



Owner's Operation and Installation Manual

GLVF24MAN, GLVF24MAP, GLVF24MVN, GLVF24MVP

Certified to: CSA/ANSI Z21.11.2:19

Gas-fired Room Heaters, Volume II, Unvented Room Heaters

INSTALLER: Leave this manual with the appliance.

CONSUMER: Retain this manual for future reference.

⚠ -WARNING-

FIRE, EXPLOSION, AND ASPHYXIATION HAZARD

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

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

This appliance must be installed by a licensed plumber or gas fitter in the Commonwealth of Massachusetts and meet the requirements of 527 CMR 30 and 248 CMR.

⚠ -WARNING-

This Firebox is to be used only with certain vent-free gas log heaters (refer to table). Do not burn wood or other materials in this firebox.

⚠ -WARNING-

FOR USE ONLY WITH A LISTED GAS-FIRED UNVENTED DECORATIVE ROOM HEATER

NOT TO EXCEED 40,000 BTU/H. DO NOT BUILD A WOOD FIRE.

⚠ -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-

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.

⚠ -WARNING-

This is an unvented gas-fired heater. It uses air (oxygen) from the room in which installed. Provisions for adequate combustion and ventilation must be provided. See **Air for Combustion and Ventilation** section.

⚠ -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.



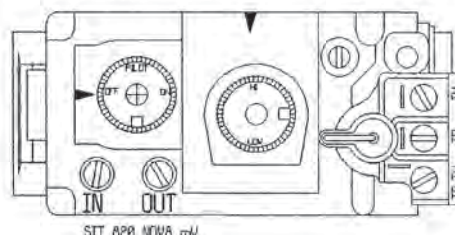
WARNING:

PLEASE VERIFY THE FOLLOWING STEPS ARE TAKEN WHEN INSTALLING A VENT FREE BURNER SYSTEM.

STEP 1: WHEN INSTALLING BURNER SYSTEMS, VERIFY THAT THE SERIAL NUMBER PLATE AND YELLOW BURNER INSPECTION TAG (LOCATED NEAR VALVE) ARE THE SAME TYPE OF GAS. SHOULD THE GAS TYPE NOT BE SAME, RETURN THE BURNER SYSTEM TO WHOM YOU PURCHASED IT FROM, AND ASK FOR A REPLACEMENT.

STEP 2: VERIFY THE WATER COLUMN PRESSURE (IN/OUT). (IF YOU DON'T KNOW HOW TO CHECK WATER COLUMN PRESSURE YOU SHOULD NOT BE INSTALLING THIS PRODUCT, CONTACT A LICENSED GAS FITTER.) THE OUTLET PRESSURE IS REQUIRED NOT TO EXCEED THE FACTORY SETTINGS. ADJUST PROPANE AT THE REGULATOR IF PRESSURES EXCEED THOSE RECOMMENDED, IF THE NATURAL GAS PRESSURE IS ABOVE 3 1/2" CONTACT THE FACTORY OR SALES REPRESENTATIVE WITH YOUR READING BEFORE YOU USE THE BURNER SYSTEM.

<u>TYPE OF GAS</u>	<u>INLET</u>	<u>OUTLET</u>
PROPANE	11"	10"
NATURAL GAS	5 1/2 - 7"	3 1/2"



STEP 3: THE POSITIONING OF THE LOGS IS CRITICAL FOR SAFE AND CLEAN OPERATION OF THIS HEATER. SOOTING AND OTHER PROBLEMS CAN OCCUR IF THE LOGS ARE NOT PROPERLY AND FIRMLY POSITIONED AS INSTRUCTED IN MANUAL. DO NOT ATTEMPT TO INSTALL LOGS IF THEY ARE DAMAGED OR BROKEN.

FAILURE TO FOLLOW AND COMPLY WITH THESE STEPS CAN CAUSE SOOTING AND KINGSMAN FIREPLACES WILL NOT BE RESPONSIBLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OR EXPENSES IN CONNECTION WITH ANY USE OR FAILURE OF THE VENT FREE BURNER SYSTEM.

READ OWNERS MANUAL CAREFULLY AND COMPLETELY BEFORE TRYING TO ASSEMBLE OPERATE, OR SERVICE THIS APPLIANCE.

Pre-installation Questions and Answers

About curing of the paint

Your stove or fireplace has been painted with the highest quality silicone stove paint. This paint dries quickly in 15-20 minutes when first applied at the factory. However, due to the high temperature silicone components, the paint will cure when heat is applied to the appliance as it is first used. The following information applies to the curing process to get the paint fully hard and durable.

Fire the appliance four successive times for 10 minutes each firing and a 5 minute cool down between each. Be aware during log and firebox paint curing that a white deposit may be developing on the inside of the glass doors. It is important to remove this white deposit from the glass doors using a fireplace glass cleaner.

- Babies, small children, pregnant women and pets should leave the area during the cure phase.
- Ventilate well, open doors and windows.
- Do not touch during curing.

Why does my fireplace or stove give off odor?

It is normal for your fireplace to give off some odor at first. This is due to the curing of the paint, adhesives, silicones and any undetected oil from the manufacturing process as well as the finishing materials used with the installations (e.g. marble, tile and the adhesives used to adhere this product to the walls can react with heat and cause odors).

It is recommended that you burn your gas fireplace or stove for a minimum of four hours at a time with the fan off (if a fan is present) after the curing of the paint has been completed. These odors can last upward to 40 hours of burn time; keep burning at a minimum of four hours per use until odors dissipate.

Noise coming from the fireplace?

Noise is caused by the expansion and contraction of metal as the appliance heats up and cools down. This is normal and is similar to the sounds produced by a furnace or heating duct. This noise does not affect the operation or longevity of your fireplace.

It is also normal for the fan to make some noise when it comes on. This noise can be reduced somewhat by turning down the speed of the fan with the variable speed control. Be aware, however, that this will reduce the volume of heated air circulated into the room by the fan.

Note to the Installer:

Be sure appliance is working properly and its operation (including remote control operation, if included) is fully explained to and understood by the customer.

Operations and Maintenance Instructions

For safe installation and operation note the following:

- Be sure to read and understand all the instructions in this manual before operation of appliance.
- Ensure all wiring is correct and properly enclosed to prevent possible shock.
- Check for gas leaks.
- Make sure venting and termination cap are installed and unobstructed.
- If brick or porcelain liners are used, ensure they are installed.
- Verify that the pilot can be seen when lighting the appliance. If not, the log or rock placement is incorrect.
- If the unit is turned off, you must wait a minimum of 60 seconds before re-lighting it.
- Venting systems should be periodically examined by a qualified agency.
- The flow of combustion and ventilation air must not be obstructed.
- The Burner/Log Assembly has been engineered and permanently adjusted for proper flame control.
- Periodically remove the logs from the grate assembly and vacuum any loose particles from the grate and burner areas. See Log Placement page to remove logs. Vacuum burner parts and replace logs.
- Never use your gas fireplace as a cooking device.
- Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.
- Areas in and around the Chase Vent Openings should be cleaned annually.

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Gas Specifications

Vent Free – Vented Gas Log Sets (Burner and Log Set are sold separately)

Burner Model	Log Size	Fuel Type	BTU Input	Manifold Pressure	Orifice Size	Primary Air	Rate Screw	Min/Max Inlet Press.
GLVF24MAN	24"	Natural Gas	25,500 - 38,250	1.5"-4.4"	32	0.218	182	5.5/10"
GLVF24MAP	24"	Liquid Propane	29,000 – 38,000	7" - 10"	49	Full Open	250	11/13"
GLVF24MVN	24"	Natural Gas	25,500 - 38,250	1.6" - 3.5"	32	0.218	N/A	5.5/10"
GLVF24MVP	24"	Liquid Propane	29,000 – 38,000	6.3" - 10"	49	Full Open	N/A	11/13"

Log Set required for each burner (above)

LOGF18	Log Set – Fibre Split Oak 18"
LOGF24	Log Set – Fibre Split Oak 24"
LOGF30	Log Set – Fibre Split Oak 30"

SAFETY INFORMATION

WARNINGS

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


Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness, and / or nausea. If you have these signs, the heater may not be working properly.

Get fresh air at once! Turn off gas appliance. Have appliance serviced. Some people (such as pregnant women, persons with heart or lung disease, persons with anemia and those at high altitudes) are more affected by carbon monoxide than others. Make certain you read and understand all warnings.

1. Solid fuels shall not be burned in a fireplace where a decorative appliance is installed.
2. The appliance and its appliance main gas valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psi (3.5 kPa). The appliance must be isolated from the gas piping system by closing its equipment shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psi (3.5 kPa).
3. Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.
4. Children and adults should be alerted to the hazards of the high surface temperature and should stay away to avoid burns or clothing ignition.
5. Young children should be carefully supervised when they are in the same room with the appliance.
6. Do not place clothing or other flammable material on or near the appliance.
7. Any safety screen or guard removed for servicing an appliance must be replaced prior to operating the heater.
8. Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean.

9. "WARNING: Any change to this heater or its controls can be dangerous."
10. This appliance is intended for supplemental heating.
11. Toddlers, young children, and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at risk individuals in the house. To restrict access to a fireplace or stove, install an adjustable safety gate to keep toddlers, young children and other at risk individuals out of the room and away from hot surfaces.
12. Under no circumstances should any solid fuels (wood, paper) be used in this appliance.
13. Under no circumstances should this appliance be modified. Any parts that have to be removed for servicing should be replaced prior to operating this appliance.
14. If the barrier becomes damaged, the barrier shall be replaced.
15. Make sure that the gas valve and pilot light are turned off before you attempt to clean this unit.
16. Clothing or other flammable material should not be placed on or near the appliance. This appliance should not be used as a drying rack for clothing nor should Christmas stockings or decorations be hung from it.
17. Do not use this heater if any part has been under water. Immediately call a qualified service technician to inspect the heater and to replace any part of the control system and any gas control which has been under water.
18. Do not operate appliance unless completely installed as per installation instructions.
19. Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.
20. **WARNING:** Do not operate appliance with the glass front removed, cracked, or broken. Replacement of the glass should be done by a licensed or qualified service person.
21. The appliance area must be kept clear and free from combustible materials, gasoline, and other flammable vapors and liquids.
22. The front of the fireplace gives off high temperatures that could ignite combustible material which is kept close to the front of the unit.

23. Ensure that power to the Fireplace is turned off before servicing.
24. Do not operate this Fireplace without the glass front or with a broken glass.
25. Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage. Refer to the owner's information manual provided with this appliance. For assistance or additional information consult a qualified installer, service agency, or the gas supplier.
26. Operation of this appliance when not connected to a properly installed and maintained venting system or tampering with the blocked vent shutoff system can result in carbon monoxide (CO) poisoning and possible death.
27. This appliance is equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug.
28. 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.
29. **WARNING:** This appliance is for installation only in a solid-fuel burning masonry or UL 127 factory-built fireplace or in a listed ventless firebox enclosure. It has been design certified for these installations. 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.
30. Never install the appliance in a bedroom, bathroom, mobile home, or recreational vehicle.

