

# VENT-FREE FIREPLACE SYSTEMS

## INSTALLATION AND OPERATING INSTRUCTIONS

### MODELS:

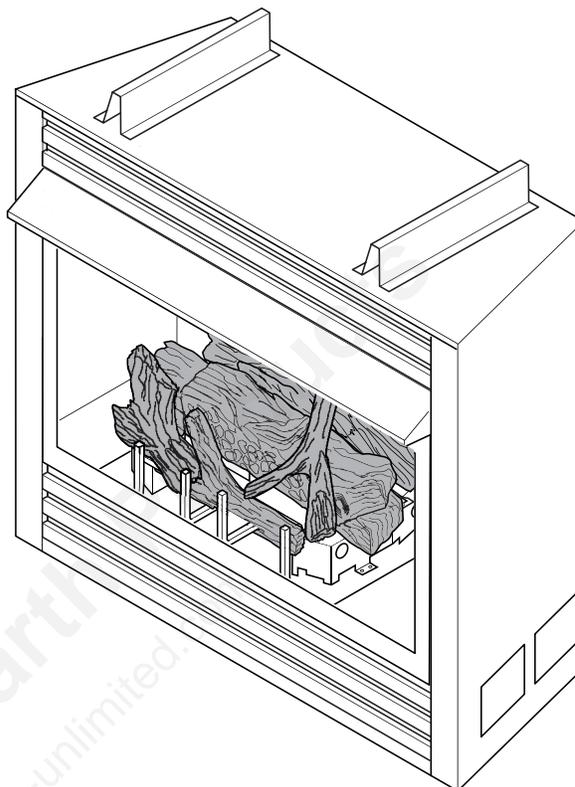
DFS3224A

DFS32A

DFS36A

DFS42A

Manual, Milli-Volt,  
Hi/Lo Remote Control



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 page 10.

## 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

---

<b>Important Safety Information</b> .....	<b>3</b>	<b>Electrical Wiring (Milli-Volt)</b> .....	<b>20</b>
<b>Product Features</b> .....	<b>5</b>	Connecting Optional Wall Switch or Thermostat .....	20
Operation .....	5	Connecting Remote Receiver .....	21
<b>Specifications</b> .....	<b>7</b>	Checking System Operation .....	21
Ignition Controls .....	8	<b>Log Placement</b> .....	<b>22</b>
Pilot .....	7	<b>Flame Appearance</b> .....	<b>23</b>
Thermal Generator .....	7	<b>Checking the Burner Flame</b> .....	<b>24</b>
<b>Getting Started</b> .....	<b>8</b>	<b>Operating Instructions</b> .....	<b>24</b>
<b>General Installation Information</b> .....	<b>9</b>	For Your Safety Read Before Lighting .....	25
Firebox Dimensions .....	9	Manual Control Lighting Instructions .....	26
Codes .....	10	Hi/Lo Control Lighting Instructions .....	27
Adequate Combustion and Ventilation Air .....	10	Milli-Volt Control Lighting Instructions .....	28
Removing Screen .....	12	Match Lighting Instructions .....	29
Installing Canopy .....	12	<b>Cleaning and Servicing</b> .....	<b>29</b>
Securing Heater to Floor or Hearth .....	13	<b>Blower and Other Optional Equipment</b> .....	<b>30</b>
Installing Radiant Face Plates .....	13	<b>Illustrated Parts Breakdown</b> .....	<b>31</b>
<b>Location of Fireplace</b> .....	<b>14</b>	Logs .....	31
<b>Clearances and Height Requirements</b> .....	<b>15</b>	Heater .....	32
<b>Fireplace Framing</b> .....	<b>16</b>	Cabinet .....	33
<b>Connecting the Gas</b> .....	<b>18</b>	<b>Troubleshooting</b> .....	<b>36</b>
<b>Checking Gas Pressure</b> .....	<b>19</b>	<b>Warranty</b> .....	<b>Back Cover</b>
Manual Control .....	19		
Hi/Lo Remote Control .....	19		
Milli-Volt Control .....	19		

## 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 vent-free 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 any 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 appliance 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 appliance.
4. Do not place clothing or other flammable material on or near the appliance.
5. Any safety screen or guard removed for servicing an appliance, 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 before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding materials, 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/NFPA54.**

10. This unit complies with ANSI Z21.11.2-2001 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.
14. **Caution:** Candles, incense, oil lamps, etc. produce combustion byproducts including soot. Vent-free appliances will not filter or clean soot produced by these types of products. In addition, the smoke and/or aromatics (scents) may be reburnt in the vent-free appliance which can produce odors. It is recommended to minimize the use of candles, incense, etc. while the vent-free appliance is in operation.
15. 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. See page 10.
16. Keep room area clear and free from combustible materials, gasoline and other flammable vapors and liquids.

*Continued on page 4*

## IMPORTANT SAFETY INFORMATION

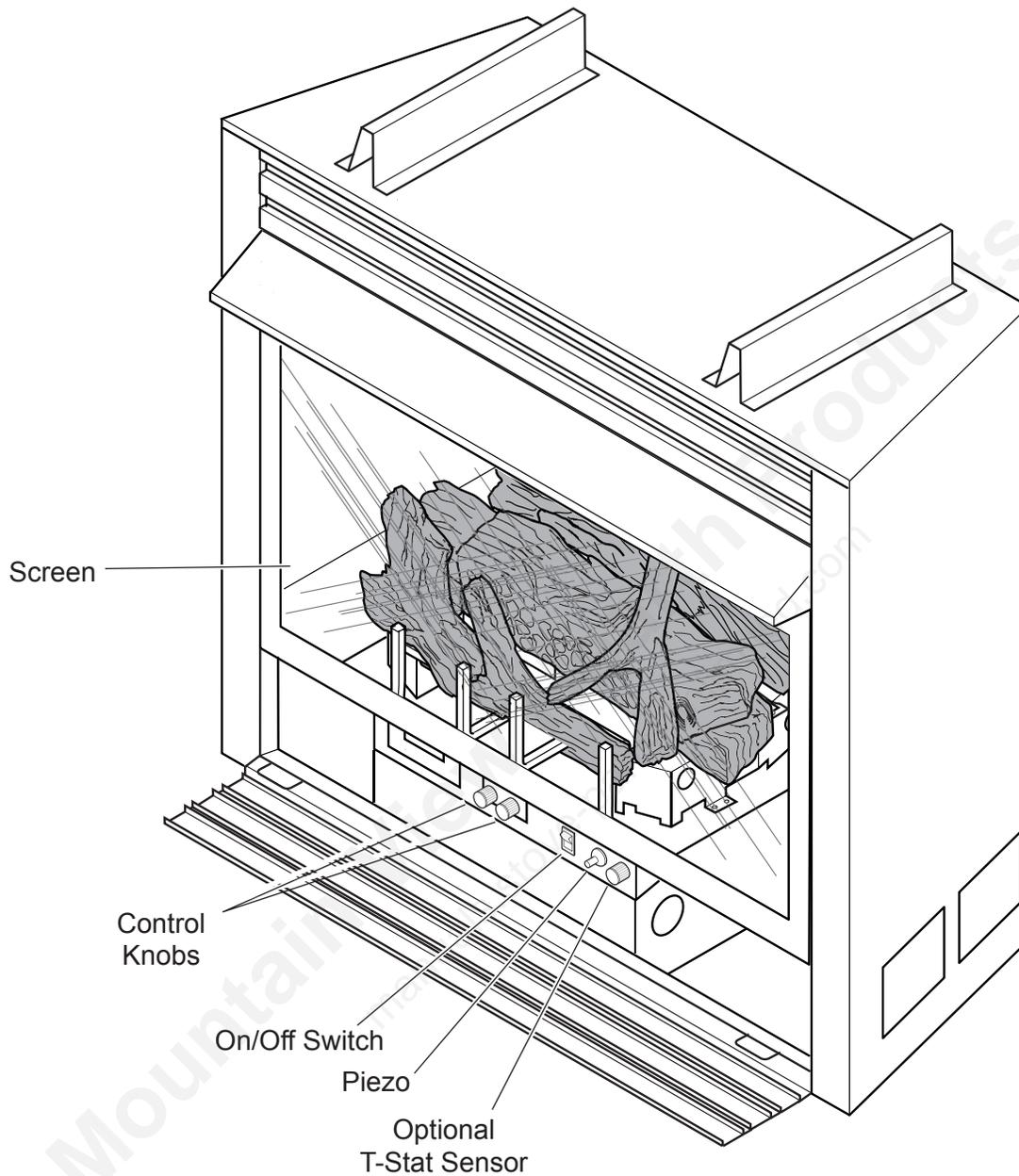
*Continued from page 3*

17. Unvented gas heaters are a supplemental zone heater. They are not intended to be the primary heating appliance.
18. Unvented gas heaters emit moisture into the living area. In most homes of average construction, this does not pose a problem. In houses of extremely tight construction, additional mechanical ventilation is recommended.
19. 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 two to three 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.
20. 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.
21. 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 psig (3.5 kPa).
22. The appliance must be isolated from gas supply piping system by closing its equipment shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig (3.5 kPa).
23. 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.
24. Never burn solid fuels in a fireplace where a unvented room heater is installed.
25. Always have a fireplace screen in place when the appliance is in operation and, unless other provisions for combustion air are provided, the screen must have an opening(s) for induction of combustion air.

**THIS APPLIANCE MAY BE INSTALLED IN AN AFTERMARKET, PERMANENTLY LOCATED, MANUFACTURED (MOBILE) HOME, WHERE NOT PROHIBITED BY LOCAL CODES.**

**THIS APPLIANCE IS ONLY FOR USE WITH THE TYPE OF GAS INDICATED ON THE RATING PLATE. THIS APPLIANCE IS NOT CONVERTIBLE FOR USE WITH OTHER GASES.**



**Figure 1 - Unvented Gas Heater with Control Access Door Open**

This vent-free fireplace must be mounted on the floor or on the optional fireplace hearth.

## **OPERATION**

This unvented gas heater requires no outside venting and 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.

## PRODUCT FEATURES

### NATURAL GAS

#### Manual Pressure

Regulator Pressure: Setting: 3.0" w.c.

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

#### Milli-Volt and T-Stat 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.

#### Hi/Lo Pressure

Regulator Pressure Setting: 3.5" w.c.

Pilot Regulator: 3.5" w.c.

Gas Inlet Pressure: Max. 11" w.c.  
Min. 6" w.c.

Model Number	Control	Gas Rate	
		Max BTU/Hr	Min BTU/Hr
DFS32NMA	MANUAL	28,000	18,000
DFS32NVA	MILLI-VOLT	28,000	18,000
DFS32NTA	T-STAT	28,000	18,000
DFS32NHA	HI/LO REMOTE	28,000	18,000
DFS3224NMA	MANUAL	38,000	20,000
DFS3224NVA	MILLI-VOLT	38,000	25,000
DFS3224NTA	T-STAT	38,000	25,000
DFS3224NHA	HI/LO REMOTE	38,000	20,000
DFS36NMA	MANUAL	38,000	20,000
DFS36NVA	MILLI-VOLT	38,000	25,000
DFS36NTA	T-STAT	38,000	25,000
DFS36NHA	HI/LO REMOTE	38,000	20,000
DFS42NMA	MANUAL	38,000	20,000
DFS42NVA	MILLI-VOLT	38,000	25,000
DFS42NTA	T-STAT	38,000	25,000
DFS42NHA	HI/LO REMOTE	38,000	20,000

### PROPANE/LPG

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

#### Manual Pressure

Regulator Pressure Setting: 10" w.c.

Gas Inlet Pressure: Max. 13" w.c.  
Min. 11" w.c.

#### Milli-Volt and T-Stat Pressure

Regulator Pressure Setting: 10" w.c.

Gas Inlet Pressure: Max. 13" w.c.  
Min. 11" w.c.

#### Hi/Lo Pressure

Regulator Pressure Setting: 10" w.c.

Gas Inlet Pressure: Max. 13" w.c.  
Min. 12" w.c.

Model Number	Control	Gas Rate	
		Max BTU/Hr	Min BTU/Hr
DFS32PMA	MANUAL	28,000	18,000
DFS32PVA	MILLI-VOLT	28,000	20,000
DFS32PTA	T-STAT	28,000	20,000
DFS32PHA	HI/LO REMOTE	28,000	21,000
DFS3224PMA	MANUAL	38,000	20,000
DFS3224PVA	MILLI-VOLT	38,000	30,000
DFS3224PTA	T-STAT	38,000	30,000
DFS3224PHA	HI/LO REMOTE	38,000	22,000
DFS36PMA	MANUAL	38,000	20,000
DFS36PVA	MILLI-VOLT	38,000	30,000
DFS36PTA	T-STAT	38,000	30,000
DFS36PHA	HI/LO REMOTE	38,000	22,000
DFS42PMA	MANUAL	38,000	20,000
DFS42PVA	MILLI-VOLT	38,000	30,000
DFS42PTA	T-STAT	38,000	30,000
DFS42PHA	HI/LO REMOTE	38,000	22,000

## IGNITION CONTROLS

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

### Manual 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.
- HI/LOW** - Variable position corresponding to desired flame height.

### Hi/Lo valve control has four (4) positions:

- OFF** - All gas to the gas logs is shut off at the valve.
- PILOT** - Valve position to light/maintain a standing pilot.
- ON** - Valve position to turn ON.
- HI/LOW** - Variable position corresponding to desired flame height back to pilot.

