MONESSEN HEARTH SYSTEMS

Natural Gas Models

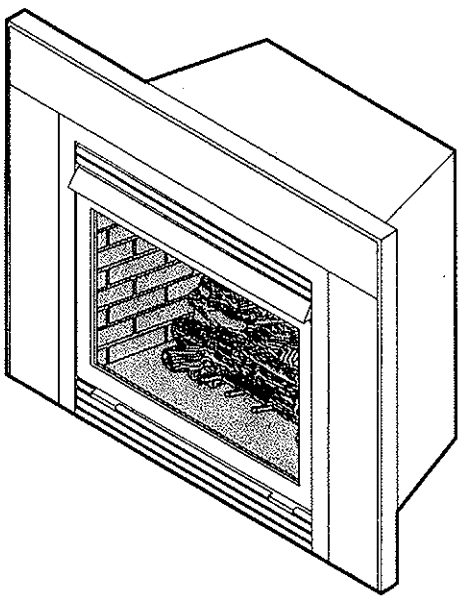
DIS33NTAS

DIS33NVAS

Propane (LPG) Models

DIS33PTAS

DIS33PVAS



UNVENTED GAS LOG FIREPLACE
INSTALLATION AND OPERATING INSTRUCTIONS

DESIGN CERTIFIED AMERICAN GAS ASSOCIATION

MADE IN U.S.A.

This is an unvented gas-fired heater. It uses air (oxygen) from the room in which it is installed. Provisions for adequate combustion and ventillation air must be provided.

WARNINGS

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.**

READ AND SAVE THESE INSTRUCTIONS

CONTENTS

IMPORTANT SAFETY INFORMATION

INSTALLER
Please leave these instructions with the owner.

OWNER
Please retain these instructions for future reference.

IMPORTANT
Read these instructions carefully before installing or trying to operate this unvented gas heater.

WARNING

- **Any change to this heater or its controls can be dangerous.**
- **Improper installation or use of the heater can cause serious injury or death from fire, burns, explosion or carbon monoxide poisoning.**
- **Do not allow fans to blow directly into the fireplace. Avoid drafts that alter burner flame patterns.**
- **Do not use a blower insert, heat exchanger insert or other accessory, not approved for use with this heater where applicable.**

1. Due to high temperatures, the heater should be located out of traffic and away from furniture and draperies.
2. Children and adults should be alerted to the hazard of high surface temperature and should stay away to avoid burns or clothing ignition.
3. Young children should be carefully supervised when they are in the same room with the heater.
4. Do not place clothing or other flammable material on or near the fireplace when the heater is in use.
5. Any safety screen or guard removed for servicing, must be replaced prior to operating the heater.
6. Installation and repair should be done by a qualified service person.
7. To prevent malfunction and/or sooting, an unvented gas heater should be cleaned at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, etc. It is imperative that control compartments, burners and circulating air passageways be kept clean.
8. **CARBON MONOXIDE POISONING:** Early signs of carbon monoxide poisoning are similar to the flu with headaches, dizziness and/or nausea. If you have these signs, obtain fresh air immediately. Have the heater serviced as it may not be operating properly.
9. The installation must conform with local codes or, in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1.
10. This unit complies with ANSI Z21.11.2a-1997 Unvented Heaters.
11. Do not install the heaters in a bathroom or bedroom.
12. Correct installation of the ceramic fiber logs, proper location of the heater and annual cleaning are necessary to avoid potential problems with sooting. Sooting, resulting from improper installation or operation, can settle on surfaces outside the fireplace. See log placement instructions for proper installation.
13. Avoid any drafts that alter burner flame patterns. Do not allow fans to blow directly into fireplace. Do not place a blower inside burn area of firebox. Ceiling fans may create drafts that alter burner flame patterns. Sooting and improper burning will occur as a result of drafts.
14. 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 installation guidelines.
15. Keep room area clear and free from combustible materials, gasoline and other flammable vapors and liquids.

16. Unvented gas heaters are a supplemental zone heater. They are not intended to be a primary heating appliance. Water vapor produced by an unvented heater can create moisture problems in a home when operated for extended periods of time.

17. During manufacturing, fabricating and shipping, various components of this appliance are treated with certain oils, films or bonding agents. These chemicals are not harmful but may produce annoying smoke and smells as they are burned off during the initial operation of the appliance; possibly causing headaches or eye or lung irritation. This is a normal and temporary occurrence.

    The initial break-in operation should last 2-3 hours with the burner at the highest setting. Provide maximum ventilation by opening windows or doors to allow odors to dissipate. Any odors remaining after this initial break-in period will be slight and will disappear with continued use.

18. Input ratings are shown in BTU per hour and are for elevations up to 2,000 feet. For elevations above 2,000 feet, input ratings should be reduced 4 percent for each 1,000 feet above sea level. Refer to the National Fuel Gas Code.

19. The heater and its individual shutoff 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 psig (3.5 kPa).

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

21. Do not use this room heater if any part has been under water. Immediately call a qualified service technician to inspect the room heater and to replace any part of the control system and any gas control which has been under water.

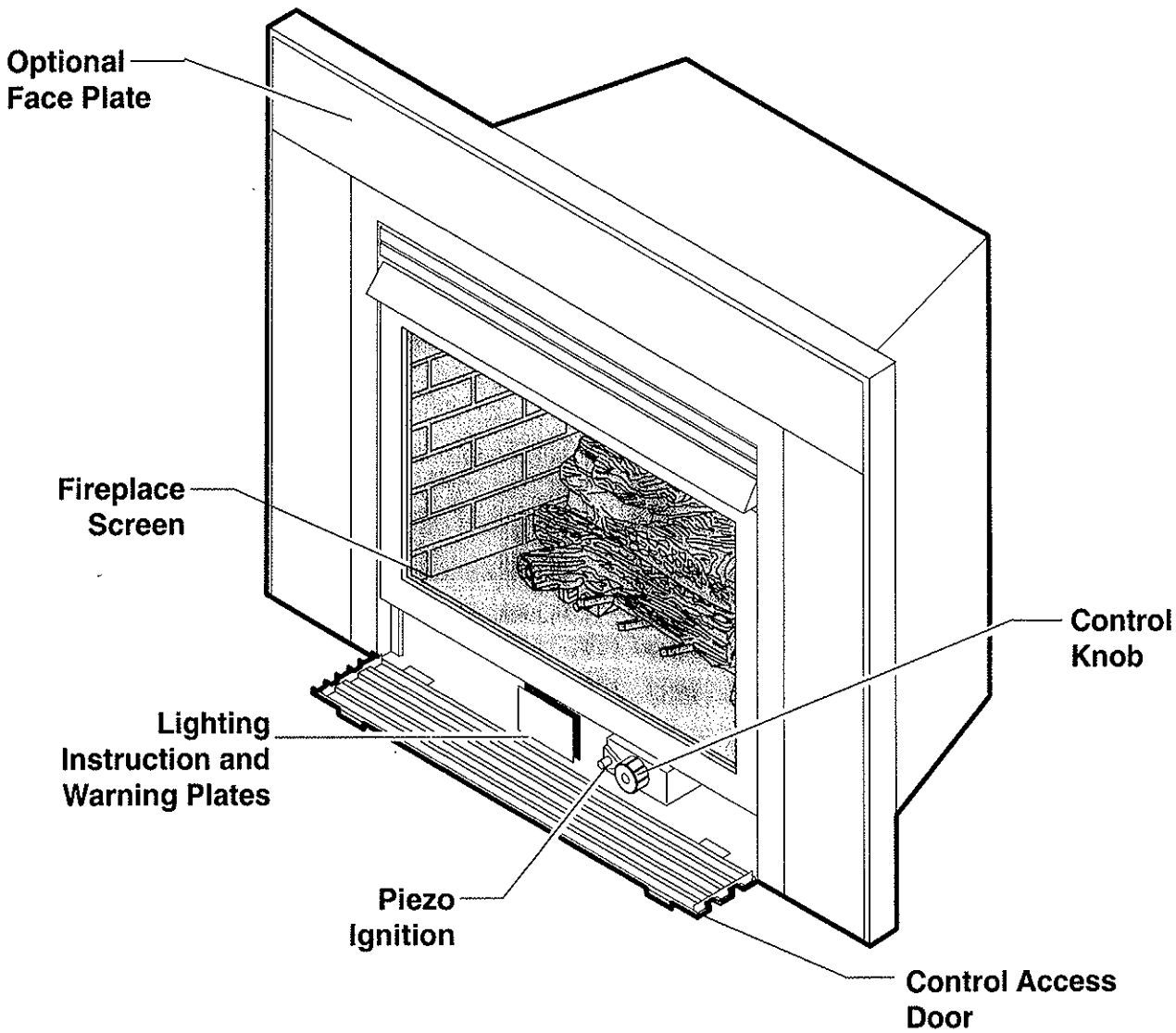


Figure 1. *Unvented Gas Heater*
(Control Access Door Shown Open)

Your vent-free fireplace must be mounted to the floor or the fireplace hearth.

OPERATION
This unvented gas heater requires no outside venting, burns cleanly with high heating efficiency.

This zero-clearance unvented gas heater can be installed against (or recessed into) any wall that is accessible to a gas line.

Natural Gas

T-Stat Pressure

Regulator Pressure Setting: 3" w.c.

Gas Inlet Pressure: Max. 10 1/2" w. c.
Min. 5" w.c.

Millivolt Pressure

Regulator Pressure Setting: 3.5" w.c.
Pilot Regulator: 3.5" w.c.
Gas Inlet Pressure: Max. 10 1/2" w. c.
Min. 5" w.c.

Model Number	Type	Gas Rate	
		Max. BTU/Hr	Min. BTU/Hr
DIS33NTAS	T-Stat	28,000	20,000
DIS33NVAS	Millivolt	32,000	20,000

Propane / LPG

Note: An external regulator is required to reduce supply pressure to a maximum of 13" w. c.

T-Stat Pressure

Regulator Pressure Setting: 10" w.c.
Gas Inlet Pressure: Maximum 13" w.c.
Minimum 11" w.c.

Millivolt Pressure

Regulator Pressure Setting: 10" w.c.
Gas Inlet Pressure: Maximum 13" w.c.
Minimum 11" w.c.

Model Number	Type	Gas Rate	
		Max. BTU/Hr	Min. BTU/Hr
DIS33PTAS	T-Stat	28,000	20,000
DIS33PVAS	Millivolt	32,000	24,000

Ignition Controls - Piezo ignitor allows ignition of the pilot without the use of matches or batteries.

Thermostat control has three (3) positions:

OFF - All gas to the gas logs is shut off at the valve.
IGN - Valve position to light /maintain a standing pilot.
LOW/HI - Variable position corresponding to desired temperature. Both front and rear burners are in operation to provide realistic glow and yellow flame.

Millivolt control has four (4) positions:

OFF - All gas to the gas logs is shut off at the valve.
IGN - Valve position to light/maintain a standing pilot.
ON - Valve position to turn ON/OFF log set with remote switch/thermostat.
LOW/HI - Variable position to control flame height (heat output). Both front and rear burners are in operation to provide realistic glow and yellow flame.

Pilot - The gas log heater is fitted with a specially designed safety pilot light which senses the amount of oxygen available in the room and shuts the gas log heater off if the oxygen level begins to drop below a satisfactory level. The pilot can only be relit when adequate fresh air is available.