 **WARNING: Do not attempt to access or change the setting of the fuel selection means.**

Access to and adjustment of the fuel selection means must only be performed by a qualified service person when connecting this appliance to a specified fuel supply at the time of installation.

Change of the selector setting to other than the fuel type specified at the time of installation could damage this appliance and render it inoperable.

The installer shall replace the access cover before completing the installation and operating this appliance.

31. When the appliance is installed directly on carpeting, tile, or other combustible material, other than wood flooring, the appliance shall be installed on a metal or wood panel extending the full width and depth of the appliance.
32. **WARNING:** Do not allow fans to blow directly into the fireplace. Avoid any drafts that alter burner flame patterns.
33. **WARNING:** Do not use a blower insert, heat exchanger insert, or other accessory not approved for use with this heater.
34. A fireplace screen must be in place when the appliance is operating and, unless other provisions for combustion air are provided, the screen shall have an opening(s) for introduction of combustion air.
35. Solid-fuels shall not be burned in a fireplace in which an unvented room heater is installed.
36. Any outside air ducts and/or ash dumps in the fireplace shall be permanently closed at time of appliance installation.
37. State or local codes may only allow operation of this appliance in a vented configuration. Check your state or local codes.
38. This appliance shall not be field converted.
39. **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.

WARNING:

This appliance is equipped for (natural or propane) gas. Field conversion is not permitted.

AIR FOR COMBUSTION AND VENTILATION

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.

WARNING

This firebox shall not be installed in a confined space unless provisions are provided for adequate combustion and ventilation air. Read the following instructions to insure proper fresh air for this and other fuel-burning appliances in your home.

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, fireboxes, 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, NFPA 54/ANSI Z223.1, Section 5.3, 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.

Unusually Tight Construction

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

Unusually tight construction is defined as construction where:

- a. walls and ceilings exposed to the outside atmosphere have a continuous water vapor retarder with a rating of one perm (6 x 10⁻¹¹ per pasc-second) 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*.

Confined and Unconfined Space

The National Fuel Gas Code (*ANSI Z223.1, 1992 Section 5.3*) defines a confined space as a space whose volume is less than 50 cubic feet per 1,000 btu per hour (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 AIR FLOW FOR FIREBOX LOCATION

Determining if You Have a Confined or Unconfined Space

Use the work sheet on the next page to determine if you have a confined or unconfined space.

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

AIR FOR COMBUSTION AND VENTILATION Cont.

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 22ft. (length) x 18 ft. (width) x 8 ft. (ceiling height) = 3168 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. Divide the space volume by 50 cubic feet to determine the maximum Btu/Hr the space can support.
_____ (volume of space) ÷ 50 cu. ft. = 63.3 or 63,300 (maximum Btu/Hr the space can support)

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

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

Example:	Gas water heater	40,000 Btu/Hr
	Vent-free firebox with log heater	+ 39,000 Btu/Hr
	Total	= 79,000Btu/Hr

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

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 of Btu/Hr used)

Example: 63,300 Btu/Hr (maximum the space can support)
79,000 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 a follows:

- A. Rework work sheet, 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*.
- B. Vent room directly to the outdoors. See *ventilation Air from Outdoors*.
- C. Install a lower Btu/Hr firebox, 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 firebox and gas log heater may be operated is smaller than that defined as an unconfined space, provide adequate combustion and ventilation air by one of the methods described in the National Fuel Gas Code, ANSI Z223.1, 1992, Section 5.3.

AIR FOR COMBUSTION AND VENTILATION Cont.

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. You can also remove door into adjoining room. Follow the *National Fuel Gas Code NFPA 54/ANSI Z223.1, Section 5.3, Air for Combustion and Ventilation* for required size of ventilation grills or ducts.

WARNING

Rework worksheet, adding the space of the adjoining unconfined space. The combined spaces must have enough fresh air to supply all appliances in both spaces.

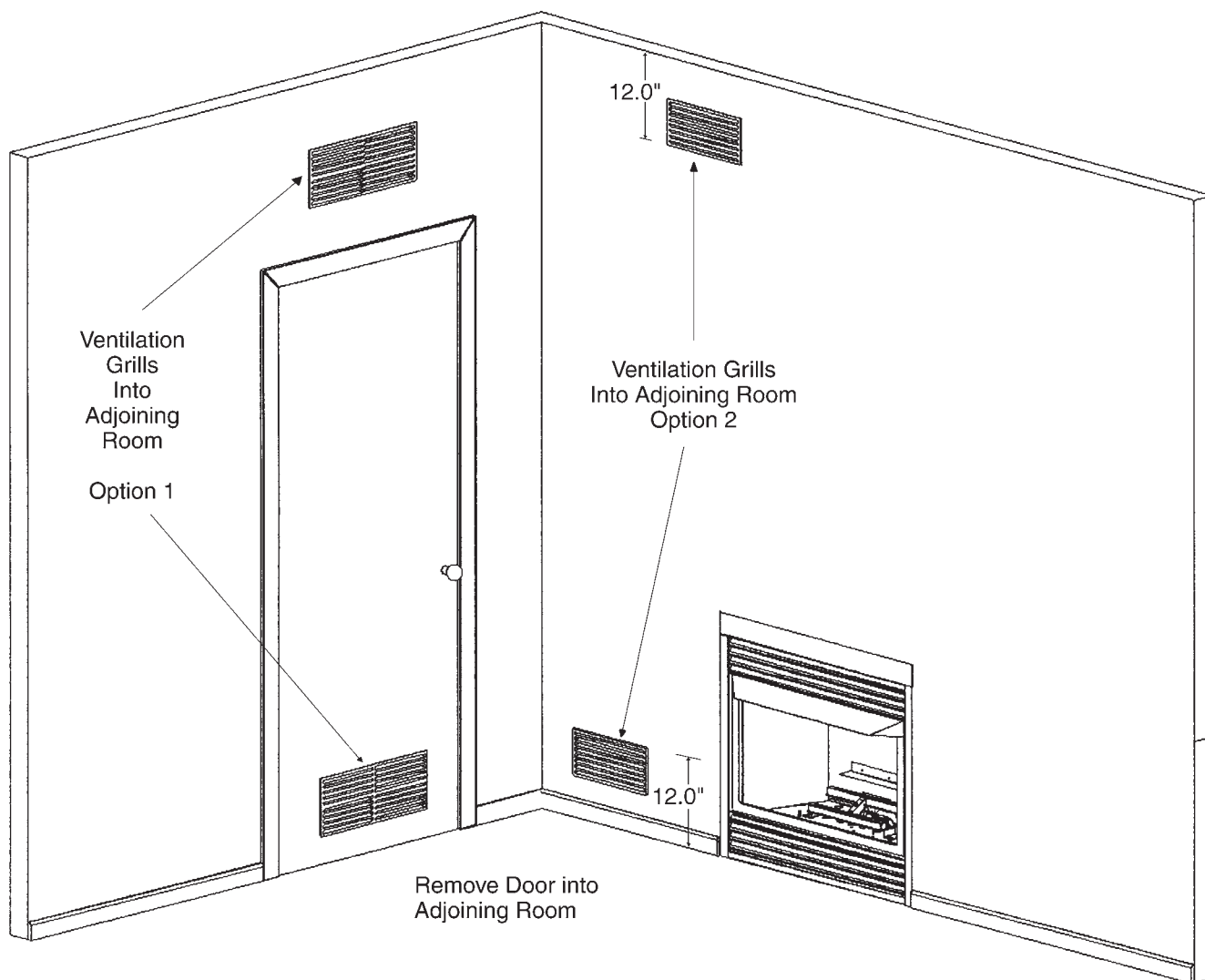


FIGURE 5 - Ventilation Air from Inside Building

AIR FOR COMBUSTION AND VENTILATION Cont.

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.

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.

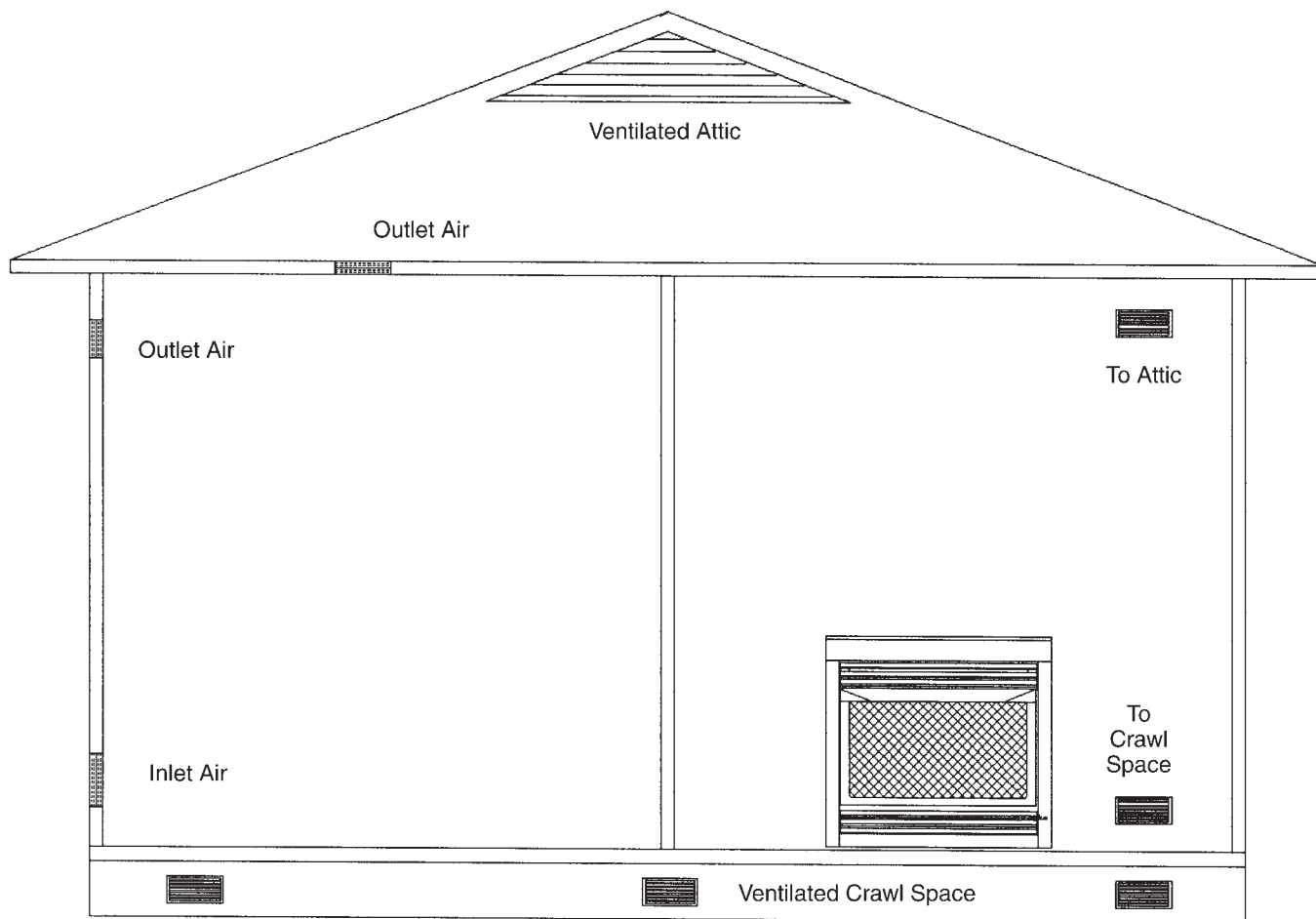


FIGURE 6 - Ventilation Air from Outdoors

INSTALLING – Clearances

INSTALLATION CLEARANCES (VENT FREE APPLICATION ONLY)

Minimum noncombustible material above fireplace opening must be no less than shown in the figures above. Noncombustible materials (slate, marble, tile, etc.) must be at least 1/2" thick, if sheet metal is used, you must have a non-combustible material behind it.

