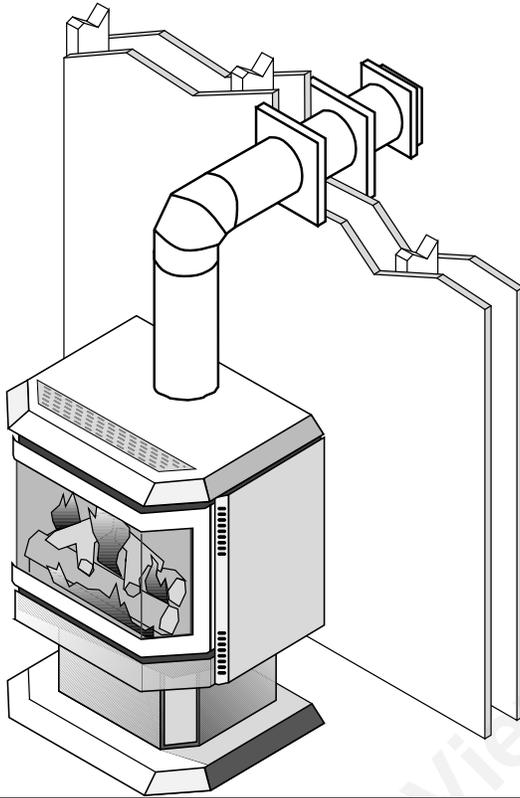


# AVANTI

By Avalon

## Direct Vent Heater



- HORIZONTAL or VERTICAL VENT
- FREESTANDING STOVE or INSERT
- MOBILE HOME APPROVED
- CLASS A CHIMNEY RETROFIT



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

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Installation must be performed by a qualified installer, service agency or the gas supplier

### **IF YOU SMELL GAS**

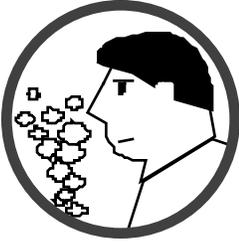
- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

## AVANTI DV

- July, 1996 -

**Installer:** After installation give this manual to the homeowner and explain operation of this heater.

 **Travis Industries, Inc.**  
10850 117th Place N.E. Kirkland, WA 98033

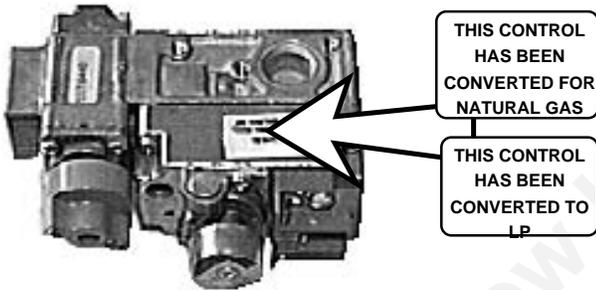


**• IF YOU SMELL GAS:**

- \* Do not light any appliance
- \* Extinguish any open flame
- \* Do not touch any electrical switch or plug or unplug anything
- \* Open windows and vacate building
- \* Call gas supplier from neighbor's house, if not reached, call fire department



- This unit must be installed by a qualified installer to prevent the possibility of an explosion. Your dealer will know the requirements in your area and can inform you of those people considered qualified. The room heater should be inspected before use and at least annually by a qualified service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc.
- The instructions in this manual must be strictly adhered to. Do not use makeshift methods or compromise in the installation. Improper installation will void the warranty and safety listing.



- This heater is either approved for natural gas (NG) or propane (LP). Burning the incorrect fuel will void the warranty and safety listing and may cause an extreme safety hazard. Check the label above the gas control valve to make sure it matches the fuel being used. Direct questions about the type of fuel used to your dealer.



- Contact your local building officials to obtain a permit and information on any installation restrictions or inspection requirements in your area. Notify your insurance company of this heater as well.



- If the flame becomes sooty, dark orange in color, or extremely tall, do not operate the heater. Call your dealer and arrange for proper servicing.



- It is imperative that control compartments, screens, or circulating air passageways of the heater be kept clean and free of obstructions. These areas provide the air necessary for safe operation.



- Do not operate the heater if it is not operating properly in any fashion or if you are uncertain. Call your dealer for a full explanation of your heater and what to expect.



- Do not store or use gasoline or other flammable liquids in the vicinity of this heater.
- Keep all furniture or other combustible items at least 36" away from the front of the heater.



- Do not operate if any portion of the heater was submerged in water or if any corrosion occurs.



- Do not place clothing or other flammable items on or near the heater. Because this heater can be controlled by a thermostat there is a possibility of the heater turning on and igniting any items placed on or near it.



- Light the heater using the built-in piezo igniter. Do not use matches or any other external device to light your heater.



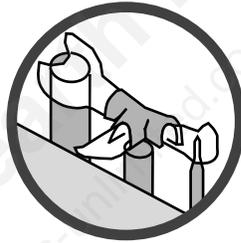
- The viewing glass should be opened for service only (see the maintenance section of this manual).



- Never remove, replace, modify or substitute any part of the heater unless instructions are given in this manual. All other work must be done by a trained technician. Don't modify or replace orifices.



- Operate the heater according to the instructions included in this manual.



- If the main burners do not start correctly turn the gas off at the gas control valve and call your dealer for service.

- Allow the heater to cool before carrying out any maintenance or cleaning.
- The pilot flame must contact the thermopile and thermocouple (see the illustration to the left). If it does not, turn the gas control valve to "OFF" and call your dealer.



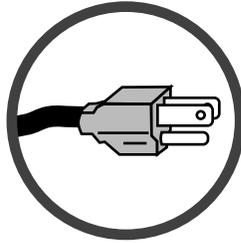
- This unit is not for use with solid fuel



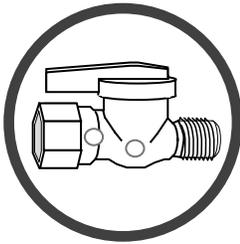
- Do not throw this manual away. This manual has important operating and maintenance instructions that you will need at a later time. Always follow the instructions in this manual.



- Do not touch the hot surfaces of the heater. Educate all children of the danger of a high-temperature heater. Young children should be supervised when they are in the same room as the heater.



- Plug the heater into a 120V grounded electrical outlet. Do not remove the grounding plug.



- Instruct everyone in the house how to shut gas off to the appliance and at the gas main shutoff valve. The gas main shutoff valve is usually next to the gas meter or propane tank and requires a wrench to shut off.



- Travis Industries, Inc. grants no warranty, implied or stated, for the installation or maintenance of your heater, and assumes no responsibility of any consequential damage(s).**

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**Symbols Used in this Manual**

The illustration below details what the symbols used along the left margin indicate.



## Installation Options:

- Residential or Mobile Home
- Freestanding Stove or Insert
- Bedroom Approved
- Alcove Approved
- Vertical or Horizontal Vent

## Features:

- Works During Power Outages (standing pilot)
- High Efficiency
- Optional Thermostat or Remote Control
- Realistic "Wood Fire" Look
- Convenient Operating Controls
- Variable-Rate Heat Output
- Quiet Blower for Effective Heat Distribution
- Low Maintenance

## Heating Specifications:

Approximate Heating Capacity (in square feet)\*  
 High Burn Input Rate (In BTU's)  
 Low Burn Input Rate (In BTU's)  
 Efficiency\*\*  
 AFUE (Annual Fuel Utilization Efficiency)

