least 8". See <i>Between 8" and 12"</i> , above. If you cannot extend material, you must operate heater with flue damper open.

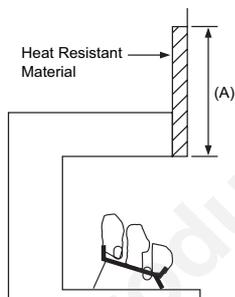


Figure 5 - Heat Resistant Material (Slate, Marble, Tile, etc.) Above Fireplace

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 Figure 5 and Figures 6 and 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).

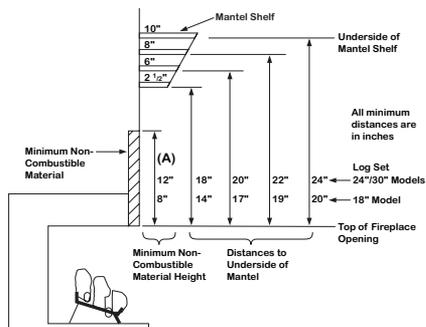


Figure 6 - Minimum Mantel Clearances Without Using Hood

INSTALLATION

Continued

IMPORTANT: Make sure the heater burners are level.

Installation Items Needed

- hardware package (provided with heater)
- 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

Note: Install optional MRC Series receiver and hand-held remote control kit (see [Accessories](#), page 43) before installing gas log heater. See installation instructions included with the kit.

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

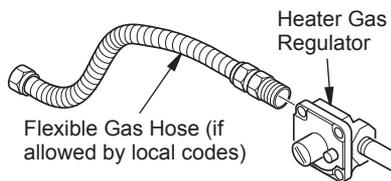


Figure 10 - Attaching Flexible Gas Hose to Heater Gas Regulator

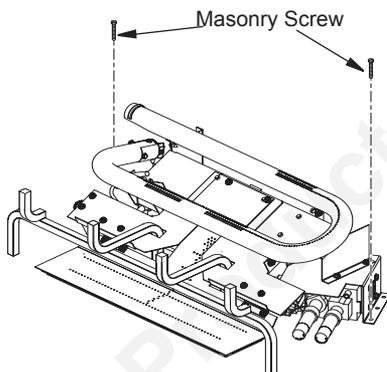


Figure 11 - Attaching Base to Fireplace Floor

CONNECTING TO GAS SUPPLY

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

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

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

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

INSTALLATION

Continued

Installation Items Needed

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

- external regulator (supplied by installer)
- piping (check local codes)
- sealant (resistant to propane/LP gas)
- equipment shutoff valve *
- test gauge connection *
- sediment trap
- tee joint
- pipe wrench
- approved flexible gas line with gas connector (if allowed by local codes) (not provided)

* An equipment shutoff valve with 1/8" NPT tap is an acceptable alternative to test gauge connection. Purchase the optional equipment shutoff valve from your dealer.

For propane/LP units, the installer must supply an external regulator. The external regulator will reduce incoming gas pressure. You must reduce incoming gas pressure to between 11" and 14" of water. If you do not reduce incoming gas pressure, heater regulator damage could occur. Install external regulator with the vent pointing down as shown in Figure 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 heater. If pipe is too small, undue loss of volume will occur.

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

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

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

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

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

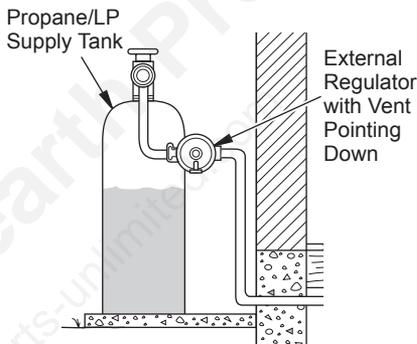


Figure 12 - External Regulator With Vent Pointing Down

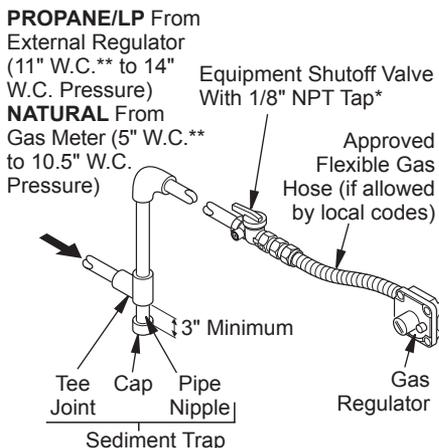


Figure 13 - Gas Connection

* Purchase the optional equipment shutoff valve from your dealer.

**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 heater. Locate sediment trap where trapped matter is not likely to freeze. A sediment trap traps moisture and contaminants. This keeps them from going into heater controls. If sediment trap is not installed or is installed wrong, heater may not run properly.

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

CHECKING GAS CONNECTIONS

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

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

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

PRESSURE TESTING GAS SUPPLY PIPING SYSTEM

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

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

3. Pressurize supply piping system by either opening propane/LP supply tank valve for propane/LP gas or opening main gas valve located on or near gas meter for natural gas or using compressed air.
4. Check all joints of gas supply piping system. Apply noncorrosive leak detection fluid to all joints. Bubbles forming show a leak.
5. Correct all leaks at once.
6. Reconnect heater and equipment shutoff valve to gas supply. Check reconnected fittings for leaks.

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

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

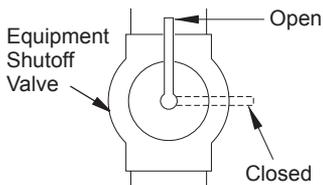


Figure 14 - Equipment Shutoff Valve

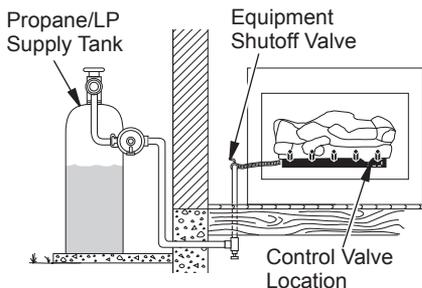


Figure 15 - Checking Gas Joints (Propane/LP Only)

INSTALLATION

Continued

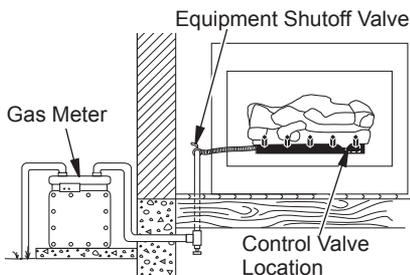


Figure 16 - Checking Gas Joints (Natural Gas Only)

PRESSURE TESTING HEATER GAS CONNECTIONS

1. Open equipment shutoff valve (see Figure 14, page 14).
2. Open main gas valve located on or near gas meter for natural gas or open propane/LP supply tank valve.
3. Make sure control knob of heater is in the OFF position.
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). Apply noncorrosive leak detection fluid to all joints. Bubbles forming show a leak.
5. Correct all leaks at once.
6. Light heater (see [Operation](#), page 28). Check all other internal joints for leaks.
7. Turn off heater (see [To Turn Off Gas to Appliance](#), page 28).

POWER SUPPLY AND BATTERY INSTALLATION

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

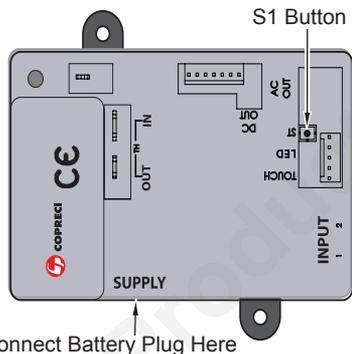


Figure 17 - Control Module

TOUCH PAD INSTALLATION

Locate the touch pad wire harness and the touch pad control (see Figure 18). They are shipped from the factory in the clear plastic bag with your owner's manual. Connect the black plastic connectors together as shown in Figure 19, page 16. Connect the remaining end with the white plastic connector to the control module in the socket marked TOUCH LED (see Figure 20, page 16).

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

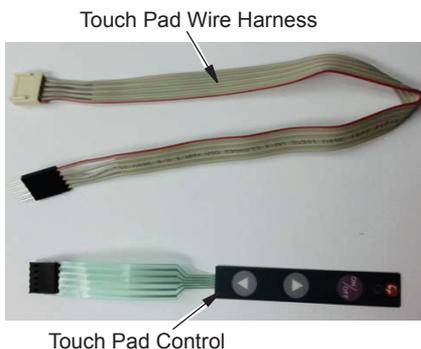


Figure 18 - Touch Pad Wire Harness and Touch Pad Control

INSTALLATION

Continued

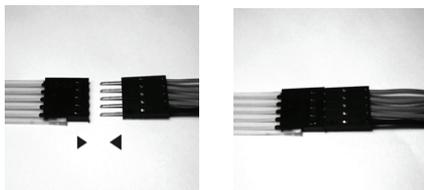


Figure 19 - Touch Pad Control Cable



Figure 20 - Connecting end of Touch Pad Cable

RE-PAIRING

IMPORTANT! This appliance is shipped with the remote control and control module (receiver) paired. However, if more than one Copreci brand electronic ignition system is to be used within a home or showroom, all but one appliance must have the remote control and control module re-paired in order for each appliance to operate on a unique frequency. For multiple appliances, on all but one follow the instructions under Re-Pairing on page 16 before moving to Installing Logs on page 18. For single appliance installations, skip the RE-PARING section and proceed to Installing Logs.

It is helpful to have a flashlight so you can see the connections as described below. Before proceeding, locate the yellow/orange S1 button on the control module. You will need to access this button during the re-pairing procedure and only have 20 seconds to press and release it. A small nail or ink pen will also be useful to press this button (see Figure 17, page 15).

Press and hold the "Off" button  on the remote control for 40 seconds. During this time, the screen will go blank, this is normal. See Figure 21.

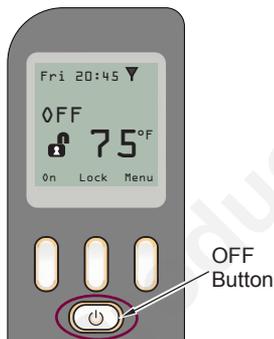


Figure 21 - Main Screen

After 40 seconds, the configuration menu appears (see Figure 22). With "Pairing" highlighted press the middle "select" button. "Off" becomes highlighted (see Figures 22 and 23).

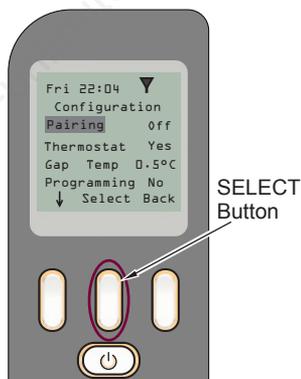


Figure 22 - Configuration Menu



Figure 23 - Off Highlighted

INSTALLATION

Continued

IMPORTANT! Be prepared to press the S1 button as noted in the beginning of this section. After the next step, you have only 20 seconds to push (press and release) the S1 button (yellow/orange) in the control module (see Figure 17, page 15).