IMPORTANT: If these minimum clearances are not possible or if local codes do not permit vent-free operation, you must operate the heater with the damper open.

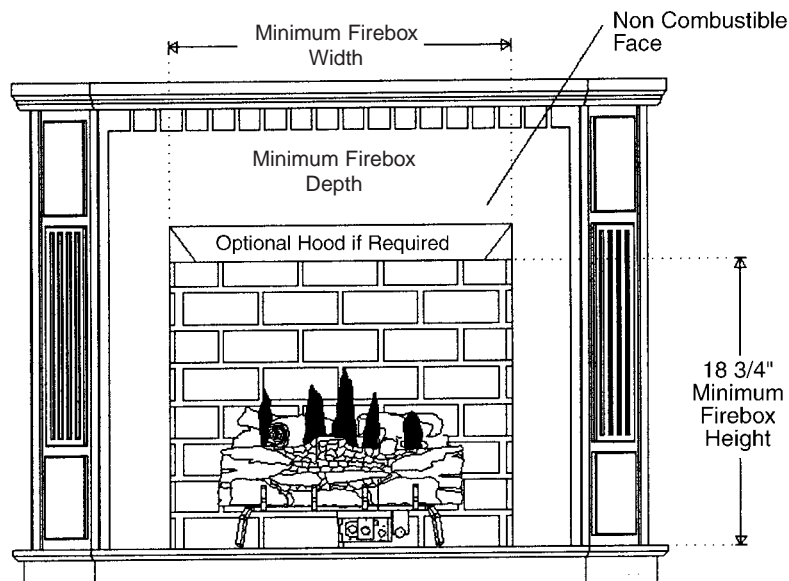


FIGURE 6 – Installation Clearances

	Minimum Fireplace Dimensions			
	Front width	Back Width	Height	Depth
For 18" LOGS	22"	19"	18-3/4"	12-1/2"
For 24" LOGS	29"	22 1/2"	18 3/4"	12 1/2"
For 30" LOGS	38"	28"	18 3/4"	13 1/2"

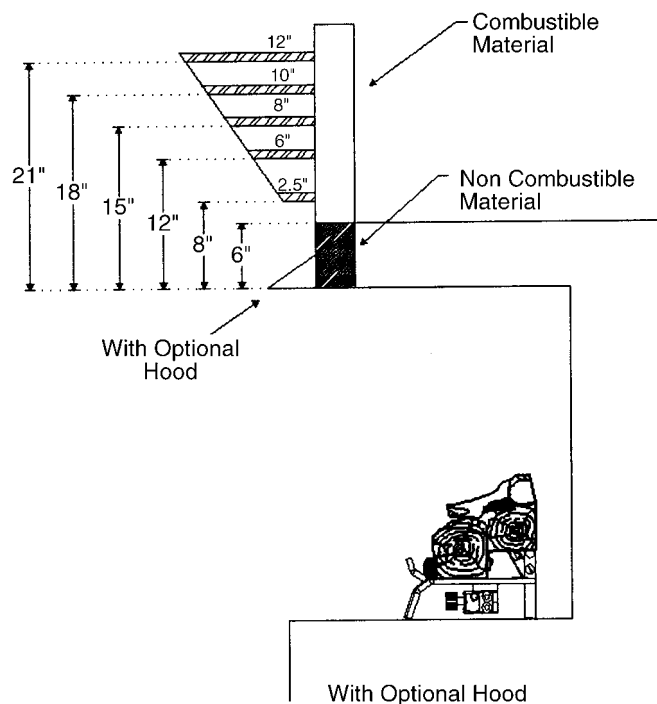
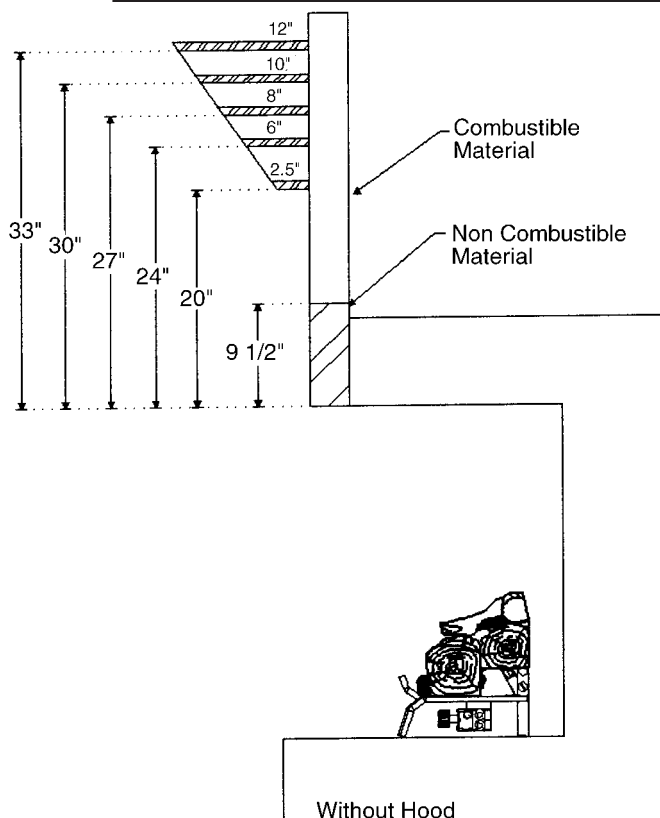


FIGURE 7 – Mantel Clearances.

INSTALLING – Gas Line

INSTALLING GAS LINE

Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness, and / or nausea. If you have these signs, the heater may not be working properly. **Get fresh air at once!** Turn off gas appliance. Have appliance serviced. Some people (such as pregnant women, persons with heart or lung disease, persons with anemia and those at high altitudes) are more affected by carbon monoxide than others. Make certain you read and understand all warnings. Place Burner Base / Grate Assembly in center of firebox and connect flexible gas line to incoming black iron pipe gas line.

Do not connect appliance before pressure testing gas piping. Damage to gas valve may result and an unsafe condition may be caused.

Prepare incoming black iron gas line with **Teflon tape** or **pipe joint compound** (check with local codes about the use of Teflon tape). Compounds used on threaded joints of gas piping shall be resistant to the action of Liquefied Petroleum (LP or Propane) and should be applied lightly to ensure excess sealant does not enter the gas line.

Complete your gas installation by connecting incoming gas line to regulator. Secure all joints tightly with wrench but **do not over-tighten**. If a flexible gas line is used, take care not to kink connector. The burner pressure is controlled by the
(cont'd. on next page)

DANGER

**CARBON MONOXIDE POISONING
MAY LEAD TO DEATH!**

WARNING

Any changes to this heater or its controls can be dangerous.

NOTICE

Installation and repair should be done by a qualified service person well trained in the installation of such appliances. You will also need a building permit from your local Building Commissioner before installing this appliance, otherwise your insurance company may not cover this appliance.

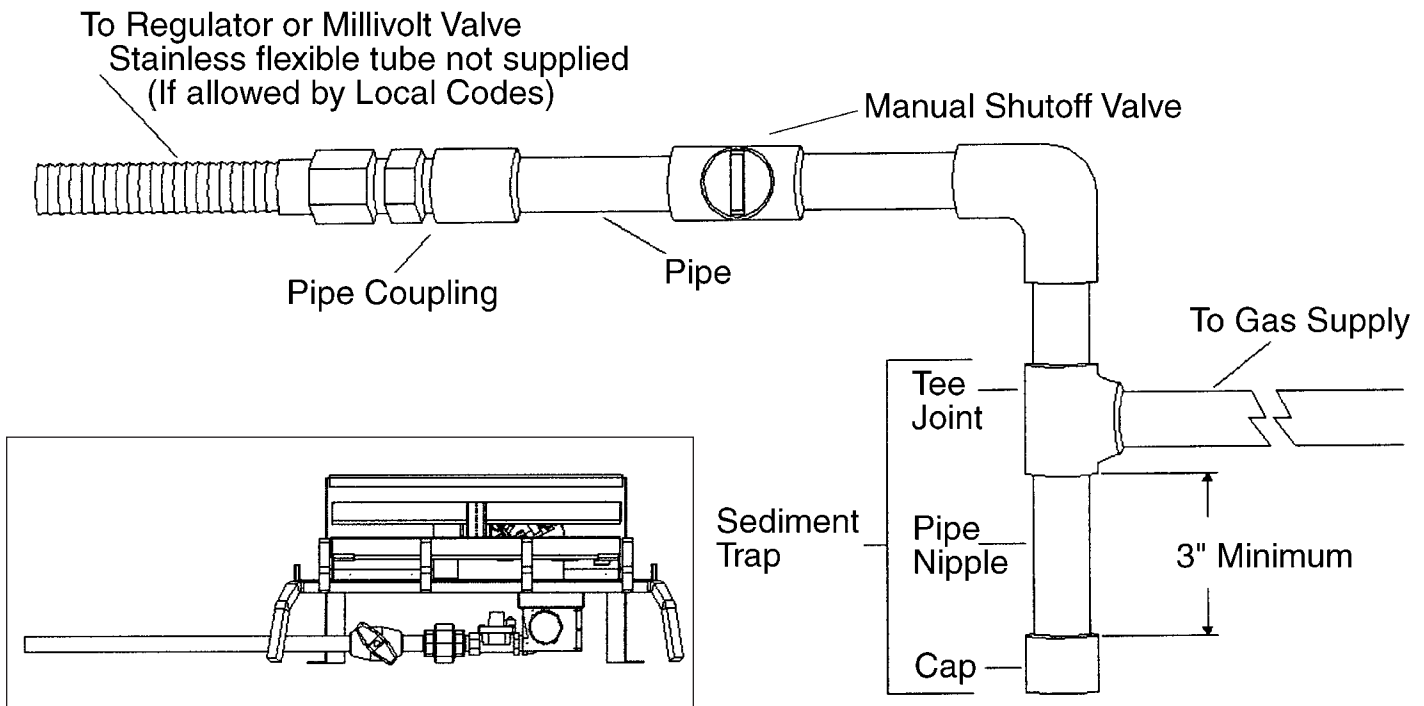


FIGURE 9, 9a – Gas line and manual shutoff valve

INSTALLING – Gas Line Cont.