### Milli-Volt and T-Stat 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 (ODS assembly) 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 milli-volt gas log pilot is fitted with a milli-volt 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:

- Unvented gas log grate/burner assembly
- Installation/operating instructions
- Ceramic fiber logs
- Two (2) radiant face plates
- Plastic bag containing crushed volcanic rock
- Two (2) anchoring screws
- Canopy and five (5) mounting screws
- Remote Control (Hi/Lo Model Only)

The milli-volt controlled version of this heater is the only style designed to be operated with optional devices for ON/OFF functions. The following options may be used with the milli-volt controlled heater. These options are not packaged with the log set.

- Hand held Remote with receiver
- Wall switch with 15' wire
- Wall thermostat with 15' wire
- Hand held Thermostat Remote with receiver
- Thermostat Sensor

### WARNING

- **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.**

### WHAT YOU WILL NEED FOR INSTALLATION:

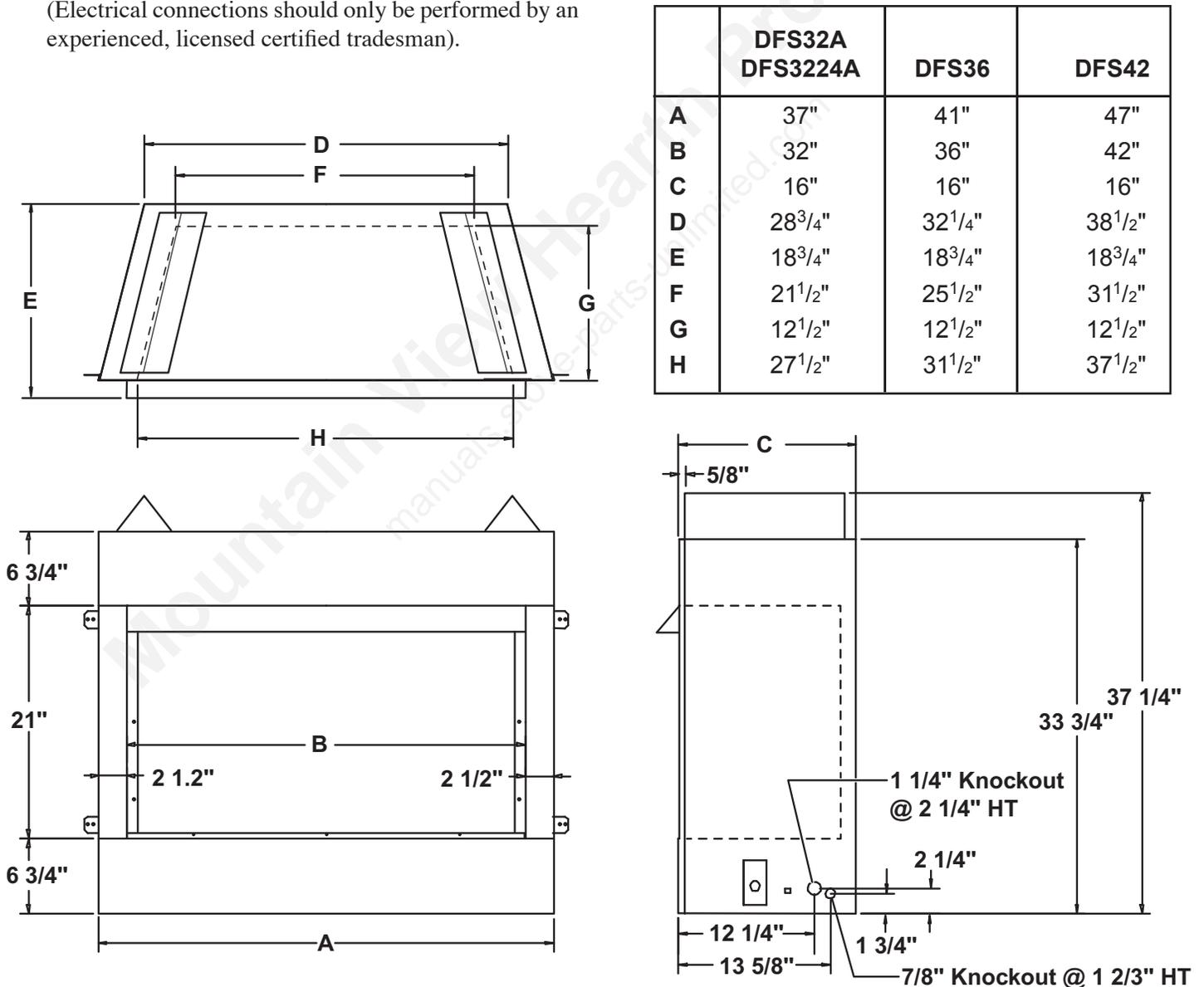
You must have the following items available before proceeding with installation:

- External regulator (for propane/LPG and 1/2 lb. natural gas systems only)
- Piping which complies with local codes
- Pipe wrench or appropriate size crescent wrench set
- Pipe sealant approved for use with propane/LPG (Resistant to sulfur compounds)
- Sediment trap
- Manual shutoff valve
- Tee joint.
- Drill with 5/32 bit
- Phillips head screwdriver

## GENERAL INSTALLATION INFORMATION

In planning the installation for the fireplace it is necessary to determine where the unit is to be installed and whether optional accessories are desired. Gas supply piping should also be planned. The following steps represent the normal sequence of installation. Each installation is unique, however, and might require a different sequence.

1. Position fireplace in desired location. Refer to the "Location of Fireplace" and "Clearances and Height Requirements", and "Firebox Framing" sections found in this manual. **Note: Be sure all packing material has been removed from underside of the unit.**
2. Install canopy and logs per instructions found in this manual. The canopy **MUST** be installed for safe operation of the unit.
3. Field wire main power supply to units with fan kit. Refer to the "Electrical Section" found in this manual. (Electrical connections should only be performed by an experienced, licensed certified tradesman).
4. Install optional ON/OFF kit on units with milli-volt control. Refer to installation instructions included with the kit and also refer to the "Electrical Wiring" section found in this manual.
5. Plumb gas line. Refer to the "Connecting the Gas" section found in this manual. (Gas connections should only be performed by an experienced, licensed / certified tradesman).
6. Complete finish wall material and/or surround.



**Figure 2 - Firebox Dimensions with Screen and Log Sets Removed**

---

## GENERAL INSTALLATION INFORMATION

---

### 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.**

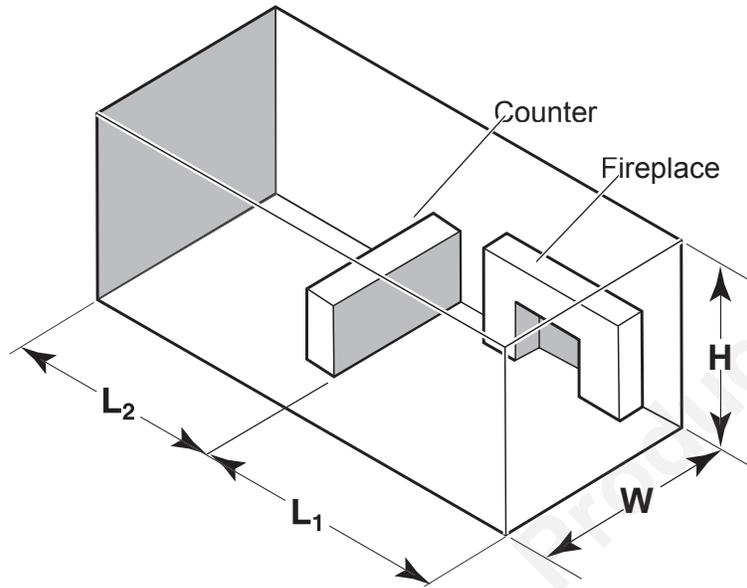
### ADEQUATE COMBUSTION AND VENTILATION AIR

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

**The National Fuel Gas Code, (ANSI Z223.1/NFPA54),** defines a confined space as a space whose volume is less than 50 cubic feet per 1,000 BTU per hour (4.8 m<sup>3</sup> per kw) of the aggregate input rating of all appliances installed in that space, and an unconfined space as a space whose volume is not less than 50 cubic feet per 1,000 BTU per hour (4.8 m<sup>3</sup> 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.

### 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 1 perm (6 x 10<sup>11</sup> kg per pa/sec-m<sup>2</sup>) or less with openings gasketed or sealed;
- b) weather striping 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.



**Figure 3 - Example of a Large Room with 1/2 Wall Divider**

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

$$\text{BTU/Hr} = \frac{(L_1 + L_2) \text{ Ft} \times (W) \text{ Ft} \times (H) \text{ Ft}}{50} \times 1000$$

Consider two connecting rooms with an open area between, with the following dimensions:

$$L_1 = 15\frac{1}{2} \text{ Ft.}, L_2 = 12 \text{ Ft.}, W = 12 \text{ Ft.}, H = 8 \text{ Ft.}$$

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

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

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

**WARNING**

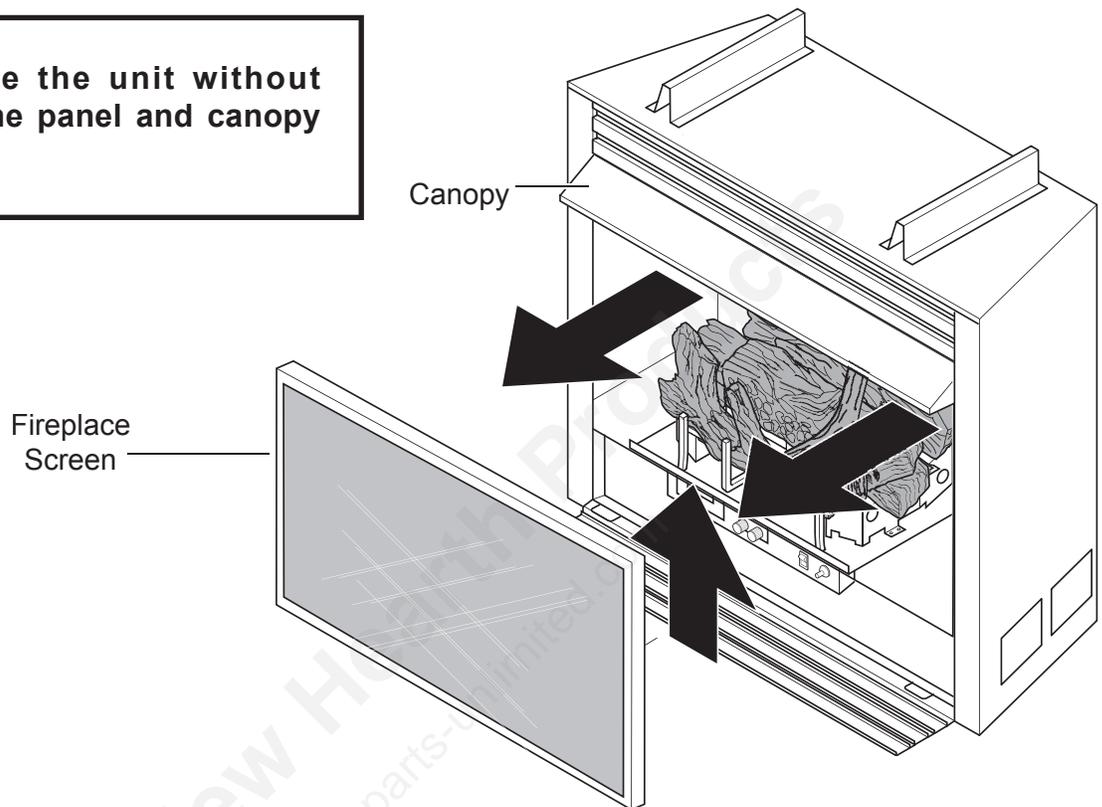
If the area in which the heater may be operated is smaller than that defined as an unconfined space or if the building is of unusually tight construction, provide adequate combustion and ventilation air by one of the methods described in the National Fuel Gas Code, ANSI Z223.1/NFPA54, Section 5.3 or applicable local codes.

## GENERAL INSTALLATION INFORMATION

### REMOVING SCREEN

Remove fireplace screen frame panel by pushing screen frame panel up and out. *See Figure 4.*

**WARNING**  
Do not operate the unit without the screen frame panel and canopy installed.

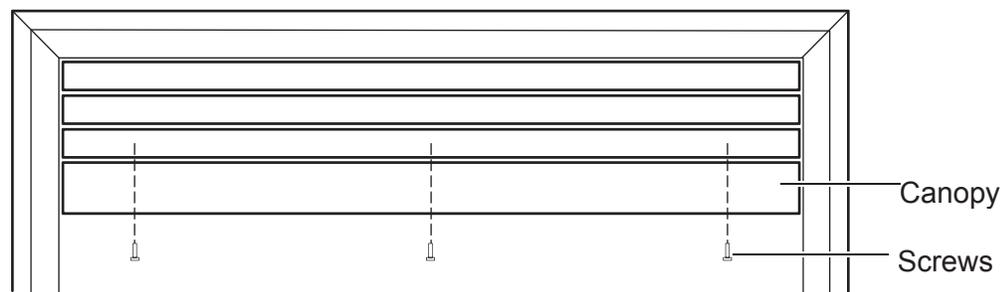


**Figure 4 - Removing Fireplace Screen Frame Panel**

**NOTE:** Fireplace screen must be removed to access log box and to install canopy.

### INSTALLING CANOPY

1. Remove the fireplace screen as described in the previous section.
2. Align the black canopy with the holes in the top frame assembly. *See Figure 5.*
3. Install the three (3) screws (in owner's manual packaging) which attach the canopy to the top frame assembly. *See Figure 5.*
4. Tighten all screws. Make sure the canopy is level and secure. Install the fireplace screen.