NOTE: The control module may be turned differently than shown in this figure. Look for the matching text on the control module to help locate the small yellow / orange S1.

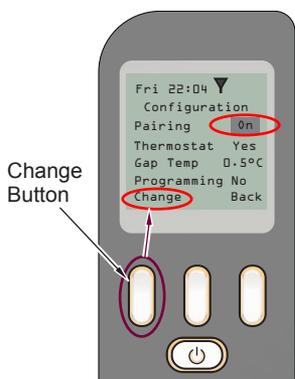


Figure 24 - Change OFF to ON

Press the left "Change" button and "Off" becomes "On" (see Figure 24, above). Press the S1 button to re-pair the remote to the control module. Once this operation is done, you will hear one beep in the control module and the configuration menu will show signal bars: **T...** (see Figure 25). If you do not hear the beep and then see signal bars within 30 seconds of hearing the beep, then the repairing process was not completed successfully. If this occurs, remove the batteries from the remote control, wait 3 minutes, and restart the re-pairing process. If you see signal bars, then the remote control has paired properly. Go to the next step.



Figure 25 - Signal Bars

Press the "Back" button once to return the highlighted selection to "Pairing". Press the "Middle" button and release. The indication on the "Pairing" will become "Off" (see Figure 26). The re-pairing is over. To return to the main screen, press the "Back" button until you get to the main screen. The main screen is shown in Figure 21, page 16.

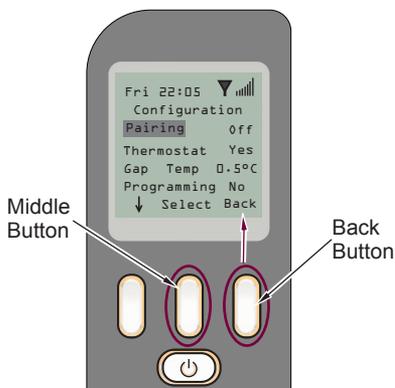


Figure 26 - Back and Middle Buttons

INSTALLATION

Continued

INSTALLING LOGS, EMBERS AND LAVA ROCK

⚠ 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.

⚠ 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.

LTF(18, 24, 30,)-SO SERIES LOG PLACEMENT

It is very important to install these logs exactly as instructed. Do not modify logs. Only use logs supplied with heater or as identified for use with the heater as shown in Figure 28.

Note: Each log is marked with a part number. See page 46 for part numbers.

1. Place rear log (#1) on base assembly as shown in Figure 28. Log will fit over right end of burner and rest in middle of U-burner.

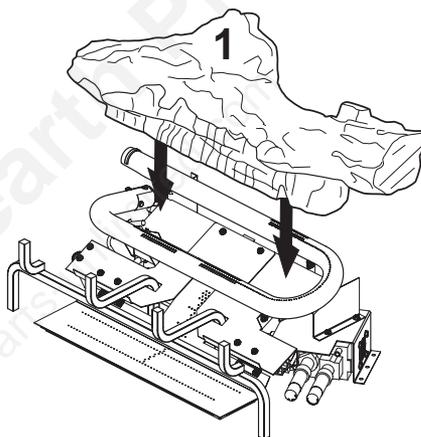


Figure 28 - Installing Log #1

TF Series Burner System - Log Compatibility Chart		
Burner System Models	Fiber Log Models	Concrete Log Models
TF18NE TF18PE	LTF18-MO LTF18-MM	LTF18-SO LTF18-RS
TF2430NE TF2430PE	LTF24-MO LTF24-MM LTF30-MO LTF30-MM	LTF24-SO LTF24-RS LTF30-SO LTF30-RS

Figure 27 - TF Series Burner System-Log Compatibility Chart

2. Place left bottom log (#2) onto base assembly as shown in Figure 19. See detail in drawing for contour on bottom of log. Log will fit over metal brackets and flat onto base assembly
3. Place right bottom log (#3) onto pan burner as shown in Figure 29, page 19.

INSTALLATION

Continued

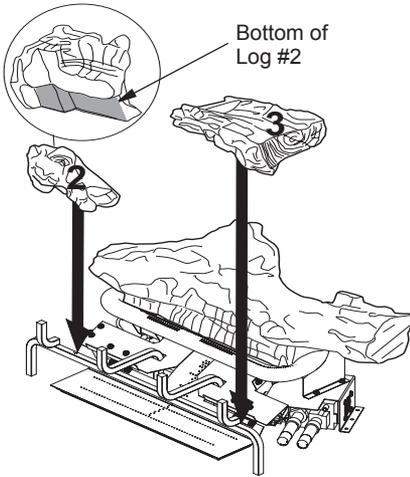


Figure 29 - Installing Logs #2 and #3

4. Place front log (#4) on top of left and right bottom logs as shown in Figure 30. Notches in bottom of log #4 will fit over ribs in logs #2 and #3.

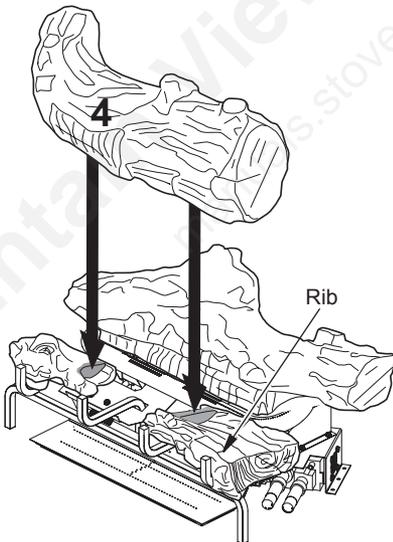


Figure 30 - Installing Log #4

5. Place top left log (#5) onto rear log (#1) and front log (#3). Match square peg on bottom of log #5 with square hole on log #3 and round hole in log #5 with square peg on log #1 (see Figure 31).

in front log (#3) and square hole in log #5 with square peg on log #1 (see Figure 31).

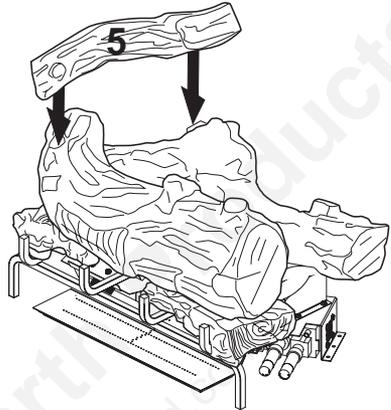


Figure 31 - Installing Log #5

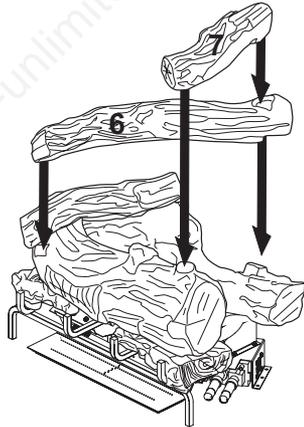


Figure 32 - Installing Logs #6 and #7

6. Place top middle log (#6) onto rear log (#1) and front log (#3). Match square peg on bottom of log #6 with square hole on log #4 and round hole on log #6 with peg on log #1 (see Figure 32).
7. Place top right log (#7) onto top middle log #6 and front log (#3) matching peg on bottom of top right log #7 with hole on top middle log #6 and hole in top right log #7 with peg on front log (#3) (see Figure 32).
8. Final Assembly is shown in Figure 33, page 20. See Figure 34, page 20 for additional views.

INSTALLATION

Continued

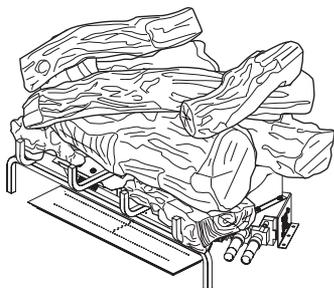


Figure 33 - Final Assembly



18" Models



24" Models



30" Models

Figure 34 - Correct LTF(18,24,30)-SO Log Placement

LTF(18,24,30)-MO LOG PLACEMENT

It is very important to install the logs exactly as instructed. Do not modify logs. Only use logs supplied with heater or as identified for use with the heater as shown in Figure 27, page 18.

Note: Each log is marked with a reference number. See page 47 for reference numbers detail.

1. Place the rear log (#1) on base assembly as shown in Figure 35. Log will fit over right end of burner and rest in middle of U-burner.
2. Place the middle log (#2) in front of "U"-burner and against the edges of plate as shown in Figure 36.

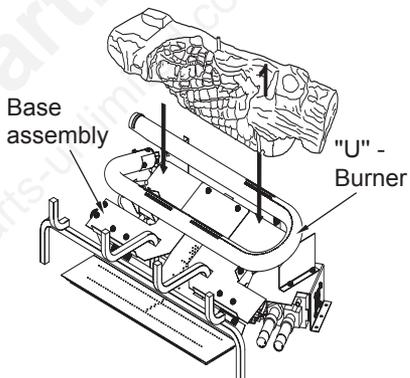


Figure 35 - Installing Log # 1

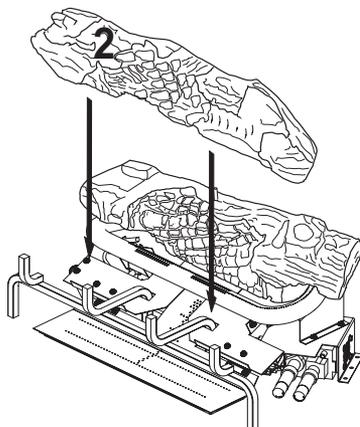


Figure 36 - Installing Log # 2

INSTALLATION

Continued

- 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 37.
- 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 38.
- 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 39.
- 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 40.

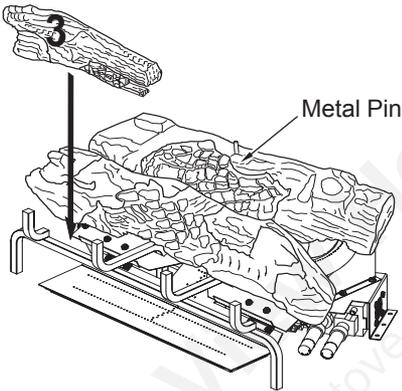


Figure 37- Installing Log # 3

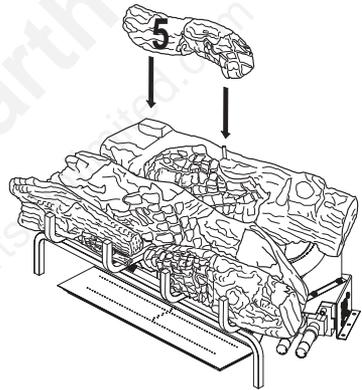


Figure 39 - Installing Log # 5

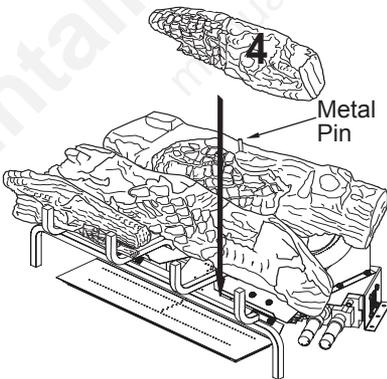


Figure 38- Installing Log # 4

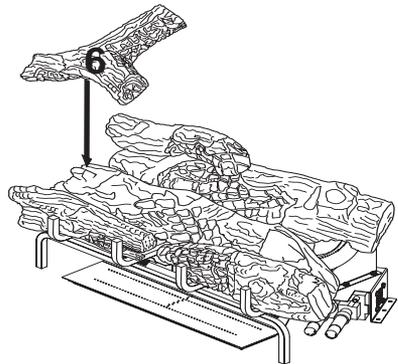


Figure 40 - Installing Log # 6

INSTALLATION

Continued

- Place the right crossover log (#7) on top of the middle log and rear log as shown in Figure 41. 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.
- 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 as shown in Figure 42. See Figure 43 for final assembly.