CAUTION

Any safety screen or guard removed for servicing an appliance must be replaced prior to operating the heater.

NOTICE

A qualified gas appliance installer must connect the fireplace to the gas supply. Consult all local codes.



CAUTION

Use new black pipe only. Internally tinned copper tubing can be used in some areas when permitted by local codes. Only use pipe of 1/2" or greater diameter to allow full gas volume to heater. Excessive pressure loss will occur if the pipe is too small.

A manual shutoff valve, union and plugged 1/8" NPT pressure tap pointer must be installed upstream of the heater.

A sediment trap must be installed upstream of the heater to prevent moisture and contaminants from passing through the pipe to the heater controls and burners. Failure to do so could prevent the heater from operating reliably.

regulator. Check pressure at the pressure test point, which is located on the side of the gas control near the pilot outlet. Make sure that the pressure tap is completely closed after checking gas pressure. The pressure should be checked with the appliance burning and the control set on high.

IMPORTANT: Loosen the pipe adapter on the flex tube before installing to the system piping.

CHECK GAS TYPE: The gas supply must be the same as stated on the heater's rating plate. If the gas supply is different, Do Not Install the heater. Contact your dealer for the correct model.



CAUTION

All gas piping and connections must be tested for leaks after installation is completed. To test, turn gas valve on, then apply a soap and water solution to all connections and joints. If bubbles appear, leak can be detected and corrected. **Never use an open flame for leak testing. Never operate any appliance if a leak is detected!**

For the state of Massachusetts a **T-handle gas shut-off valve** must be used on a gas appliance. This T-handle gas shut-off valve must be listed and approved by the state of Massachusetts. This is in reference to the state of Massachusetts state code CMR238.

INSTALLING – Burner System

CLEANING AND SERVICING OF BURNER / ODS PILOT

It is recommended to annually inspect and clean the unit to prevent malfunction and / or sooting. This operation should be performed by your dealer or a qualified technician.

Remove log set, handling carefully by holding gently at each end. (Refer to *Log Placement section*.) Gloves are recommended to prevent skin irritation from ceramic.

Annual Cleaning / Inspection

- Do not use cleaning fluids to clean logs or any part of the heater.
- Use a soft bristle brush or a vacuum with brush attachment.
- Vacuum loose particles and dust from burner ports, valve and blower compartments.
- Vacuum any accumulation of lint from primary mixing tube.
- Inspect ODS pilot for operation, accumulation of lint at the air inlet holes.
- Verify flame pattern and log placement for proper operation.
- Verify that all ports ignite and cross over smoothly from rear to front burner.

WARNING

Turn off heater and allow to cool before cleaning. Only a qualified service technician should service and repair appliance.

WARNING

Failure to keep primary air openings clear, may result in sooting and property damage.

CAUTION

Never use a wire, needle, or similar object to clean ODS / Pilot. This can damage ODS / Pilot.

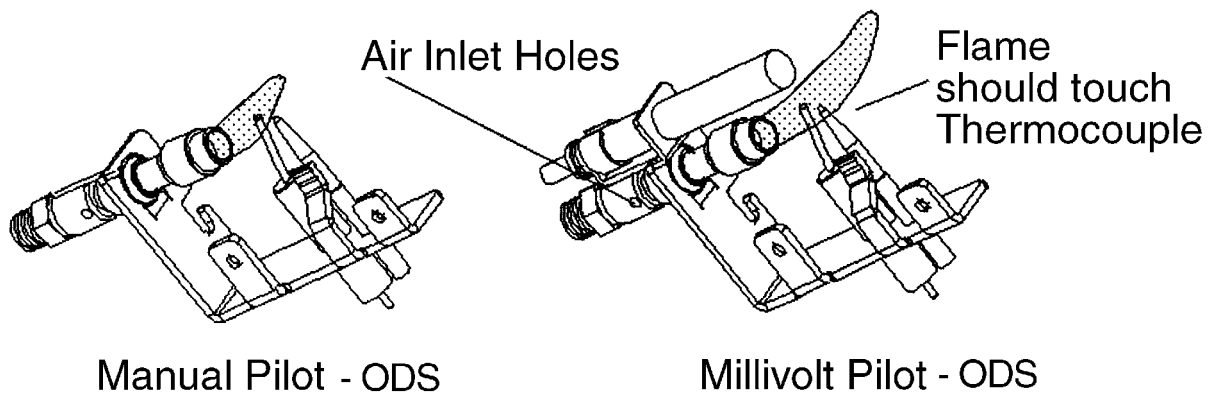


FIGURE 10 – ODS Pilot, both manual and Millivolt pilot flames shown

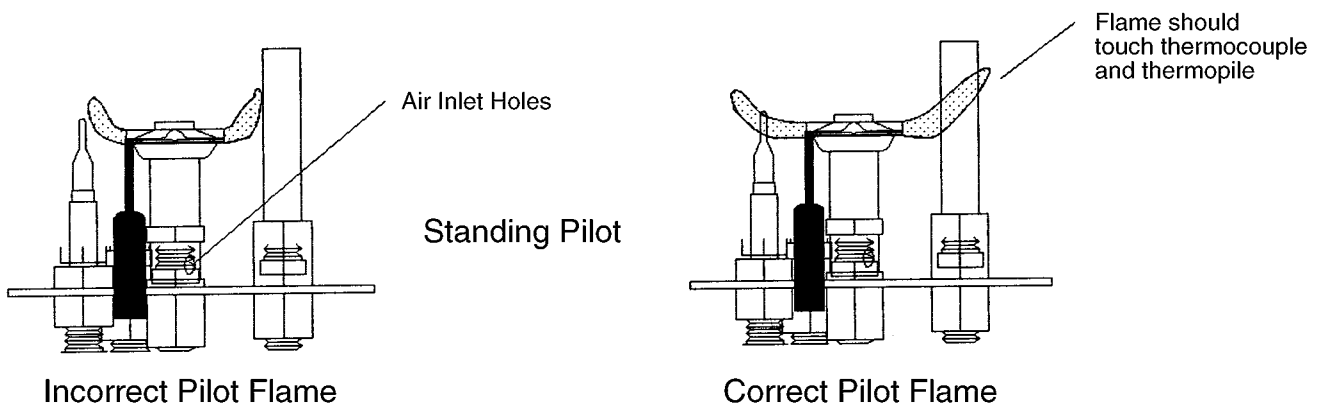


FIGURE 11 – Standing Pilot

INSTALLING – Log Grate

ATTACHING LOG GRATE TO FIREPLACE BASE

1. Position log grate into fireplace and mark screw locations on each side of mounting bracket.
2. Remove grate assembly, drill 2 holes at the marked locations.
3. Attach grate assembly to fireplace base. (Screws not provided.)
4. Connect to gas supply.



WARNING

You must secure this heater to fireplace base, or heater will move when you adjust controls. Moving heater may cause a gas leak and may result in property damage or personal injury.

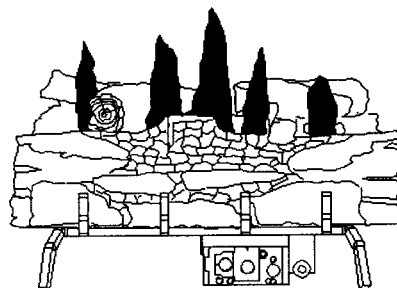
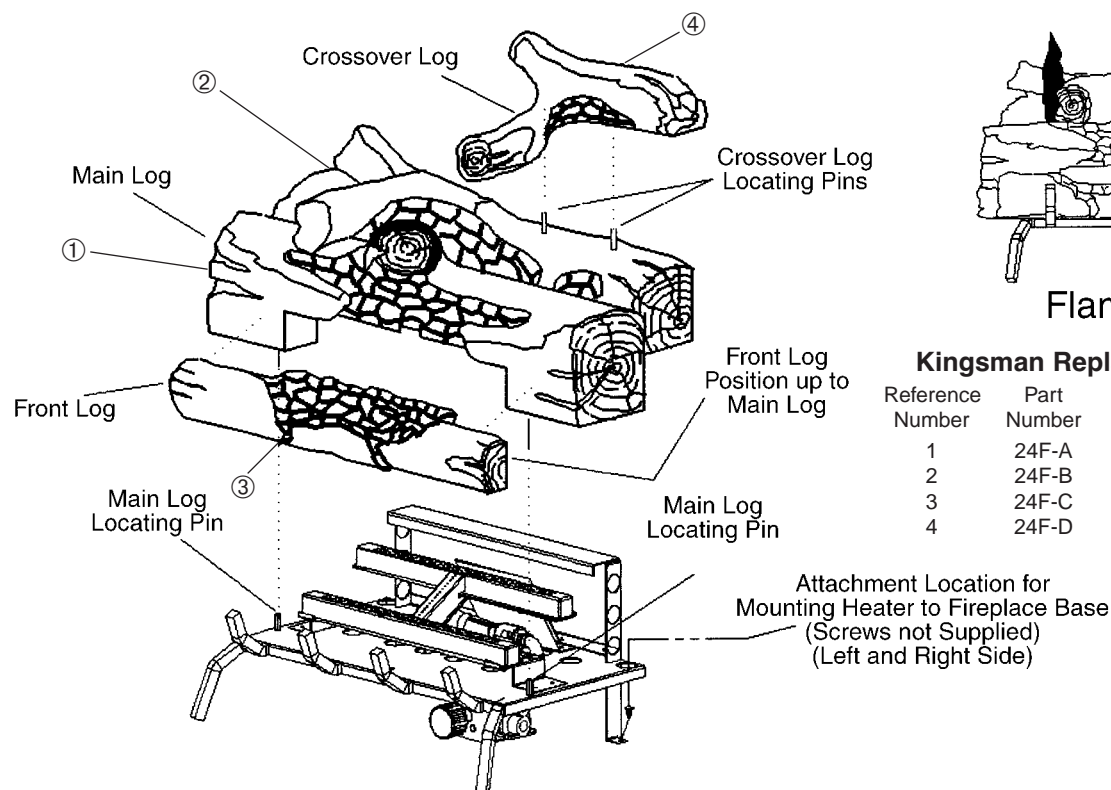
INSTALLATION OF LOGF24 LOGSET

1. Place main log on locating pins on burner grate bottom.
2. Place crossover log on locating pins on top of rear main log.
3. Position front log flat surface up to main log.