**Figure 5 - Canopy Installation**

## SECURING HEATER TO FLOOR OR HEARTH

*Note: Clearance requirements as detailed in "Clearances and Height Requirements" section of this manual, must be met before securing the heater in place.*

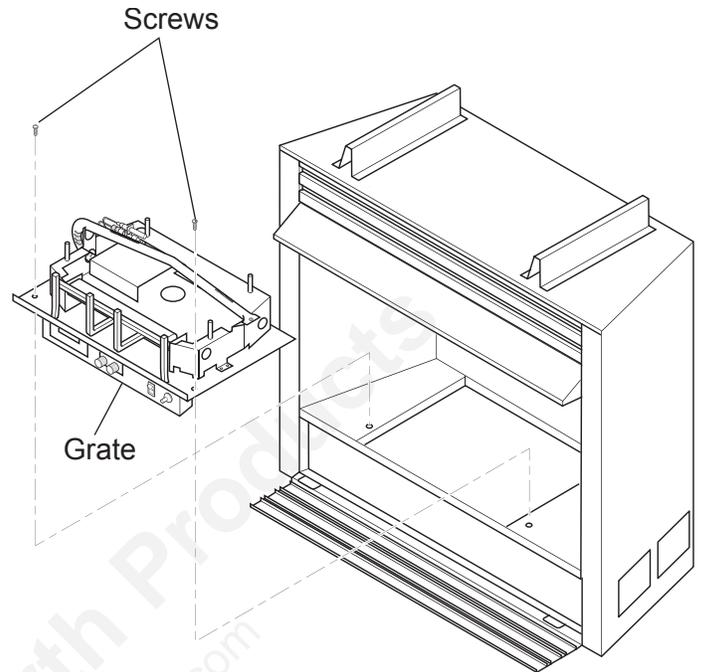
To prevent movement, the heater must be secured to the floor or hearth.

1. Open the control access door and remove the screen.
2. Remove carton containing the four-log set.
3. To remove the grate and base assembly, take out two (2) screws as shown in *Figure 6*.
4. Lift grate and base assembly out of the firebox.  
**CAUTION: Lift grate and base assembly using the grate only.**
5. Secure the firebox with two anchoring screws ( $\frac{3}{16}$ " x  $1\frac{1}{4}$ " length) supplied with the fireplace system. See *Figure 7*.

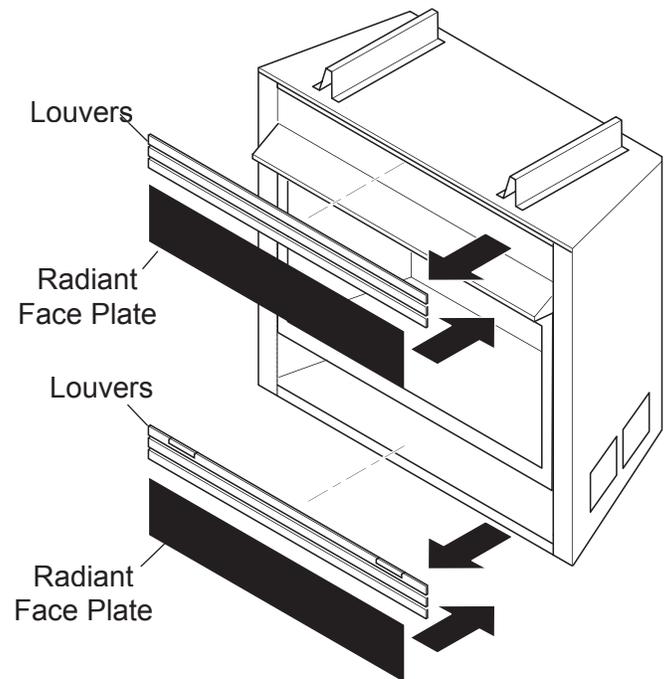
*Note: If the unit is mounted on carpeting, tile or combustible material without the hearth, a metal or wooden base covering the entire width and depth of the base must be installed.*

## INSTALLING RADIANT FACE PLATES

1. Remove the two radiant face plates from the uprights on the top of the firebox. Remove packing foam.
2. Snap off the three upper louvers and the three lower louvers as shown in *Figure 7*.
3. Snap on the upper radiant face plate and the lower radiant face plate as shown in *Figure 7*.



**Figure 6 - Removing Grate**



**Figure 7 - Installing Radiant Face Plates**

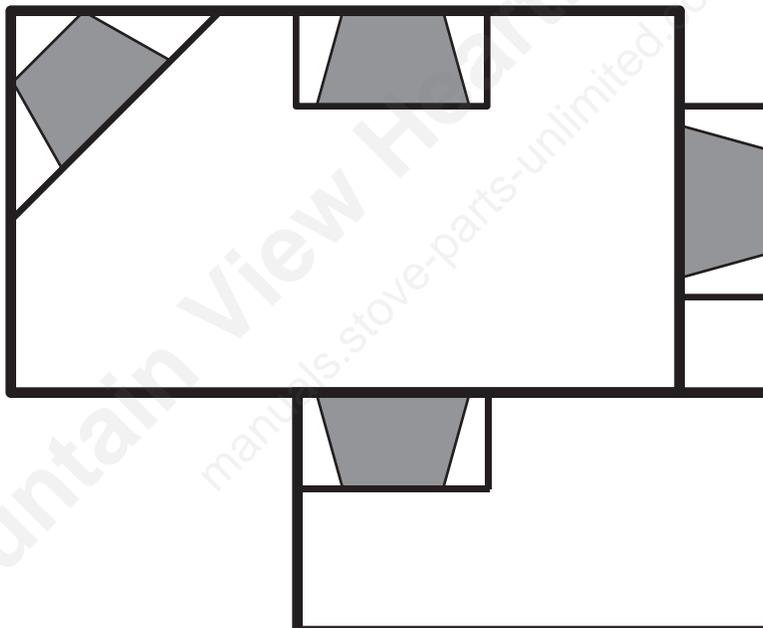
---

## LOCATION OF FIREPLACE

---

Carefully select the best location for installation of your unvented fireplace. The following factors should be taken into consideration.

- Clearance to side wall, ceiling, woodwork and window or other combustibles. Refer to “Clearances and Height Requirements” section on page 15. Minimum clearances to combustibles **must be maintained**.
- Location must not be affected by drafts caused by kitchen exhaust fans, ceiling fans, return air registers for forced air furnaces / air conditioners, windows or doors.
- Installation must provide adequate ventilation and combustion air.
- **DO NOT INSTALL THIS MODEL IN A BEDROOM OR BATHROOM.**
- Location should be out of high traffic areas and away from furniture and draperies due to heat from firebox.
- Never obstruct the front opening of the unvented fireplace or restrict the flow of combustion and ventilation air.
- Minimize modifications to existing construction. *See Figure 8* below for location suggestions.
- Do not install in the vicinity where gasoline or other flammable liquids may be stored. The unvented firebox must be kept clear and free from the combustible materials.



**Figure 8 - Suggested Locations**

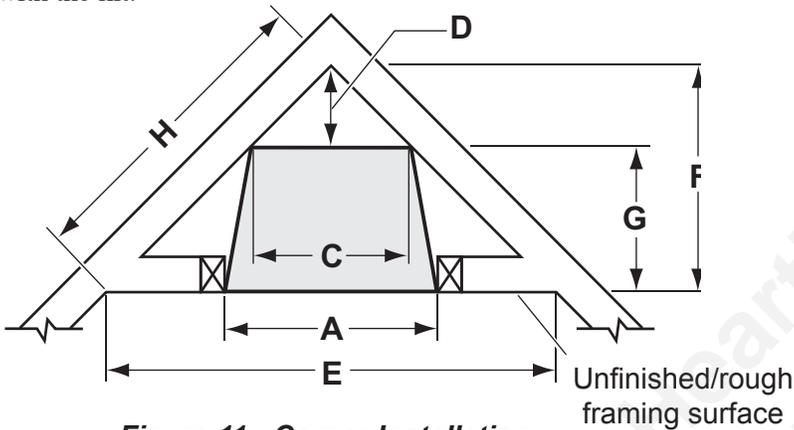


# FIREPLACE FRAMING

If unit is to be “built in”, fireplace framing can be built before or after the appliance is set in place. **BE SURE THAT ALL PACKING MATERIAL HAS BEEN REMOVED FROM THE UNDERSIDE OF THE UNIT PRIOR TO SETTING THE FIREBOX IN PLACE.** Construct fireplace framing following *Figures 11 through 14.* Refer to *Figure 2 on page 9* for fireplace dimensions. The framing headers may rest directly on top of the firebox.

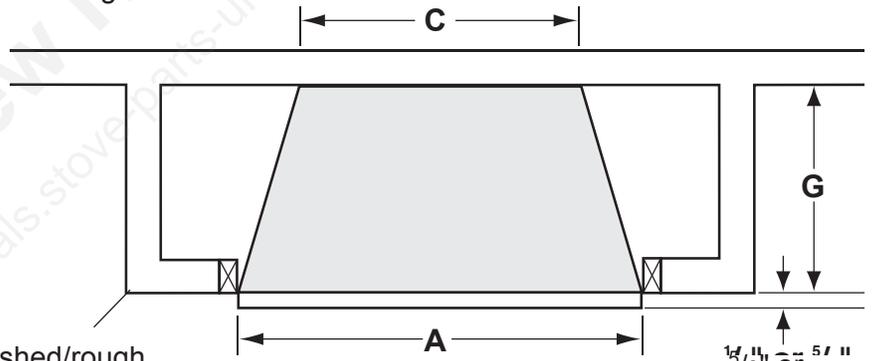
The fireplace may be installed directly on a combustible floor or a raised platform of an appropriate height. Do not place fireplace on carpeting, vinyl, tile or other soft floor coverings. It may, however, be placed on flat wood, plywood, particle board or other hard surfaces. Be sure fireplace rests on a solid continuous floor or platform with appropriate framing for support and so that no cold air can enter from under the firebox.

Anchor fireplace to the side framing members using optional nailing flange kit. See installation instructions included with the kit.

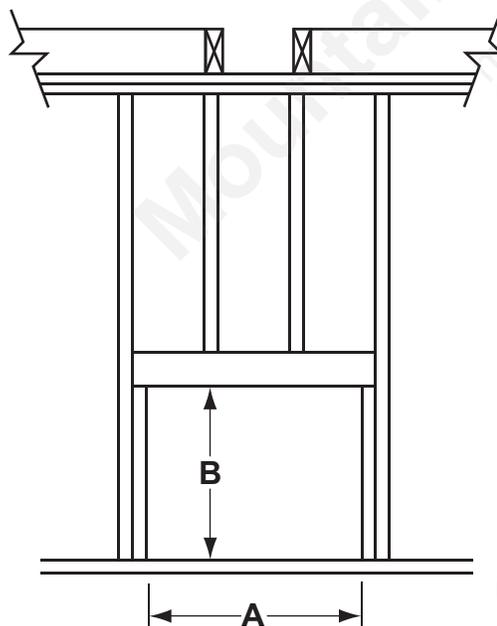


**Figure 11 - Corner Installation**

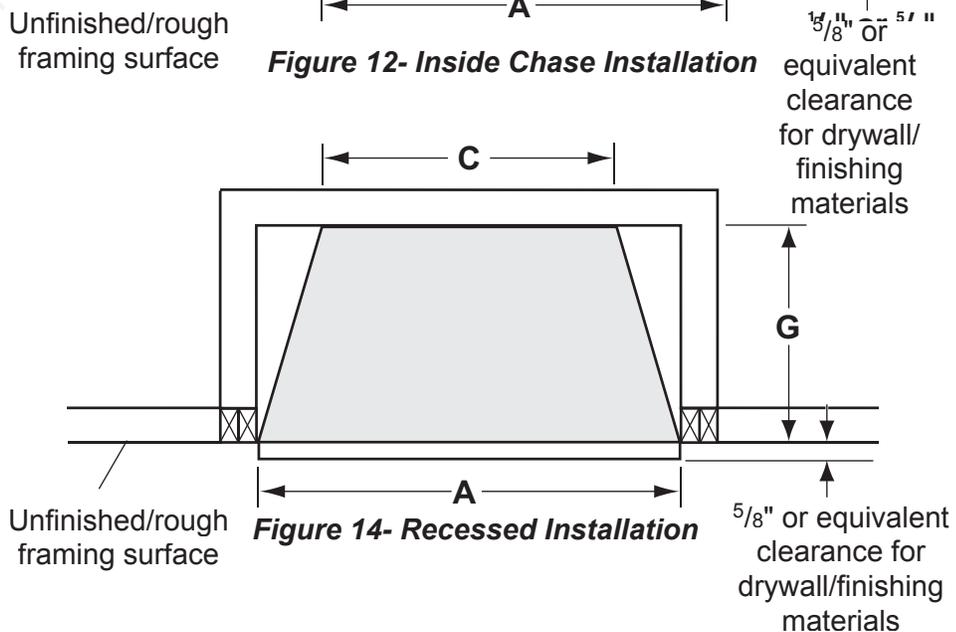
	DFS3224A	DFS36A	DFS42A
A	37 <sup>1</sup> / <sub>4</sub> "	41 <sup>1</sup> / <sub>4</sub> "	47 <sup>1</sup> / <sub>4</sub> "
B	37 <sup>3</sup> / <sub>4</sub> "	37 <sup>3</sup> / <sub>4</sub> "	37 <sup>3</sup> / <sub>4</sub> "
C	28 <sup>3</sup> / <sub>4</sub> "	32 <sup>3</sup> / <sub>4</sub> "	38 <sup>3</sup> / <sub>4</sub> "
D	14 <sup>3</sup> / <sub>8</sub> "	16 <sup>5</sup> / <sub>8</sub> "	19 <sup>3</sup> / <sub>8</sub> "
E	60 <sup>3</sup> / <sub>4</sub> "	65 <sup>1</sup> / <sub>4</sub> "	70 <sup>3</sup> / <sub>4</sub> "
F	30 <sup>3</sup> / <sub>8</sub> "	32 <sup>5</sup> / <sub>8</sub> "	35 <sup>3</sup> / <sub>8</sub> "
G	16"	16"	16"
H	43"	46 <sup>1</sup> / <sub>4</sub> "	50"