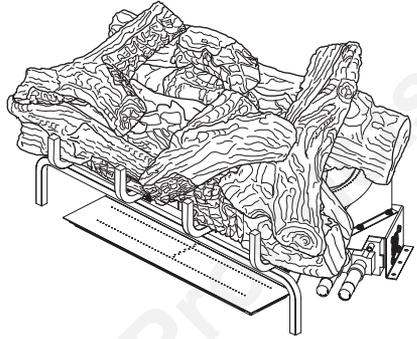


Figure 43- Final Assembly

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 heater or as identified for use with the heater as shown in Figure 27, page 18. 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 48 for reference numbers detail.

- Place the rear log (#1) on base assembly as shown in Figure 44. Log will fit over right end of burner and rest in middle of U-burner.



Figure 41 - Installing Log # 7

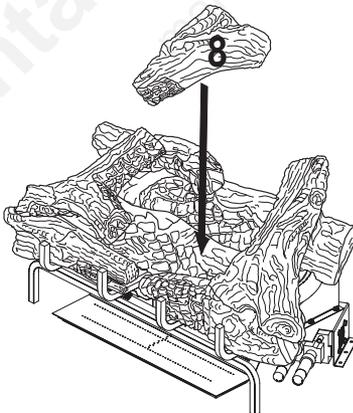


Figure 42 - Installing Log # 8

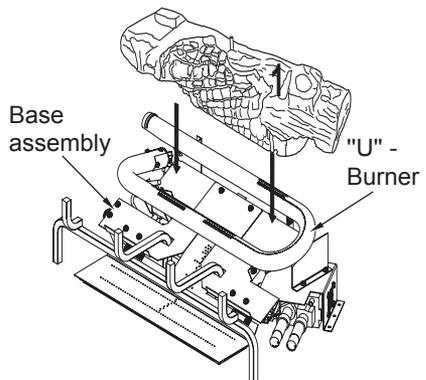


Figure 44 - Installing Log # 1

INSTALLATION

Continued

- Place the middle log (#2) in front of the U-burner and against the edges of the plate as shown in Figure 45.

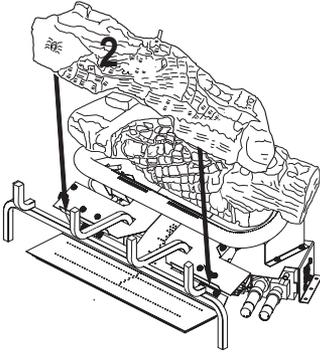


Figure 45 - Installing Log # 2

- 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 46.

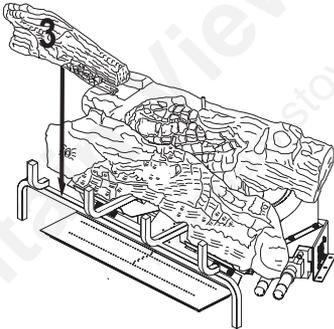


Figure 46 - Installing Log # 3

- 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 47.
- 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 48.

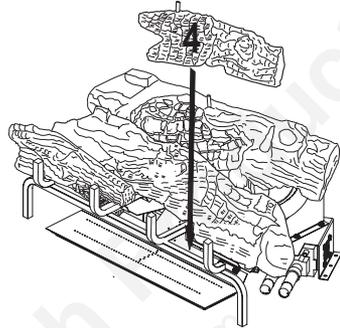


Figure 47 - Installing Log # 4

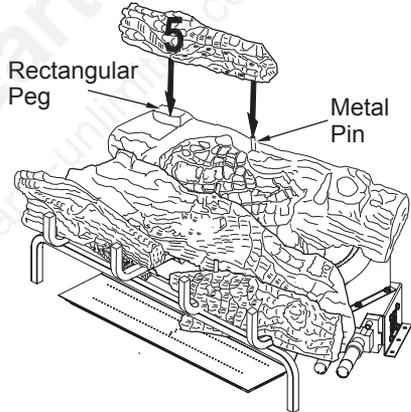


Figure 48 - Installing Log # 5

- 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 hole in the bottom of the left top forked log (#6). See Figure 49, page 24.
- Place the right rear chunk log (#7) on top of the middle log (#2) and rear log (#1) as shown in Figure 50, page 24. 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).

INSTALLATION

Continued

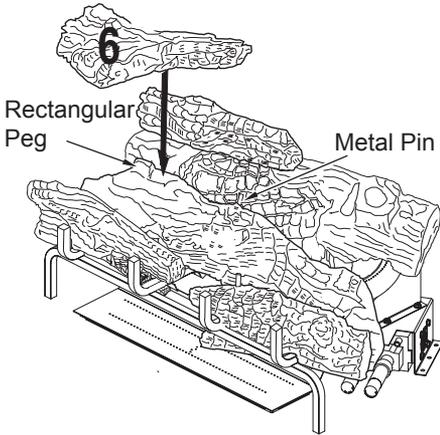


Figure 49 - Installing Log # 6

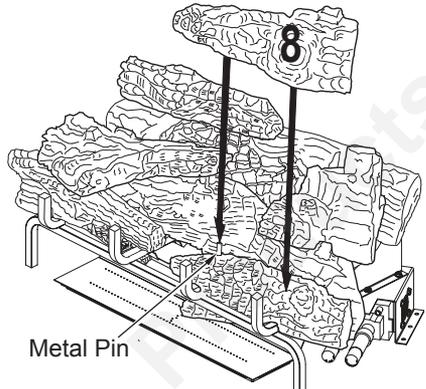


Figure 51 - Installing Log # 8

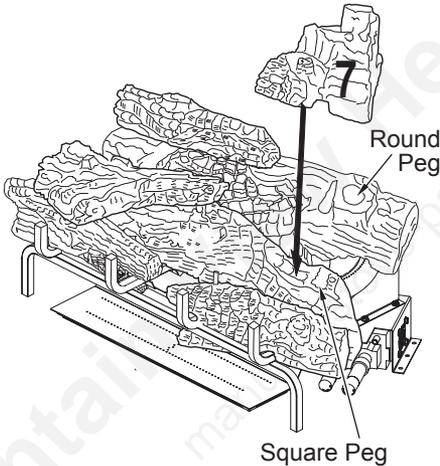


Figure 50 - Installing Log # 7

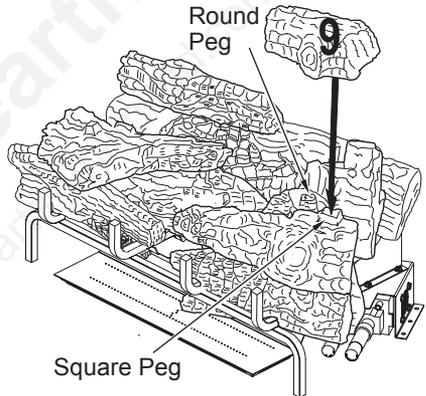


Figure 52 - Installing Log # 9

8. Place the front right mid log (#8) on top of the front right log (#4) as shown in Figure 51. 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 52. 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).

10. Place the right rear top log (#10) on top of the right rear chunk log (#7) as shown in Figure 53, page 25. 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 54, page 25. 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).

INSTALLATION

Continued

LTF(18,24,30)-RS LOG PLACEMENT

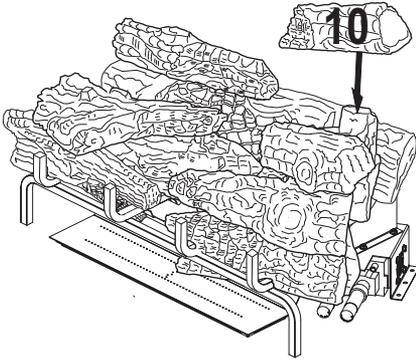


Figure 53 - Installing Log # 10

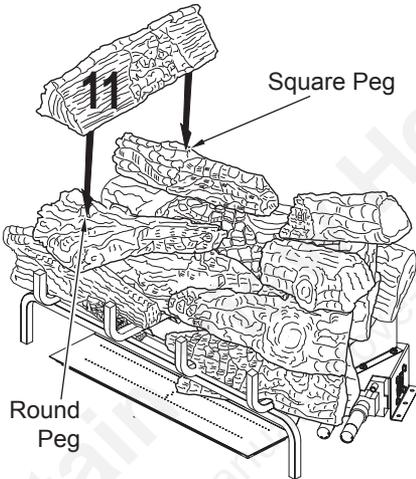


Figure 54 - Installing Log # 11

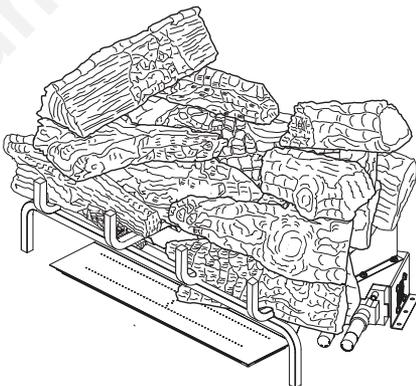


Figure 55 - Final Assembly

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

1. Place bottom ember log on base assembly as shown in Figure 56. The log should fit over the left side of the burner and rest in the middle of the U-burner.