### Natural Gas

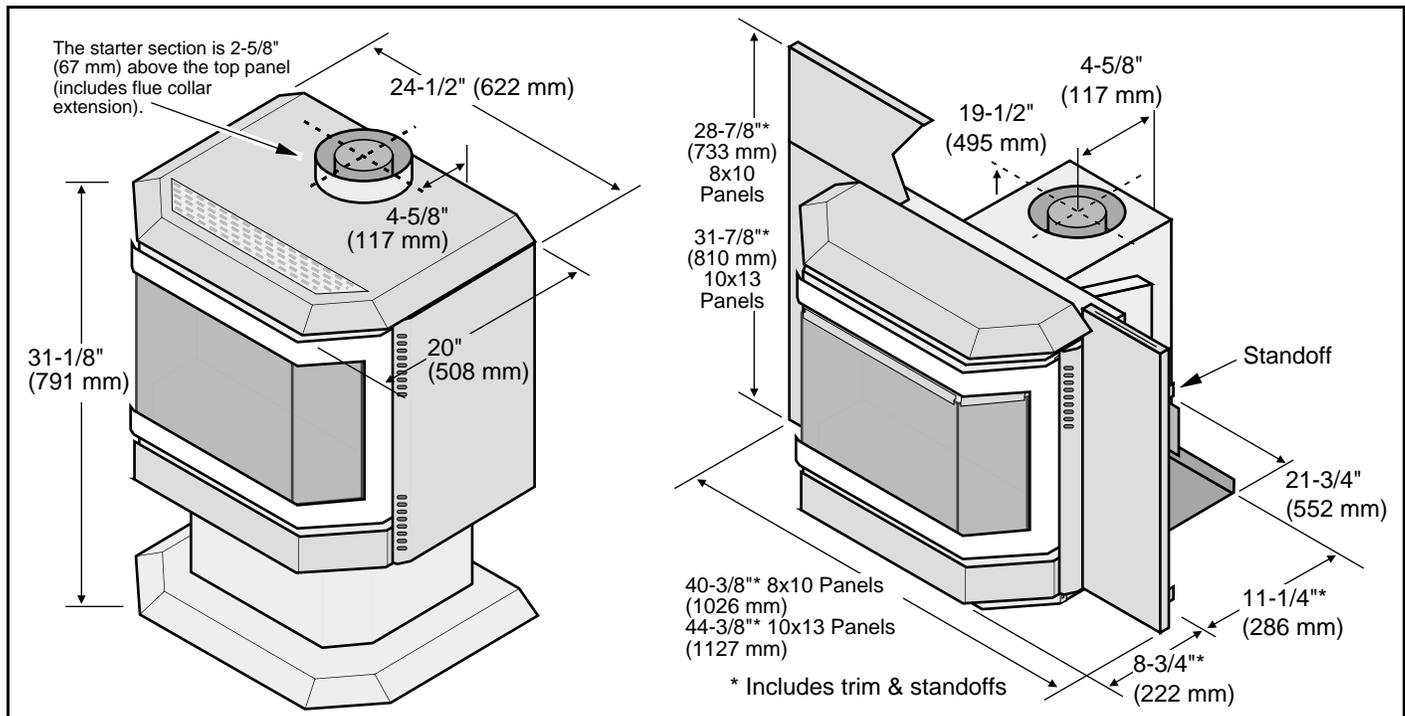
600 - 1600  
 38,500  
 18,700  
 81 %  
 72.4 %

### LP (Propane)

600 - 1600  
 36,500  
 18,000  
 81.5 %  
 73 %

- \* Heating capacity will vary with the home's floor plan and insulation, natural gas or Propane BTU rating, and outside temperature.  
 \*\* Efficiency rating is a product of thermal efficiency rating determined under continuous operation independent of installed system. To measure the net BTU's, multiply the BTU input by the efficiency percentage.

## Dimensions



## Fuel:

The stove is designed either for natural gas or for propane. Check the sticker on the top of the gas control valve.

## Emissions:

This unit has passed the ANSI emission standards for vented room heaters as tested by OMNI Environmental Services, Inc.

## Electrical Specifications:

120 Volts, 1.3 Amps, 60 Hz (150 watts on high)

## Installation Preparation

- ! Failure to follow all of the requirements may result in property damage, bodily injury, or even death.
- ! This appliance must be installed in accordance with all local codes, if any; if not, follow ANSI Z223.1 and NFPA 54(88).
- ! In Manufactured or Mobile Homes must confirm with: In USA, Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280; In Canada, CSA Z240.4 and Gas-Equipped Recreational Vehicles and Mobile Housing. This appliance may be installed in Manufactured Housing only after the home is site located.
- ! This appliance is designed for natural gas or propane (LP). Check the sticker on top of the gas control valve.
- ! All exhaust gases must be vented outside the structure of the living-area. Combustion air is drawn from outside the living-area structure.
- ! Notify your insurance company before hooking up this appliance.
- ! The requirements below are divided into sections - all requirements must be met simultaneously.

### Items Required for Installation

- Avanti Stove Shell

- Simpson Duravent with Silicone (see page 12 for part #'s)
- Avanti Pedestal (Part # 99200115)
- Gas Hookup Equipment

### Items Packed with the Avanti DV

- Avanti DV (with gold door)
- Log Set (2 Logs, 2 Twigs, Embers)
- Two Gas Inlet Pipes (the longer one is for stoves)
- Owner's Manual

- Propane Conversion Kit
- Strain Relief (for power cord)
- Strain Relief Bracket (for inserts only - may be discarded)

### Items Packed with the Stove Shell

- Top, Left, Right, and Rear Stove Panels
- Control Cover
- Black Grill
- Eight 10-32 Hex Nuts with Attached Lock Washers
- Two 10-24 Pan Head Screws

- Twelve 10-24 Self-Tapping Screws
- Nine U-Nuts
- Two 6" strips of self-adhesive gasket
- Gas Line Plate
- Left & Right Forward Mounting Brackets

### Items Packed with the Pedestal

- Pedestal
- Two 3/8 x 3/4" Bolts

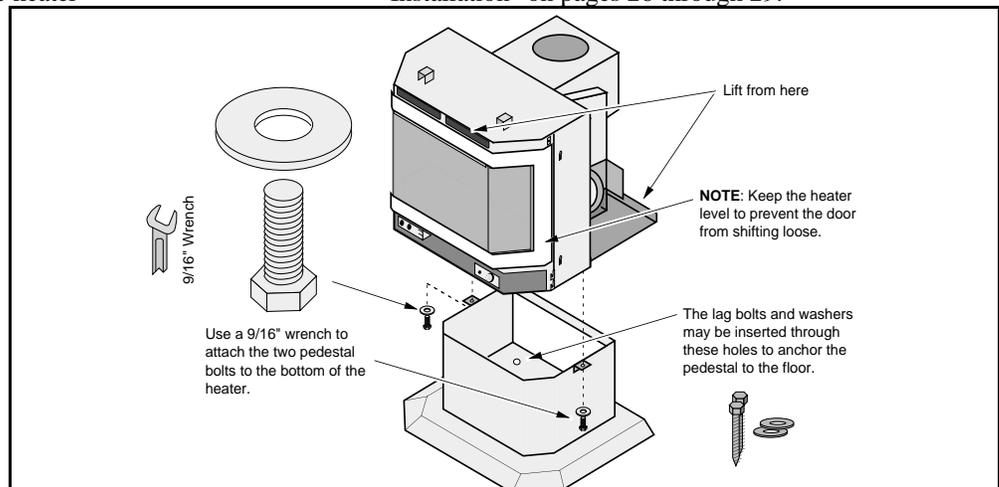
- Two Washers
- Two Lag Bolts

## Order of Installation

- 1 If the heater is to use propane, install the propane conversion kit (see pages 40 - 45)
- 2 Attach the pedestal
- 3 Attach the stove shell to the heater