**Figure 12- Inside Chase Installation**



**Figure 13 - Stud Location**



**Figure 14- Recessed Installation**

When finishing a custom cabinet, mantel, or other built-in enclosure, the opening size to accommodate the fireplace with trim installed is as follows:

	DFS32A/DFS3224A with trim	DFS36A with trim	DFS42A with trim
K	38"	41 <sup>7</sup> / <sub>8</sub> "	47 <sup>7</sup> / <sub>8</sub> "
J	35 <sup>7</sup> / <sub>8</sub> "	35 <sup>7</sup> / <sub>8</sub> "	35 <sup>7</sup> / <sub>8</sub> "

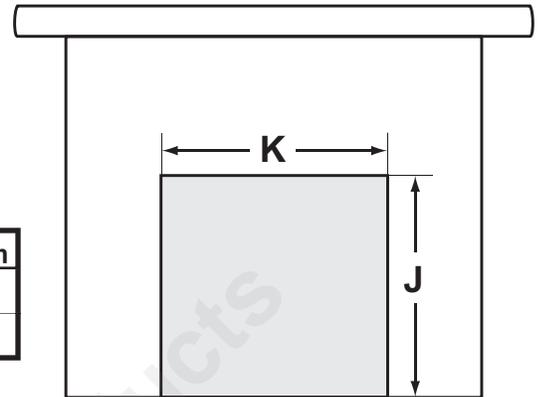


Figure 15 - Custom Cabinet

**WARNING**

The fireplace must be installed giving full consideration to the clearance and height requirements identified in this manual.

1. Bend out the nailing flanges located on each side of the firebox.
2. Slide the firebox into prepared framing or position firebox in its final position and frame later.
3. Level the firebox by checking the top edge of the firebox. Shim if necessary.
4. Anchor firebox to the side framing members using 8d nails or other suitable fasteners. Refer to Figure 16.
5. The canopy must be installed for safe operation of the heater. Refer to page 12 for canopy installation details.

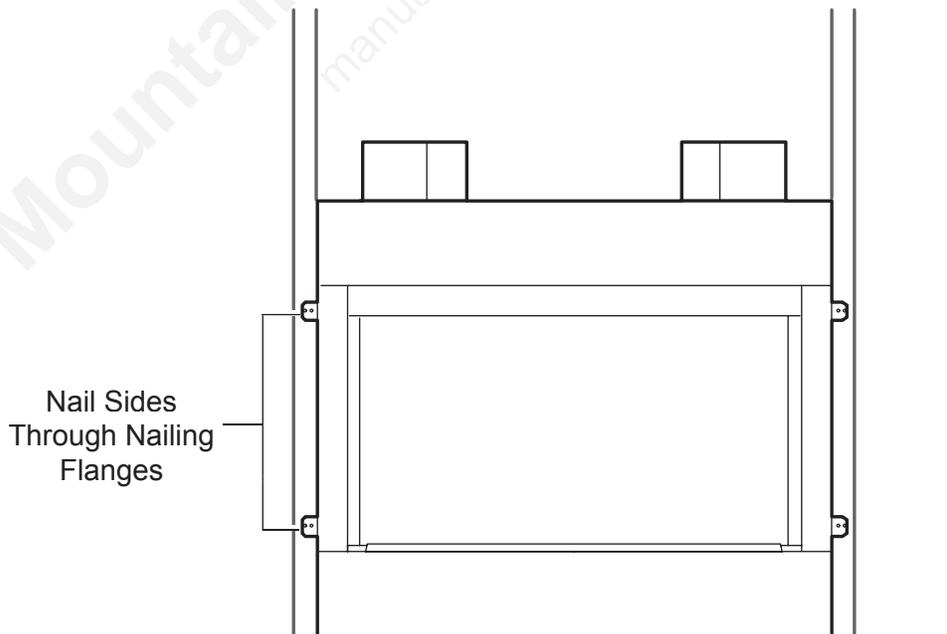


Figure 16 - Location of Nailing Flanges

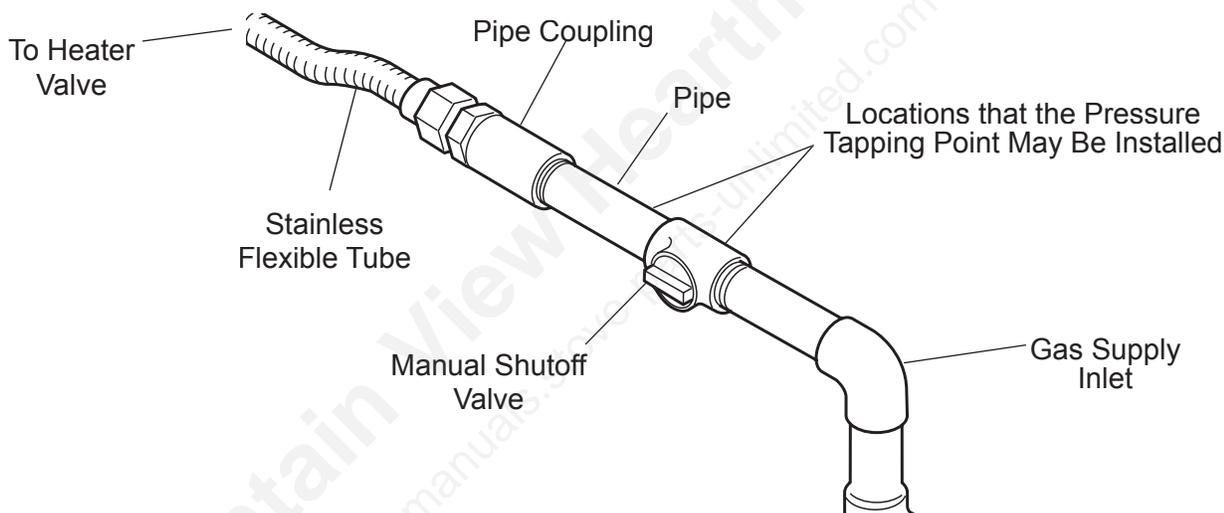
## CONNECTING THE GAS

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

### CAUTION

Use new black iron or steel pipe. Internally tinned copper or copper tubing can be used per National Fuel Code, section 2.6.3, providing gas meets hydrogen 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  $\frac{1}{8}$ " NPT pressure tapping point should be installed upstream of the appliance. See Figure 17.



**Figure 17 - Gas Connection**

**IMPORTANT:** Hold heater valve firmly with a wrench to prevent movement when connecting to inlet pipe.

### WARNING

**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/LPG heaters and high pressure one to two-pound systems 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.

**WARNING**

Connecting directly to an unregulated propane/LPG tank can cause an explosion.

When tightening up the joint to the valve, hold the valve securely to prevent movement.

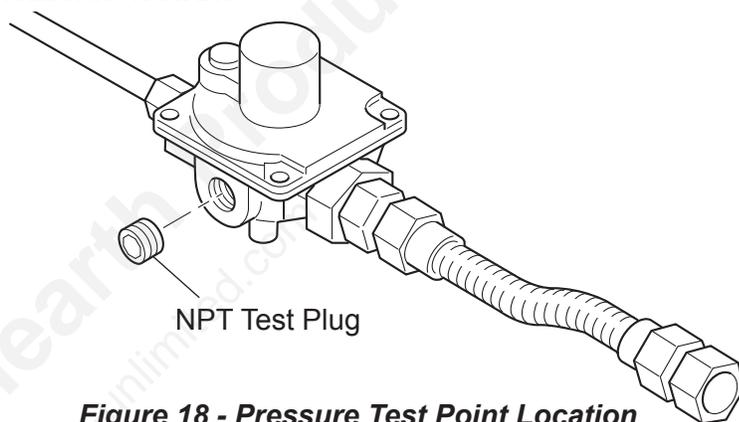
Test all gas joints from the gas meter to the heater valve for leaks using a gas analyzer or soap and water solution after completing connection. **DO NOT USE AN OPEN FLAME.**

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

### MANUAL CONTROL (Figure 18)

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.

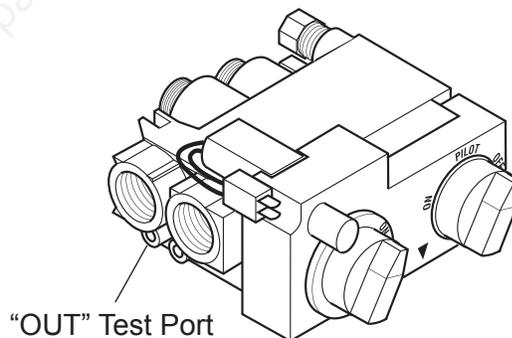
Remove 1/8" NPT plug, located on side of regulator body. Install fitting and tubing to pressure gauge. After taking pressure reading, reinstall test plug. Check for gas leaks.



**Figure 18 - Pressure Test Point Location Manual Control**

### HI/LO REMOTE CONTROL (Figure 19)

Turn captured screw counter clockwise two or three turns. (The port is labeled "OUT") Place tubing to pressure gauge over test point. After taking pressure reading, be sure to turn captured screw clockwise firmly to reseal. Do not over torque. Check for gas leaks.

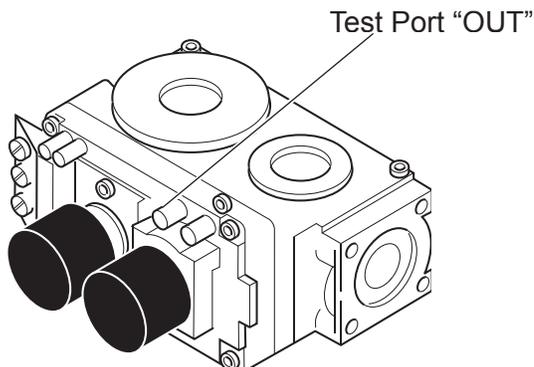


**Figure 19 - Pressure Test Point Location Hi/Lo Control**

### MILLI-VOLT CONTROL AND THERMOSTAT CONTROL (Figure 20)

The valve regulator controls the burner pressure which should be checked at the pressure test point.

Turn captured screw counter clockwise two or three turns and then place tubing to pressure gauge over test point (Use test point "OUT" 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.