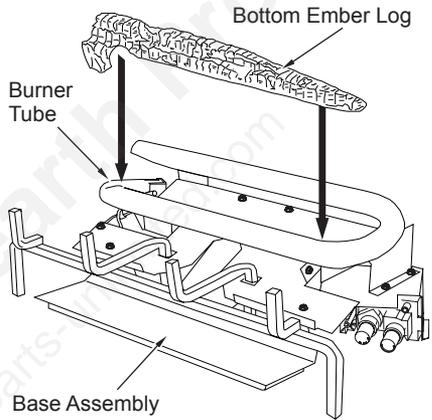


Figure 56 - Installing Bottom Ember Log

2. Place the rear log on the base assembly as shown in Figure 57. The rear log has grooves in the bottom which will allow the log to sit on the burner and behind the bottom ember log

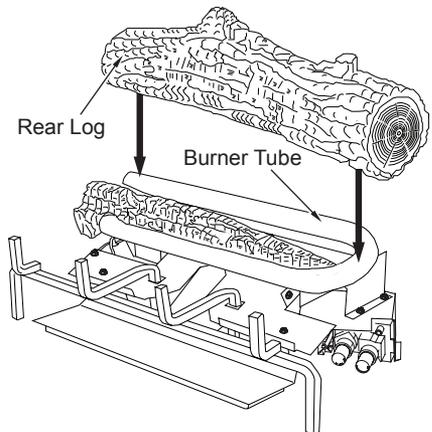


Figure 57 - Installing Rear Log

INSTALLATION

Continued

3. Place the right front log onto the base and grate assembly as shown in Figure 58. The log has notches in the bottom for the grate.

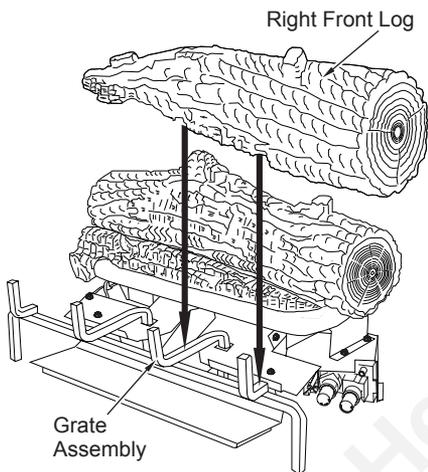


Figure 58 - Installing Right Front Log

4. Place the left front log onto the base and the right front log as shown in Figure 59. The left front log has a notch on the bottom that will line up with the projection on the right front log.

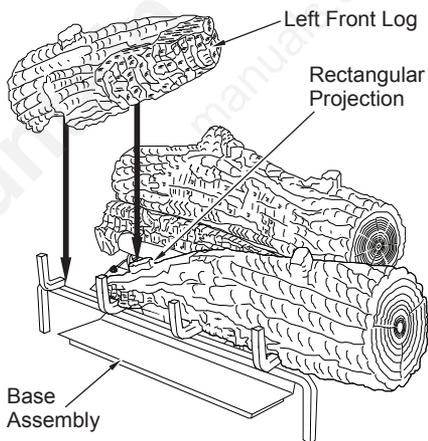


Figure 59 - Installing Left Front Log

5. Place the right crossover log onto the rear log and the right front log as shown in Figure 60. 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.

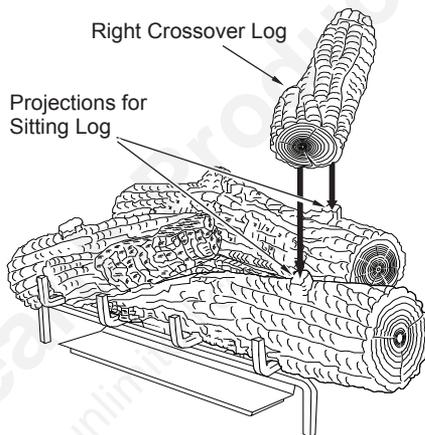


Figure 60 - Installing Right Crossover Log

6. Place the left crossover log onto the rear log and the left front log as shown in Figure 61. 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.

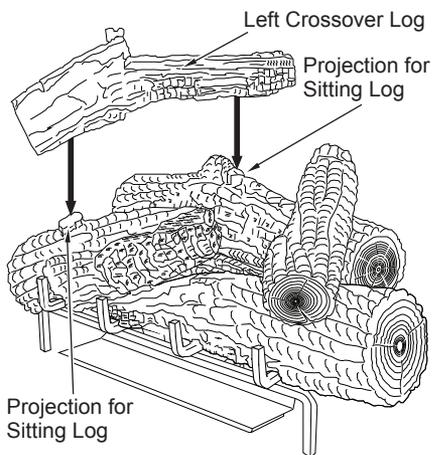


Figure 61 - Installing Left Crossover Log

INSTALLATION

Continued

EMBER PLACEMENT

⚠ WARNING: Do not operate unit without ember material correctly in place as shown in Figures 62 & 63. 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.

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 [Parts](#), page 45.

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 62.

Rock Wool placement. Place rock wool material on front flat burner in areas away from ports as shown in Figure 63.

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



Figure 62 - Platinum Bright Embers



Figure 63 - Placement of Rock Wool (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 has a pilot that is equipped with an ignition device which automatically lights the pilot. Do not light the pilot by hand.

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

WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
 - Do not touch any electric switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- C. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

LIGHTING INSTRUCTIONS

1. STOP! Read the safety information.
2. Make sure equipment shutoff valve is fully open.
3. Press any button on the remote to power the remote on. If you see a Lock icon and the word "Unlock" in the lower left corner of the screen you will need to unlock the screen by pressing "Unlock" and "OK".
4. Press "On" and "OK". It may take up to 4 seconds before the control unit processes the command. You will hear a beep from the control unit and the pilot will start to spark before lighting.

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

TO TURN OFF GAS TO APPLIANCE

1. Press OFF (bottom button) on the remote control.
2. Close equipment shutoff valve.

OPERATION

Continued

REMOTE CONTROL OPERATION

The remote control contains:

1. LCD display
2. Four buttons:
 - OFF button
 - Left button
 - Middle button
 - Right button
3. Battery Case (on the Back)

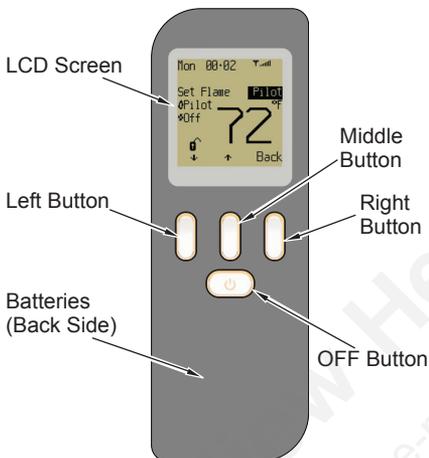


Figure 64 - Remote Control

LCD DISPLAY

The LCD screen shows information about the instructions given by the user (desired status) and the current situation of the device (actual status). It also helps us select our choices, see Figure 65.

- A: Day of the week
- B: Time
- C: Signal Strength
- D: Selected working mode
- E: Selected setting
- F: Current Flame status
- G: Current fan status
- H: Current room temperature
- I: Child lock status
- J: Button labels (explained below)

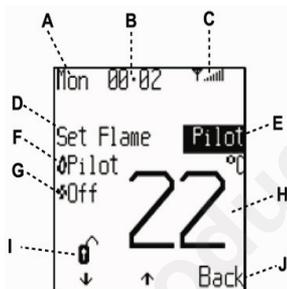


Figure 65 - LCD Display

The screen changes depending on the input from the buttons, but the bottom row always displays the button function labels (see Figure 66). The functions of each button depends on the options available on the current screen (except for the OFF button which has always the same function).

Note: The bottom row of the screen is indicating buttons functionality. In this case:

- LEFT (↓) button decreases the flame level
- MIDDLE (↑) button increases the flame level
- RIGHT (Back) button goes back to the previous screen (see Figure 66).

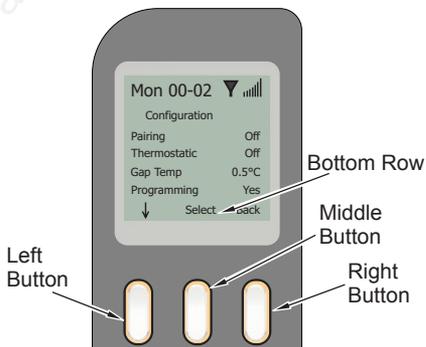


Figure 66 - Screen Changes

OFF BUTTON

This button switches off the appliance. If it is pressed and held for more than 40 seconds, the configuration menu is accessed.

LEFT, MIDDLE AND RIGHT BUTTON

These buttons change their function as shown by the on-screen labels. For some screens a button may have no function and is inactive. The active buttons for a particular screen are initially lit for 5 seconds to indicate that they are active.

OPERATION

Continued

MENU SYSTEM

The remote is organized by means of a menu system.

After batteries are installed the first time, the remote starts at the "OFF" screen (it is possible that the remote is locked in the "OFF" screen: to unlock it just press the button below "Unlock", and then "OK". See Figure 67).

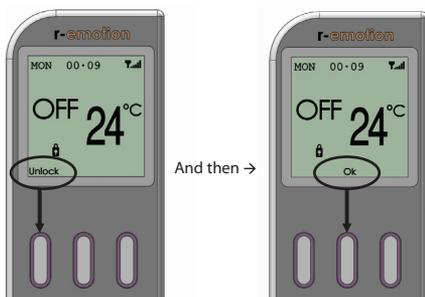


Figure 67 - Menu System

SWITCHING ON

IMPORTANT: When lighting the pilot and burner for the first time, air will be present in the system that must be purged.

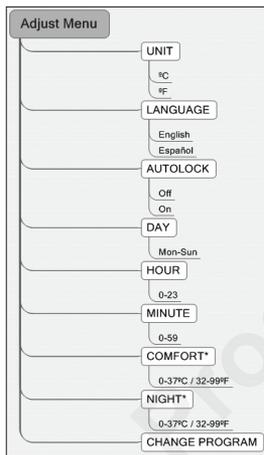
The lighting sequence may have to be repeated 10 to 15 times before gas reaches the pilot. This is normal.

To turn the system on, press "On" (left button) and "OK" (middle button). A beep from the control module will be heard and the ignition process will start. This will take up to 20 seconds. Note that while in operation the signal bars will disappear for a few moments. If the pilot and burner do not light, press the "Off" button, wait 15 seconds then repeat the ignition steps from the beginning of this paragraph. Note: each ignition step is accompanied by two short series of ignition sparks at the pilot.

ADJUST MENU

Before using the remote, there are various settings which should be made, such as the date, the language, the autolock option and the comfort temperature.

For doing this, press "Menu" and then press "Select" to chose "Adjust Menu". There the options shown in Figure 68, can be set. To change any of these settings use the down arrow to select the feature and then press "Select" and "Change" to change the setting.



Available after PROGRAM MODE is enabled, see PROGRAM MODE section on next page.

Figure 68 - Adjusting Menu

SETTING THE CONTROL MODE

There are three different modes for controlling the appliance:

- Manual
- Auto
- Program

In Manual mode the main burner can be switched on and off.

Auto mode allows you to set a temperature, while in Manual mode the flame level may be set to HIGH, MEDIUM, or LOW. Program mode offers automatic temperature control for specific times of the day.

In the initial screen when the remote is turned on, three options are available: AUTO, MANUAL and MENU.

Auto and Manual are two of the three different modes for controlling the appliance with the remote.