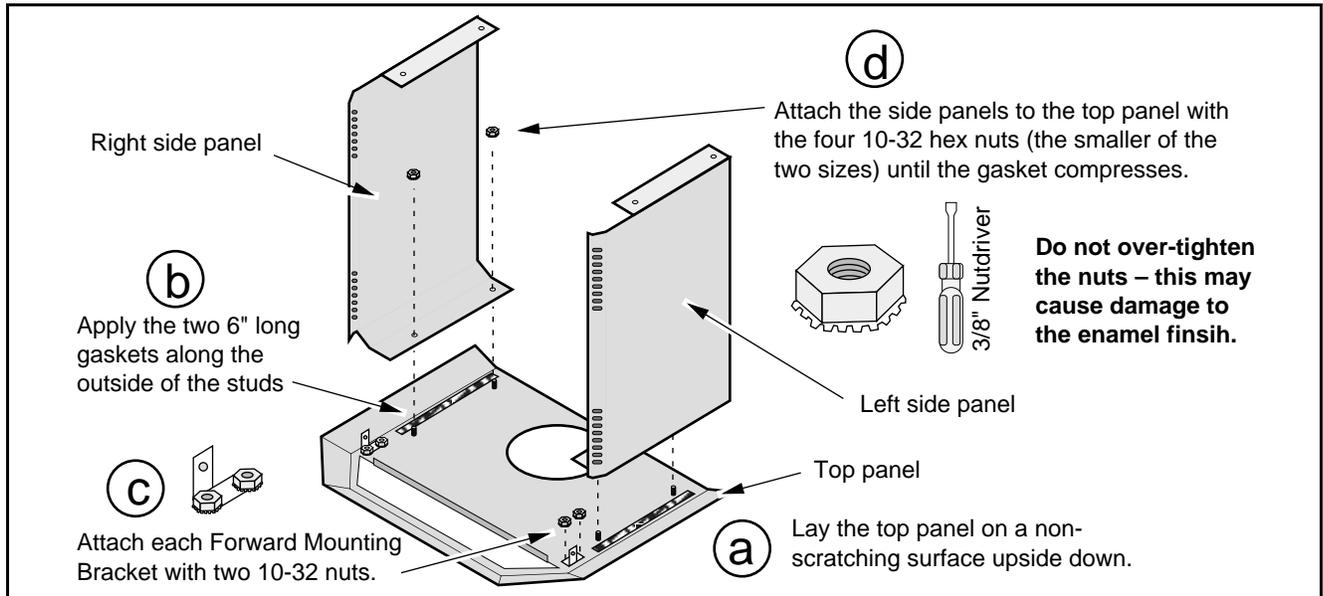
- 4 Install the gas inlet (17-1/4" length of 3/8" pipe)
- 5 Position the heater, use floor protection if needed
- 6 Connect the gas line. Connect the gas vent.
- 7 Follow the instructions under "Finalizing the Installation" on pages 26 through 29.

## Pedestal Attachment

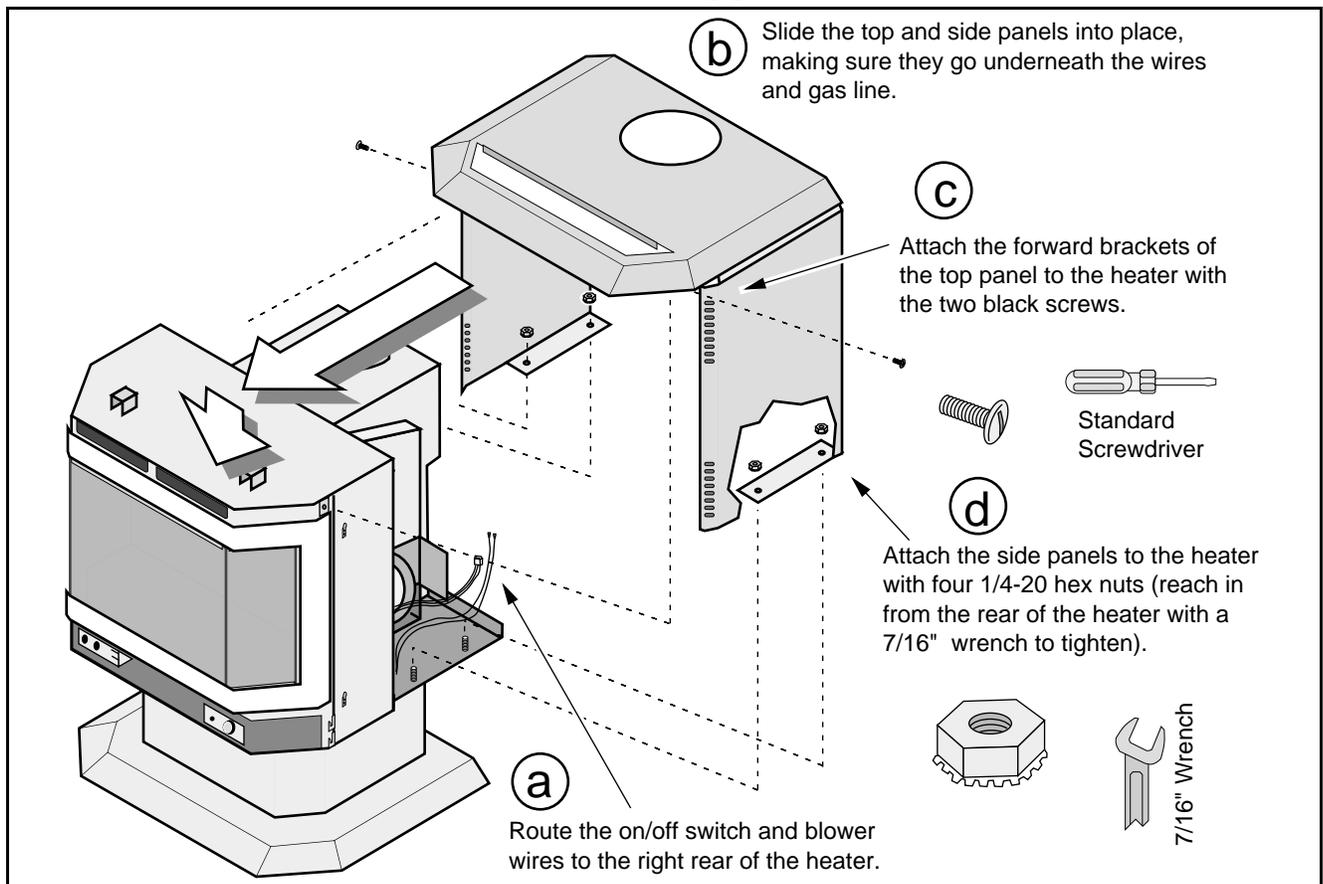


### Stove Shell Assembly

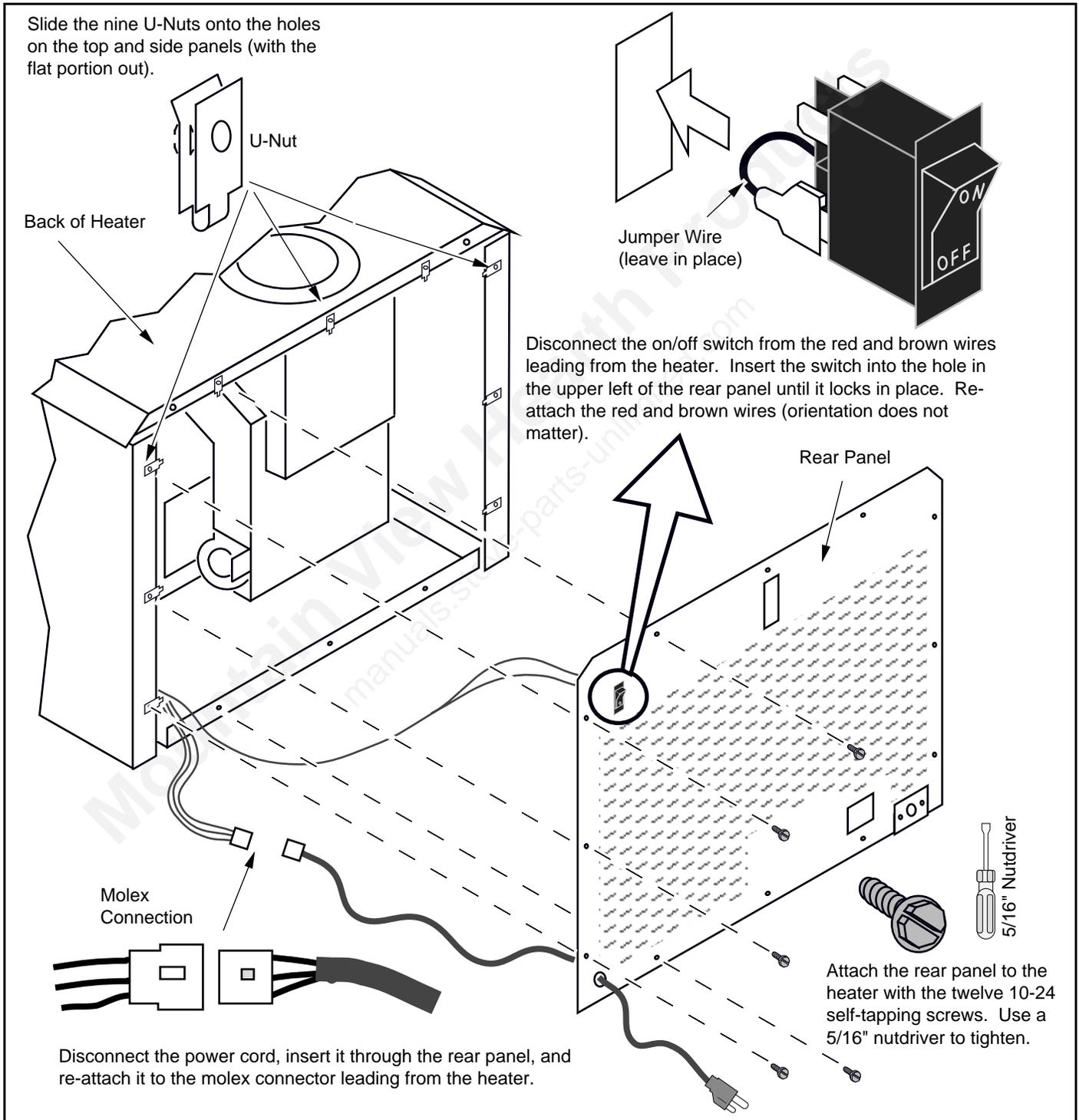
- 1 Follow the directions below to install the side panels to the top panel.