WARNING

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



Flame Pattern

Kingsman Replacement Log Listing

Reference Number	Part Number	Description
1	24F-A	Front Main Log A, LOGF24
2	24F-B	Rear Main Log B, LOGF24
3	24F-C	Front Log C, LOGF24
4	24F-D	Crossover Log D, LOGF24

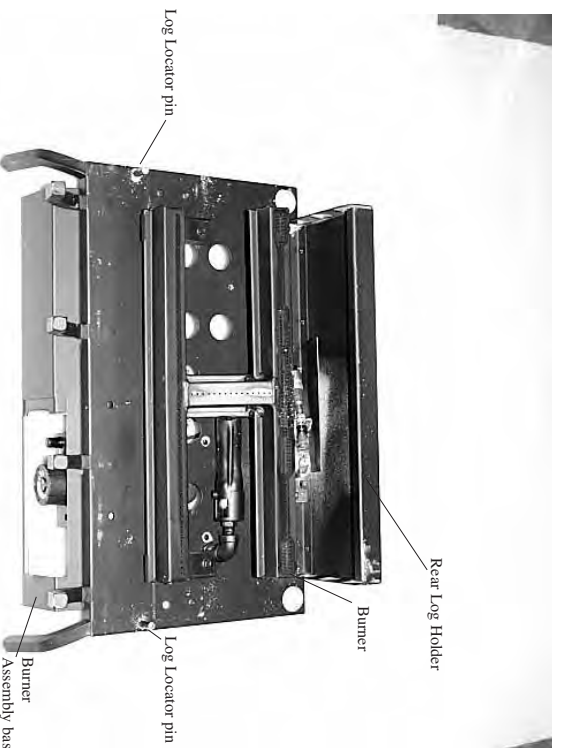
FIGURE 12 – Log Placement



WARNING

The positioning of the logs is critical for the safe and clean operation of this heater. Sooting and other problems can occur if the logs are not properly and firmly positioned in the heater. Never add additional logs or embellishments such as pine cones, vermiculite, volcanic rock or rock wool to the heater.

LOGF18 PLACEMENT GUIDELINES



Step (1) Remove logs from carton and inspect each log.



Step (3) Locate hole on the underside of Log D. Place log over front burner and locator pin then lower into position (as illustrated).

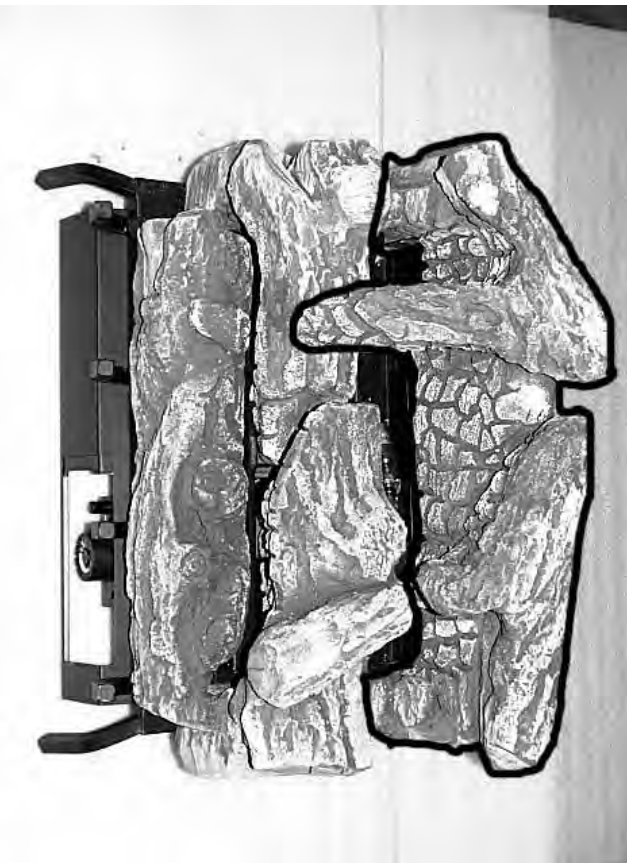


Step (2) Locate hole on the underside of Log C. Place log over front burner and locator pin then lower into position (as illustrated).



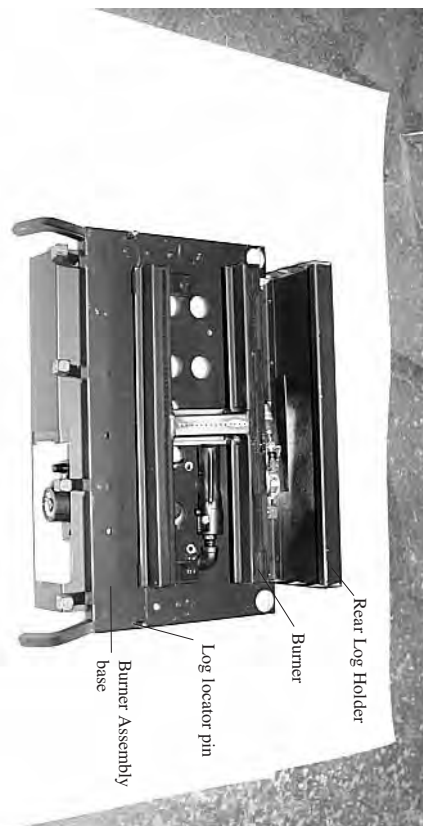
Step (4) Using Log B, place flat surface of the log onto burner assembly base. Push log up to Log C & D.

LOGF18 PLACEMENT GUIDELINES (continued)



Step (5) Place log A onto rear log holder and pull up to log C & D.

LOGF24 PLACEMENT GUIDELINES



Step (1) Remove logs from carton and inspect each log.



Step (3) Position rear main log B onto rear log holder located on rear of firebox. Position locking tabs of rear main log B into locking tabs of front main log A.



Step (2) Place front main log A on log locator pins.



Step (4) Place crossover log D onto the retainer pins located on the top of rear main log B.

LOGF24 PLACEMENT GUIDELINES (continued)

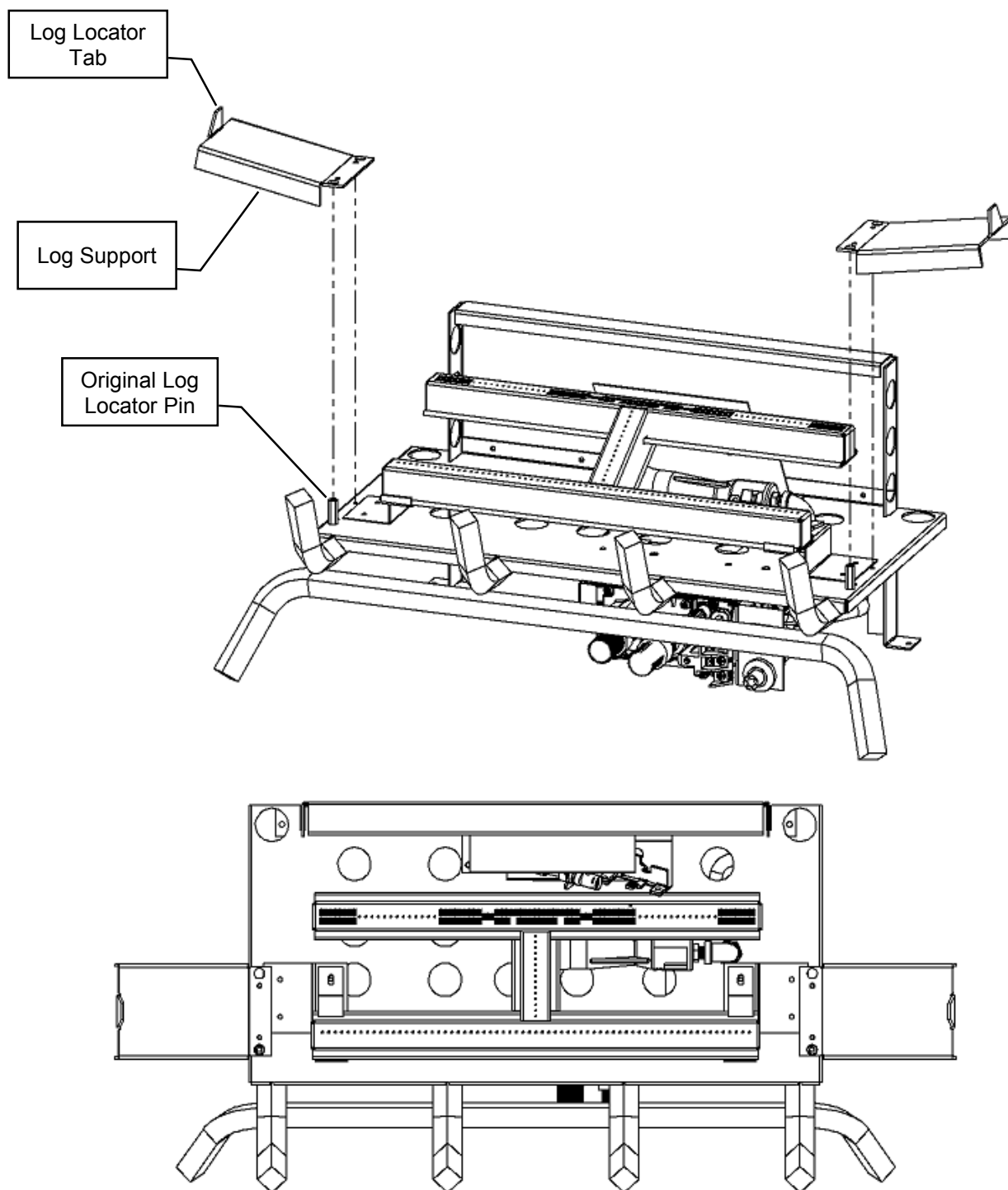


Step (5) Place Log C onto front burner.

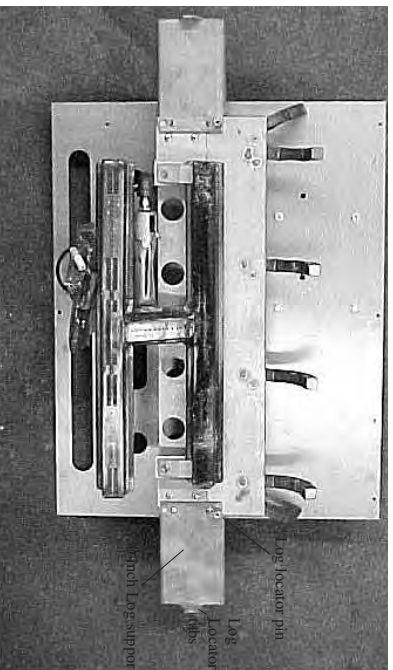
LOGF30 Log Installation

1. Align front hole of log support plate with original log locator pin.
2. Slide log support over pin & using two 10-24 DT screws, mount plate to burner grate.

NOTE: Make sure log support is tight against side of burner grate before fastening.



LOGF30 PLACEMENT GUIDELINES



When using the LOGF30 log, you must attach the 30 inch log supports found in the log set.

Step (1) Align front hole of 30 inch log support plate with original log locator pin.