Thermal Generator - The millivolt gas log pilot is fitted with a millivolt generator to provide power for remote activation.

GETTING STARTED

Make sure you have received all parts:

Check your packing list to verify that all listed parts have been received. You should have the following:

- Installation/Operating instructions.
- Log box contains a four (4) piece log set, refer to installation instructions
- 33" unvented gas heater with simulated brick panels.
  Brass Louvers (5)
  Canopy
- Two (2) anchoring screws.
- Plastic bag containing crushed volcanic rock.

Accessory face plates available to finish the insert.

- DIFACESM Black small face 33"H x 43"W
- IVORY Ivory porcelain small face 33"H x 43"W
- GREEN Hunter green small face 33"H x 43"W
- JADE Jade simulated marble small face 33"H x 43"H
- DIFACELG Black large face 36"H x 50"W

Accessories include brass trim and mounting hardware

Millivolt controlled heater designed to be operated with optional devices for ON/OFF functions.

- Hand held Remote with receiver.
- Wall switch with 20' wire.
- Wall T-stat with 20' wire.

CAUTION

Handle the gas log burner assembly by the grate only. Do not pick the unit up by the burners.

Gloves are recommended when handling ceramic fiber logs to prevent skin irritation from loose fibers. Logs are fragile -- handle with care.

Carefully inspect the contents for shipping damage. If any parts are missing or damaged, immediately inform the dealer from whom you purchased the appliance. **Do not attempt to install any part of the appliance unless you have all parts in good condition.**

Remove right and left side shipping tents and replace screws.

Removing fireplace screen by removing two bottom screws on either side and pulling frame clear and down. *See Figure 2.*

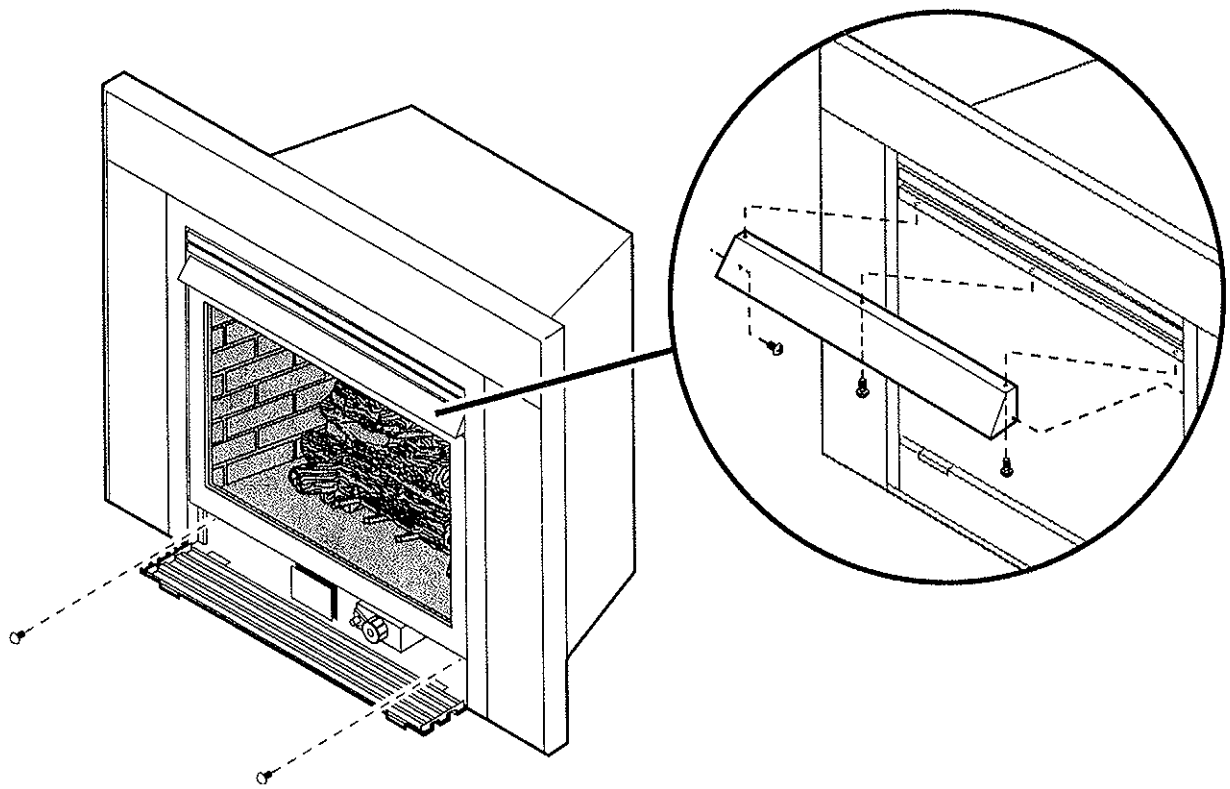


Figure 2. *Removing Fireplace Screen*

What you will need for installation:
You must have the following items available before proceeding with installation:

- External regulator (for propane / L.P.G. only)
- Piping which complies with local codes
- Pipe sealant approved for use with propane / L.P.G. (Resistant to sulfur compounds)
- Manual shutoff valve
- Sediment trap
- Tee joint
- Pipe wrench
- Phillips head screwdriver
- 1/4" nut driver or wrench.
- Optional face plate kit.
- Optional trim kit for installation into wall or free standing Mantle without three piece faceplate.

CODES

Adhere to all local codes or, in their absence, the latest edition of THE NATIONAL FUEL GAS CODE ANSI Z223.1 or NFPA54 which can be obtained from:

American National Standards Institute, Inc.
1430 Broadway
New York, NY 10018
or
National Fire Protection Association, Inc.
Batterymarch Park
Quincy, MA 02269

WARNING

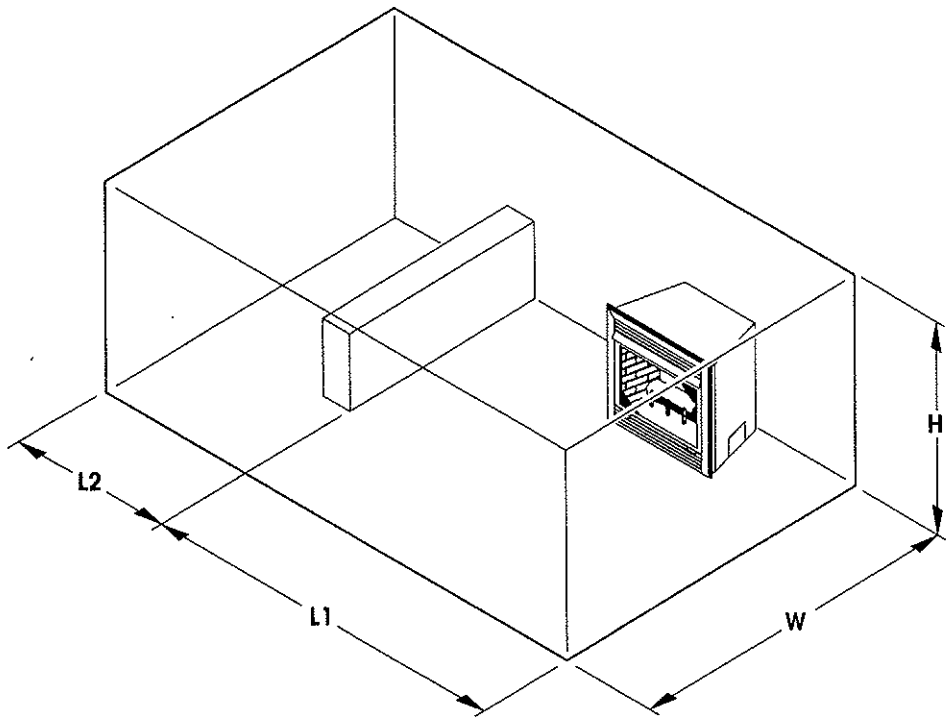
Do not install the heater:

- **Where curtains, furniture, clothing, or other flammable objects are less than 42" from the front of the heater.**
- **In high traffic areas.**
- **In windy or drafty areas.**

ADEQUATE COMBUSTION AND VENTILATION AIR

This heater shall not be installed in a confined space unless provisions are provided for adequate combustion and ventilation air.

The National Fuel Gas Code defines a confined space as a space whose volume is less than 50 cubic feet per 1,000 BTU per hour (4.8 m^3per kw) of the aggregate input rating of all appliances installed in that space and an unconfined space is defined as a space whose volume is not less than 50 cubic feet per 1,000 BTU per hour (4.8 m^3per 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.



The following formula can be used to determine the maximum heater rating per the definition of unconfined space:

$$\frac{\text{BTU/HR} = (\text{L1} + \text{L2})\ \text{Ft} \times (\text{W})\ \text{Ft} \times (\text{H})\ \text{Ft} \times 1000}{50}$$

Consider two connecting rooms with an open area between, with the following dimensions:
L1 = 15 1/2 Ft., L2 = 12 Ft., W = 12 Ft., H = 8 Ft.

$$\frac{\text{BTU/HR} = (15\ 1/2 + 12) \times (12) \times (8) \times 1000}{50}$$
$$= 52800\ \text{BTU/HR}$$

If there were a door between the two rooms the calculation would be based only on the room with the heater.

$$\frac{\text{BTU/HR} = (15\ 1/2) \times (12) \times (8) \times 1000}{50}$$
$$= 29760\ \text{BTU/HR}$$

WARNING

If the area in which the heater may be operated is smaller then 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.

WARNING

Ensure the minimum clearances shown in FIGURES 3 and 4 are maintained. Left and right clearances are determined when facing the front of the heater. Follow these instructions carefully to ensure safe installation. Failure to follow instructions exactly can create a fire hazard.