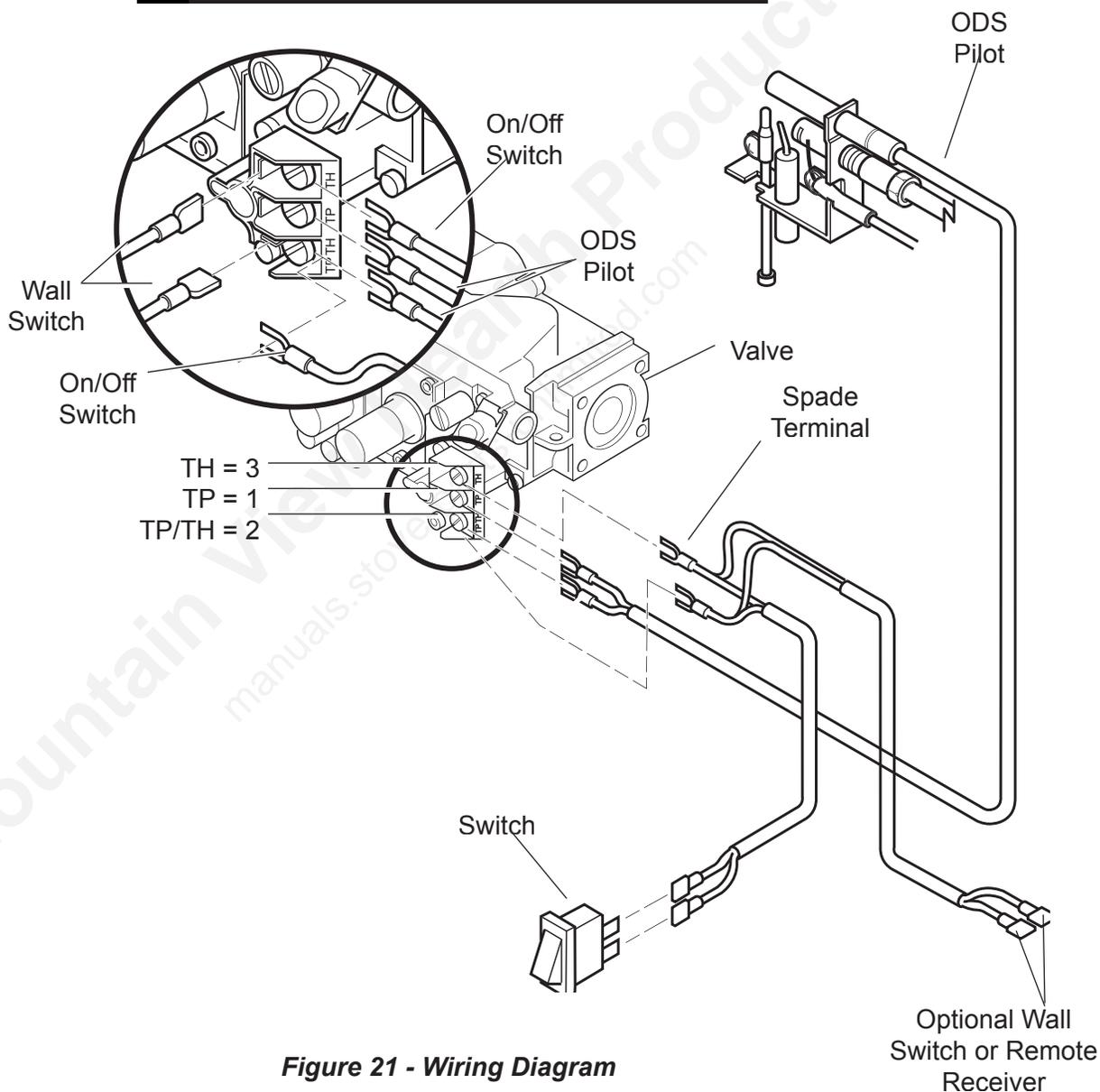
**Figure 20 - Pressure Test Point Location Milli-Volt Control**

## ELECTRICAL WIRING (MILLI-VOLT)

The milli-volt valve is a self-powered combination gas control **THAT DOES NOT REQUIRE 110 VAC TO OPERATE.**

### WARNING

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



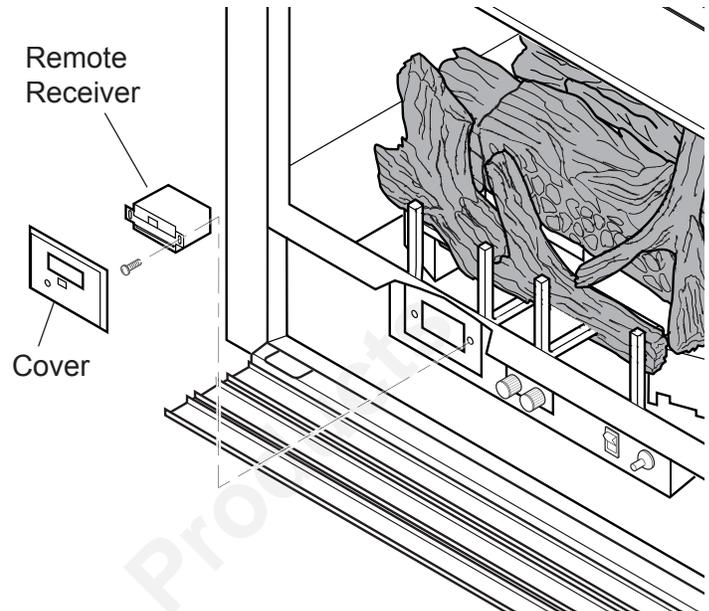
**Figure 21 - Wiring Diagram**

### CONNECTING OPTIONAL WALL SWITCH OR THERMOSTAT

1. Use 18 awg, two-wire cable, 15 feet maximum length.
2. At one end of the cable, connect both wires to the wall switch or thermostat. At the other end, connect one wire to TP/TH and one wire to TH, or connect the wall switch/thermostat to the two male (0.25") terminals on the left side of the unit. The color of the wires does not matter.

## CONNECTING REMOTE RECEIVER

THESE INSTRUCTIONS SUPERCEDE THE SECTION ENTITLED "HEARTH MOUNT" IN THE MILLI-VOLT HAND-HELD REMOTE INSTRUCTIONS SUPPLIED WITH THE REMOTE.



**Figure 22 - Installing Remote Receiver**

1. Remove cover on control panel to show opening for remote receiver. See Figure 22.
2. Cut cable to length (approximately 12") for placement in the fireplace.
3. Strip back 1/4" of the insulation from both ends of each wire.
4. Connect two .25 female connectors to the wires at one end of the cable.
5. Insert the opposite ends of the wires into the receiver wire terminals and tighten the screws.
6. Connect the connectors to the two .25" male connectors located on the left side when facing the unit (Figure 22). Do not let the wire touch the grate or burners.
7. Slide remote receiver in the opening of control panel. Use two screws provided to attach remote receiver to the control panel. See figure 22.
8. Replace Cover. See figure 22.

**NOTE: Do not place remote in combustion chamber.**

## CHECKING SYSTEM OPERATION

The milli-volt system and individual components may be checked with a milli-volt meter having a 0-1000 mV 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 MILLI-VOLT SYSTEM CHECK

**("A" Reading - Thermostat contacts CLOSED - Control Knob "ON" - Main burner should turn ON)**

- a. If the reading is more than 100 milli-volts 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 to Section B below.

### B. Thermopile Output Reading Check

**("B" Reading - Thermostat contacts OPEN - Main burner OFF)**

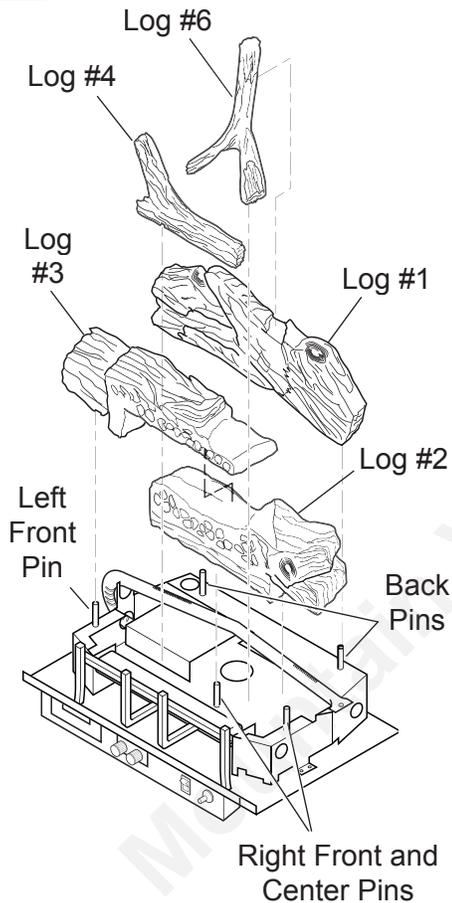
1. Check gas pressure to the unit. If gas pressure is within minimum and maximum on data plate, then check pilot voltage, 325 millivolts minimum. If the minimum milli-volt reading is not obtainable, replace pilot.

## LOG PLACEMENT

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

**WARNING**

The positioning of the logs are 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. Only use the logs supplied with the unit. Failure to position the parts in accordance with diagrams below or to use only parts specifically approved for this heater may result in property damage or personal injury.

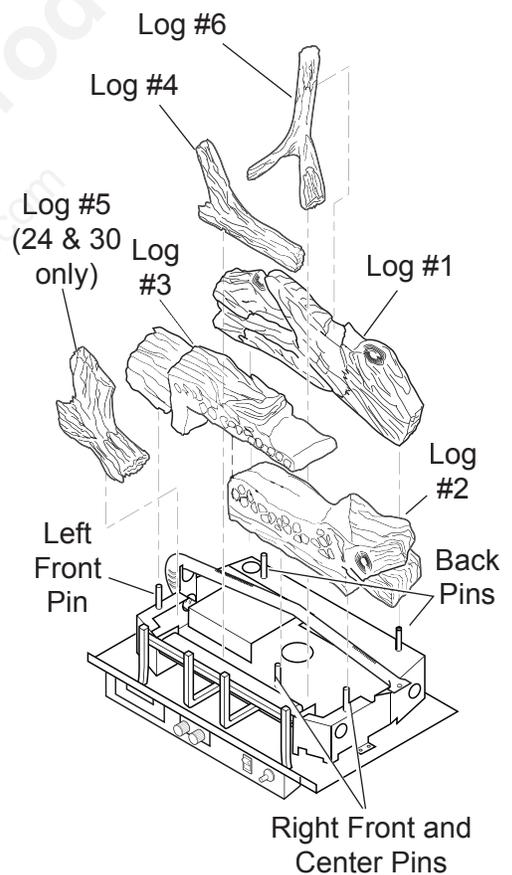


**Figure 23 - Installing Logs to Grate (Model DFS32A)**

### INSTALLING LOGS ON GRATE (See Figures 23 and 24)

**NOTE:** Model DFS32A has 4 logs and Models DFS3224A, DFS36A and DFS42A has 5 logs.

1. Install back log (#1) on two pins located near the back of base. Check log position and stability.
2. Install right center log (#2) on pins located near right front of base and center of base.
3. Install left center log (#3) on pin located near left front of base and on top of right center log (#2).
4. Install middle front log (#4) in front of center log. Make sure bottom of log is resting on the center of grate. Do not let log #4 contact the front burner.
5. **DFS324A, DFS36A and DFS42A only:** Rest right end of left front log (#5) on log #3 and the top of left front log on log #1.
6. Place back end of top center log (#5) on recessed area of back log (#1). Cross log #6 over log #2 and rest right extension on grate. Log #6 should fit on pin on center log #3.



**Figure 24 - Installing Logs to Grate (Models DFS324A, DFS36A and DFS42A)**

### PLACING THE DECORATIVE ROCK

**WARNING**

**DO NOT** sprinkle volcanic rock on the logs or around the pilot or the main burner. This may cause sooting. Place volcanic rock only 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.

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 for natural. See Figures 25 and 27 for correct pilot flame.

If the pilot flame does not touch the thermocouple, then the main burner cannot function reliably. See Figures 26 and 28 for incorrect shape of pilot flame.