MANUAL MODE

If "Manual" is pressed, the flame setting appears as the selected setting. In the bottom row, ↓ and ↑ appear, indicating that the flame level can be changed by pressing the left or middle button. Pressing "Back" (right button) returns to the initial screen (see Figure 66, page 29).

Note that a safety temperature can be set in the configuration menu. This specifies the maximum the maximum permitted room temperature. This temperature can never be set higher than 40°C (104°F).

OPERATION

Continued

AUTO MODE

If "Auto" is pressed in the initial screen, 25°C (77°F) appears as the desired temperature in the selected setting. In the bottom row, ↓ and ↑ appear, indicating that we can change the desired temperature value by just pressing the left or middle button. In auto mode the appliance heats until this temperature is reached. Pressing "Back" (right button), returns to the initial screen.

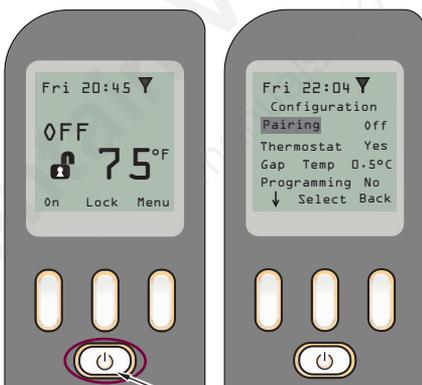
The Auto mode feature is optional and can be enabled or disabled in the configuration menu by changing "Thermostat" to either "Yes" (enabled) or to "No" (disabled). Access to the configuration menu is described in the next section.

PROGRAMMING

PROGRAM MODE

A program mode is available if desired. This mode allows the remote control to operate the gas log set in either weekly or daily settings. To enable the program mode access the configuration menu.

CONFIGURATION MENU ACCESS: Press and hold the "OFF" button (⏻) on the remote control for 40 seconds. During this time, the screen will go blank for a few seconds, this is normal. See Figure 69. After 40 seconds, the configuration menu appears (see Figure 70).



OFF Button
Figure 69 - OFF Button

Press the arrow button (↓) until Programming is highlighted (see Figure 70). If Programming has "No" next to it, press the "Select" button to highlight "No" (see Figures 70 and 71).



Figure 70 - Programming

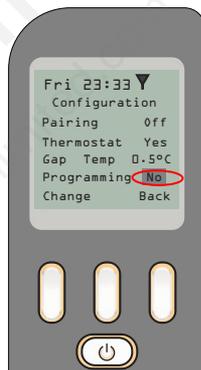


Figure 71 - Highlighting "No"

Press "Change" (left button) to change Programming from "No" to "Yes" (see Figure 72). To return to the main screen, press the "Back" button until you get to the main screen. The main screen is shown in Figure 73, page 32. The PROGRAM MODE is now enabled.

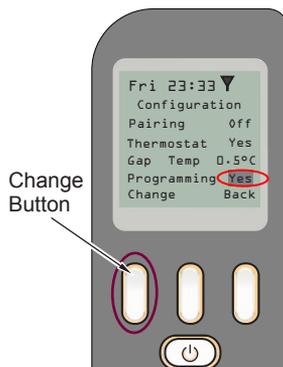


Figure 72- Changing "No" to "Yes"

OPERATION

Continued



Figure 73 - Main screen

There are two types of program mode: a **daily mode** and a **weekly mode**. In the daily mode, every day uses the same program. In the weekly mode, every day has its own program, so it is possible have a different program for each day of the week (see Figure 74).



Figure 74 - Setting Control Mode

DAY PROGRAMMING MENU (Menu → Adjust Menu → Change Program):

There are 8 menus like this. One for daily, and the others for each day (Monday, Tuesday, Wednesday, Thursday, Friday, Saturday and Sunday, see Figure 75). This day programming screen consists of:

Title: Daily Program.

A: Selected (including "Daily"). The selected day can be changed by pressing "Change" (middle button).

B: Day Schedule Graphic. This bar displays the program for the whole day by showing the temperature setting for each hour of the day. To access the day schedule graphic, press (↓) (left button). To change the desired temperature, go to the hour you want to change by pressing → (left button) and then press change (middle button). There are 3 temperature settings:

OFF: No temperature control (the appliance is in pilot mode).

NIGHT TEMP: The night temperature is set as desired temperature and the appliance will heat until this temperature is reached.

COMFORT TEMP: The comfort temperature is set as the desired temperature and the appliance will heat until this temperature is reached.

Finally, to launch the program mode, in the main menu, set Program to "On", and select the desired Program Type (Daily or Weekly) as shown in Figure 75.

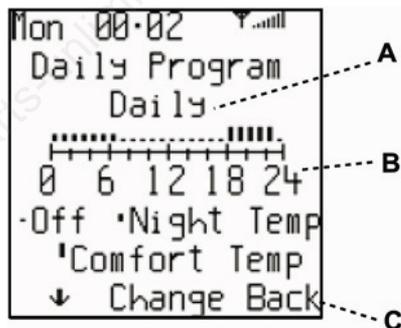


Figure 75 - Day Programming Menu

OTHER FEATURES

How to lock and unlock the remote (child lock)

To unlock the remote, press the "Unlock" button and "OK".

To lock the remote, in the main screen press "Menu" go to the Lock option, press "Select" and then "Change". The remote will immediately go into locked mode.

Automatic lock can be selected. This means that if no button is pressed for while, the remote automatically goes into locked mode.

How to select the temperature unit (°C/°F)

In the main screen, press "Menu" button. Select "Adjust Menu" and then select "Unit". To

OPERATION

Continued

change the temperature unit press "Change" button.

TOUCH PAD OPERATION

This touch control has only 3 buttons for controlling manually the flame of the appliance (see Figure 76).

The touch pad has:

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

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



Figure 76 - Touch Pad Control

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

SWITCHING ON

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

REGULATING THE FLAME LEVEL.

1. To increase the flame level, press the up button (▲). A beep and a flash of the LED indicate that the system has accepted the order, and the flame will increase instantly (see Figure 76).
2. To decrease the flame level, press the down button (▼). A beep and a flash of the LED indicate that the system has accepted the order, and the flame will decrease instantly (see Figure 76).

SWITCHING OFF

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

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

INSPECTING BURNERS

Check pilot flame pattern and burner flame patterns often.

PILOT FLAME PATTERN

Figure 77 shows a correct pilot flame pattern. Figure 78 shows an incorrect pilot flame pattern. The incorrect pilot flame is not touching the thermocouple. This will cause the thermocouple to cool. When the thermocouple cools, the heater will shut down.

If pilot flame pattern is incorrect, as shown in Figure 78.

- turn heater off (see [To Turn Off Gas to Appliance](#), page 28)
- see [Troubleshooting](#), page 36

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.

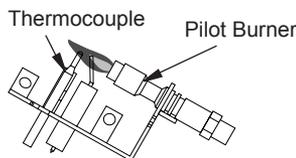


Figure 77 - Correct Pilot Flame Pattern
(Your pilot may vary from pilots shown)

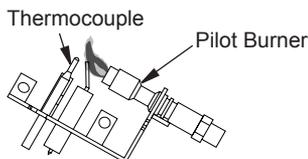


Figure 78 - Incorrect Pilot Flame Pattern
(Your pilot may vary from pilots shown)

CLEANING AND MAINTENANCE

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

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

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

BURNER INJECTOR HOLDER AND PILOT AIR INLET HOLE

The primary air inlet holes allow the proper amount of air to mix with the gas. This provides a clean burning flame. Keep these holes clear of dust, dirt, lint and pet hair. Clean these air inlet holes prior to each heating season. Blocked air holes will create soot. We recommend that you clean the unit every three months during operation and have heater inspected yearly by a qualified service person.

We also recommend that you keep the burner tube and pilot assembly clean and free of dust and dirt. To clean these parts we recommend using compressed air no greater than 30 PSI. Your local computer store, hardware store or home center may carry compressed air in a can. If using compressed air in a can, please follow the directions on the can. If you don't follow directions on the can, you could damage the pilot assembly.

1. Shut off unit, including pilot. Allow unit to cool for at least thirty minutes.
2. Inspect burner, pilot and primary air inlet holes on injector holder for dust and dirt (see Figure 79).
3. Blow air through the ports/slots and holes in the burner.
4. Check injector holder located at end of burner tube again. Remove any large particles of dust, dirt, lint or pet hair with a soft cloth or vacuum cleaner nozzle.

5. Blow air into the primary air holes on the injector holder.
6. In case any large clumps of dust have now been pushed into the burner repeat steps 3 and 4.

Clean pilot assembly also. Additional cleaning may be needed for proper pilot operation based on use/lack of use. A yellow tip on the pilot flame may indicate dust and dirt in the pilot assembly. There is a small pilot air inlet hole about from where the pilot flame comes out of pilot assembly (see Figure 80). With unit off, lightly blow air through air inlet hole. You may blow through a drinking straw if compressed air is not available.

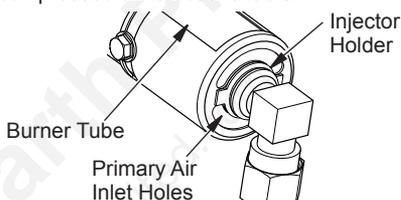


Figure 79 - Injector Holder On Outlet Burner Tube

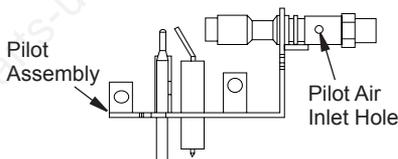


Figure 80 - Pilot Inlet Air Hole (Your pilot may vary from pilot shown)

LOGS

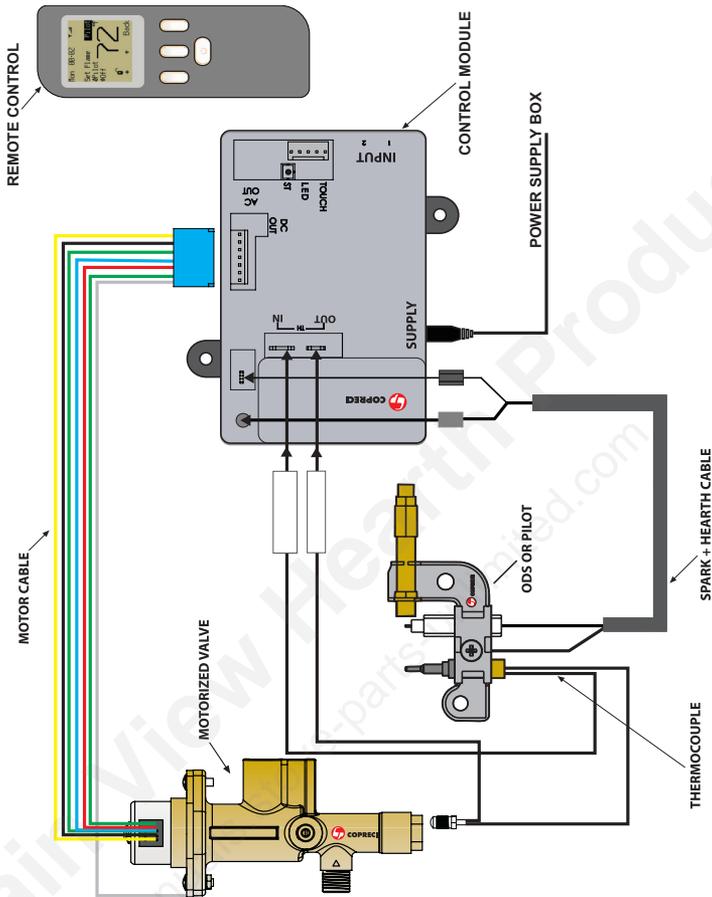
- If you remove logs for cleaning, refer to [*Installing Logs Embers and Lava Rock*](#), page 18, to properly replace logs.
- Replace log(s) if broken or chipped (dime-sized or larger).