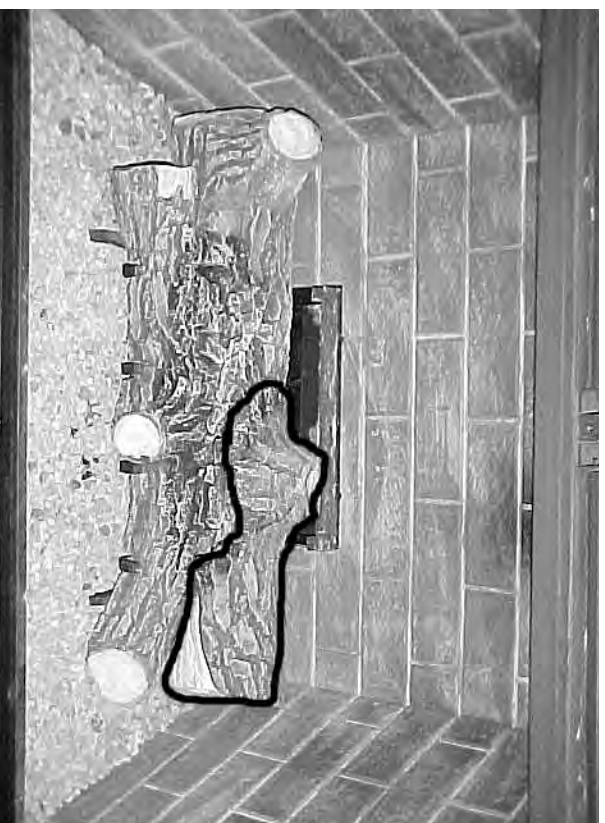
Step (2) Slide the 30 inch log support over log locator pin. Using two 6-32 x 5/16 screws, mount plate to burner grate. NOTE: Make sure log support is tight against side of burner grate before fastening.



Step (3) Place front log by positioning the notches on the underside of the front log with the grate bars and pull forward.

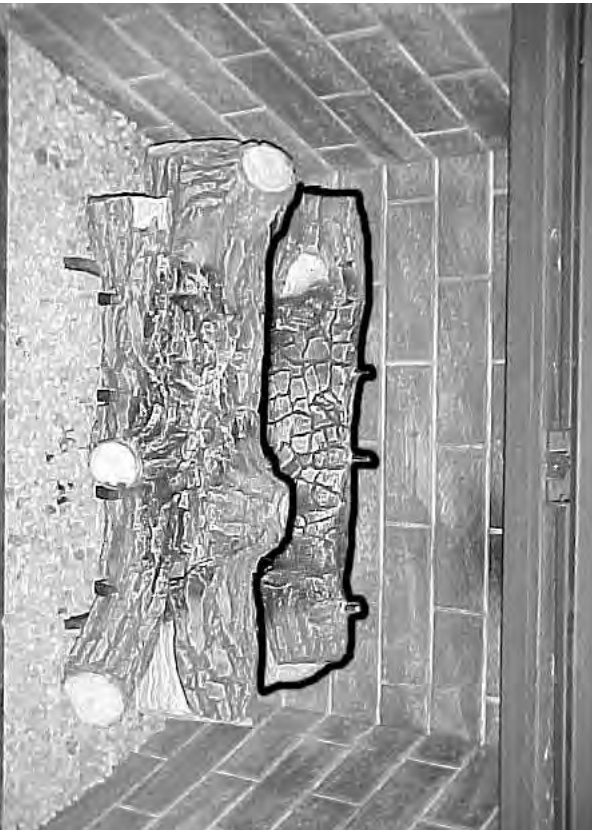


Step (4) Place left front log by positioning the slot (located on the bottom of log) with log retainer tab and lower into position.

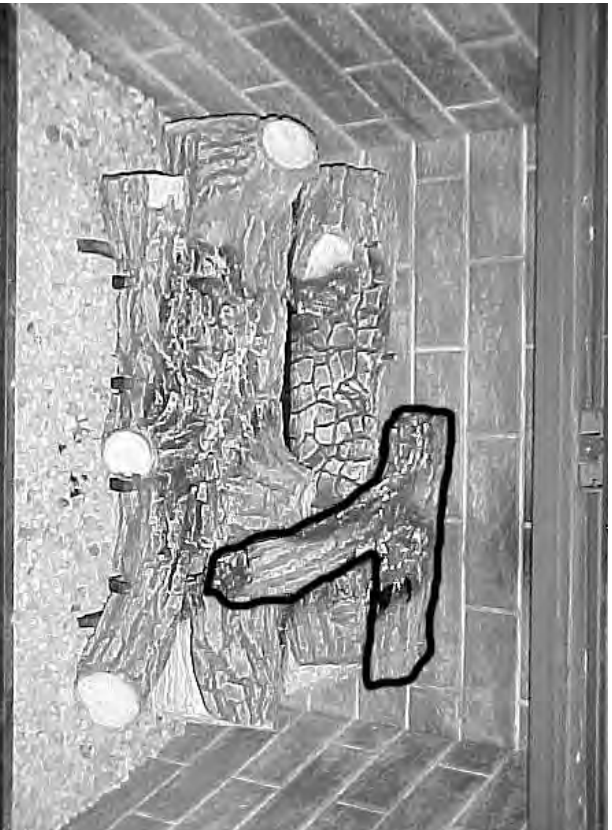


Step (5) Place right front log by positioning the slot (located on bottom of log) with log retainer tab and lower into position.

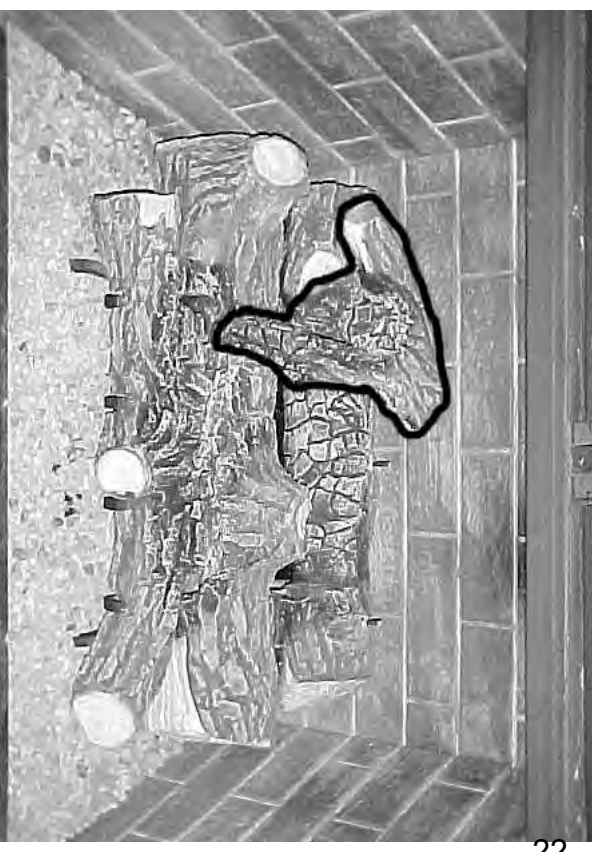
LOGF30 PLACEMENT GUIDELINES (continued)



Step (6) Place rear log onto the rear log holder and pull up to the left and right front logs.



Step (8) Line up right crossover log with locator pins and lower into position.



Step (7) Line up left crossover log with locator pins and lower into position.



Complete LOGF30 Logset.

- MILLIVOLT LIGHTING INSTRUCTIONS -

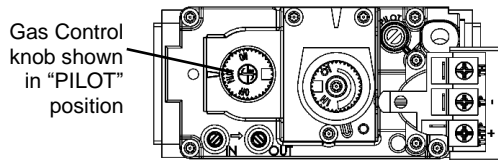
FOR YOUR SAFETY READ BEFORE LIGHTING

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

- A. This appliance is equipped with an ignition device which must be lighted by hand. When lighting the pilot, follow these instructions exactly.
- B. **BEFORE LIGHTING** smell around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
WHAT TO DO IF YOU SMELL GAS
 - Do not try to light any appliance.
 - Do not touch any electric switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, do not try to repair it; call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and replace any part of the control system and any gas control which has been under water.

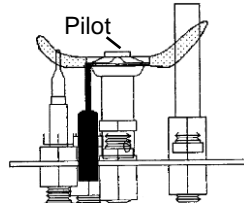
LIGHTING INSTRUCTIONS

1. **Stop!** Read the safety information above on this label.
2. Set the thermostat to lowest setting.
3. Locate the valve underneath the burner.
4. Push in the gas control knob slightly and turn clockwise to "OFF".



NOTE: Knob cannot be turned from "PILOT" to "OFF" unless knob is pushed in slightly. Do not force.

5. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above this label. If you do not smell gas, go to next step.
6. Locate the pilot behind the Main Burner.
7. Turn knob on gas control counterclockwise to "PILOT" position.



8. Push in control knob all the way and hold in. With the other hand push in the red igniter button until you hear a click. Now observe closely the pilot burner located at the center behind the main burner. If a flame has appeared then continue to depress the control knob for 20 seconds. If the flame did not appear, continue to depress the red igniter button every 5 seconds until a flame is established. NOTE: If after 30 seconds a flame has not yet been established then turn the control knob back to the off position and repeat steps 5, 6 & 7.
9. Once the pilot has been established hold the control knob in the depressed position for approximately 25 seconds before releasing. If the flame goes out then repeat steps 7 and 8.
 - If the knob does not pop up when released, stop and immediately call your service technician or gas supplier.
 - If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.
10. Push in the gas control knob slightly and turn clockwise to the on position. The burner will not light unless the wall switch is turned "ON" or in the case of a thermostat there is a call for heat.

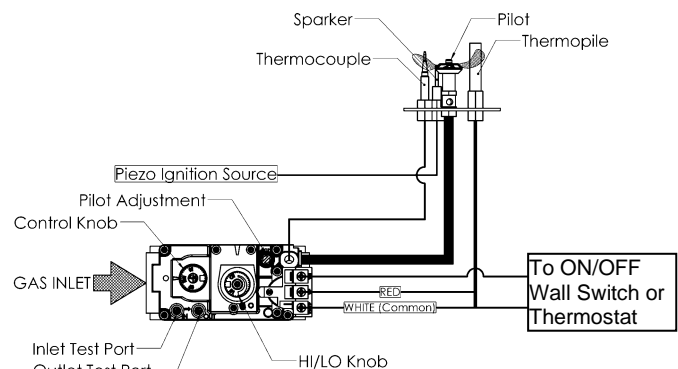
TO TURN OFF GAS TO APPLIANCE

1. Turn wall switch "OFF" or in the case of a thermostat set to lowest setting.
2. Push in the gas control knob slightly and turn clockwise to "OFF". Do not force.

Recommended Maximum Lead Length (Double Wire) When Using Wall Switch or Thermostat

Wire Size	Max. Length
14ga	100ft [30.4m]
16ga	64ft [19.5m]
18ga	40ft [12.1m]
20ga	25ft [7.6m]
22ga	15ft [4.5m]

CAUTION: DO NOT WIRE 120V POWER TO MILLIVOLT SWITCHES OR THERMOSTAT.