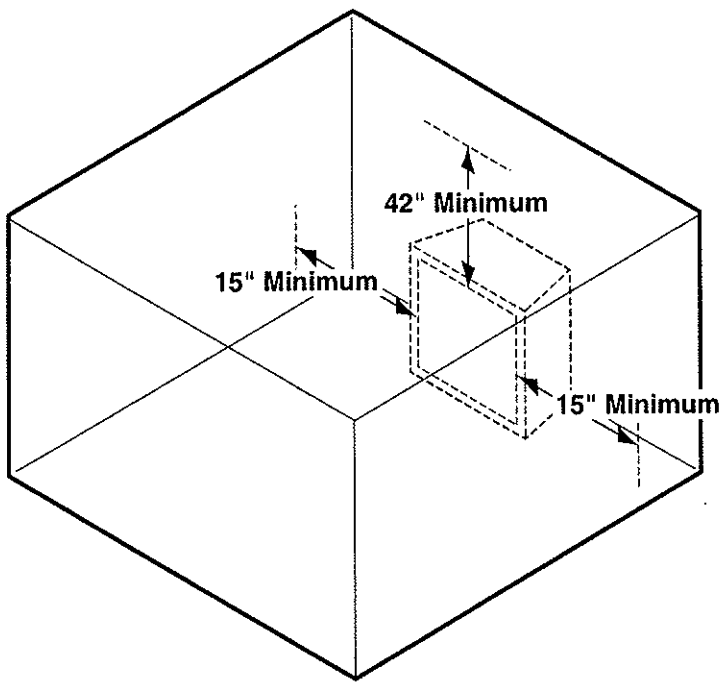
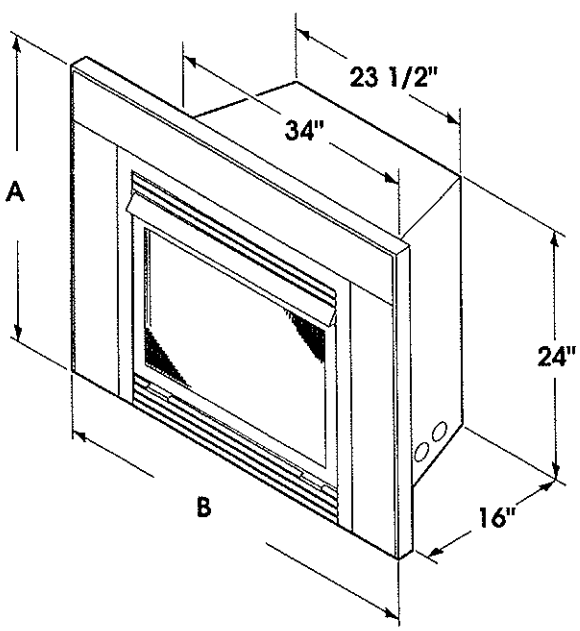


FIGURE 3. Minimum Clearances - Top and Sides of Room Heater to Ceiling and Walls



Before Installing the fireplace insert:

Have fireplace floor and chimney professionally cleaned to remove ashes, soot, creosote or other obstructions. Close and seal any fresh air vents or ash clean-out doors located on floor or wall of fireplace.

Accessory Face Plates

	A	B
Small	**33"**	**43"**
Large	**36"**	**50"**

FIGURE 4. Minimum Fireplace Clearances (insert)

Heat resistant material (minimum requirements) with wooden mantel or other combustible projection:

To install the heater with a wooden mantel shelf or other combustible projection above, first measure the heat resistant material shown in Figure 5.

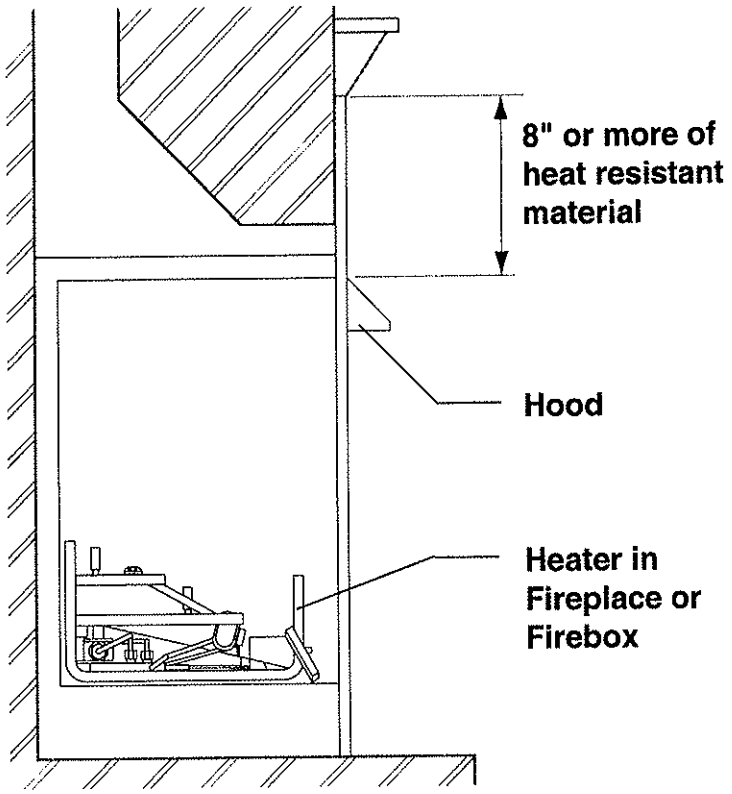


FIGURE 5. Measuring Heat Resistant Material for Mantel

Example: A mantel may project from the wall a maximum of 2 1/2" at minimum of 8" above the opening, and a maximum of 12" at a minimum of 26" above the opening.

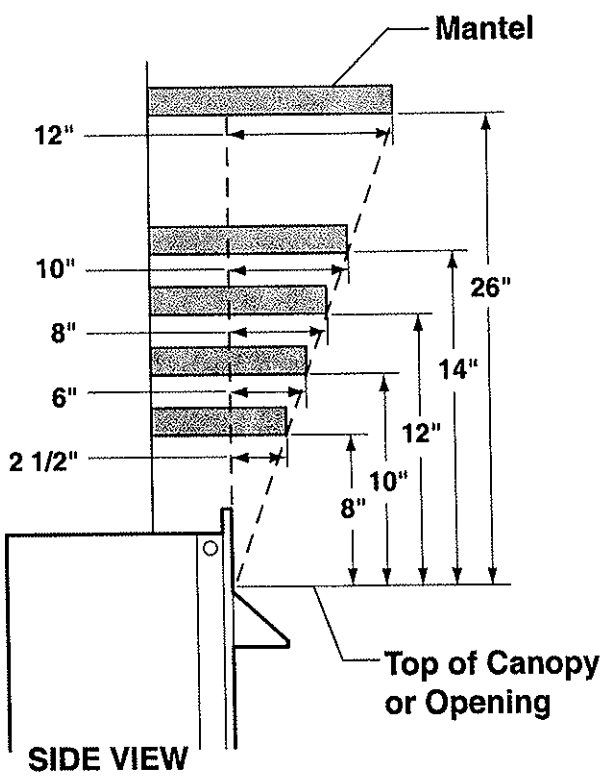


FIGURE 6. Minimum Mantel Clearance

Figure 7 is an example of an unsafe mantel installation. The mantel projects 4" at 8" above the opening, exceeding the maximum acceptable distance of 2 1/2". The mantel also projects 7" at 10" above the opening, exceeding the maximum acceptable distance of 6".

If your mantel profile is unsafe, you may either:

- Raise the mantel to an acceptable height or,
- Remove the mantel.

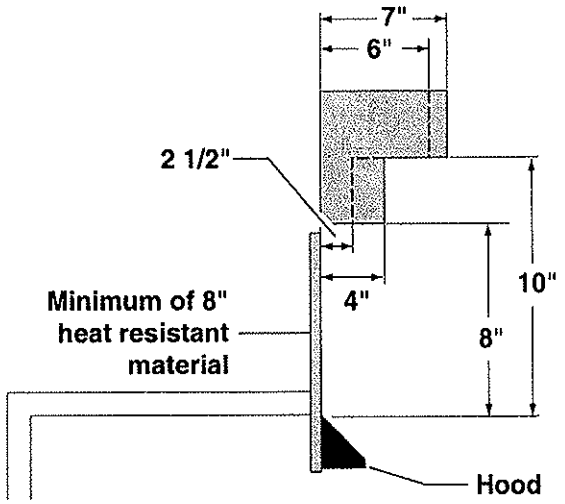


FIGURE 7. Unacceptable Mantel Clearance

The gas log heater must be installed at least 5" above any combustible flooring material, such as carpeting or tile, which is closer than 14" to the base of the fireplace. *Refer to Fig 8 and 9*

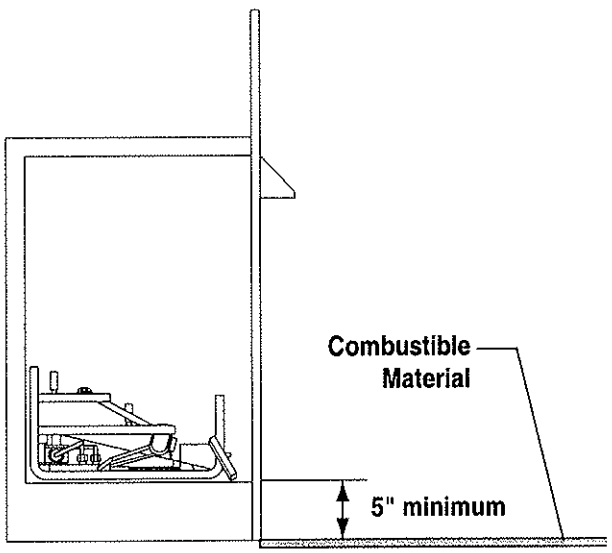
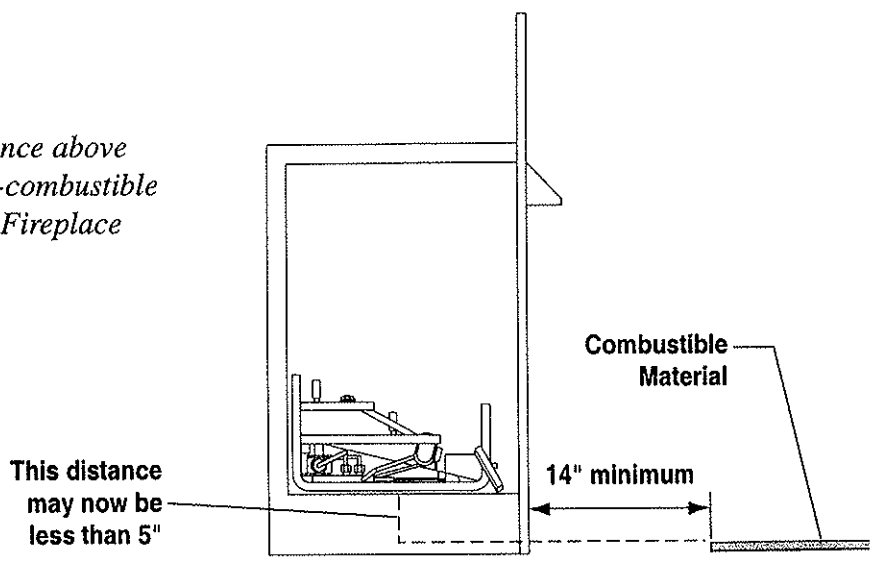


FIGURE 8. Minimum Clearance above Combustible Flooring

FIGURE 9. Minimum Clearance above Combustible Flooring with Non-combustible Material Installed at Base of Fireplace



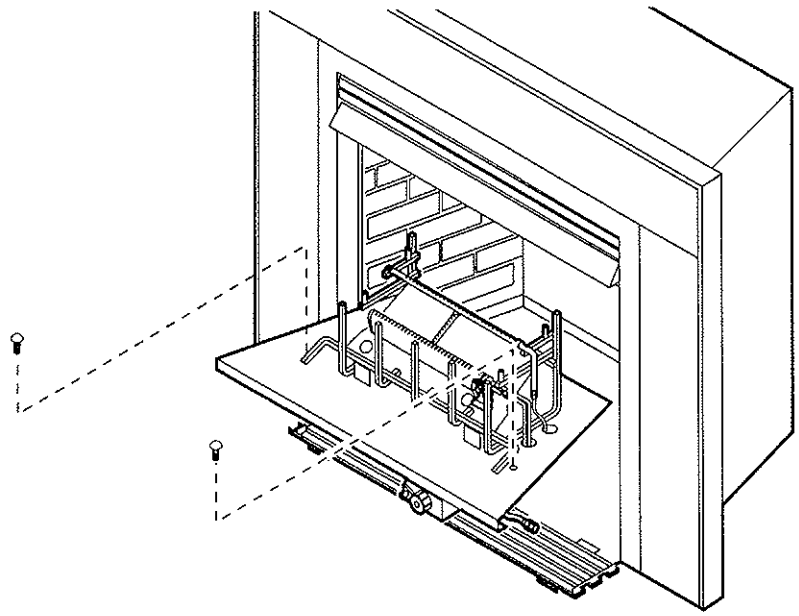


FIGURE 10.