## THERMOSTAT AND MILLI-VOLT CONTROL

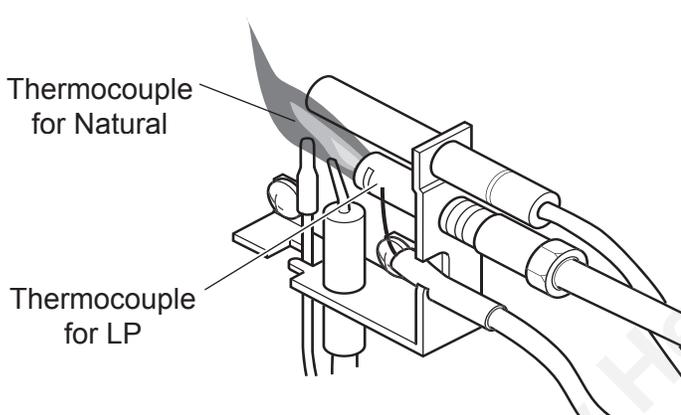


Figure 25 - Correct Appearance of Pilot Flame

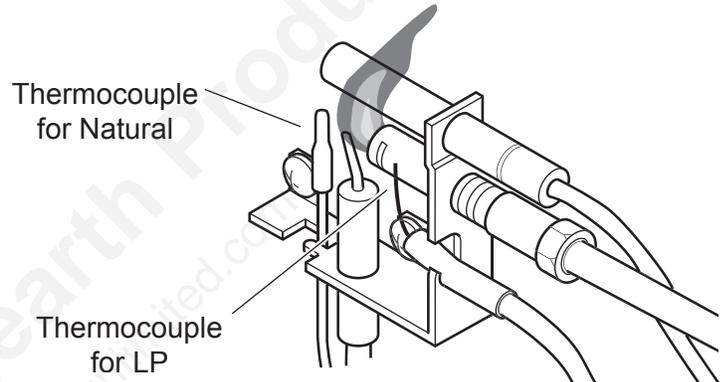


Figure 26 - Incorrect Appearance of Pilot Flame

## MANUAL AND HI/LO CONTROL

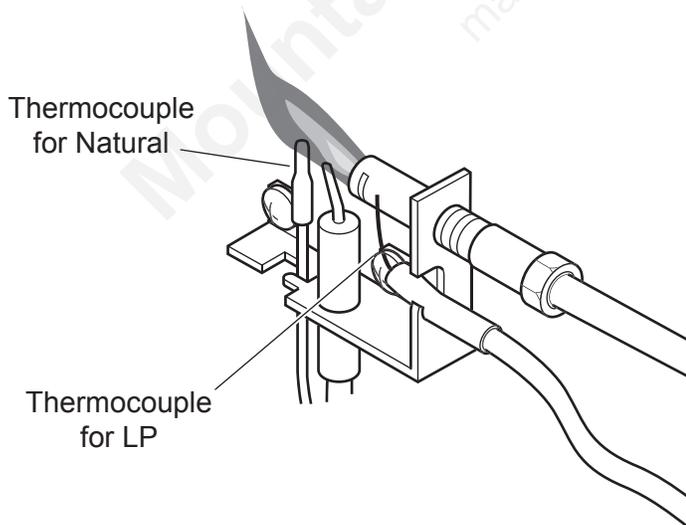


Figure 27 - Correct Appearance of Pilot Flame

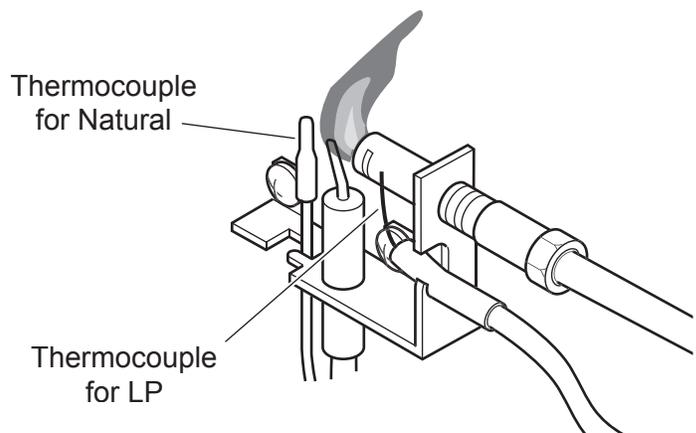
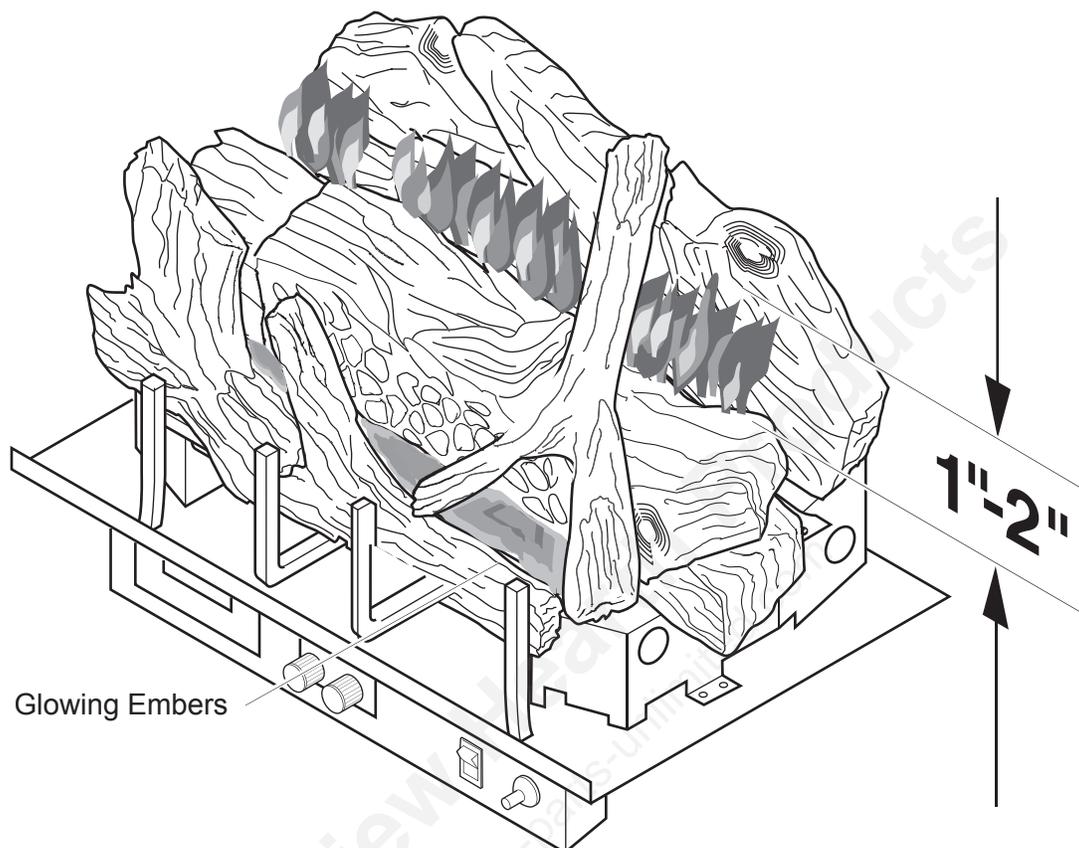


Figure 28 - Incorrect Appearance of Pilot Flame

## CHECKING THE BURNER FLAME

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



**Figure 29 - Correct Appearance of Rear Flames**

The left and right rear flames should be yellow and extend 1"-2" above the log top surfaces. The yellow flames should **not** contact the logs. There should be glowing embers on the front surface of middle log. **Note: The flames and embers will be an opaque orange color during the burn off time.**

### 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 two to three 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.

This appliance must not be used with glass doors in the closed position. This can lead to pilot outages and severe sooting outside the fireplace.

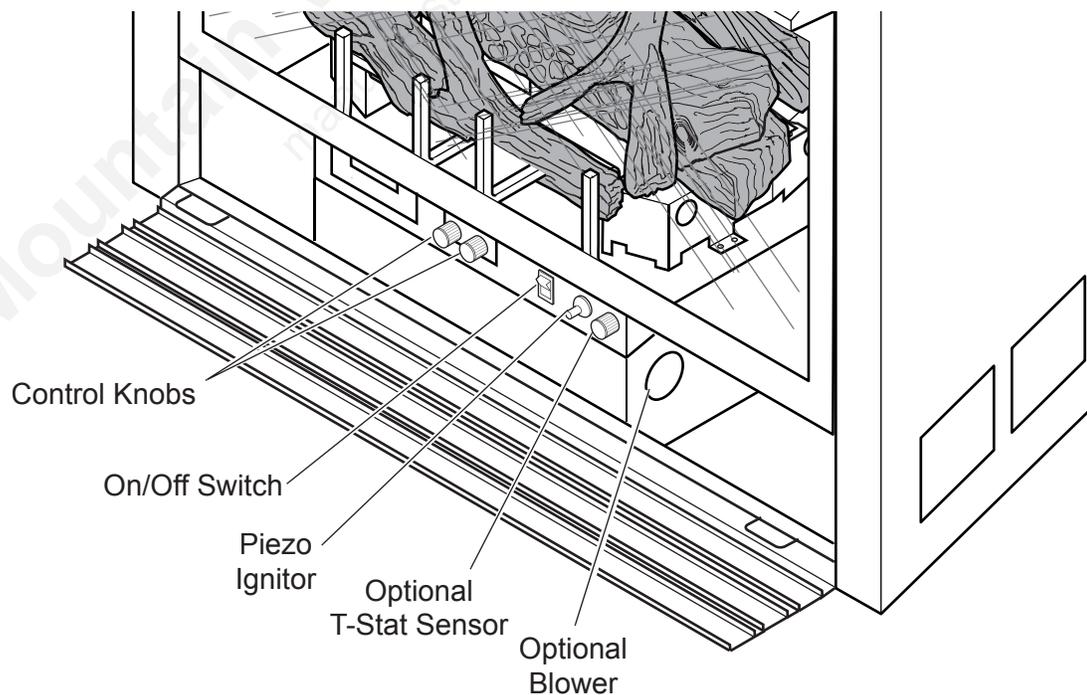
**FOR YOUR SAFETY READ BEFORE LIGHTING****WARNING**

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

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

**WHAT TO DO IF YOU SMELL GAS:**

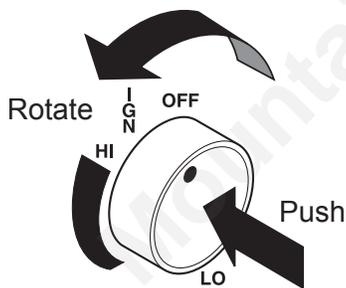
- Do not attempt to light any appliance.
  - Do not touch any electric switch; do not use any phone in your building.
  - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
  - If you cannot reach your gas supplier, call the fire department.
- C.** Use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



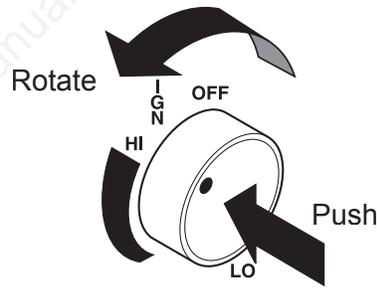
**Figure 30 - Location of Piezo Ignitor, Control Knobs and Switch on Milli-Volt Unit, Hi/Lo Remote Unit and Manual Unit**

## MANUAL CONTROL LIGHTING INSTRUCTIONS

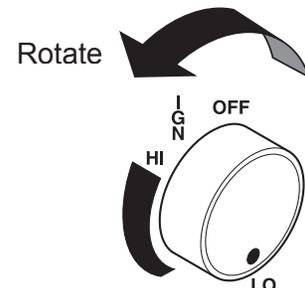
1. STOP! Read the safety information.
2. Make sure the manual shutoff valve is fully open.
3. This heater is equipped with an ignition device (piezo) which automatically lights the pilot.
4. See *Figure 30, page 25* for the location of the piezo ignitor and control knob. Push in gas control knob slightly and turn control knob clockwise to the OFF position.  
**NOTE:** Knob cannot be turned to OFF unless knob is pushed in slightly. Do not force.
5. Wait 5 minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas STOP! Follow the instructions under “What to Do if You Smell Gas”, page 25. If you do not smell gas, go to the next step.
6. From OFF position, push in gas control knob slightly and turn counterclockwise to the IGN position. See *Figure 31*. Push in and hold control knob for 5 seconds.  
**NOTE:** If you are running the heater for the first time, it will be necessary to press in the control knob for 30 seconds to allow air to bleed out of the gas piping.
7. With the control knob pushed in, push and release the piezo ignitor button to light the ODS pilot. The pilot is located on the left side of the heater, behind the middle log and in front of the back log. If piezo ignitor does not light the pilot, refer to “Match Lighting Instructions”, page 29.
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 gas control knob clockwise to OFF and wait 15 seconds. Repeat steps 6 through 9.
10. Push in control knob and turn counterclockwise to the HIGH setting. At this location the control knob will pop out when positioned correctly. The knob can now be positioned at any position between HIGH and LOW. Refer to *Figures 32 and 33*.



**Figure 31 - IGN Position**



**Figure 32 - HIGH Position**



**Figure 33 - LOW Position**

**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.

## HI/LO 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. See *Figure 34* for the location of the piezo ignitor and control knob. Push in gas control knob slightly and turn control knob clockwise to the OFF position.  
**NOTE:** Knob cannot be turned to OFF unless knob is pushed in slightly. Do not force.
5. Wait 5 minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas STOP! Follow the instructions under “What to Do if You Smell Gas”, page 25. If you do not smell gas, go to the next step.
6. From OFF position, push in gas control knob slightly and turn counterclockwise to the pilot position. Push in and hold control knob for 5 seconds.  
**NOTE:** If you are running the heater for the first time, it will be necessary to press in the control knob for 30 seconds to allow air to bleed out of the gas piping.
7. With the gas control knob pushed in, push and release the piezo ignitor button to light the ODS pilot. The pilot is located on the left side of the heater, behind the middle log and in front of the rear log. If piezo ignitor does not light the pilot, refer to “Match Lighting Instructions”, page 29.
8. Hold the gas 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 gas 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 gas control knob counterclockwise to OFF and wait 15 seconds. Repeat steps 6 through 9.
10. Turn gas control knob counterclockwise to pilot to ON.
11. Control flame with Hi/Lo control knob. See *Figure 34*.
12. The Hi/Lo control knob will control the height of the flame from pilot to high position.
13. Hi/Lo can be controlled from the remote.

### WARNING

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

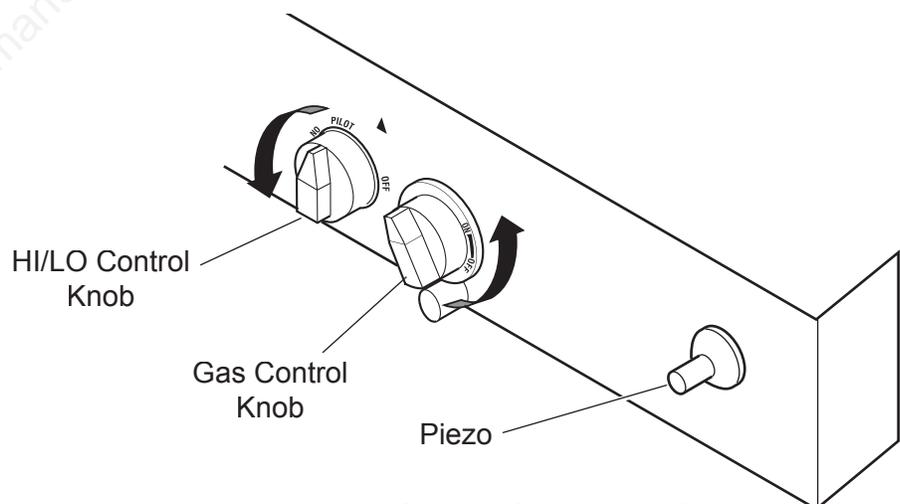


Figure 34 - Control Cover Plate for Hi/Lo

## 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.

## OPERATING INSTRUCTIONS

### MILLI-VOLT/THERMOSTAT 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 Instructions”, page 29.
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 “What to Do if You Smell Gas”, page 25. 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. **NOTE: If you are running the heater for the first time, it will be necessary to press in the control knob for 30 seconds to allow air to bleed out of the gas piping.**
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 10 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” below and call your service technician or gas supplier.