- MANUAL LIGHTING INSTRUCTIONS -

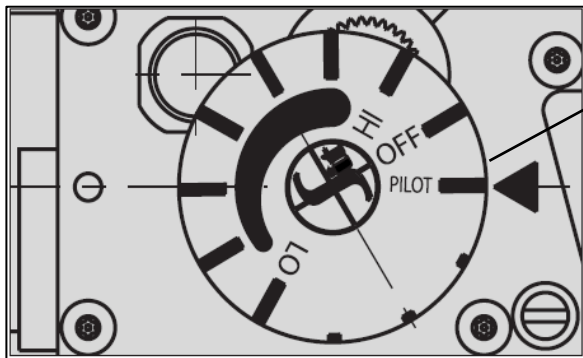
FOR YOUR SAFETY READ BEFORE LIGHTING

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

- A. This appliance is equipped with an ignition device which must be lighted by hand. When lighting the pilot, follow these instructions exactly.
- B. **BEFORE LIGHTING** smell around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
- WHAT TO DO IF YOU SMELL GAS
- Do not try to light any appliance.
 - Do not touch any electric switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, do not try to repair it; call a qualified service technician. Force or attempted repair may result in a fire or explosion
- D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and replace any part of the control system and any gas control which has been under water.

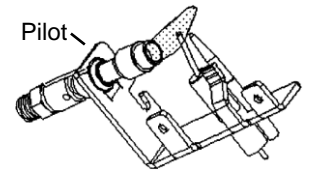
LIGHTING INSTRUCTIONS

1. **Stop!** Read the safety information above on this label.
2. Set the thermostat to lowest setting.
3. Locate the valve underneath the burner.
4. Rotate the gas control knob clockwise ↻ to "OFF".



5. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above this label. If you do not smell gas, go to next step.

6. Locate the pilot behind the Main Burner.
7. Turn knob on gas control counterclockwise ↻ to "PILOT" position.

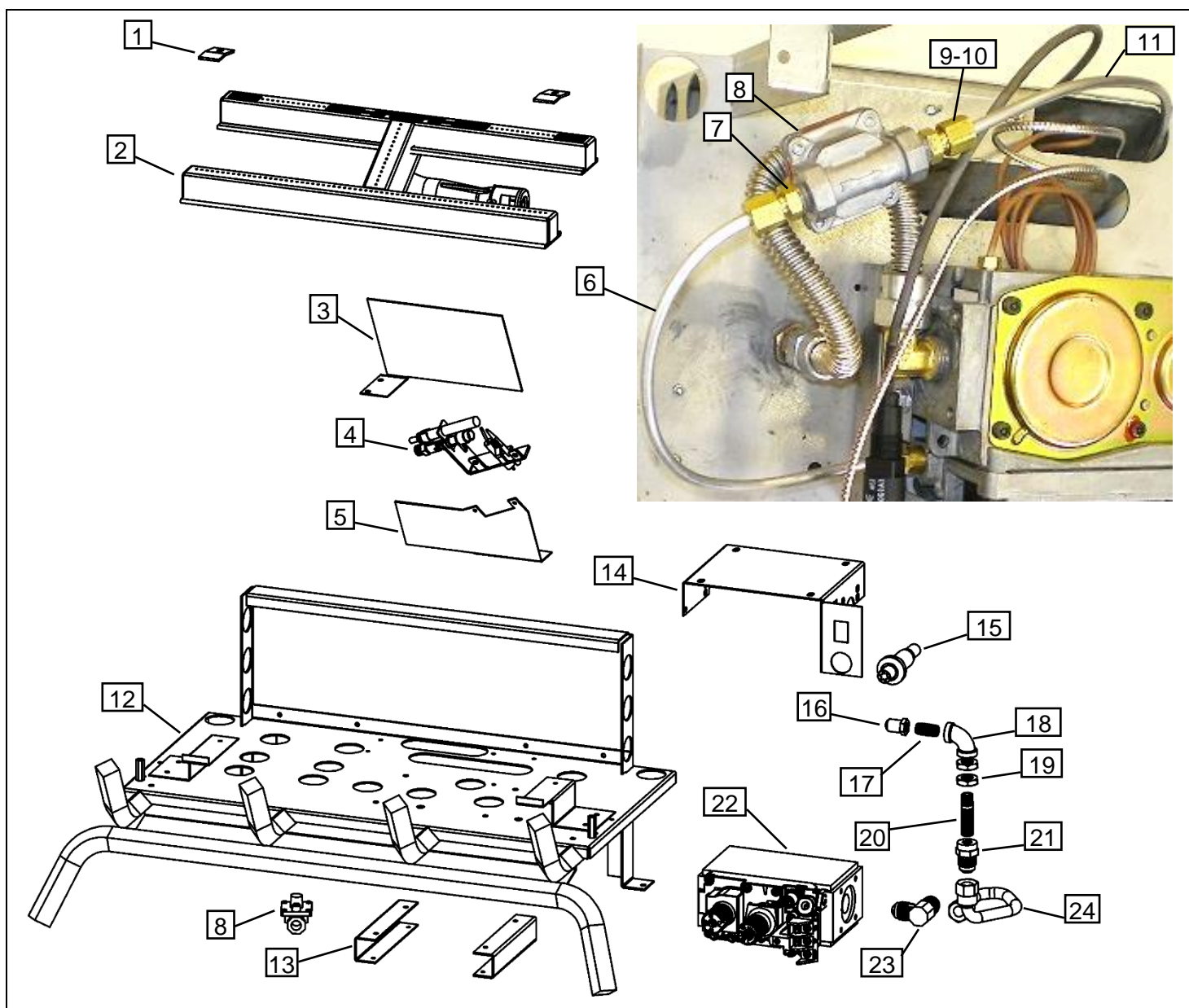


8. Push in control knob all the way and hold in. Immediately light the pilot with a match. Keep the knob fully depressed for thirty (30) seconds or more, until a strong pilot flame is present. Release the knob and verify that the pilot flame remains lit. If pilot goes out, repeat steps 4 through 8.
- If the knob does not pop up when released, stop and immediately call your service technician or gas supplier.
 - If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.
9. Turn the gas control knob clockwise ↻ to desired setting. The burner will not light unless the wall switch is turned "ON" or in the case of a thermostat there is a call for heat.

TO TURN OFF GAS TO APPLIANCE

1. Turn wall switch "OFF" or in the case of a thermostat set to lowest setting.
2. Turn the gas control knob counterclockwise ↻ to the "OFF" position.

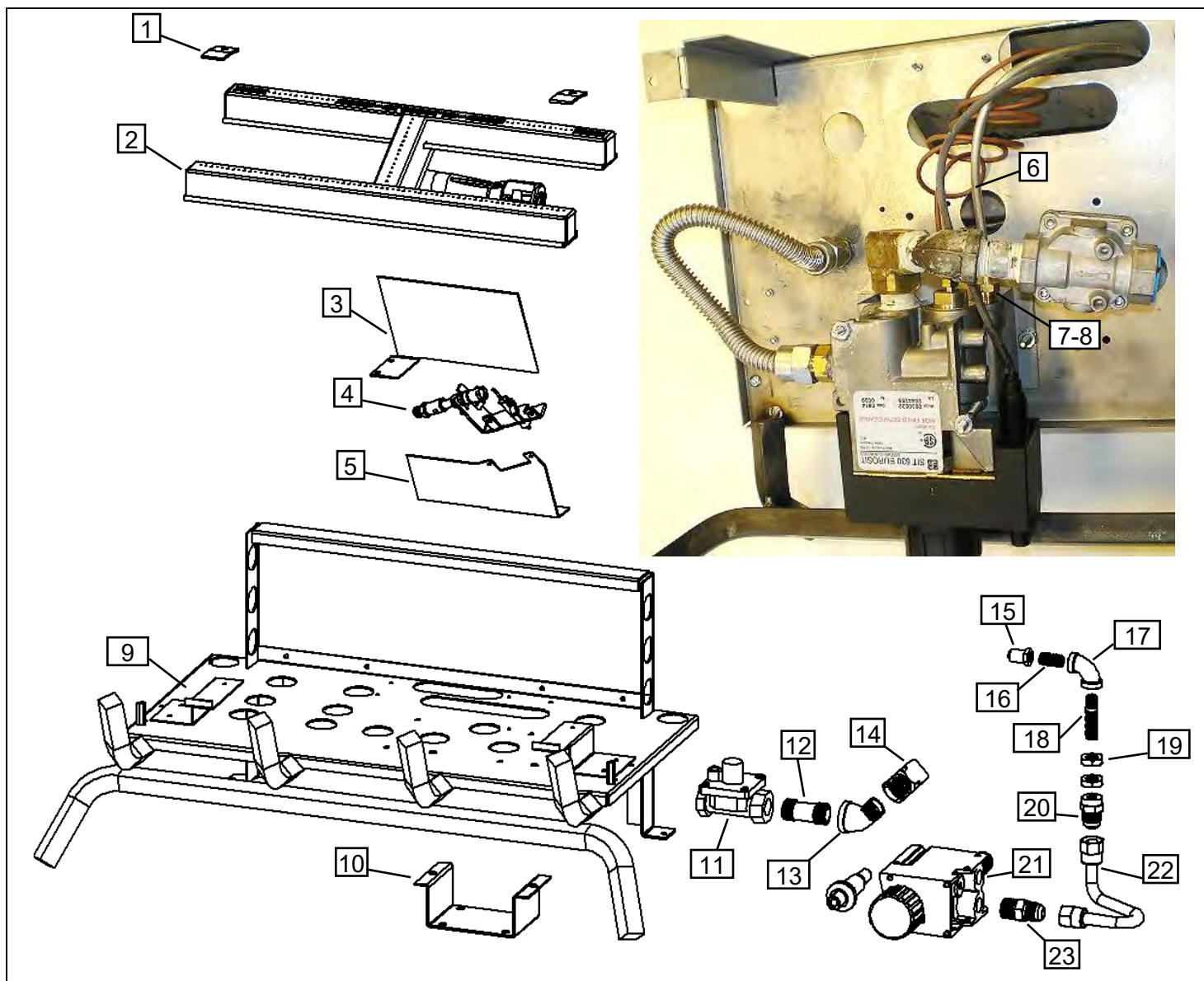
Parts List GLVF24MVN / GLVF24MVP



No.	GLVF24MVN	GLVF24MVP	Description
1.	4200-132	4200-132	Burner Hold Down
2.	24GL-200A	24GL-200A	Burner Assembly
3.	33VF-113	33VF-113	Oxygen Depletion Shield
4.	33VF-P8214	33VF-P8404	ODS Pilot
5.	33VF-106	33VF-106	Pilot Bracket
6.	33VF-P316VE	33VF-P316VE	Alt Tubing 3/16"
7.	33VF-P683VE	33VF-P683VE	Connector 3/16"
8.	33VF-P245M	N/A	Regulator
9.	33VF-P603VE	33VF-P603VE	Compression Sleeve 3/16"
10.	33VF-P613VE	33VF-P613VE	Compression Nut 3/16"
11.	33VF-P316VE	33VF-P316VE	Alt Tubing 3/16"
12.	39ZVFCV-105A	39ZVFCV-105A	Burner Pan Assembly