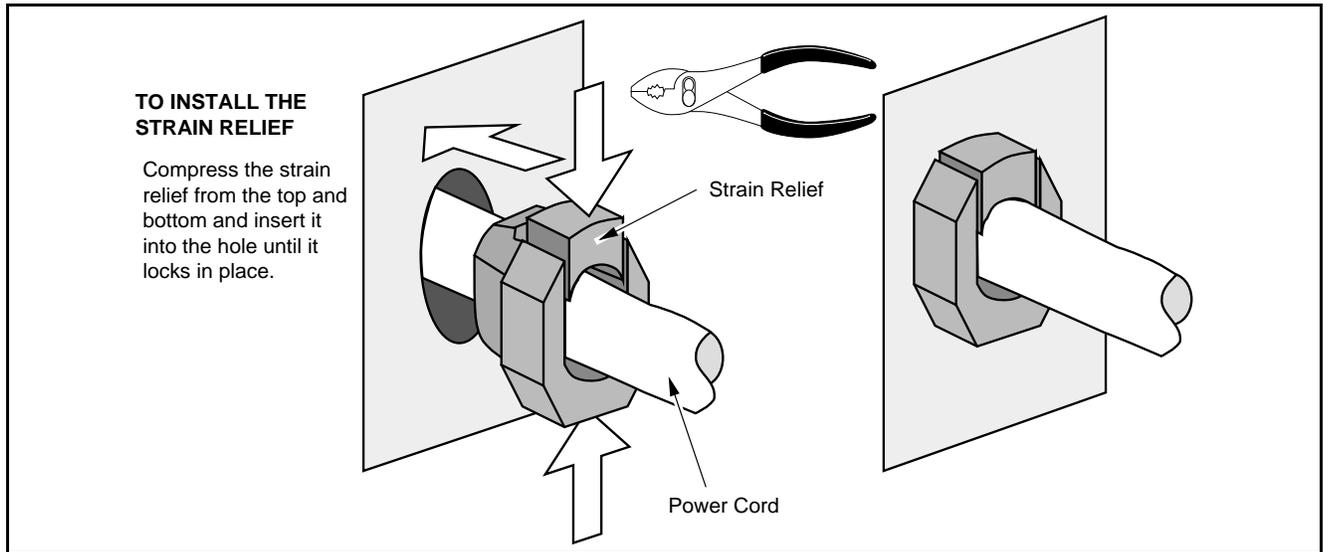
- 2 Follow the instructions below to install the side and top panels.



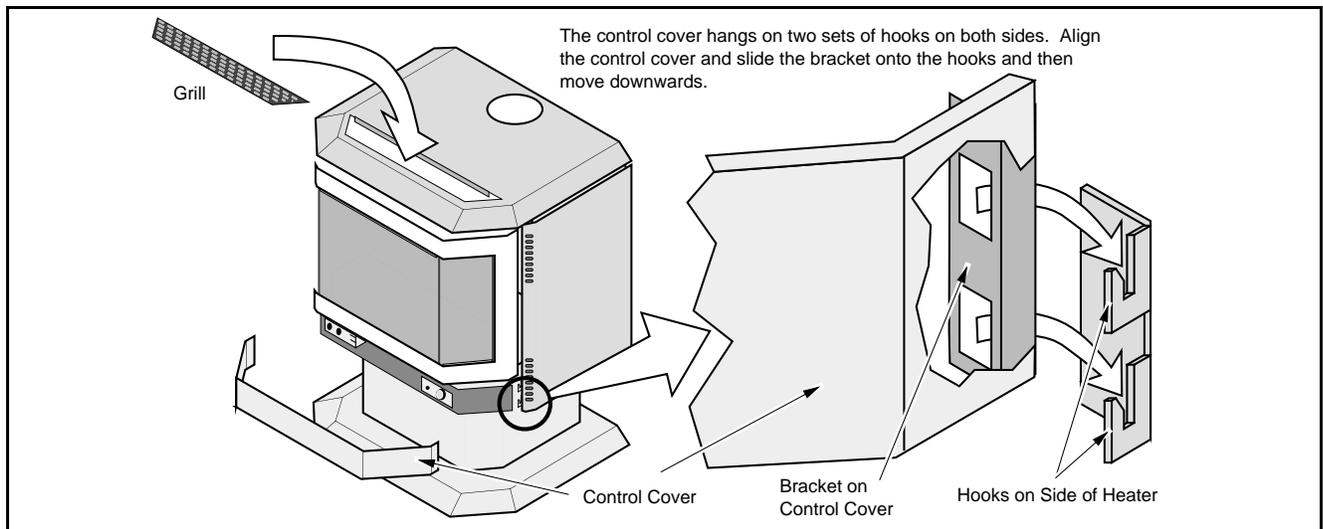
- 3 Slide the nine U-Nuts into place (see the illustration below).
- 4 Install the on/off switch (see the illustration below).
  - ? If installing a thermostat or remote control, do so now (see pages 46 & 47).
- 5 Disconnect the power cord, insert it through the rear panel, and re-attach it to the molex connector leading from the heater (see the illustration below).
- 6 Attach the rear panel to the heater (see the illustration below).



- 6 Pull gently on the power cord to take out any extra slack. Attach the strain relief (it is shipped attached to the power cord - see the illustration below).

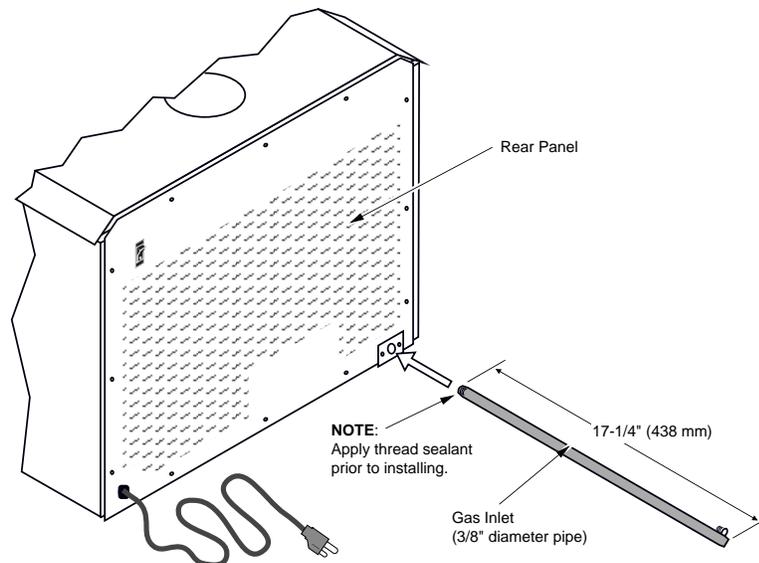


- 7 Attach the control cover by sliding it over the attachment hooks. Place the black grill in place.