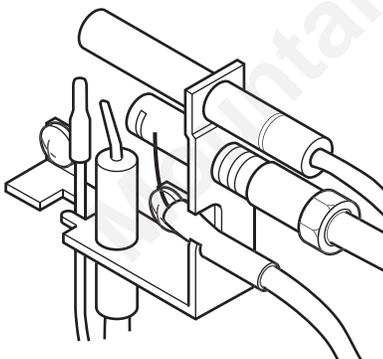


Figure 35 - Pilot

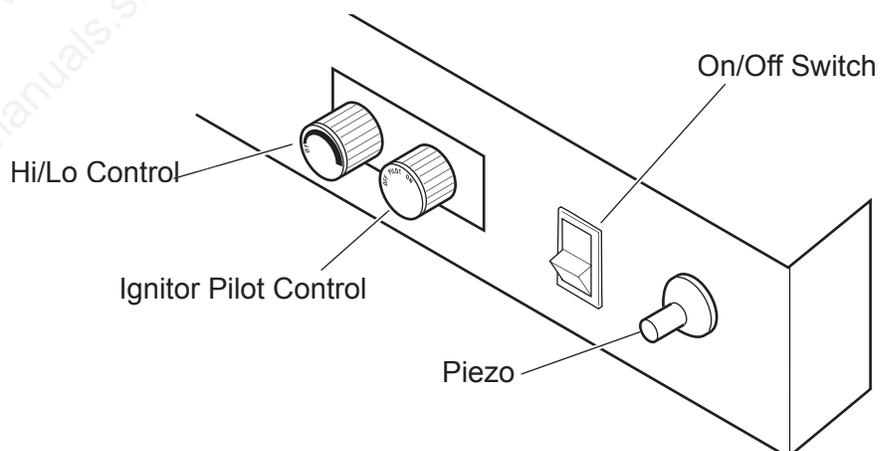


Figure 36 - Control Cover Plate for Milli-Volt

### 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, reinstall any items that were removed for pilot access.
4. Call a qualified service technician for repair or replacement of the piezo ignitor.

### CLEANING AND SERVICING

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 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.
- Brush logs 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 burner air intake holes. Remove lint or particles with vacuum, brush, or pipe cleaners. 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 burner air intake holes. Remove lint or particles with vacuum, brush or pipe cleaners. 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.

---

## BLOWER AND OTHER OPTIONAL EQUIPMENT

---

### OPTIONAL EQUIPMENT

#### FORCED AIR KIT

If you are installing the forced air kit, Model BLOT, see the installation instructions provided with the kit for electrical wiring requirements, or the blower installation section. The firebox must be connected to main power supply at time of firebox installation. The blower must be installed prior to the installation of the unvented heater. The electrical connections must be made before the firebox is framed and enclosed in the finished walls.

#### BRASS LOUVERS

Optional brass louvers may be installed in place of the factory installed black louvers. Refer to installation instructions provided with the brass or chrome louvers.

#### BRASS TRIM

Optional brass trim kits can be used with unit when installed as a free standing fireplace with a wood surround.

#### FIREBRICKS

Optional firebrick kits can be installed. Refer to installation instructions provided with kit.

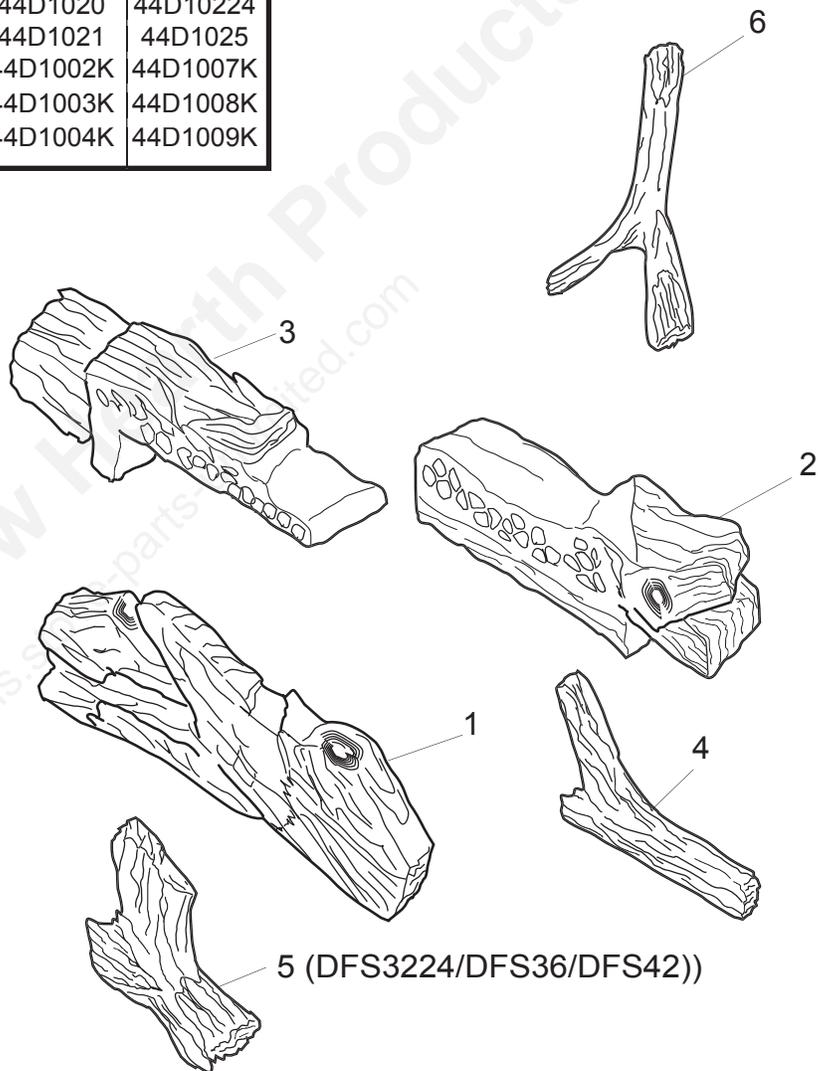
### WARNING

Electrical connections should only be performed by a qualified, licensed electrician, main power must be off when connecting to main electrical power supply or performing service.

REPLACEMENT PARTS ARE AVAILABLE THROUGH YOUR RETAILER.

## LOGS

Item	Description	Qty	DFS32	DFS3224 DFS36	DFS42
1	Back Log	1	44D1011K	44D1001K	44D1006K
2	Right Center Log	1	44D1022	44D1020	44D10224
3	Left Center Log	1	44D1023	44D1021	44D1025
4	Middle Front Log	1	44D1012K	44D1002K	44D1007K
5	Left Front Log	1	—	44D1003K	44D1008K
6	Top Log	1	44D1013K	44D1004K	44D1009K



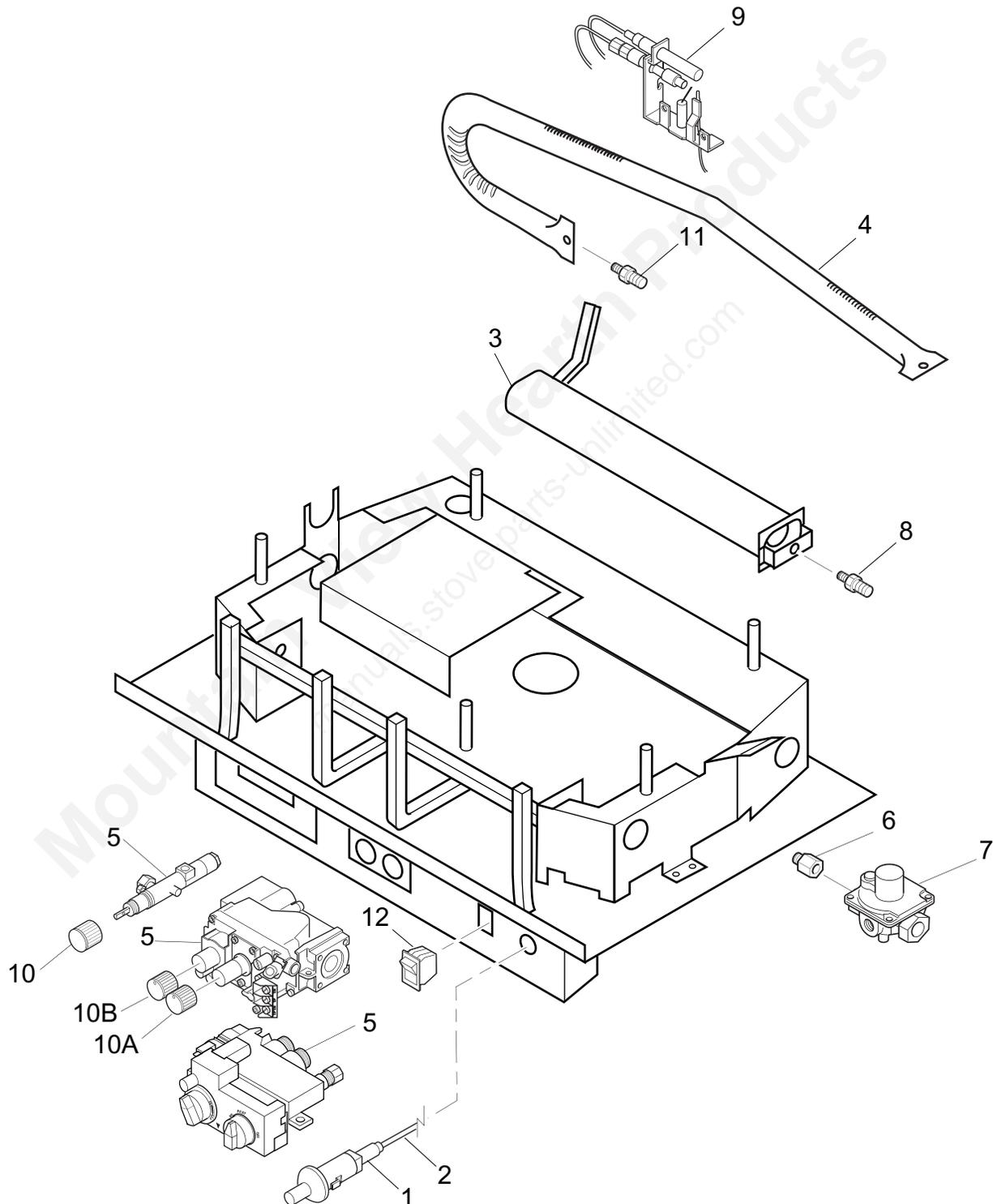
### WARNING

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.