To prevent movement, the heater must be secured to the floor or hearth.

- Open the control access door and remove the screen.
- To remove the grate and base assembly, take out two screws as shown in *FIGURE 10.*
- Lift grate and base assembly out of the firebox. (CAUTION: Lift grate and base assembly using the grate only).
- Secure the firebox with two anchoring screws (3/16" x 1 1/4" length) supplied with the fireplace system *(see FIGURE 11).*

Note: If the unit is mounted on carpeting, tile or combustible material without the hearth, a metal or wooden base covering the entire width and depth of the base must be installed.

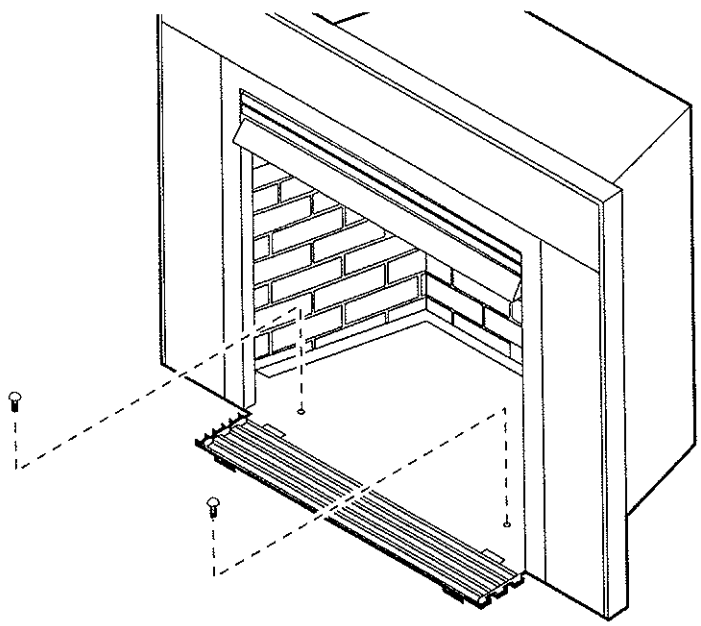


***FIGURE 11.** Securing Heater to Floor or Hearth*

NOTICE: A qualified gas appliance installer must connect the heater to the gas supply. Consult all local codes.

CAUTION

Use new black iron pipe, steel pipe, copper tubing or internally tinned copper tubing. Internally tinned copper tubing can only be used per National Fuel Code, section 2.6.3, providing gas meets sulfide limits, and where permitted by local codes. Gas piping system must be sized to provide minimum inlet pressure (listed on Data Plate) at the maximum flow rate (BTU/Hr). Undue pressure loss will occur if the pipe is too small.

A manual shutoff valve must be installed upstream of the appliance. Union tee and plugged 1/8" NPT pressure tapping point should be installed upstream of the appliance. Refer to *Figure 15.*

A sediment trap should be installed upstream to prevent moisture and contaminants from passing through the pipe to appliance controls and burners. Failure to do so could prevent the appliance from operating reliably. Refer to *Figure 15.*

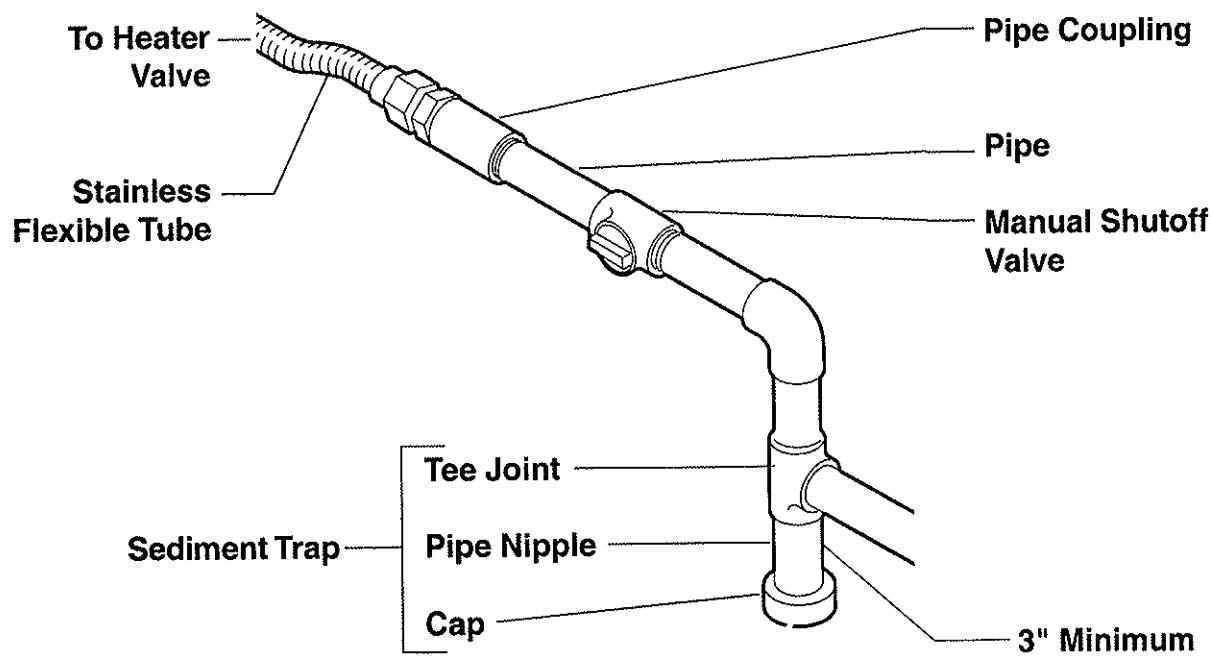


Figure 12: Gas Connection

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.

Always use an external regulator for all propane/L.P.G. heaters only, to reduce the supply tank pressure to a maximum of 13" w.c. This is in addition to the internal regulator in the heater valve.

CONNECTING THE GAS

CAUTION

CHECK GAS TYPE: The gas supply must be the same as stated on heater's rating plate. Located behind the control access door (FIGURE 1) If the gas supply is different, DO NOT INSTALL the heater. Contact your dealer for the correct model. Connecting to the wrong gas type may result in property damage or personal injury.

WARNING

Connecting directly to an unregulated propane/L.P.G. tank can cause an explosion.

To reach the regulator, open control access door, install a flex tube or pipe through right side access hole.

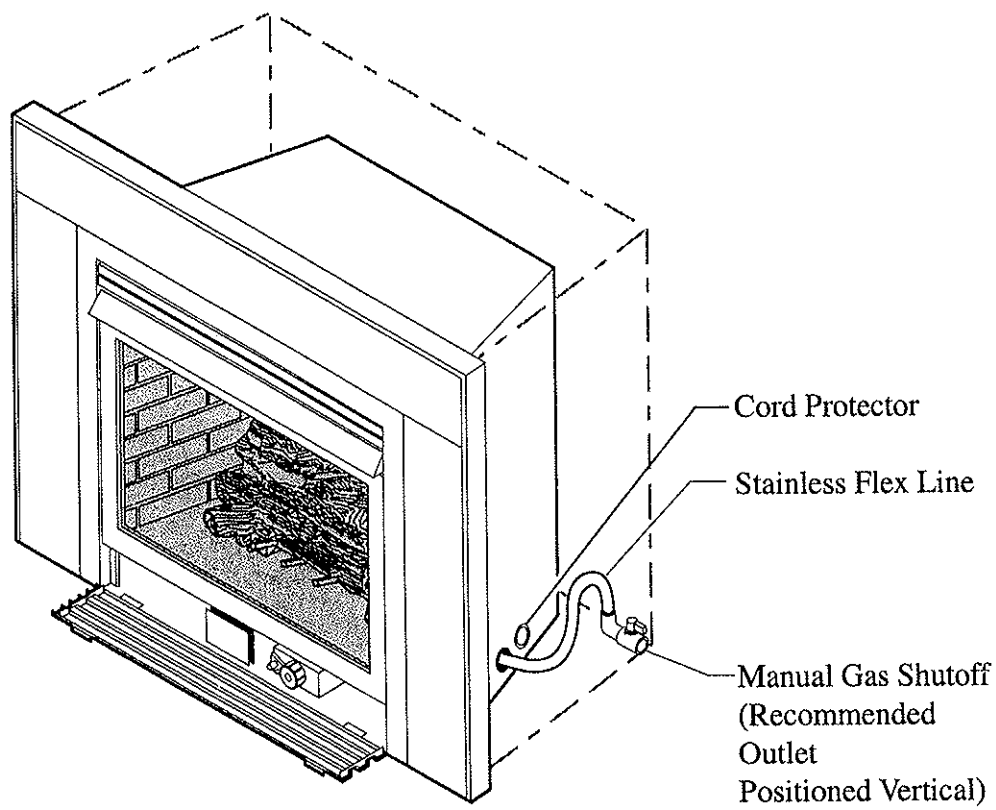


FIGURE 13. Access Holes

The stainless flex line is on the right side facing the fireplace and can connect to either a 1/2 NPT female or 3/8 NPT male pipe.

Test all gas joints from the gas meter to the heater valve for leaks using a gas analyzer or soap and water solution after completing connection. **DO NOT USE AN OPEN FLAME.**

Check the gas pressure with the appliance burning and the control set to **HIGH**.

Open control access door at bottom front of unit to find valve and regulator referred to below.

Thermostat Control ***(Figure 14)***

The pressure regulator is preset and locked to discourage tampering. If the pressure is not as specified, replace the regulator with the correct part from the parts list in this manual.

Remove 1/8" NPT plug, located on side of regulator body. Install fitting and tubing to pressure gauge. After taking pressure reading, re-install test plug. Check for gas leaks.

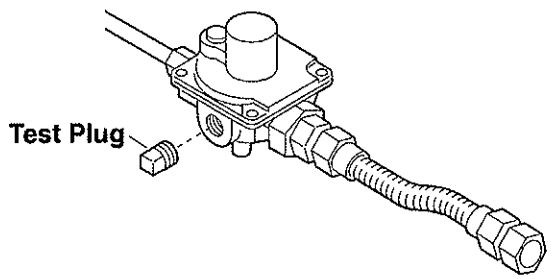


Figure 14: Pressure Test Point Location

Thermostat Control ***(Figure 14a)***

Alternate Test Point

Turn captured screw counter clockwise 2 or 3 turns and then place tubing to pressure gauge over test point (Use test point closest to control knob). After taking pressure reading, be sure and turn captured screw clockwise firmly to re-seal. Do not over torque. Check for gas leaks.