**as Inlet Installation**

- Apply thread sealant to one end of the gas inlet and insert it through the rear panel and into the 90° elbow on the gas control valve. Tighten with a pipe wrench.
- ! Leak check all gas line connections.



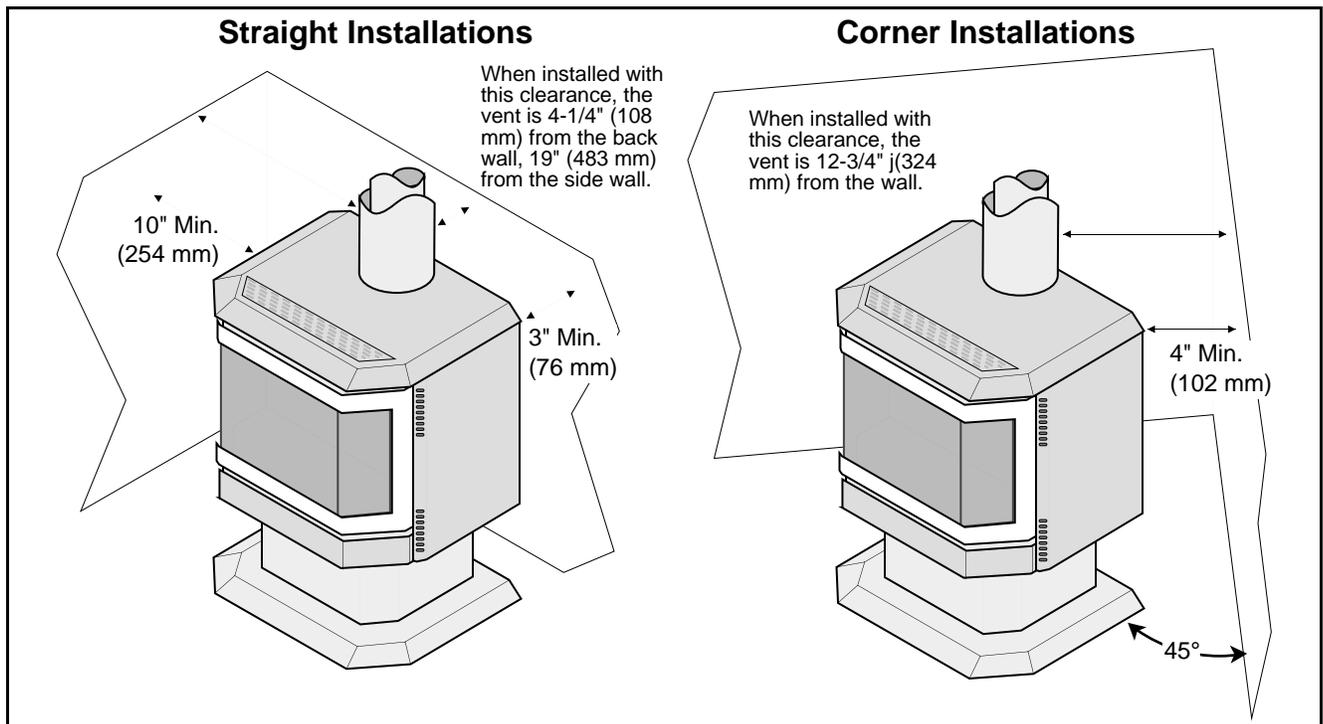
## **Floor Protection Requirements**

- When the stove is installed directly on carpeting, vinyl or other combustible material other than wood flooring, the stove must be installed on a metal or wood protection panel extending the full width and depth of the pedestal (Minimum 24-1/2" (622 mm) wide by 20" (508 mm) deep).

## **Stove Placement Requirements**

- Heater must be installed on a level surface capable of supporting the heater and vent
- Due to the high temperature of the heater, it should be located out of traffic and away from furniture and draperies. Heater must be placed so no combustibles are within, or can swing within 36" (910 mm) of the front of the heater (e.g. drapes, doors)
- ? When placed in a location where the floor to ceiling height is under 7 feet (2130 mm), the installation is considered an alcove and must meet the following requirements:
  - The alcove floor to ceiling height must be at least 58" (1470 mm) tall
  - The alcove must not be more than 48" (1220 mm) deep before the ceiling returns to 7' (2130 mm)
  - The alcove must be at least 44-1/2" (1130 mm) wide
- The stove must not be placed so the vents below or above the door, along the sides of stove, or along the back of the heater can become blocked.

## **Minimum Clearances**



### **Gas Line Install**

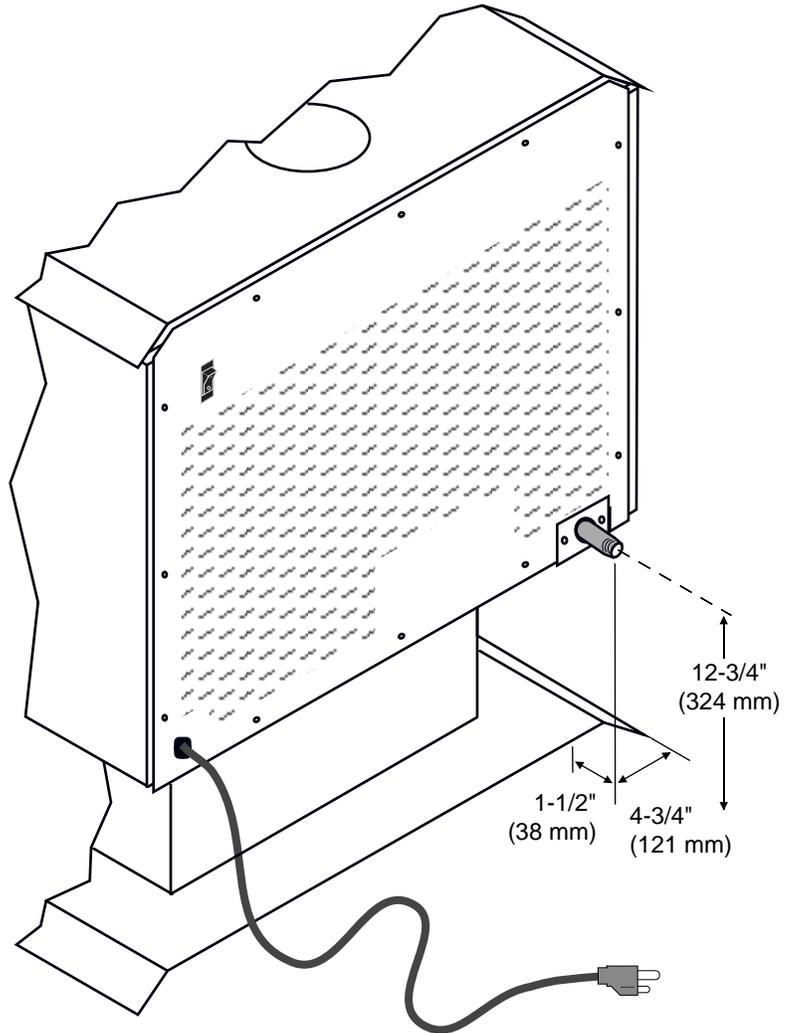
- ! The gas line must be installed in accordance with all local codes, if any; if not, follow ANSI Z223.1 and the requirements listed below.
- ! The heater and gas control valve must be disconnected from the gas supply piping during any pressure testing of that system at test pressures in excess of 1/2 psig (3.45 kPA). For pressures under 1/2 psig (3.45 kPA), isolate the gas supply piping by closing the manual shutoff valve.
- Leak test all gas line joints and the gas control valve prior to and after starting the heater.

### **Fuel**

- This heater is designed for natural gas but can be converted to propane. Check the sticker on the top of the gas control valve to make sure the correct fuel is used.