## ILLUSTRATED PARTS BREAKDOWN

**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.



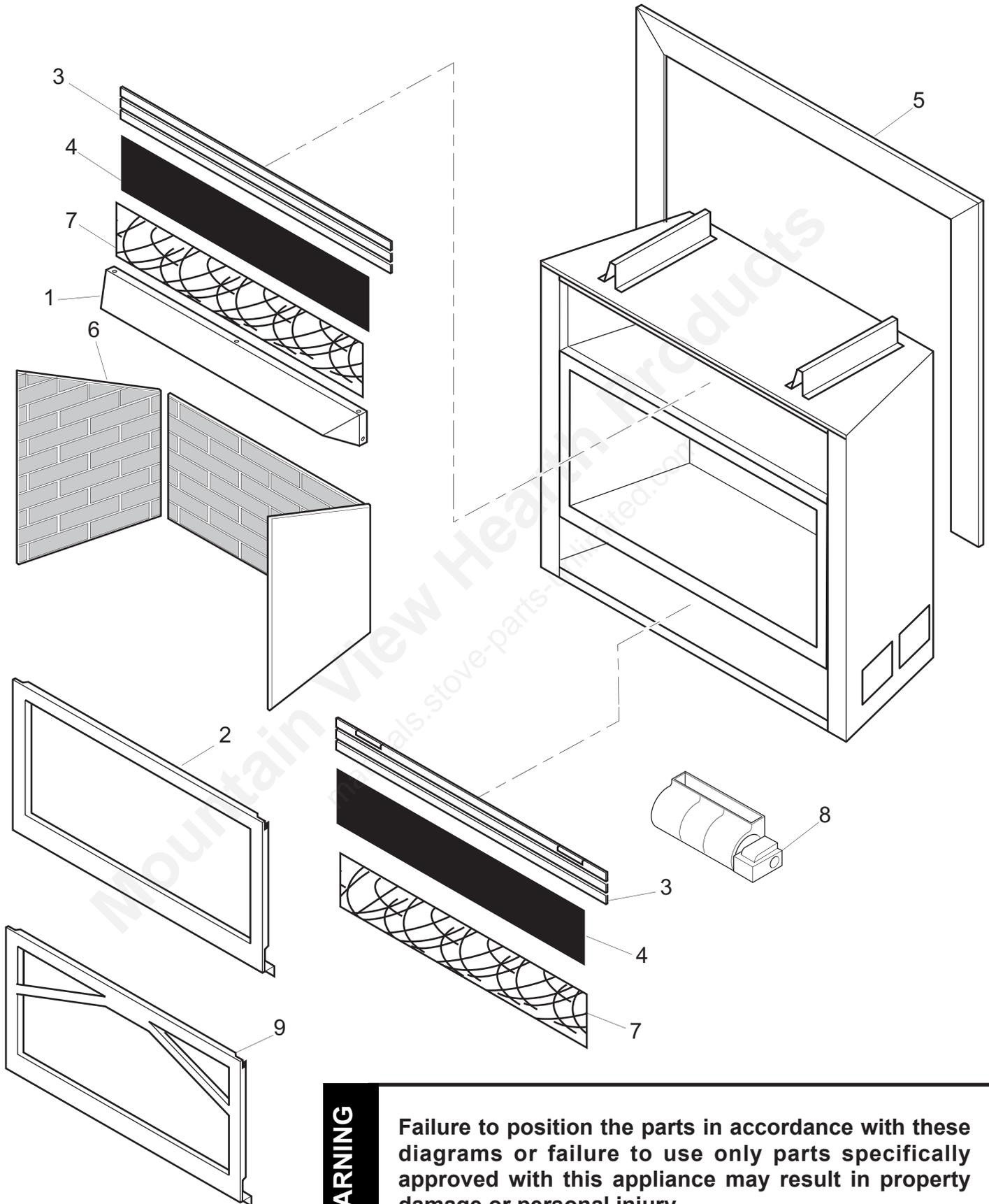
# REPLACEMENT PARTS LIST

**REPLACEMENT PARTS ARE AVAILABLE THROUGH YOUR RETAILER.**

Item	Description	Qty	DFS32A		DFS3224A		DFS36A		DFS42A	
			Natural	Propane	Natural	Propane	Natural	Propane	Natural	Propane
<b>Common Parts</b>										
1	Piezo Ignitor	1	14D0503							
2	Piezo Wire	1	00K0632							
3	Front Burner	1	44D0020K	44D0020K	44D0019K	44D0019K	44D0019K	44D0019K	44D0019K	44D0019K
4	Rear Burner	1	44D0035K	44D0036K	44D0081K	44D082K4	44D081K3	44D0082K	44D0081K	44D0082K
<b>Manual Control</b>										
5	Control Valve	1	30D0201	30D0202	30D0201	30D0202	30D0201	30D0202	30D0201	30D0202
6	Control Valve Nut	1	00F0586							
7	Valve Regulator	1	24D0305	24D0306	24D0305	24D0306	24D0305	24D0306	24D0305	24D0306
8	Front Burner Injector	1	44D0200	44D0202	44D0204	44D0206	44D0204	44D0206	44D0204	44D0206
9	ODS Pilot Assembly	1	26D2529	26D2530	26D2529	26D2530	26D2529	26D2530	26D2529	26D2530
10	Control Knob	1	18D0603							
11	Rear burner Injector	1	44D0201	44D0203	44D0205	44D0207	44D0205	44D0207	44D0205	44D0207
<b>Hi/Lo Control</b>										
5	Control Valve	1	26D4000	26D4001	26D4000	26D4001	26D4000	26D4001	26D4000	26D4001
8	Front Burner Injector	1	44D0208	44D0210	44D0212	44D0214	44D0212	44D0214	44D0212	44D0214
9	ODS Pilot Assembly	1	14D0473	14D0474	14D0473	14D0474	14D0473	14D0474	14D0473	14D0474
11	Rear burner Injector	1	44D0209	44D0211	44D0213	44D0215	44D0213	44D0215	44D0213	44D0215
<b>Milli-Volt Control</b>										
5	Control Valve	1	14D0467	14D0468	14D0467	14D0468	14D0467	14D0468	14D0467	14D0468
8	Front Burner Injector	1	44D0208	44D0210	44D0212	44D0214	44D0212	44D0214	44D0212	44D0214
9	ODS Pilot Assembly	1	26D2529	26D2530	26D2529	26D2530	26D2529	26D2530	26D2529	26D2530
10A	Pilot/On/Off Knob Extension	1	37D0010							
10B	Hi/Lo Knob Extension	1	37D0011							
11	Rear burner Injector	1	44D0209	44D0211	44D0213	44D0215	44D0213	44D0215	44D0213	44D0215
12	On/Off Switch	1	32D0232							

<b>Accessories</b>		
Flex Connector	Flexcon 30	All Models
Wall Switch Kit	MVWS	Milli-volt only
Wall Thermostat Kit	MVWTS	Milli-volt only
Hand Held Remote	MRC	Milli-volt only
Hand Held Thermostat Remote	TRC	Milli-volt only
Thermostat Sensor Kit	TS	Milli-volt only

# ILLUSTRATED PARTS BREAKDOWN



## 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

**REPLACEMENT PARTS ARE AVAILABLE THROUGH YOUR RETAILER.**

			DFS32A	DFS3224A	DFS36A	DFS42A
Item	Description	Qty				
<b>Standard Features</b>						
1	Canopy	1	26D0713	26D0713	26D0715	26D0717
2	Screen Assembly	1	26D2451	26D2451	26D2452	26D2453
3	Black Louvre	6	26D0695	26D0695	26D0697	26D0699
4	Radiant Front	2	26D0574	26D0574	26D0576	26D0578
<b>Accessories</b>						
3	Brass Louvre	3	L32BR	L32BR	L36BR	L42BR
3	Chrome Louvre	3	L32CH	L32CH	L36CH	L42CH
5	Curved Design Brass Trim	1	BRTK32C	BRTK32C	BRTK36C	BRTK42C
5	Curved Design Chrome Trim	1	CHTK32C	CHTK32C	CHTK36C	CHTK42C
5	Curved Design Black Trim	1	BLTK32C	BLTK32C	BLTK36C	BLTK42C
5	4" Wide Brass Wall Trim	1	BRWT32	BRWT32	BRWT36	BRWT42
6	Weathered Firebrick	1	FB32W1B	FB32W1B	FB36W1B	FB42W1B
7	Brass Filigree Kit	1	BRFK32	BRFK32	BRFK36	BRFK42
8	Blower with Rheostat	1	BLO	BLO	BLO	BLO
9	Black Arched Screen	1	BLAR32	BLAR32	BLAR36	BLAR42

## TROUBLESHOOTING

**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
<b>When ignitor button is pressed, there is no spark at ODS/pilot.</b>	<ol style="list-style-type: none"><li>1. Ignitor electrode positioned wrong.</li><li>2. Ignitor electrode is broken.</li><li>3. Ignitor electrode not connected to ignitor cable.</li><li>4. Ignitor cable pinched or wet. Keep ignitor cable dry.</li><li>5. Broken ignitor cable.</li><li>6. Bad piezo ignitor.</li></ol>	<ol style="list-style-type: none"><li>1. Replace ignitor.</li><li>2. Replace ignitor.</li><li>3. Reconnect ignitor cable.</li><li>4. Free ignitor cable if pinched by any metal or tubing.</li><li>5. Replace ignitor cable.</li><li>6. Replace piezo ignitor.</li></ol>
<b>Appliance produces unwanted odors.</b>	<ol style="list-style-type: none"><li>1. Appliance burning vapors from paint, hair spray, glues, etc.</li><li>2. Gas leak.</li><li>3. Initial burn off.</li></ol>	<ol style="list-style-type: none"><li>1. Ventilate room. Stop using odor causing products while heater is running.</li><li>2. Locate and correct all leaks.</li><li>3. Ventilate room and turn unit on high until odor is gone. Odor should be gone after 2 to 3 hours of continuous use.</li></ol>
<b>Appliance shuts off during use.</b>	<ol style="list-style-type: none"><li>1. Not enough fresh air is available for ODS/pilot to operate.</li><li>2. Low line pressure.</li><li>3. ODS/pilot is partially clogged.</li><li>4. Defective Thermopile.</li> <li>5. Restrictions in incoming air flow.</li></ol>	<ol style="list-style-type: none"><li>1. Open window and/or door for ventilation.</li><li>2. Contact local gas company.</li><li>3. Clean ODS/pilot.</li><li>4. Check pilot flame, check wire connections, check output, should be 325 millivolts across TH/TP and TP Terminals with ON/OFF switches off.</li><li>5. Check for bottom riser on glass door, sunken fireplace, excessive lava rock/cinders densely packed against grate.</li></ol>
<b>Gas odor even when control knob is in OFF position.</b>	<ol style="list-style-type: none"><li>1. Gas leak.</li><li>2. Control valve defective.</li></ol>	<ol style="list-style-type: none"><li>1. Locate and correct all leaks.</li><li>2. Replace control valve.</li></ol>
<b>When ignitor button is pressed, there is spark at ODS pilot, but no ignition.</b>	<ol style="list-style-type: none"><li>1. Gas supply turned off or manual shutoff valve closed.</li><li>2. Control knob not in PILOT position.</li><li>3. Control knob not pressed in while in PILOT position.</li><li>4. Air in gas lines when installed.</li> <li>5. ODS/pilot is clogged.</li> <li>6. Gas regulator setting is not correct.</li></ol>	<ol style="list-style-type: none"><li>1. Turn on gas supply or open manual shutoff valve.</li><li>2. Turn control knob to PILOT position.</li><li>3. Press in control knob while in PILOT position.</li><li>4. Continue holding down control knob. Repeat igniting operation until air is removed.</li><li>5. Replace ODS/pilot assembly or get it serviced.</li><li>6. Replace gas regulator.</li></ol>

**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.

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
<b>ODS/pilot lights, but flame goes out when control knob is released.</b>	<ol style="list-style-type: none"> <li>Control knob not fully pressed in.</li> <li>Control knob not pressed in long enough.</li> <li>Manual shutoff valve not fully open.</li> <li>Thermocouple connection loose at control valve.</li> <li>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.</li> <li>Thermocouple damaged.</li> <li>Control valve damaged.</li> </ol>	<ol style="list-style-type: none"> <li>Press in control knob fully.</li> <li>After ODS/pilot lights, keep control knob pressed in for 30 seconds.</li> <li>Fully open manual shutoff valve.</li> <li>Hand tighten thermocouple connection until snug, then tighten 1/4 turn more.</li> <li>5a. Contact local gas company. 5b. Clean pilot with vacuum cleaner.</li> <li>Replace thermocouple.</li> <li>Replace control valve.</li> </ol>
<b>Burner does not light after ODS/pilot is lit.</b>	<ol style="list-style-type: none"> <li>Burner orifice is clogged.</li> <li>Burner orifice diameter is too small.</li> <li>Inlet gas pressure is too low.</li> </ol>	<ol style="list-style-type: none"> <li>Clean orifice.</li> <li>Replace burner orifice.</li> <li>Contact qualified service person.</li> </ol>
<b>Burner backfires during combustion.</b>	<ol style="list-style-type: none"> <li>Manifold pressure is too low.</li> <li>Burner orifice is clogged.</li> </ol>	<ol style="list-style-type: none"> <li>Contact local gas company.</li> <li>Clean burner or replace burner orifice.</li> </ol>
<b>Slight smoke or odor during initial operation.</b>	<ol style="list-style-type: none"> <li>Burner orifice is clogged or damaged.</li> <li>Burner is damaged.</li> <li>Gas regulator defective.</li> </ol>	<ol style="list-style-type: none"> <li>Clean burner or replace burner orifice.</li> <li>Replace burner.</li> <li>Replace gas regulator.</li> </ol>
<b>Logs appear to smoke after initial operation.</b>	<ol style="list-style-type: none"> <li>Vapors from paint or curing process of logs.</li> <li>Vapors or smoke continue after heater has run with damper or window open for several hours.</li> </ol>	<ol style="list-style-type: none"> <li>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.</li> <li>Log heater is intended to be smokeless. Turn OFF heater and call qualified service person.</li> </ol>
<b>Heater produces a whistling noise when burner is lit.</b>	<ol style="list-style-type: none"> <li>Turning control knob to HIGH position when burner is cold.</li> <li>Air in gas line.</li> <li>Dirty or partially clogged burner orifices.</li> </ol>	<ol style="list-style-type: none"> <li>Turn control knob to LOW position and let warm up for a minute.</li> <li>Operate burner until air is removed from line. Have gas line checked by local gas company.</li> <li>Clean burner or replace burner orifice.</li> </ol>
<b>No gas to pilot.</b>	<ol style="list-style-type: none"> <li>LP-regulator shut down due to inlet pressure too high.</li> </ol>	<ol style="list-style-type: none"> <li>Verify LP tank regulator is installed and set at 11" to 13" w.c.</li> <li>Replace regulator on heater.</li> </ol>

---

## NOTES

---

Mountain View Hearth Products  
manuals.stove-parts-unlimited.com

Mountain View Hearth Products  
manuals.stove-parts-unlimited.com

# MONESSEN HEARTH SYSTEMS

## LIMITED LIFETIME WARRANTY POLICY

The following components are warranted for life to the original owner, subject of 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: Vent Free 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 two years 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 two years from the date of installation. Any products presented for warranty repair must be accompanied by a dated proof of purchase.

This Limited Lifetime Warranty will be void if the appliance is not installed by a qualified installer in accordance with the installation instructions. The Limited Lifetime Warranty will also be void if the appliance is not operated and maintained according to the operating instructions supplied with the appliance, and does not extend to (1) firebox/burner assembly 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 appliance, or (3) incidental or consequential damage. All 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 merchantability 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 the appliance. In states that do not allow limitations on how long an implied warranty lasts, or do not allow exclusion of indirect damage, those limitations of exclusions may not apply to you. You may also have additional rights not covered in this Limited Lifetime Warranty.

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

For information about this warranty, contact:

**Technical Services  
Monessen Hearth Systems  
149 Cleveland Drive  
Paris, Kentucky 40361**