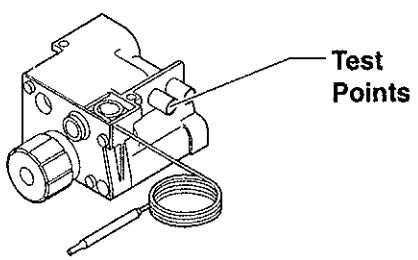


Figure 14a: Alternate Test Point Location for Thermostat Control Unit

Millivolt Control ***(Figure 14b)***

The valve regulator controls the burner pressure which should be checked at the pressure test point. Turn captured screw counter clockwise 2 or 3 turns and then place tubing to pressure gauge over test point (Use test point "A" closest to control knob). After taking pressure reading, be sure and turn captured screw clockwise firmly to re-seal. Do not over torque. Check for gas leaks.

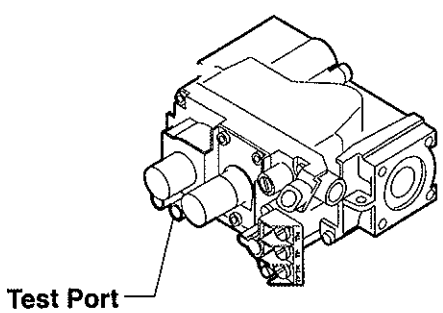


Figure 14b: Pressure Test Point Location

ELECTRICAL WIRING (Millivolt)

CAUTION

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

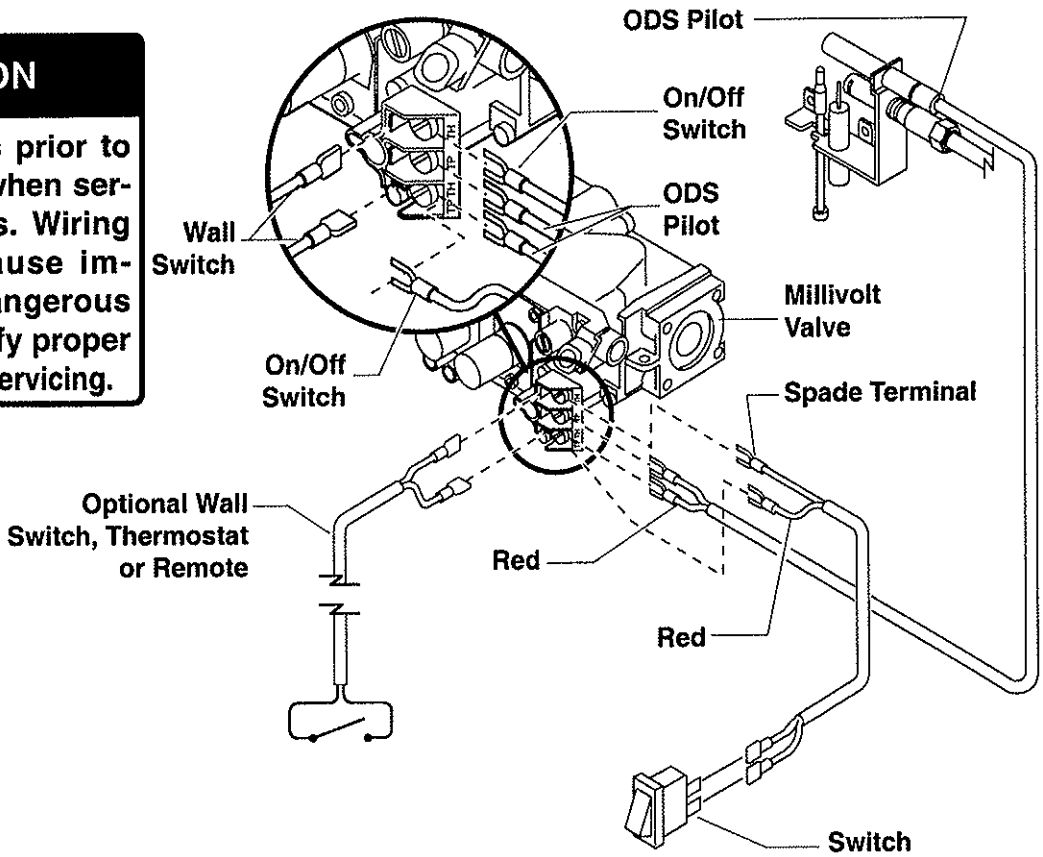


Figure 15: Wiring Diagram

The DIS33 series Milli-Volt (thermopile) is a self powered combination gas control, does not require 110vac to operate. Refer to ***Figure 15*** and installation instructions provided with optional wall switch, thermostat or remote control for wiring instructions. A maximum length of 20 feet of 18awg two conductor wire is to be used for wall switch or thermostat installations. Note thermostats and switches must be suitable for millivolt operation.

Checking System Operation

The millivolt system and individual components may be checked with a millivolt meter having a 0-1000MV range. Conduct each check shown in chart below by connection meter test leads to terminals as indicated.

CHECK TEST	TO TEST	CONNECT METER LEADS TO TERMINALS	THERMOSTAT CONTACTS	METER READING SHOULD BE
A	COMPLETE SYSTEM	2 & 3	CLOSED	CLOSED
B	THERMOPILE OUTPUT	1 & 2	OPEN	OPEN

A. Complete Millivolt System Check ("A" Reading - Thermostat contacts CLOSED - Control Knob "ON" - Main burner should be come ON)

a. If the reading is more than 100 millivolts and the automatic valve still does not come on - replace the control.

b. If the closed circuit reading ("A" reading) is less than 100 millivolts, determine cause for low reading - proceed as follows:

B. Thermopile Output Reading Check ("B" Reading - Thermostat contacts OPEN - Main burner OFF)

1. CP-2 system - 325 millivolts minimum. If the minimum millivolt reading is not obtainable, readjust pilot for maximum millivolt output. If millivolt reading is still below minimum specified, replace thermopile.

WARNING

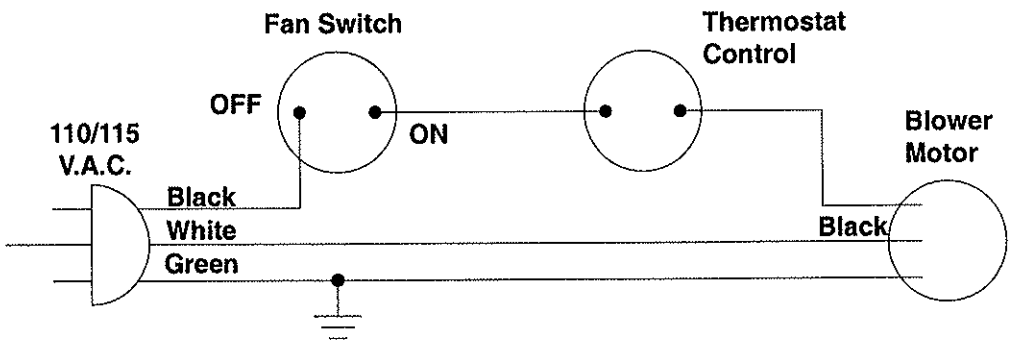
This fireplace has a three-prong, grounded electrical plug. This plug helps protect you against electrical shock. Only connect plug to a properly grounded, three-prong receptacle. Do not cut or remove the grounded prong from this plug.

WARNING

Never attempt to service heater while it is plugged in, operating, or hot. Burns and/or electrical shock could result.

IMPORTANT

Always check local building codes. The installation must comply with local regulations as well as the national electric codes.



If any of the original wire as supplied with the fireplace must be replaced, contact dealer for proper replacement wiring harness. *(see parts list for part number).* 120 volts, 60Hz, 1.2 amps.

Electrical power cord (plug) can be routed to exit the DIS33 on either the left side or the right side. Remove cord protector from side of unit, route power cord through hole opposite side. Reinstall cord protector.

LOG PLACEMENT

Before you begin: This unit is supplied with a set of four ceramic fiber logs. Do not handle these logs with your bare hands! **Always wear gloves to prevent skin irritation from ceramic fibers.** After handling logs, wash your hands gently with soap and water to remove any traces of fibers.

WARNING

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

Proper installation sequence:

1. Install the **rear log (#3)** on the top set of locating pins. Visually check to verify the log is securely placed on the pins, and in contact with the grate.
2. Install the **front log (#1)** on top of the log support brackets. Center the log left to right to properly engage the locator lugs.
3. Install the **center log (#2)** behind the front log on the remaining set of locating pins. Visually check to verify the log is securely placed on the pins.
4. Install the **cross log (#4)** by engaging the holes in the cross log onto pins on the center and/or rear log.

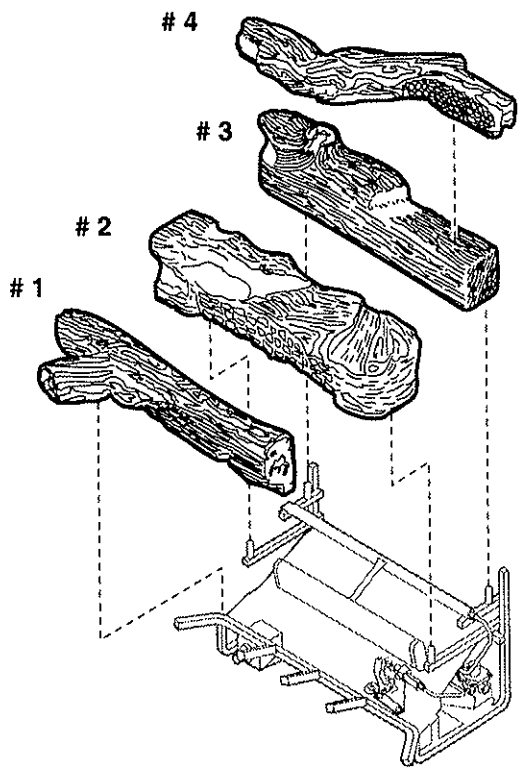


Figure 16: Proper Sequence of Log Installation

Placing the decorative volcanic rock:

CAUTION

DO NOT sprinkle volcanic rock on the logs or around the pilot or the main burner. This may cause sooting. Only place volcanic rock on the floor of the fireplace.

During initial operation of the new heater, burning logs will give off a paper burning smell and orange flames will be present. Simply open the windows for a few hours to vent the odor.

In normal operation at full rate after 15 minutes, the following flame appearances should be observed:

The rear flames above and behind log #2, and in front of log #3, may be **yellow**. The flames should extend approximately 2" - 3" above log #2. Refer to ***Figure 17***.

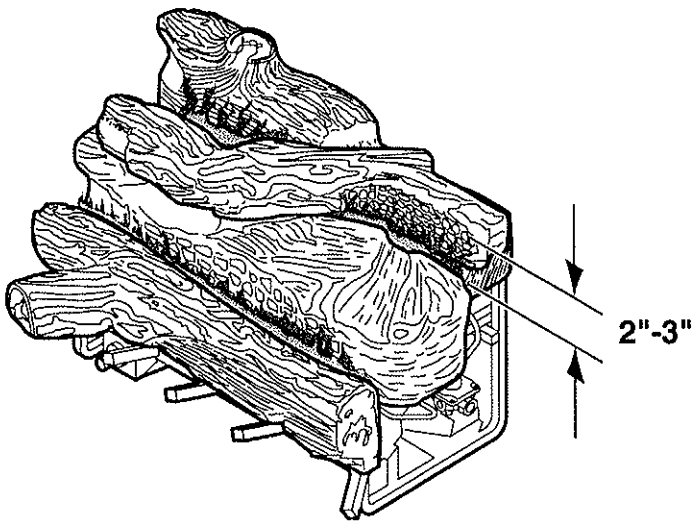


Figure 17: *Correct Appearance of Rear Flames*

The front burner flames are **blue**, becoming yellowish as they hit the bumps on the face of the front log. The face of the front log will glow a bright reddish orange when the heater is in operation.