MAIN BURNER

Periodically inspect all burner flame holes with heater 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 heater 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.

WIRING DIAGRAM



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

TROUBLESHOOTING

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

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

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

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
<p>Either the remote or touch pad buttons are pressed to start the burner ignition sequence and there is no function or response.</p>	<p>1. Missing or weak batteries at power supply box or remote. Control module may beep 10 times or may not beep at all. LCD display may show "BATTERY ERROR".</p>	<p>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 voltage while the system is lighting (under load). The system will not function under 3.8 volts and batteries should be replaced if the voltage is under 4.0 volts.)</p>
	<p>2. Unplugged power supply (battery) box</p>	<p>2. Plug power supply box to module see page 15.</p>
	<p>3. Touch pad not plugged in to module or plugged in incorrectly</p>	<p>3. Plug touch pad in module see page 16, figure 19. Check to see it is positioned as shown.</p>
	<p>4. Control valve wiring harness not plugged in or not in proper position</p>	<p>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.</p>
	<p>5. Remote not communicating with control module</p>	<p>5. Check the display on the remote for signal bars. If the display is blank, press any button one time to activate the display. Watch the display for 30 seconds and observe if the signal bars are shown. (The remote communicates with the module periodically. It doesn't communicate with the module continuously to conserve battery power.) If the remote is communicating with the module, signal bars will be displayed temporarily. If they are not displayed any, verify the batteries are new and installed correctly. If the signal bars still do not display, follow the Re-Pairing instructions on page 16.</p>

TROUBLESHOOTING

Continued

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Either the remote or touch pad buttons are pressed to start the burner ignition sequence and there is no function or response. (Continued from page 36).	6. LED is blinking	6. This indicates the battery power is low. Replace the batteries in the power supply box.
	7. Ignitor cable is not connected	7. Check the ignitor connection at both the control module and the ods pilot. Connect if loose.
	8. Ignitor cable pinched or wet	8. Free ignitor cable if pinched by any metal or tubing. Keep ignitor cable dry.
	9. Broken Ignitor cable.	9. Replace wire harness including ignitor cable.
	10. Ignitor electrode positioned wrong.	10. Replace ods pilot assembly.
	11. Ignitor 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 grounding 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 channel in the configuration menu. If this does not fix the problem, reset the channel to A and follow the instructions in Re-Pairing on page 16. Replace remote and control module as a final action.
	15. If LED on touch pad is continuously on, the cable is connected the wrong way.	15. Disconnect the touch pad between 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.

TROUBLESHOOTING

Continued

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
When ignitor button is pressed on the remote or touch pad, the pilot sparks but there is no ignition.	1. Gas supply turned off or equipment shutoff valve closed	1. Turn on gas supply or open equipment shutoff valve.
	2. Air in gas lines.	2. 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 connection 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.
	6. Valve cable is disconnected or broken.	6. Connect valve cable correctly
	7. ODS pilot is clogged	7. Clean ods pilot (see Cleaning and Maintenance , page 34) or replace ods pilot assembly.
	8. Gas regulator setting is not correct	8. Replace gas regulator

TROUBLESHOOTING

Continued

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
ODS pilot lights but pilot flame goes out before burners light.	1. Equipment shutoff valve not fully open	1. Fully open equipment shutoff valve.
	2. Missing or weak batteries at power supply box or remote.	2. 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 voltage while the system is lighting (under load). The system will not function under 3.8 volts and batteries should be replaced if the voltage is under 4.0 volts.).
	3. Thermocouple circuit between the ods pilot and control module is loose or damaged.	3. Check thermocouple terminal connection at the control module. If it is loose, remove it with needle nose pliers, using the pliers, slightly close the terminal's opening and reinstall on to the control module.
	4. Pilot flame not touching thermocouple, which allows thermocouple to cool, causing pilot flame to go out. This problem could be caused by one or both of the following: 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 Cleaning and Maintenance , page 34) or replace ODS pilot assembly.
	5. Thermocouple damaged	5. Replace ods pilot assembly.
Burner system lights from remote but not from touch pad	6. Control valve damaged.	6. Replace control valve
	1. Touch pad cable disconnected or broken	1. Connect or replace touch pad and cable.
Burner system does not ignite the burner while the remote is in the program mode.	2. Defective touch pad	2. Replace touch pad
	1. Program mode does not work if soft start is deactivated.	1. Activate soft start in the remote.
Burner system shuts off after operating 6 seconds then sounds 5 beeps.	1. Short in touch pad wiring. BUT-TON ERROR is shown in remote display.	1. Replace touch pad and wiring harness.
	1. Batteries are weak. LOW BATTERY is shown in remote display.	1. Replace batteries in remote.

TROUBLESHOOTING

Continued

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Burner system shuts off. Control module sounds 2 cycles of 3 beeps. CONFIG. ERROR is shown in remote display.	1. Faulty control module	1. Replace control module.
Burner system shuts off. Control module sounds 2 cycles of 3 beeps. EEPRON ERROR is shown in remote display.	1. Remote and control module not communicating properly 2. Faulty control module	1. Follow Re-Pairing instructions on page 16 to re-pair remote to control module 2. Replace control module
Burner system shuts off. Control module sounds 20 beeps.	1. Loss of communication between control module and remote after 18 minutes.	1. Either the remote is too far from the burner system or the remote needs new batteries. The remote should work within 20 feet of the burner system. If it does not, replace the batteries in the remote and battery supply box.
Burner system shuts off. Control module sounds 1 long beep. Remote displays TEMP ERROR.	1. Control module is too hot	1. Check to see the fireplace size meets the minimum requirements. Call technical service.
Burner systems shuts off. Remote displays OVER TEMPERATURE.	1. The SAFETY temperature setting in the remote has shut the burner system off.	1. 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.	1. More than one burner system is present and operating on the same frequency.	1. Follow the Re-Pairing section to re-pair the burner system(s). One burner system may be left on the original frequency.

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 <i>Cleaning and Maintenance</i> , page 34) 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 <i>Cleaning and Maintenance</i> , page 34) or replace burner orifice(s)
	3. Mislocated crossover tube	3. Contact qualified service person
Burner backfiring during combustion	1. Burner orifice is clogged or damaged	1. Clean burner (see <i>Cleaning and Maintenance</i> , page 34) 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	1. Check burner(s) for dirt and debris. If found, clean burner(s) (see <i>Cleaning and Maintenance</i> , page 34)
	2. Gas regulator defective	2. Replace gas regulator
Slight smoke or odor during initial operation	1. Residues from manufacturing processes and logs curing	1. Problem will stop after a few hours of operation
Heater produces a whistling noise when burners are lit	1. Set the unit to HI by using the remote when burners are cold	1. Set the unit to LO by using the remote and let warm up for a minute
	2. Air in gas line	2. Operate burners until air is removed from line. Have gas line checked by local natural or propane/LP gas company
	3. Air passageways on heater blocked	3. Observe minimum installation clearances (see pages 9 through 11)
	4. Dirty or partially clogged burner orifice(s)	4. Clean burners (see <i>Cleaning and Maintenance</i> , page 34) or replace burner orifice(s)
White powder residue forming within burner box or on adjacent walls or furniture	1. When heated, vapors from furniture polish, wax, carpet cleaners, etc. may turn into white powder residue	1. Turn heater off when using furniture polish, wax, carpet cleaners or similar products
Moisture/condensation noticed on windows	1. Not enough combustion/ventilation air	1. Refer to <i>Air for Combustion and Ventilation</i> requirements (page 6)
Heater produces a clicking/ticking noise just after burners are lit or shut off	1. Metal expanding while heating or contracting while cooling	1. This is normal with most heaters. If noise is excessive, contact qualified service person

TROUBLESHOOTING

Continued



WARNING: If you smell gas

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

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

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Heater produces unwanted odors	1. Heater burning vapors from paint, hair spray, glues, cleaners, chemicals, new carpet, etc. (See <i>IMPORTANT</i> statement above)	1. Open window to ventilate room. Stop using odor causing products while heater is running
	2. Low fuel supply (propane/LP only)	2. Refill supply tank (propane/LP only)
	3. Gas leak. See Warning statement at top of page	3. Locate and correct all leaks (see Checking Gas Connections , page 14)
Heater shuts off in use (ODS operates)	1. Not enough fresh air is available	1. Open window and/or door for ventilation
	2. Low line pressure	2. Contact local natural or propane/LP gas company
	3. ODS/pilot is partially clogged	3. Clean ODS/pilot (see Cleaning and Maintenance , page 34)
Gas odor even when control knob is in OFF position	1. Gas leak. See Warning statement at top of page	1. Locate and correct all leaks (see Checking Gas Connections , page 14)
	2. Control valve or gas control defective	2. Replace control valve or gas control
Gas odor during combustion	1. Foreign matter between control valve and burner	1. Take apart gas tubing and remove foreign matter
	2. Gas leak. See Warning statement at top of page	2. Locate and correct all leaks (see Checking Gas Connections , page 14)
Log set cycles to pilot, but room temperature drops to a lower than ideal level before log set comes back on	1. Optional Hand-held remote control is too close to heater	1. Move hand-held remote control unit farther away from the heater

REPLACEMENT PARTS

Note: Use only original replacement parts. This will protect your warranty coverage for parts replaced under warranty.

Contact authorized dealers of this product. If they can't supply original replacement part(s), call FMI PRODUCTS, LLC at 1-866-328-4537.

When calling, have ready:

- your name
- your address
- model and serial numbers of your heater
- how heater was malfunctioning
- purchase date

Usually, we will ask you to return the part to the factory.

SERVICE HINTS

When Gas Pressure Is Too Low

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

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

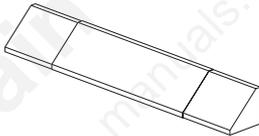
TECHNICAL SERVICE

You may have further questions about installation, operation or troubleshooting. If so, contact FMI PRODUCTS, LLC at 1-866-328-4537. When calling please have your model and serial numbers of your heater ready.