### **Gas Line Connection**

- The gas inlet accepts a 3/8" F.P.T. Fitting
- The location of the gas inlet is shown to the right
- A manual shutoff valve is required for installation (it must be located within 3' (910 mm) of the heater)



### **Gas Inlet Pressure**

- With the heater off, the inlet pressure must meet the requirements listed in the table below
- ? If the pressure is not sufficient, make sure the piping used is large enough and the total gas load for the residence does not exceed the amount supplied.
- ? The supply regulator (the regulator that attaches directly to the residence inlet or to the propane tank) should supply gas at the suggested input pressure listed below. Contact the local gas supplier if the regulator is at an improper pressure.

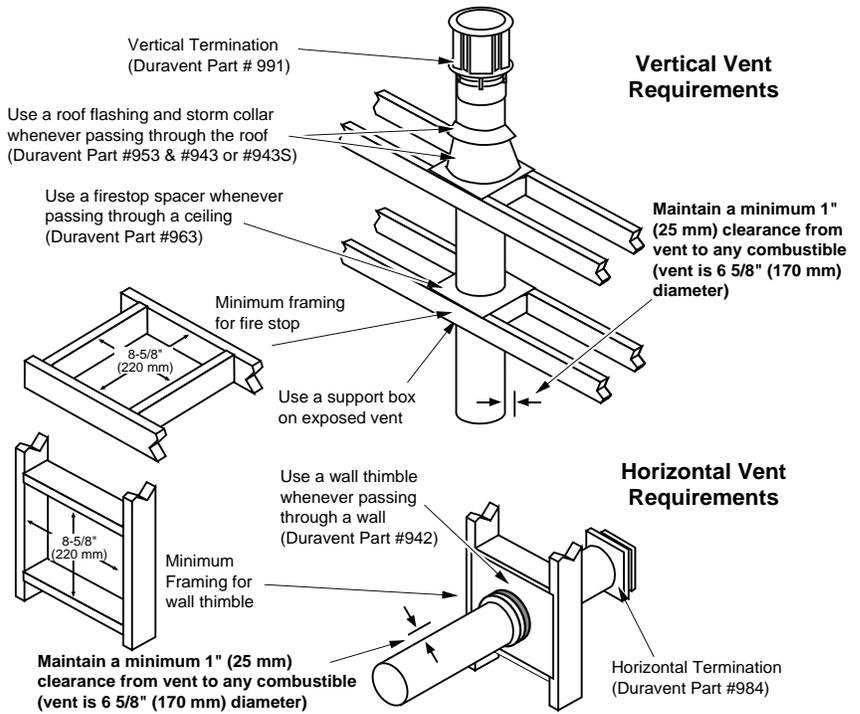
	<b>Standard Input Pressure</b>
<b>Natural Gas</b>	7" W.C. (1.74 kPA)
<b>Propane</b>	11" W.C. (2.73 kPA)

**Vent Requirements**

- ! Always maintain the required 1" clearance (air space) to combustible materials to prevent a fire hazard. Do not fill air spaces with insulation.
- ! The gas appliance and vent system must be vented directly to the outside of the building, and never be attached to a chimney serving a separate solid fuel or gas-burning appliance. Each direct vent gas appliance must use it's own separate vent system.

! If the stove is installed at an altitude over 3,000 feet (1,000 M) the flame quality will need to be carefully evaluated. See Addendum #1, "Altitude Considerations", on page 38.

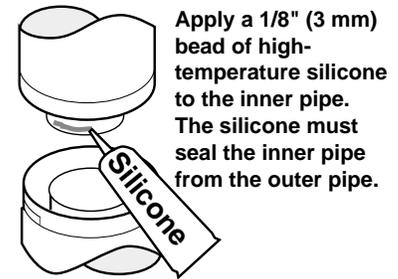
• When the vent passes through a wall, a wall thimble is required. When the vent passes through a ceiling, a support box or firestop is required. When the vent passes through the roof, a roof flashing and storm collar are required. Follow the instructions provided with the vent (from Duravent®) for installing these items.



• Use Model GS Direct Vent manufactured by Simpson Dura-Vent **only** (or the Chimney Conversion Kit - see Addendum #2). Follow the installation instructions included with the vent. For the nearest Simpson Dura-Vent supplier, call (800) 835-4429. Part numbers and descriptions are listed below.

Straight Lengths	Vent Terminations	Elbows
908B 6" Pipe Length, Black (interior)	981 Snorkel Termination (36" rise) (for basement or raised termination installations)	990 90° Elbow
907B 9" Pipe Length, Black (interior)	982 Snorkel Termination (14" rise) (for basement or raised termination installations)	990B 90° Elbow, Black (interior)
906 12" Pipe Length, Galvanized	984 Horizontal Square Termination	945 45° Elbow
906B 12" Pipe Length, Black (interior)	950 Vinyl Siding Standoff	945B 45° Elbow, Black (interior)
904 24" Pipe Length, Galvanized	991 Vertical Termination	
904B 24" Pipe Length, Black (interior)		<b>Penetration, Support Parts</b>
903 36" Pipe Length, Galvanized		942 Wall Thimble
903B 36" Pipe Length, Black (interior)		941 Cathedral Ceiling Support Box
902 48" Pipe Length, Galvanized		943 Flashing, 0/12 to 6/12 Roof Pitch
902B 48" Pipe Length, Black (interior)		943S Flashing, 7/12 to 12/12 Roof Pitch
911B 11" to 14 5/8" Pipe, Adjustable, Black (interior)		953 Storm Collar
		963 Ceiling Firestop
		988 Wall Strap

• Apply high-temperature silicone to the male section of inner pipe (on the upper section of vent) so the silicone seals the inner pipe from the outer pipe when the sections are assembled. Slide the sections together and turn 1/4 turn until the sections lock in place. Install three metal screws through each joint to lock the outer section in place (see the instructions included with the vent for further details).



- Horizontal sections require a 1/4" rise every 12" of travel
- + Exterior Vent Diameter = 6-5/8", Inner Vent Diameter = 4"
- Horizontal sections require non-combustible support every three feet (e.g.: plumbing tape)
- Seal the inner vent to the appliance.

## Approved Vent Configurations

### Restrictor Position

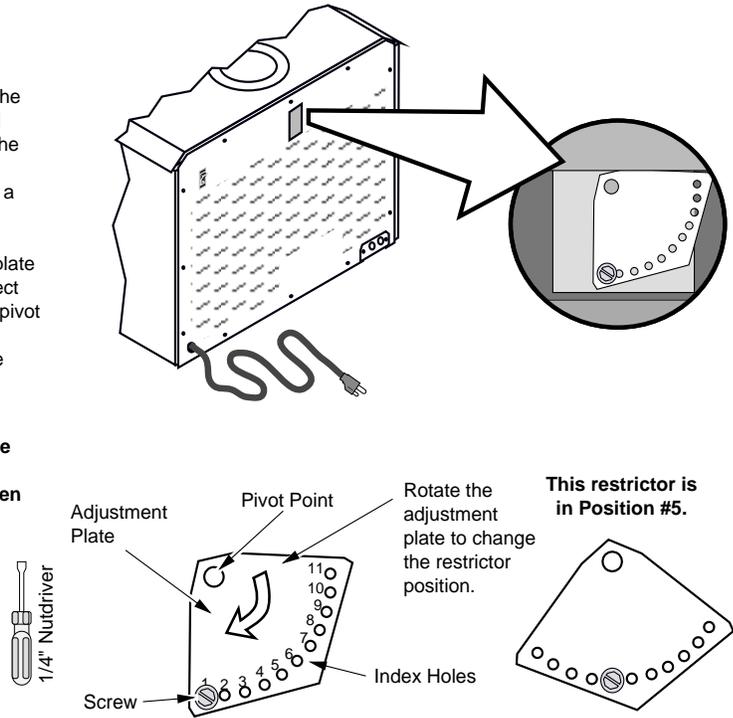
- A vent restrictor is built into the appliance to adjust the flow rate of exhaust gases. This ensures proper flames for the wide variety of vent configurations. The restrictor consists of a butterfly valve below the starter section of pipe and an adjustment plate with index holes used to hold the valve in a fixed position. Depending upon the vent configuration, you may be required to adjust the restrictor position. The charts for approved vent configurations describe which position the vent restrictor must be in.