OPERATING INSTRUCTIONS

Avoid any drafts that alter burner flame patterns. Do not allow fans to blow directly into the fireplace. Do not place a blower inside the burn area of the firebox. Ceiling fans may create drafts that alter flame patterns. Sooting and improper burning will result.

During manufacturing, fabricating and shipping, various components of this appliance are treated with certain oils, films or bonding agents. These chemicals are not harmful, but may produce annoying smoke and smells as they are burned off during the initial operation of the appliance, possibly causing headaches or eye or lung irritation. *This is a normal and temporary occurrence.*

The initial break-in operation should last 2-3 hours with the burner at the highest setting. Provide maximum ventilation by opening windows or doors to allow odors to dissipate. Any odors remaining after this initial break-in will be slight and will disappear with continued use.

FLAME APPEARANCE

Flames from the pilot, front and rear burner should be visually checked as soon as the heater is installed. In addition, periodically check the flames visually during operation.

Checking the pilot flame:

The pilot flame must always be present when the heater is in operation. It should just touch the top of the thermocouple tip. Refer to ***Figure 18 and 20***.

If the pilot flame does not touch the thermocouple, then the main burner cannot function reliably. Refer to ***Figure 19 and 21*** for incorrect shape of pilot flame.

Millivolt Control

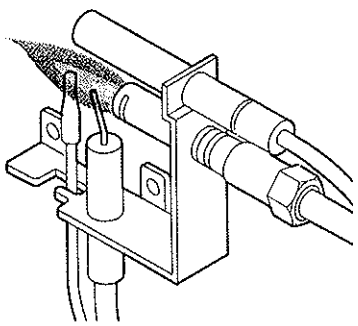


Figure 18: *Correct Appearance of Pilot Flame*

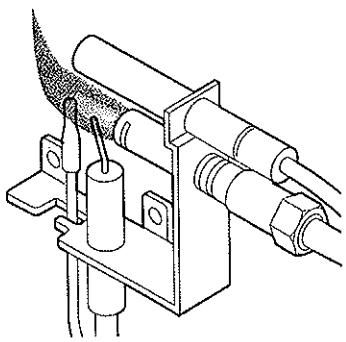


Figure 19: *Incorrect Appearance of Pilot Flame*

Thermostat Control

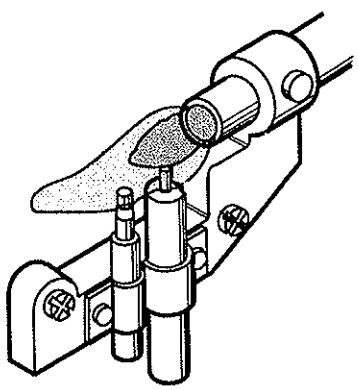


Figure 20: *Correct Appearance of Pilot Flame*

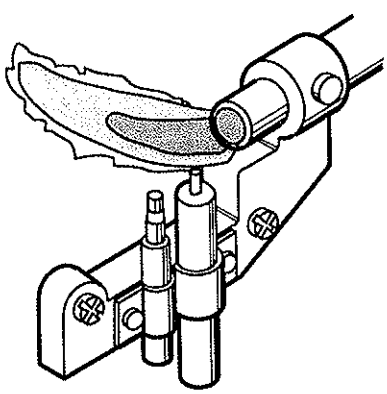


Figure 21: *Incorrect Appearance of Pilot Flame*

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING

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

A. This heater is equipped with an ignition device (piezo) which automatically lights the pilot.

B. BEFORE LIGHTING smell all around the heater area for gas. Be sure to smell next to the floor because some propane/LPG is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS:

- Do not attempt to light any appliance or heater.
- Do not touch any electric switch; do not use any telephone in you 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 or turn by hand, don't try to repair or adjust the valve or the mechanism. Call a qualified service technician. Force or attempted repair may result in a fire or explosion.

D. Do not use this heater if any part of it has been underwater. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system or gas control that has been submerged.

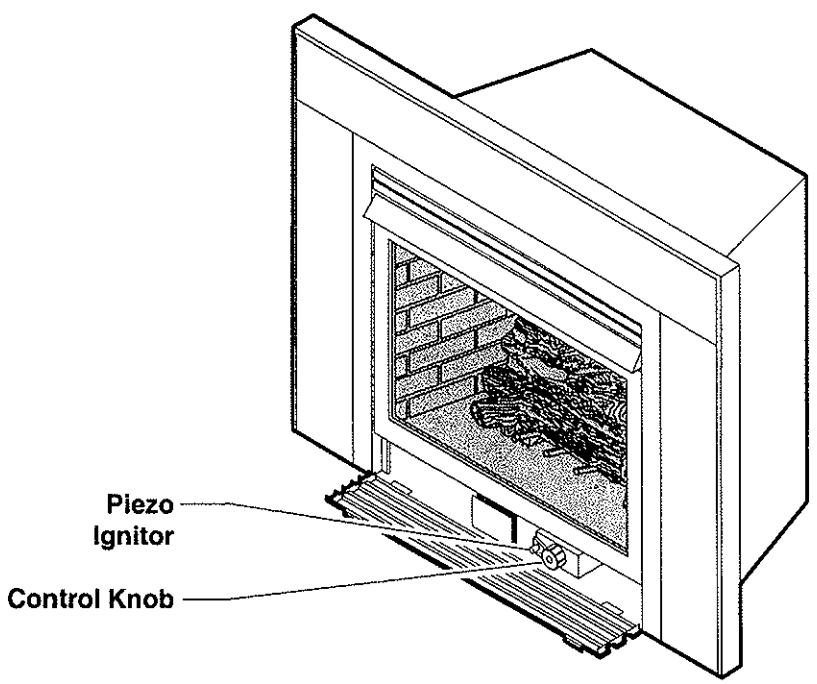


Figure 22: Location of Piezo Ignitor & Control Knob

THERMOSTATIC CONTROL LIGHTING INSTRUCTIONS

1. STOP! Read the safety information .
2. Make sure the manual shutoff valve is fully open.
3. This heater is equipped with an ignition device (piezo) which automatically lights the pilot.
4. Refer to *Figure 22* for the location of the piezo ignitor and control knob. Turn control knob clockwise ↷ to the OFF position.
5. Wait 5 minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow safety instructions under "WHAT TO DO IF YOU SMELL GAS". If you do not smell gas, go to the next step.
6. Turn the gas control knob counterclockwise ↶ to the IGN position. Push in and hold control knob for 5 seconds.
7. With the control knob pushed in and held, push and release the piezo ignitor button to light the ODS pilot. The pilot is located on the right side of the heater, behind the front log and in front of the main burner. If piezo ignitor does not light the pilot, refer to *"Match Lighting Instructions"*.
8. Hold the control knob in for an additional 10 seconds to prevent the ODS pilot from shutting off the gas while the thermocouple is warming up.
9. Release the control knob.
   - If the knob does not pop out when released, stop and immediately call your service technician or gas supplier.
   - If the ODS pilot will not stay lit after several tries, push and turn the control knob clockwise ↷ to OFF. Release and wait 15 seconds. Repeat steps 6 through 9.
10. Turn control knob to any position between LOW and HIGH. The knob position controls the thermostat temperature. *(Refer to Figure 23)*
11. The heater is now in proper operation. The following procedure should be used to achieve thermostatic control of the desired room temperature.

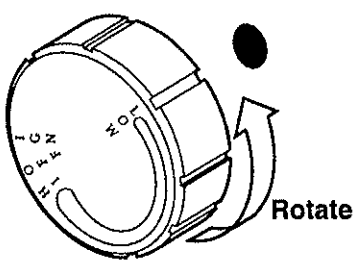


Figure 23: Rotation of Control Knob

a. Operate unit at higher setting until desired room temperature is achieved.
b. At the desired temperature, slowly turn the knob clockwise and stop rotating when flame disappears.
c. Thermostat is now set to maintain the current room temperature.
d. As the room temperature decreases, the thermostat valve will open to ignite the front and rear burner.
e. When the temperature reaches its set point (knob position), the thermostat valve will again shut off the front and rear burner.
f. This is the normal cycle of the heater.

WARNING

Wait 30 seconds before readjusting the heater when the control knob has been turned down to a lower setting.

TO TURN OFF GAS TO HEATER

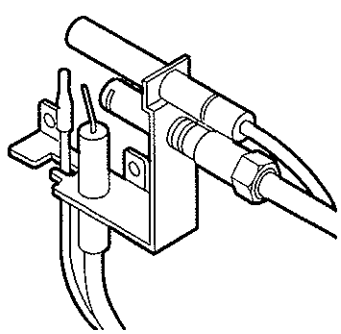
1. Turn control knob clockwise ↷ to **OFF** position to completely shut off the heater.
2. If applicable: Turn off all electric power to the heater.

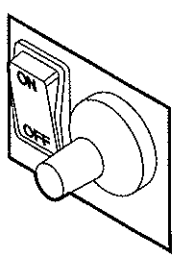
MILLI-VOLT CONTROL LIGHTING INSTRUCTIONS

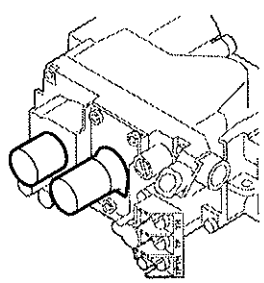
1. STOP! Read the safety information label.
2. Make sure the manual shutoff valve is fully open.
3. This gas log set is equipped with an ignition device (piezo) which automatically lights the pilot. If piezo ignitor does not light the pilot, refer to instructions for *"Match Lighting"*
4. Turn gas control knob clockwise ↷ to the "OFF" position, set the thermostat to the lowest setting and turn ON/OFF switch to OFF position.
5. Wait (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 label. If you don't smell gas, go to next step.
6. From "OFF" position, turn the gas control knob counterclockwise ↶ to "IGN" position. Push in control knob for 5 seconds.
7. With the control knob pushed in, push in and release the piezo ignitor button to light the pilot.
8. Continue pushing the control knob in for a further 60 seconds to prevent the flame detector from shutting off the gas while the probe is warming up. Release the control knob.
9. Turn gas control knob counterclockwise ↶ to the "ON" position.
10. After the pilot has been lit for one minute, the burners can be turned on. Turn the ON/OFF switch to "ON" position or adjust thermostat to desired setting.
11. If the gas logs will not operate, follow the instructions "To Turn Off Gas To Heater": and call your service technician or has supplier.

WARNING

Wait 30 seconds before readjusting the heater when the control knob has been turned down to a lower setting.