You can also visit our web site at www.fmiproducts.com.

ACCESSORIES

Purchase these heater accessories from your local dealer. If they can not supply these accessories, call FMI PRODUCTS, LLC at 1-866-328-4537 for referral information. You can also write to the address listed on the back page of this manual.



FIREPLACE HOOD

Black - GA6050

Antique Brass - GA6053

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

LAVA ROCK - GA6060

For all models. Order when additional rock is desired.

FLOOR MEDIA KIT - FM100

For all models. Includes lava rock, burner embers, and burner cinders.

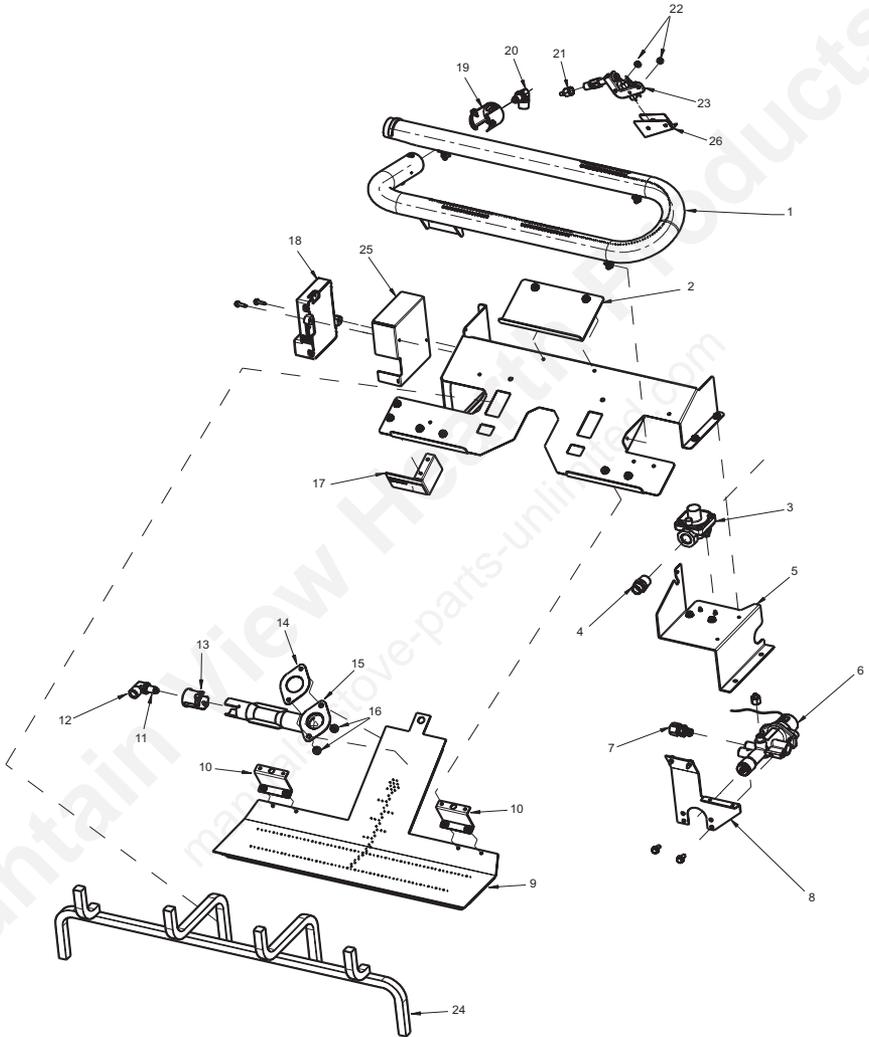
CONTROL COVER KIT - CC100

For all models. Includes control cover log and 6 unique fall-away logs.

PARTS

REMOTE MODELS

TF18NE, TF18PE, TF2430NE, TF2430PE



PARTS

TF18NE, TF18PE, TF2430NE AND TF2430PE MODELS

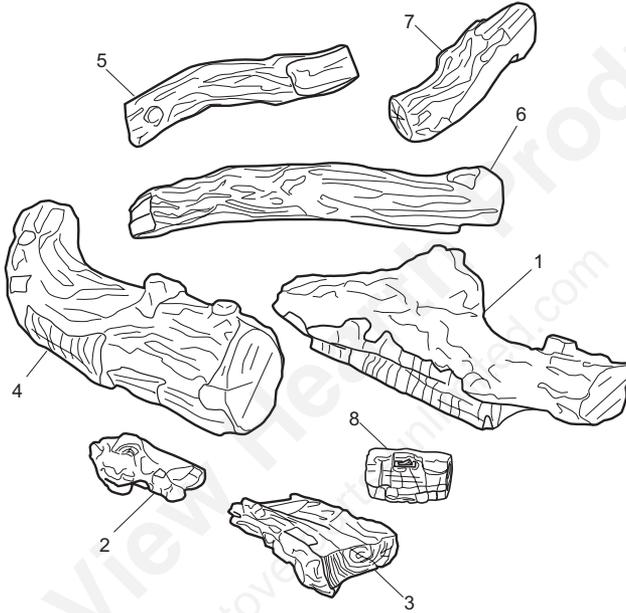
This list contains replaceable parts used in your heater. When ordering parts, follow the instructions listed under Replacement Parts on page 43 of this manual.

KEY NO.	PART NO.	DESCRIPTION	18NE	18PE	2430NE	2430PE	QTY.
1	125051-01	18" Dual Burner	•		•		1
	125050-02	24"/30" Dual Burner		•		•	1
2	118842-02RVCK	Log Support Bracket	•	•			1
3	099415-23	Gas Regulator (NG)	•		•		1
	099415-24	Gas Regulator (LP)		•		•	1
4	098264-02	Connector, Male 3/8 NPTF	•	•	•		1
5	125810-02	Bracket, Valve	•		•		1
6	125919-01	Kit Electronic Valve	•		•		1
	125919-02	Kit Electronic Valve		•			1
	125919-03	Kit Electronic Valve			•		1
7	125816-01	Fitting .375 Tube to .125 NPTF	•	•	•	•	1
8	125810-01	Leg Support			•	•	1
9	125120-01	18" ASM Pan Burner	•	•			1
	125120-02	24"/30" ASM Pan Burner			•	•	1
10	125023-01	Bracket Front Burner	•	•			1
11	099056-45	Orifice, 0.028 (PAN)		•		•	1
	111819-11	Orifice, Elbow P53 95 300 (PAN)			•		1
	111817-07	Orifice, Elbow P53 95 190 (PAN)	•				1
12	124933-01	Holder, Orifice 90° Elbow	•	•		•	1
13	112829-01	Shutter, Air (Pan Burner)	•	•	•	•	1
14	119795-01	Gasket, Burner	•	•	•	•	1
15	119321-01	Venturi Tube	•	•	•	•	1
16	097384-01	Nut 10-24 Captive Washer	•	•	•	•	1
17	125819-01	Bracket, Caution Decal	•	•	•	•	1
18	125777-01	Module Control Board	•	•	•	•	1
19	116559-03	Air Shutter		•		•	1
	116559-04	Air Shutter	•		•		1
20	111819-04	Orifice, Elbow NG P52 85 1000 (Rear)			•		1
	111819-03	Orifice, Elbow P53 95 420 (Rear)				•	1
	111819-11	Orifice, Elbow P53 95 300 (Rear)		•			1
	099056-50	Orifice, .082 (Rear)	•				1
21	099387-08	Pilot Tube	•	•	•	•	1
22	098249-01	Nut ODS	•	•	•	•	1
23	125780-01	Pilot, NG Electric	•	•	•	•	1
	125780-02	Pilot, LP Electric	•		•		1
24	125025-01	Grate 18"	•	•			1
	125025-02	Grate 24"/30"			•	•	1
25	125951-01	Control Module Heat Shield	•	•	•	•	1
26	125561-01	Pilot Shield	•				1
PARTS AVAILABLE, NOT SHOWN							
	100563-01	Warning Plate	•	•	•	•	1
	103877-01	Lighting Instructions	•	•	•	•	1
	100639-12	Caution Decal	•	•	•	•	1
	101137-02	Hardware Kit	•	•	•	•	1
	GA6060	Lava Rock	•	•	•	•	1
	120466-01	Flextube with Fitting	•	•	•	•	1
	125071-01	Rockwool Embers	•	•	•	•	1
	125070-01	Platinum Bright Embers Kit	•	•	•	•	1
	125782-01	Plate Lighting Instructions	•	•	•	•	1
	125781-01	Harness, Pilot Ignitor	•	•	•	•	1
	125817-02	Flex Line, 12" 3/8 with 2 male Nuts	•	•			2
	125817-02	Flex Line, 12" 3/8 with 2 male Nuts			•	•	1
	125817-03	Flex Line, 14" 3/8 with 2 male Nuts			•	•	1
	125817-04	Flex Line, 22" 3/8 with 2 male Nuts	•	•	•	•	1
	125775-01	Control T-STAT REMOTE	•	•	•	•	1
	125776-01	Supply, Battery Power	•	•	•	•	1
	125882-01	Manual Control Touch Pad	•	•	•	•	1
	125882-02	Touch Pad Wire Harness	•	•	•	•	1

PARTS

LOG SETS FOR MODELS LTF18-SO, LTF24-SO, LTF30-SO

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

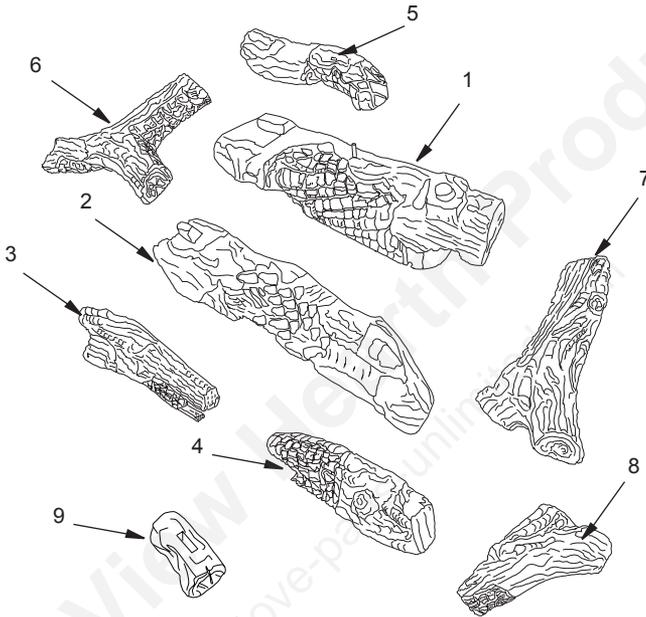


KEY NO.	PART NUMBERS			DESCRIPTION	QTY
	LTF18-SO	LTF24-SO	LTF30-SO		
	125027-01	125027-02	125027-03	Log Set	1
1	120953-04	125052-08	125052-08	Rear Log (#1)	1
2	125052-01	125052-02	125052-02	Bottom Left Log (#2)	1
3	125052-03	125052-04	125052-04	Bottom Right Log (#3)	1
4	125052-05	125052-06	125052-07	Front Log (#4)	1
5	120954-05	125052-09	125052-09	Top Left Log (#5)	1
6	120954-06	120954-06	120954-06	Top Middle Log (#6)	1
7	120954-07	120954-07	120954-07	Top Right Log (#7)	1
8	121079-01	121079-01	121079-01	Switch Log	1