#### To Adjust the Restrictor:

- Determine the correct restrictor position (see the charts under "Approved Vent Configurations" - the stock position is #1).
- Remove the screw with a 1/4" nutdriver (or screwdriver).
- Rotate the adjustment plate clockwise until the correct index hole is below the pivot point.
- Insert the screw into the correct index hole and tighten.

**The eleven holes on the restrictor plate correspond to the eleven restrictor positions.**

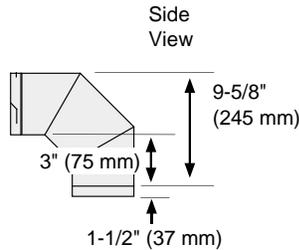
**NOTE:**  
Position #1 is the fully open position



### Elbows

- 2 Elbow maximum (two 45° or two 90°, not one 45° and one 90°)

Elbows add 3" (75 mm) to the length of the vent system.

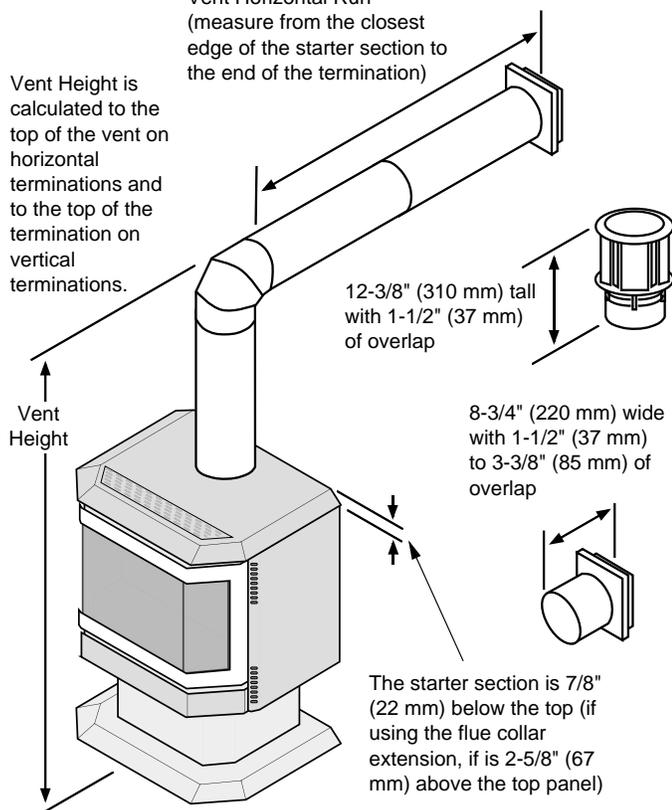
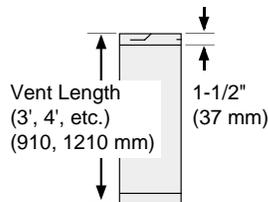


Vent Height is calculated to the top of the vent on horizontal terminations and to the top of the termination on vertical terminations.

Vent Horizontal Run (measure from the closest edge of the starter section to the end of the termination)

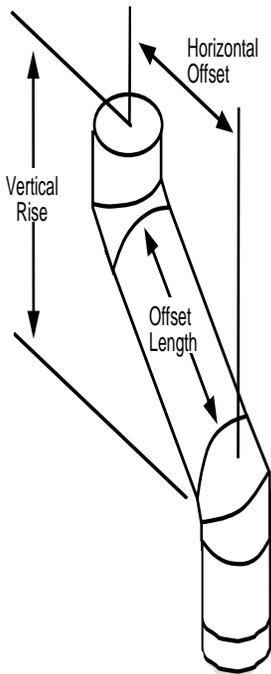
### Measuring Vent Lengths

Vent sections overlap each other by 1-1/2" (37 mm)

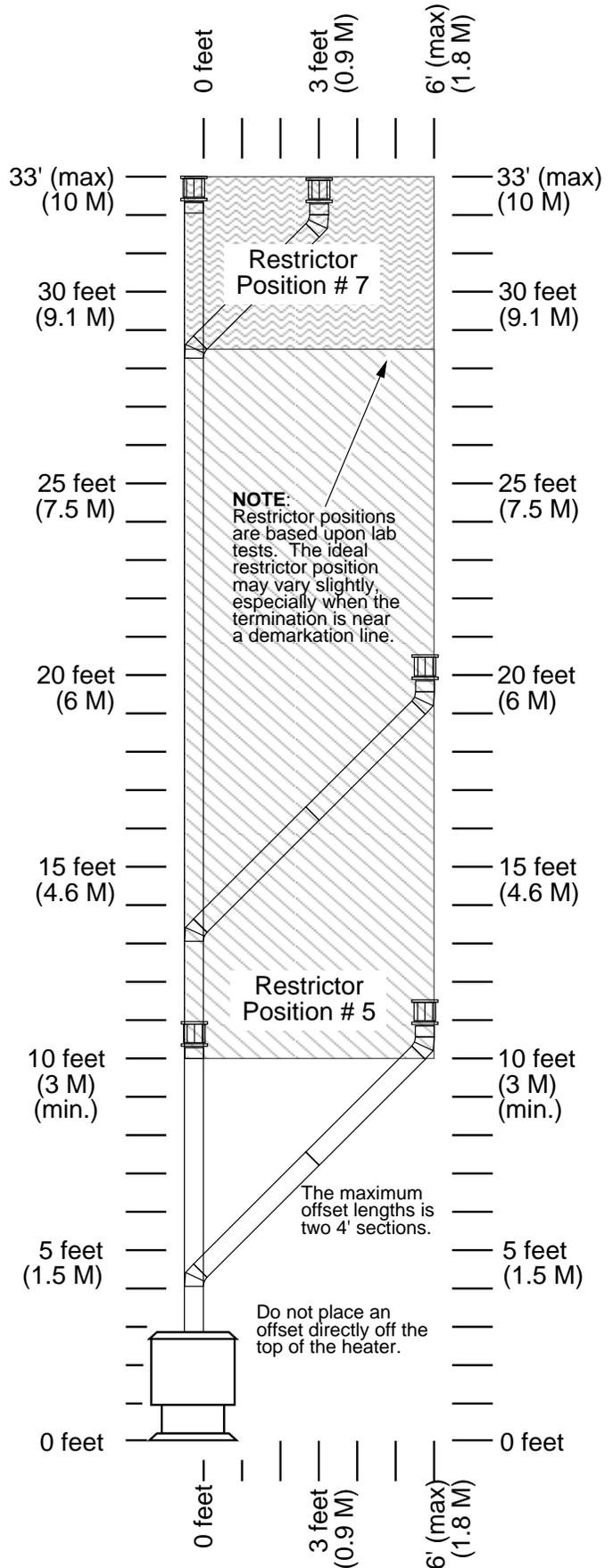


### Approved Venting Configurations for Vertical Terminations with (or without) Two 45° Elbows

- 10' (3 M) Minimum System Height (with or without offsets)
- 33' (10 M) Maximum System Height
- 6' (1.8 M) Maximum Offset
- The termination must fall within the shaded area shown in the chart. Use the indicated restrictor position.
- If using offsets, use the table below to calculate the vertical rise and horizontal offset