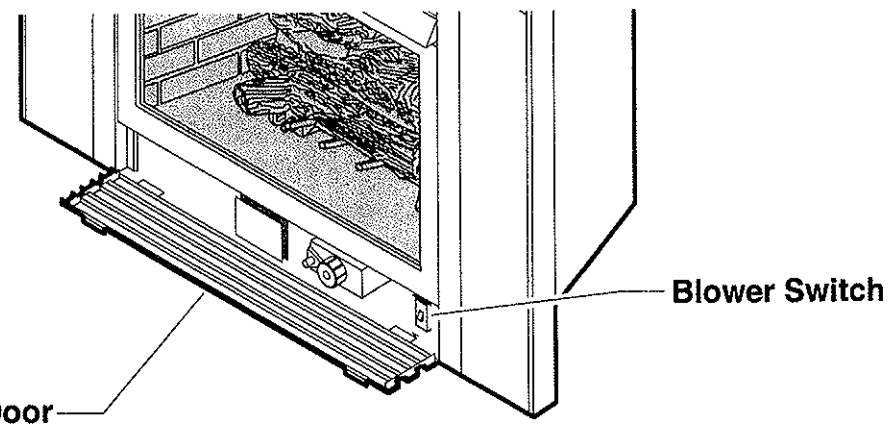
TO TURN OFF GAS TO HEATER

1. Turn control knob clockwise ↷ to **OFF** position to completely shut off the heater.
2. If applicable: Turn ON/OFF switch to OFF position and/or set thermostat (if present) to lowest setting.
3. If applicable: Turn off all electric power to the heater.

MATCH LIGHTING INSTRUCTIONS

1. Remove any items necessary for easy access to the pilot (for example: logs, screens, etc.).
2. Follow appropriate lighting instructions found previously. Instead of pushing and releasing the piezo button, light a match and hold the flame to the end of the pilot and ignite the pilot.
3. After control knob has been released and pilot stays lit, re-install any items that were removed for pilot access.
4. Call a qualified service technician for repair or replacement of the piezo ignitor.

BLOWER OPERATION



Locate the blower switch by opening control access door. Blower switch is located at lower right. The thermostatically controlled blower has two setting: OFF and ON (AUTO).

In the OFF bpostion, the blower will not operate; however, the heater can be operated without the blower being ON. In the ON (AUTO) position, the blower will start when the thermostat senses a sufficient increase in firebox temperature.

Note: Your gas logs and blower will not turn on and off at the same time. The gas logs may burn several minutes before blower turns on.

Annual inspection and cleaning by your dealer or qualified service technician is recommended to prevent malfunction and/or sooting.

WARNING

Turn off heater and allow to cool before cleaning. Disconnect electrical power before cleaning or servicing.

Remove fireplace screen, retaining screws. Carefully lower screen from mounting lugs and set aside during cleaning. Refer to instruction manual for installation of screen. **DO NOT OPERATE THE UNIT WITH THE SCREEN REMOVED.**

Remove logs, handling carefully by holding gently at each end. Gloves are recommended to prevent skin irritation from ceramic fibers. If skin becomes irritated, wash gently with soap and water. Refer to manual for correct log placement.

Periodic Cleaning - ***Refer to parts diagram for location of items discussed below.***

- Do not use cleaning fluid to clean logs or any part of heater.
- Logs - brush with soft bristle brush or vacuum with brush attachment.
- Vacuum loose particles and dust from the front and rear burner, control and piezo covers and grate weldment.
- Inspect and clean rear burner air intake holes. Remove lint or particles with vacuum or brush. Failure to keep air intake holes clean will result in sooting and poor combustion.
- External case should be dusted and wiped with a wet soapy cloth.

Annual Cleaning/Inspection - ***Refer to parts diagram for location of items discussed below.***

- Inspect and clean rear burner air intake holes. Remove lint or particles with vacuum or brush. Failure to keep air intake holes clean will result in sooting and poor combustion.
- Inspect and clean all burner ports.
- Inspect ODS pilot for operation and accumulation of lint at air intake holes.
- Verify flame pattern and log placement for proper operation.
- Verify smooth and responsive ignition of main burner and rear burner.

Item	Description	Qty	DIS33
1	Assembly, Screen	1	23D6003
2	Assembly, Canopy	1	23D0138
3	Brass Louver - Top	2	23D0201
4	Brass Louver - Door	2	23D0203
5	Simulated Brick, Left or Right	1	23D4001
6	Simulated Brick, Center	1	23D4002
7	Assembly, Control Door	1	23D6013
8	Manual - Home Owner	1	23D6017

OPTIONAL FACE PLATE

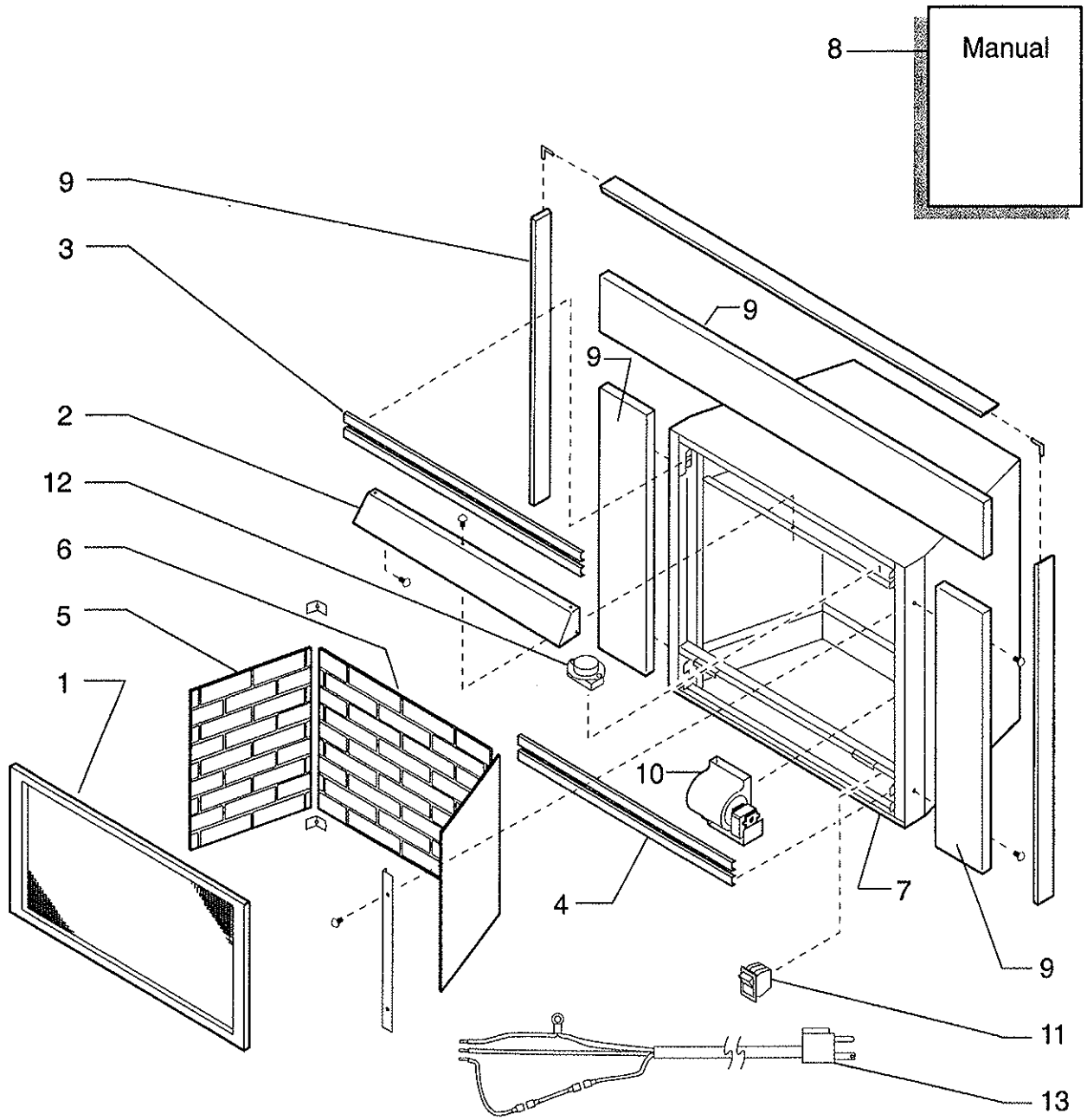
Item	Description	
9	33" x 43" Black Face Plate Kit	DIFACESM
9	33" x 43" Hunter Green Porcelain Face Plate Kit	GREEN
9	33" x 43" Ivory	IVORY
9	33" x 43" Jade Simulated Marble Face Plate Kit	JADE
9	36" x 50" Black Face Plate Kit	DIFACELG

OPTIONAL BLOWER COMPONENTS

Item	Description	Qty	DIS33
10	Fan Blower	1	17D0900
11	ON/OFF Switch	1	20H0103
12	Blower Thermostat	1	17D0905
13	Wiring Harness	1	17D0903

ACCESSORIES *(Millivolt Only)*

Description	
Switch, Wall Kit	MVWS
Thermostat, Wall Kit	MVWTS
Remote, Hand Held	MVHHR



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.

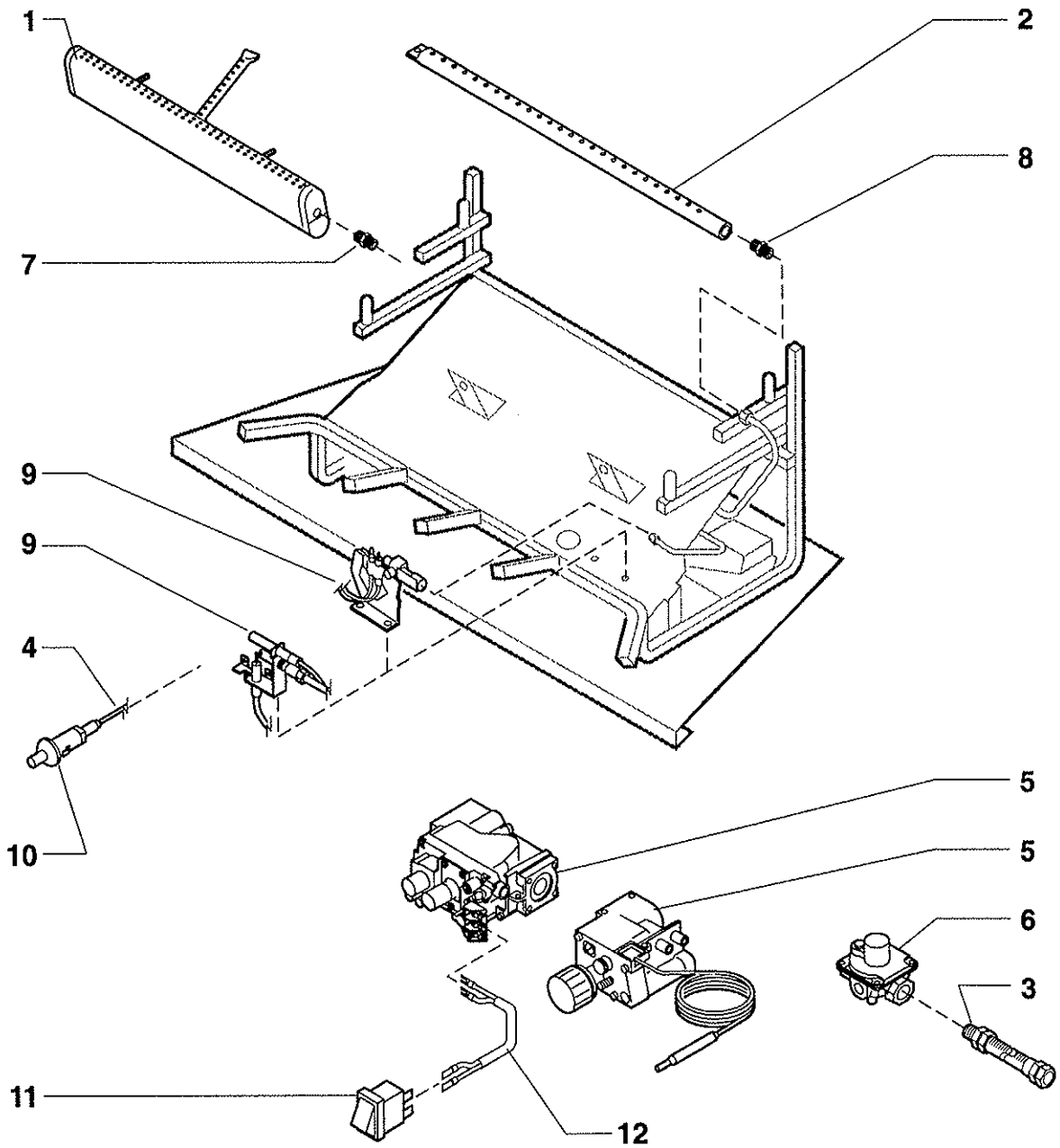
REPLACEMENT PARTS LIST

REPLACEMENT PARTS ARE AVAILABLE THROUGH YOUR RETAILER.