No.	GLVF24MVN	GLVF24MVP	Description
13.	39ZVFCV-113	39ZVFCV-113	Valve Bracket Spacer
14.	6000-112	6000-112	Valve Bracket
15.	1000-214	1000-214	Piezo-Igniter
16.	1000-255	1000-255	Burner Orifice
17.	1000-253	1000-253	Closed Nipple
18.	2000-213	2000-213	Elbow 1/8"
19.	1000-P203VE	1000-P203VE	Lock Nut 1/8"
20.	6000-P113VE	6000-P113VE	Nipple 1/8" x 1-1/2"
21.	3100-P466A	3100-P466A	1/8" FIPT x 3/8" Flare
22.	33VF-P637SI	33VF-P636SI	ODS Valve
23.	3632HB-P496C	3632HB-P496C	3/8" PT-OD Elbow
24.	350-P375D	350-P375D	3/8" Flex - 9"

Parts List GLVF24MAN / GLVF24MAP



No.	GLVF24MAN	GLVF24MAP	Description
1.	4200-132	4200-132	Burner Hold Down
2.	24GL-200A	24GL-200A	Burner Assembly
3.	33VF-113	33VF-113	Oxygen Depletion Shield
4.	33VF-P8213	33VF-P8402	ODS Pilot
5.	33VF-106	33VF-106	Pilot Bracket
6.	33VF-P316VE	33VF-P316VE	Alt Tubing 3/16"
7.	33VF-P603VE	33VF-P603VE	Compression Sleeve 3/16"
8.	33VF-P613VE	33VF-P613VE	Compression Nut 3/16"
9.	39ZVFCV-105A	39ZVFCV-105A	Burner Pan Assembly
10.	39ZVFCV-115	39ZVFCV-115	Valve Bracket
11.	33VF-P295M	33VF-P297M	Regulator
12.	33VF-P112VE	33VF-P112VE	Nipple 3/8" x 1-1/2"
13.	33VF-P124VE	33VF-P124VE	Street 3/8 x 45
14.	1001-P100C	1001-P100C	3/8" 90 FPT
15.	1000-255	1000-255	Burner Orifice

No.	GLVF24MAN	GLVF24MAP	Description
16.	1000-253	1000-253	Closed Nipple
17.	2000-213	2000-213	Elbow 1/8"
18.	6000-P113VE	6000-P113VE	1/8 x 1-1/2 Nipple
19.	1000-P203VE	1000-P203VE	Lock Nut 1/8"
20.	3100-P466A	3100-P466A	1/8"FIPT x 3/8" Flare
21.	33VF-P522SI	33VF-P522SI	ODS Valve
22.	350-P375D	350-P375D	3/8" Flex - 9"
23.	4000-P963VE	4000-P963VE	3/8 OD 3/8 MPT

TROUBLESHOOTING

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



WARNING

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

When igniter button is pressed, there is no spark at ODS/Pilot.

Possible Cause

1. Igniter electrode positioned wrong.
2. Igniter electrode is broken.
3. Igniter electrode not connected to igniter cable.
4. Igniter cable pinched or wet.
5. Piezo-igniter nut is loose.
6. Broken igniter cable.
7. Bad piezo-igniter.

Remedy

1. Replace igniter.
2. Replace igniter.
3. Reconnect igniter cable.
4. Free igniter cable if pinched by any metal or tubing. Keep igniter cable dry.
5. Tighten nut.
6. Replace igniter cable.
7. Replace piezo-igniter.

Appliance produces unwanted odors.

Possible Cause

1. Appliance burning vapors from paint, hair spray, glues, etc.
2. Gas leak.

Remedy

1. Ventilate room. Stop using odor-causing products while heater is running.
2. Locate and correct all leaks.

Appliance shuts off in use.

Possible Cause

1. Not enough fresh air is available for ODS/pilot to operate.
2. Low line pressure.
3. ODS/pilot is partially clogged.

Remedy

1. Open window and/or door ventilation.
2. Contact local gas company.
3. Clean ODS/pilot.

Gas odor even when control knob is in OFF position.

Possible Cause

1. Gas leak.
2. Control valve defective.

Remedy

1. Locate and correct all leaks.
2. Replace control valve.

When igniter button is pressed, there is a spark at ODS/pilot, but no ignition.

Possible Cause

1. Gas supply turned off or manual shutoff valve closed.
2. Control knob not in PILOT position.
3. Control knob not pressed in while in PILOT position.
4. Air in gas lines when installed.
5. ODS/pilot is clogged.
6. Gas regulator setting is not correct.

Remedy

1. Turn on gas supply or open manual shutoff valve.
2. Turn control knob while in PILOT position.
3. Press control knob in while in PILOT position.
4. Continue holding down control knob. Repeat igniting operation until air is removed.
5. Replace ODS/pilot assembly or get it serviced.
6. Replace gas regulator.

ODS/pilot lights, but flame goes out when control knob is released.

Possible Cause

1. Control knob not fully pressed in.
2. Control knob not pressed in long enough.
3. Manual shutoff valve not fully open.
4. Thermocouple connection loose at valve.

Remedy

1. Press control knob in fully.
2. After ODS/pilot lights, keep control knob pressed in for 30 seconds.
3. Fully open manual shutoff valve.
4. Hand tighten until snug, then tighten 1/4 turn more.

TROUBLESHOOTING Cont.

5. Pilot flame not touching thermocouple, which allows thermocouple to cool, causing pilot flame to go out.
Problem could be caused by one or both of the following:
A) Low gas pressure
B) Dirty or partially clogged ODS/pilot.
6. Thermocouple damaged.
7. Control valve damaged.
5. Contact local gas company.
6. Replace thermocouple
7. Replace control valve.

One or both burners do not light after ODS/pilot is lit.

Possible Cause

1. Burner orifice is clogged.
2. Burner orifice diameter is too small.
3. Inlet pressure is too low.

Remedy

1. Clean burner or replace light burner orifice.
2. Replace burner orifice.
3. Contact qualified service person.

Delayed ignition of burner.

Possible Cause

1. Manifold pressure is too low.
2. Burner orifice is clogged.

Remedy

1. Contact local gas company.
2. Clean burner or replace burner orifice.

Burner backfiring during combustion.

Possible Cause

1. Burner orifice is clogged or damaged.
2. Burner is damaged.
3. Gas regulator is defective.

Remedy

1. Clean burner or replace burner orifice.
2. Replace burner.
3. Replace Gas regulator.

Slight smoke or odor during initial operation.

Possible Cause

1. Vapors from paint or curing process of logs.

Remedy

1. Problem will stop after a few hours of operation. Run the heater with the damper open if you have one or open a window for the first few hours.

Log appears to smoke (after initial operation).

Possible Cause

Remedy

1. Log heater is intended to be smokeless. Turn off heater and call qualified service person.

Heater produces a whistling noise when burner is lit.

Possible Cause

1. Turning control knob to HI position when burner is cold.
2. Air in gas line.
3. Dirty or partially clogged burner orifice.

Remedy

1. Turn control knob to LO position and let warm up for a minute
2. Operate burner until air is removed from line. Have gas line checked by local gas company.
3. Clean burner or replace burner orifice.

No Gas to pilot.

Possible Cause

1. LP regulator shut down due to inlet pressure being too high.

Remedy

1. Verify LP tank regulator is installed and set at 11 to 13 inches w.c.
2. Replace LP regulator on heater.



LIMITED LIFETIME WARRANTY

This Limited Lifetime Warranty applies only while the unit remains at the site of the original installation and only if the unit is installed inside the continental United States, Alaska, Hawaii, and Canada. The warranty applies only if the unit is installed and operated in accordance with the printed instructions and in compliance with applicable installation and building codes and good trade practices.

BASIC ONE YEAR WARRANTY

During the first year after installation of the appliance, we will provide a replacement for any component part of your unit found to be defective in materials or workmanship, including labour costs. Repair work requires prior approval by Kingsman, labour costs are based on a predetermined rate schedule and any repair work must be done through an authorized Kingsman dealer.

(Excluded Components: Accent Light Bulbs, Gasketing, Glass Fronts, and Paint)

LIMITED LIFETIME WARRANTY

The heat exchanger, combustion chamber and burner of every Kingsman product excluding the Outdoor Firepit are warranted against materials or workmanship during the period the product is owned by the original owner. The part to be replaced must be returned to our distributor in exchange for the replacement part. Any labor, material, freight and/or handling charges associated with any repair or replacement pursuant to this Limited Lifetime Warranty will not be covered by this warranty.

GENERAL TERMS

In lieu of providing a replacement part, we may, at our option, provide the distributor's component purchase price from us or a credit equal to the distributor's component purchase price from us toward the purchase of any new unit which we distribute. If a credit is given in lieu of a replacement part, the rating plate from the unit being replaced must be submitted on a warranty claim, and the unit being replaced must be made available to our distributor for disposition.

In establishing the date of installation for any purpose, including determination of the starting date for the term of this Limited Lifetime Warranty, reasonable proof of the original installation date must be presented*, otherwise the effective date will be based upon the date of manufacture plus thirty (30) days.

We will not be responsible for and you, the user, will pay for: (a) damages caused by accident, abuse, negligence, misuse, riot, fire, flood, or Acts of God (b) damages caused by operating the unit where there is a corrosive atmosphere containing chlorine, fluorine, or any other damaging chemicals (other than in a normal residential environment) (c) damages caused by any unauthorized alteration or repair of the unit affecting its stability or performance (d) damages caused by improper matching or application of the unit or the unit's components (e) damages caused by failing to provide proper maintenance and service to the unit (f) any expenses incurred for erecting, disconnecting or dismantling the unit (g) parts or supplies used in connection with service or maintenance (h) damage repairs, inoperation or inefficiency resulting from faulty installation or application (i) electricity or fuel costs or any increase in electricity or fuel cost whatsoever including additional or unusual use of supplemental electric heat.

We shall not be liable for any incidental, consequential, or special damages or expenses in connection with any use or failure of this unit. We have not made and do not make any representation or warranty of fitness for a particular use or purpose, and there is no implied condition of fitness for a particular use or purpose. We make no express warranties except as stated in this Limited Lifetime Warranty. No one is authorized to change this Limited Lifetime Warranty or to create for us any other obligation or liability in connections with this unit. Any implied warranties shall last for one year after the original installation. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages or do not allow limitations on how long an implied warranty or condition lasts, so the above limitations or exclusions may not apply to you. The provisions of this limited warranty are in additions to and not a modification of or subtraction from any statutory warranties and other rights and remedies provided by law.

Save this certificate. It gives you specific legal rights, and you may also have other rights which may vary from state to state and province to province.

In the event your unit needs servicing, contact your dealer or contractor who installed or serviced your unit. When requesting service, please have the model and serial number from each unit readily available. If your dealer needs assistance, the distributor is available for support and we, in turn support the distributor's efforts.

Fill in the installation date and model and serial numbers of the unit in the space provided below and retain this limited warranty for your files.

Model No. _____ Serial No. _____ Date installed _____

Dealer or Contractor Name: _____

*To receive advantage of your warranty, you must retain the original records that can establish the installation date of your unit.

The Ultimate in Design, Engineering & Quality