PARTS

LOG SETS FOR MODELS LTF18-MO, LTF24-MO, LTF30-MO

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



PART NUMBERS

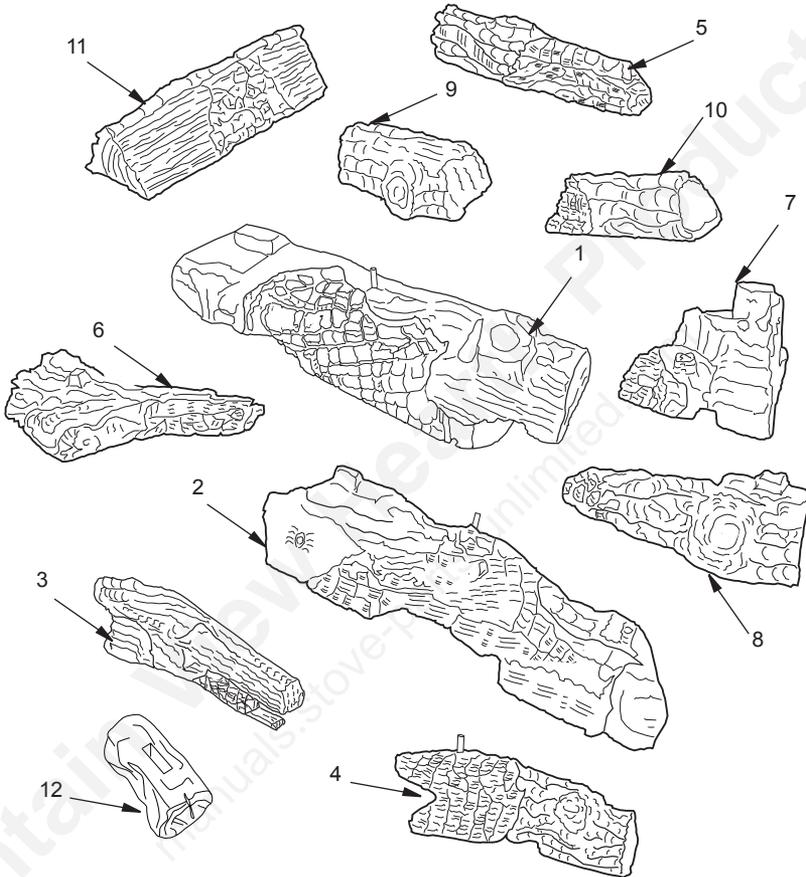
KEY NO.	LTF18-MO	LTF24-MO	LTF30-MO	DESCRIPTION	QTY
	125334-01	125334-02	125334-03	Log Set	1
1	125335-01	125336-01	125337-01	Rear Log #1	1
2	125335-02	125336-02	125337-02	Middle Log #2	1
3	125335-03	125336-03	125337-03	Front Left Log #3	1
4	125335-04	125336-04	125337-04	Front Right Log #4	1
5	125335-05	125336-05	125336-05	Left Top Back Log #5	1
6	125335-06	125336-06	125337-06	Left Top Front Log #6	1
7	125335-07	125336-07	125336-07	Right Crossover Log #7	1
8	125335-08	125336-08	125337-08	Center Crossover Log #8	1
9	125538-01	125538-01	125538-01	Switch Log	1

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.

PARTS

LOG SETS FOR MODELS LTF18-MM, LTF24-MM, LTF30-MM

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



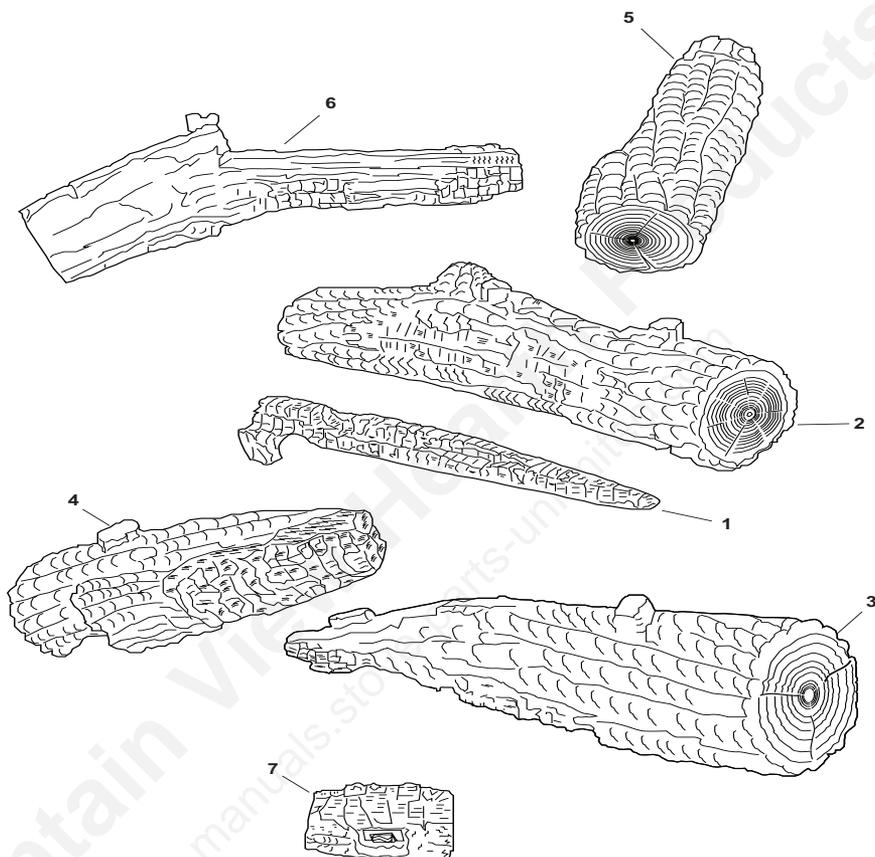
PART NUMBERS

KEY NO.	LTF18-MM	LTF24-MM	LTF30-MM	DESCRIPTION	QTY
1	125335-01	125336-01	125337-01	Rear Log #1	1
2	125563-01	125564-01	125565-01	Middle Log #2	1
3	125335-03	125336-03	125337-03	Front Left Log #3	1
4	125563-02	125564-02	125565-02	Front Right Log #4	1
5	125563-03	125564-03	125564-03	Left Top Back Log #5	1
6	125563-04	125564-04	125565-04	Left Top Forked Log #6	1
7	125563-05	125564-05	125565-05	Right Rear Chunk Log #7	1
8	125563-06	125564-06	125564-06	Front Right Middle Log #8	1
9	125563-07	125564-07	125565-07	Top Right Log #9	1
10	125563-08	125564-08	125564-08	Right Rear Top Log #10	1
11	125563-09	125564-08	125565-09	Left Top Log #11	1
12	125538-01	125538-01	125538-01	Switch Logs	1

PARTS

LOG SETS FOR MODELS LTF18-RS, LTF24-RS, LTF30-RS

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



PART NUMBERS

KEY NO.	LTF18-RS	LTF24-RS	LTF30-RS	DESCRIPTION	QTY
1	125867-03	125867-09	125867-09	Bottom Ember Log #1	1
2	125867-04	125867-10	125867-10	Rear Log #2	1
3	125867-02	125867-08	125867-14	Right Front Log #3	1
4	125867-01	125867-07	125867-13	Left Front Log #4	1
5	125867-06	125867-12	125867-12	Right Crossover Log #5	1
6	125867-05	125867-11	125867-11	Left Crossover Log #6	1
7	121079-01	121079-01	121079-01	Switch Log	1

WARRANTY

KEEP THIS WARRANTY

Model (located on product or identification tag) _____

Serial No. (located on product or identification tag) _____

Date Purchased _____

Keep receipt for warranty verification.

FMI PRODUCTS, LLC LIMITED WARRANTIES

New Products

Standard Warranty: FMI PRODUCTS, LLC warrants this new product and any parts thereof to be free from defects in material and workmanship for a period of four (4) years from the date of first purchase from an authorized dealer provided the product has been installed, maintained and operated in accordance with FMI PRODUCTS, LLC's warnings and instructions.

For products purchased for commercial, industrial or rental usage, this warranty is limited to 90 days from the date of first purchase.

Factory Reconditioned Products

Limited Warranty: FMI PRODUCTS, LLC warrants factory reconditioned products and any parts thereof to be free from defects in material and workmanship for 30 days from the date of first purchase from an authorized dealer provided the product has been installed, maintained and operated in accordance with FMI PRODUCTS, LLC's warnings and instructions.

Terms Common to All Warranties

The following terms apply to all of the above warranties:

Always specify model number and serial number when contacting the manufacturer. To make a claim under this warranty the bill of sale or other proof of purchase must be presented.

This warranty is extended only to the original retail purchaser when purchased from an authorized dealer, and only when installed by a qualified installer in accordance with all local codes and instructions furnished with this product.

This warranty covers the cost of part(s) required to restore this product to proper operating condition and an allowance for labor when provided by a FMI PRODUCTS, LLC Authorized Service Center or a provider approved by FMI PRODUCTS, LLC. Warranty parts must be obtained through authorized dealers of this product and/or FMI PRODUCTS, LLC who will provide original factory replacement parts. Failure to use original factory replacement parts voids this warranty.

Travel, handling, transportation, diagnostic, material, labor and incidental costs associated with warranty repairs, unless expressly covered by this warranty, are not reimbursable under this warranty and are the responsibility of the owner.

Excluded from this warranty are products or parts that fail or become damaged due to misuse, accidents, improper installation, lack of proper maintenance, tampering, or alteration(s).

This is FMI PRODUCTS, LLC's exclusive warranty, and to the full extent allowed by law; this express warranty excludes any and all other warranties, express or implied, written or verbal and limits the duration of any and all implied warranties, including warranties of merchantability and fitness for a particular purpose to four (4) years on new products and 30 days on factory reconditioned products from the date of first purchase. FMI PRODUCTS, LLC makes no other warranties regarding this product.

FMI PRODUCTS, LLC's liability is limited to the purchase price of the product, and FMI PRODUCTS, LLC shall not be liable for any other damages whatsoever under any circumstances including indirect, incidental, or consequential damages.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

For information about this warranty contact:


FMI PRODUCTS, LLC
2701 S. Harbor Blvd.
Santa Ana, CA 92704
1-866-328-4537
www.fmiproducts.com

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Rev. B
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