Item	Description	Qty	Natural	Propane
Common Parts				
1	Burner Front	1	14D0434	14D0434
2	Burner Rear	1	14D2257	14D2258
3	Flex Tube	1	20H0940	20H0940
4	Wire Piezo	1	00K0632	00K0632
T-Stat Control				
5	Valve Control	1	11V0701	11V0701
6	Valve Regulator	1	18D0351	18D0352
7	Injector Main	1	00K0913	14D0553
8	Injector Rear	1	14D0556	14D0555
9	Pilot ODS Ass'y	1	14D2259	14D2262
10	Ignitor Piezo	1	18D0402	18D0402
Millivolt Control				
5	Valve Control	1	14D0467	14D0468
6	Valve Regulator		N/A	N/A
7	Injector Main	1	00K0913	14D0553
8	Injector Rear	1	14D0556	14D0555
9	Pilot ODS Ass'y	1	14D2263	14D2264
10	Ignitor Piezo	1	14D0503	14D0503
11	ON/OFF Switch	1	20H0103	20H0103
12	Millivolt Wire Assy	1	17D0253	17D0253
13	Pilot Regulator *(Not Shown)*	1	14D0469	N/A

WARNING

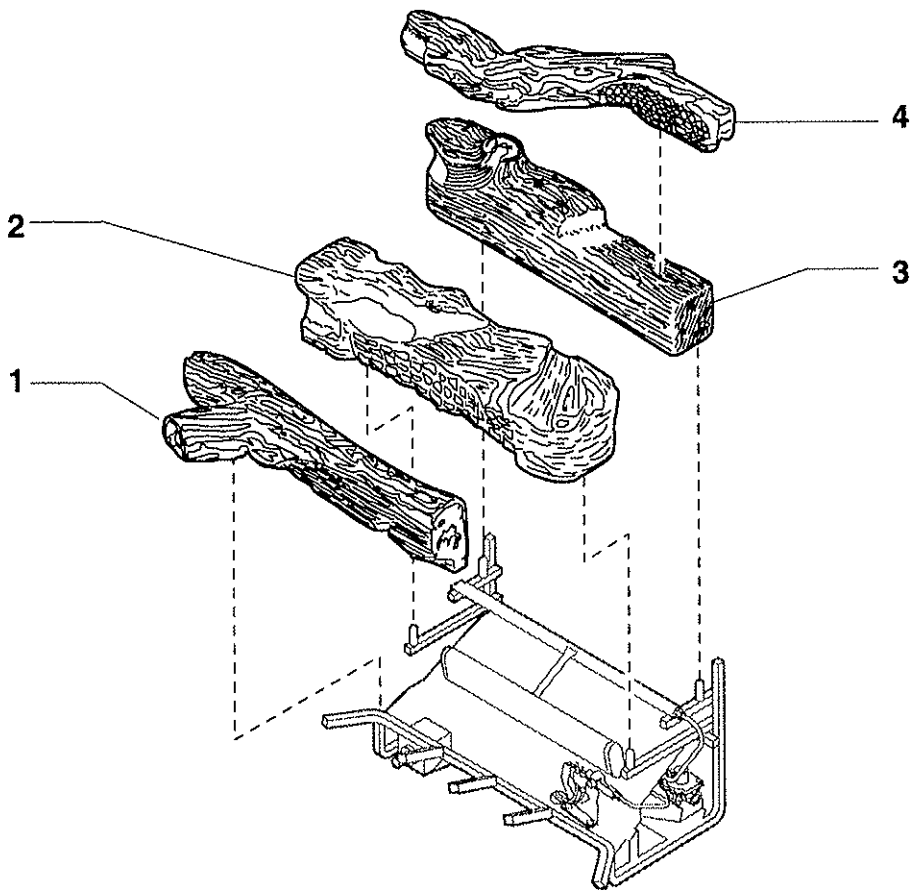
Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.



REPLACEMENT PARTS LIST / ILLUSTRATION

REPLACEMENT PARTS ARE AVAILABLE THROUGH YOUR RETAILER.

Item	Description	Qty	Part Number
1	Log Front	1	14D2031
2	Log Center	1	14D2032
3	Log Rear	1	14D2033
4	Log Top	1	14D2022



Aged Split Logs

WARNING

Turn appliance OFF and allow to cool before servicing. Only a qualified service person should service and repair the heater.

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

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
When ignitor button is pressed, there is no spark at ODS/pilot.	1. Ignitor electrode positioned wrong. 2. Ignitor electrode is broken. 3. Ignitor electrode not connected to ignitor cable. 4. Ignitor cable pinched or wet. Keep ignitor cable dry. 5. Broken ignitor cable. 6. Bad piezo ignitor.	1. Replace ignitor. 2. Replace ignitor. 3. Reconnect ignitor cable. 4. Free ignitor cable if pinched by any metal or tubing. 5. Replace ignitor cable. 6. Replace piezo ignitor.
Appliance produces unwanted odors.	1. Appliance burning vapors from paint, hair spray, glues, etc. 2. Gas leak.	1. Ventilate room. Stop using odor causing products while heater is running. 2. Locate and correct all leaks.
Appliance shuts off during use.	1. Not enough fresh air is available for ODS/ pilot to operate. 2. Low line pressure. 3. ODS/pilot is partially clogged. 4. Defective Thermopile	1. Open window and/or door for ventilation. 2. Contact local gas company. 3. Clean ODS/pilot. 4. Check pilot flame, check wire connections, check output, should be 325 millivolts across TH/TP and TP Terminals with ON/OFF switches off.
Gas odor even when control knob is in OFF position.	1. Gas leak. 2. Control valve defective.	1. Locate and correct all leaks. 2. Replace control valve.
When ignitor button is pressed, there is spark at ODS pilot, but no ignition.	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.	1. Turn on gas supply or open manual shutoff valve. 2. Turn control knob to PILOT position. 3. Press in control knob 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.	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 control valve.	1. Press in control knob 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.

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
	5. Pilot flame not touching thermocouple, which allows thermocouple to cool, causing pilot flame to go out. This problem could be caused by either low gas pressure, or a dirty or partially clogged ODS/pilot.	5. Contact local gas company.
	6. Thermocouple damaged.	6. Replace thermocouple.
	7. Control valve damaged.	7. Replace control valve.
One or both burners do not light after ODS/pilot is lit.	1. Burner orifice is clogged.	1. Clean burner or replace burner orifice.
	2. Burner orifice diameter is too small.	2. Replace burner orifice.
	3. Inlet gas pressure is too low.	3. Contact qualified service person.
Delayed ignition of burner	1. Manifold pressure is too low.	1. Contact local gas company.
	2. Burner orifice is clogged.	2. Clean burner or replace burner orifice.
Burner backfires during combustion.	1. Burner orifice is clogged or damaged.	1. Clean burner or replace burner orifice.
	2. Burner is damaged.	2. Replace burner.
	3. Gas regulator defective.	3. Replace gas regulator.
Slight smoke or odor during initial operation.	1. Vapors from paint or curing process of logs.	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.
Logs appear to smoke after initial operation.		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.	1. Turning control knob to HIGH position when burner is cold.	1. Turn control knob to LOW position and let warm up for a minute.
	2. Air in gas line.	2. Operate burner until air is removed from line. Have gas line checked by local gas company.
	3. Dirty or partially clogged burners orifice.	3. Clean burner or replace burner orifice.
No gas to pilot.	1. LP-regulator shut down due to inlet pressure too high.	1. Verify LP tank regulator is installed and set at 11" to 13" w.c.
		2. Replace regulator on heater.
Blower does not work	1. Power cord not plugged in.	1. Plug power cord into junction box found in lower access area.
	2. Loose wire connections.	2. Check wire connections, re-connect if loose.
	3. Defective blower thermostat.	3. Replace thermostat.

WARNING

If the gas quality is bad, your pilot may not stay lit, the burners may produce soot and the heater may backfire when lit. If the gas quality or pressure is low, contact your local gas supplier immediately.

MONESSEN HEARTH SYSTEMS

LIMITED LIFETIME WARRANTY POLICY

Lifetime Warranty

The following components are warranted for life to the original owner, subject to proof of purchase: Firebox, Combustion Chamber, Heat Exchanger, Grate and Stainless Steel Burners.

Five Year Warranty

The following components are warranted for 5 years to the original owner, subject of proof of purchase: Ceramic Fiber Logs, Catalytic Filter and Aluminized Burners.

Basic Warranty

Monessen Hearth Systems (MHS) warrants the components and materials in your gas appliance to be free from manufacturing and material defects for a period of one year from date of installation. After installation, if any of the components manufactured by MHS in the appliance are found to be defective in materials or workmanship, MHS will, at its option, replace or repair the defective components at no charge to the original owner. MHS will also pay for reasonable labor costs incurred in replacing or repairing such components for a period of one year from the date of installation. Any products presented for warranty repair must be accompanied by a dated proof of purchase and date of purchase.

This Limited Warranty will be void if the appliance is not installed by a qualified installer in accordance with the installation instructions. The Limited Warranty will also be void if the appliance is not operated and maintained according to the operating instructions supplied with the appliance, nor does not extend to (1) firebox damage by accident, neglect, misuse, abuse, alteration, negligence of others, including the installation thereof by unqualified installers, (2) the costs of removal, reinstallation or transportation of defective parts on the heater, or (3) incidental or consequential damage. Any service work must be performed by an authorized service representative.

This warranty is expressly in lieu of other warranties, express or implied, including the warranty of mechantability of fitness for purpose and of all other obligations or liabilities, Monessen Hearth Systems, Inc., does not assume for it, any other obligations or liability in connection with the sale or use of this heater. In states that do not allow limitations on how long an implied warranty lasts, or do not allow exclusion of indirect damages, those limitations of exclusions may not apply to you. You may also have additional rights not covered in this Limited Warranty.

MHS reserves the right to investigate any and all claims against the Limited Warranty and decide upon method of settlement.

For information about this warranty, contact:

Technical Services
Monessen Hearth Systems
P.O. Box 1018
Georgetown, Kentucky 40324