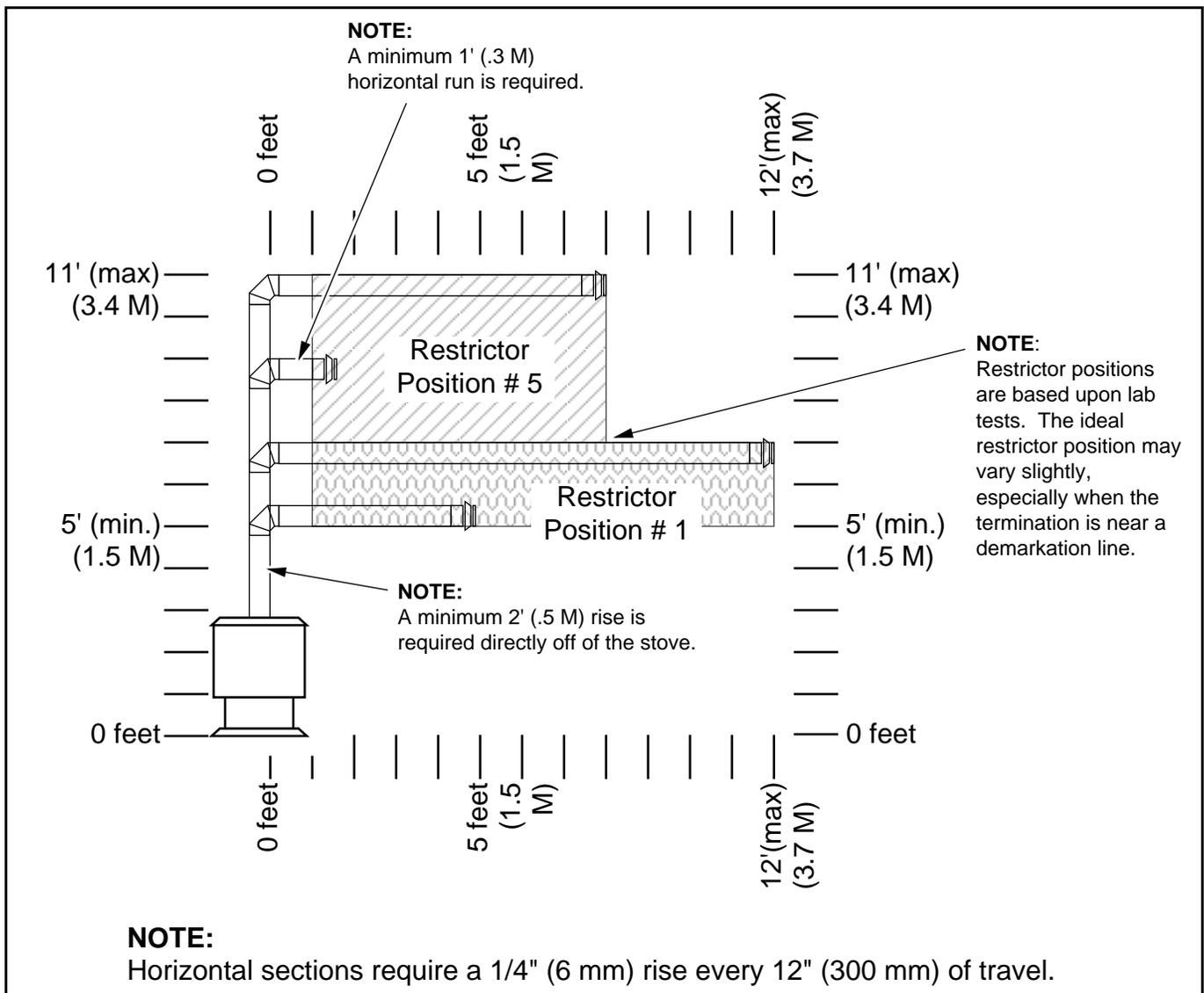


Offset Length	Hor. Offset	Vert. Rise
None	5" (125 mm)	1' (300 mm)
1' Section	1' (300 mm)	1' 7" (480 mm)
2' Section	1' 9" (530 mm)	2' 4" (710 mm)
3' Section	2' 5" (740 mm)	3' (915 mm)
4' Section	3' 2" (965 mm)	3' 8" (1.12 M)
4' + 1' Section	3' 9" (1.14 M)	4' 4" (1.32 M)
4' + 2' Section	4' 6" (1.37 M)	5' (1.52 M)
4' + 3' Section	5' 2" (1.57 M)	5' 9" (1.75 M)



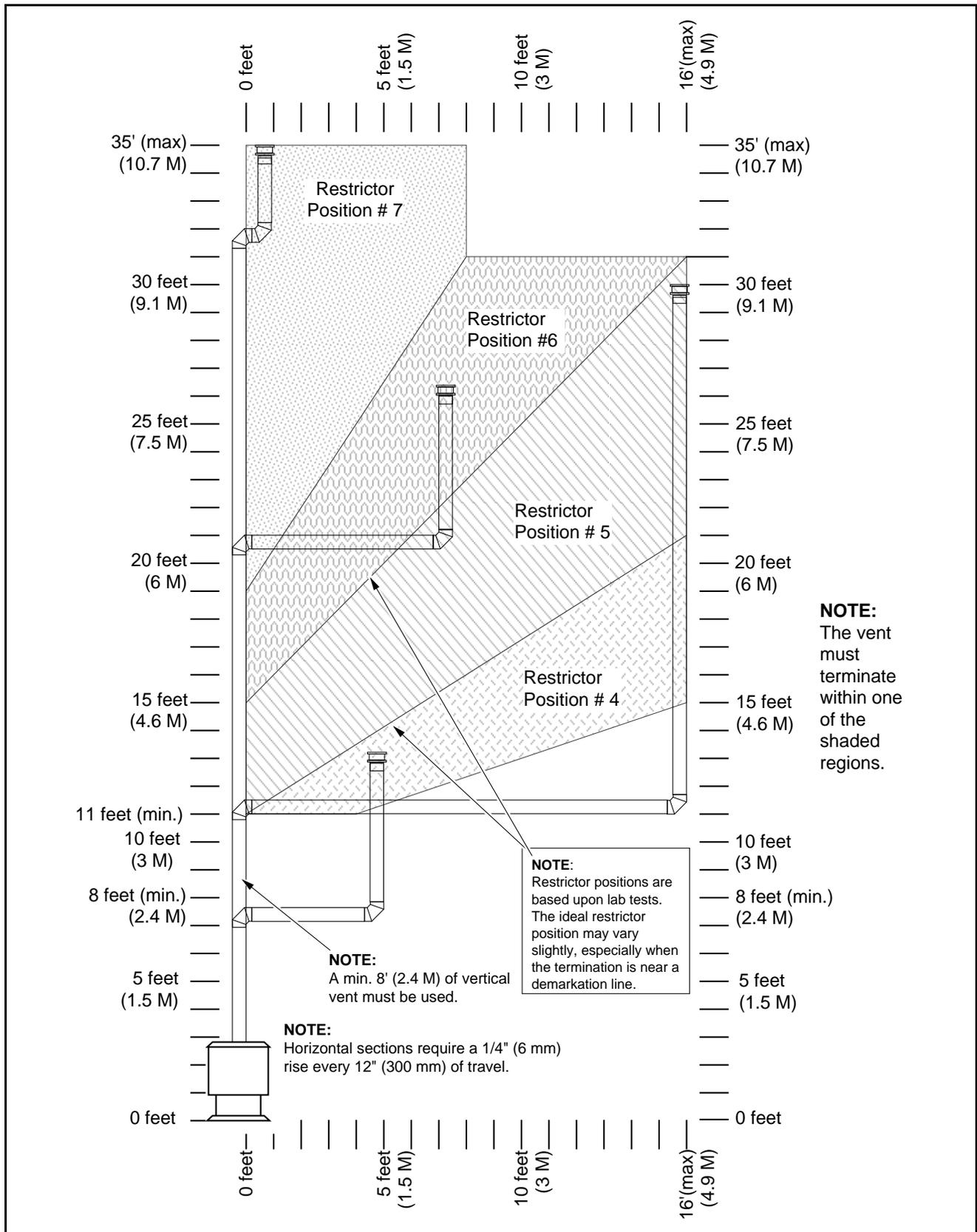
**Approved Venting Configurations with a Horizontal Termination**

- A Minimum of 2' (.5 M) rise is required directly off of the stove
- A minimum of 1' (.3 M) run is required
- If using a **Snorkel Termination** (14" [.4 M] or 36" [.9 M]) add the snorkel height to the vertical height.
- The termination must fall within the shaded area shown in the chart. Use the indicated restrictor position.



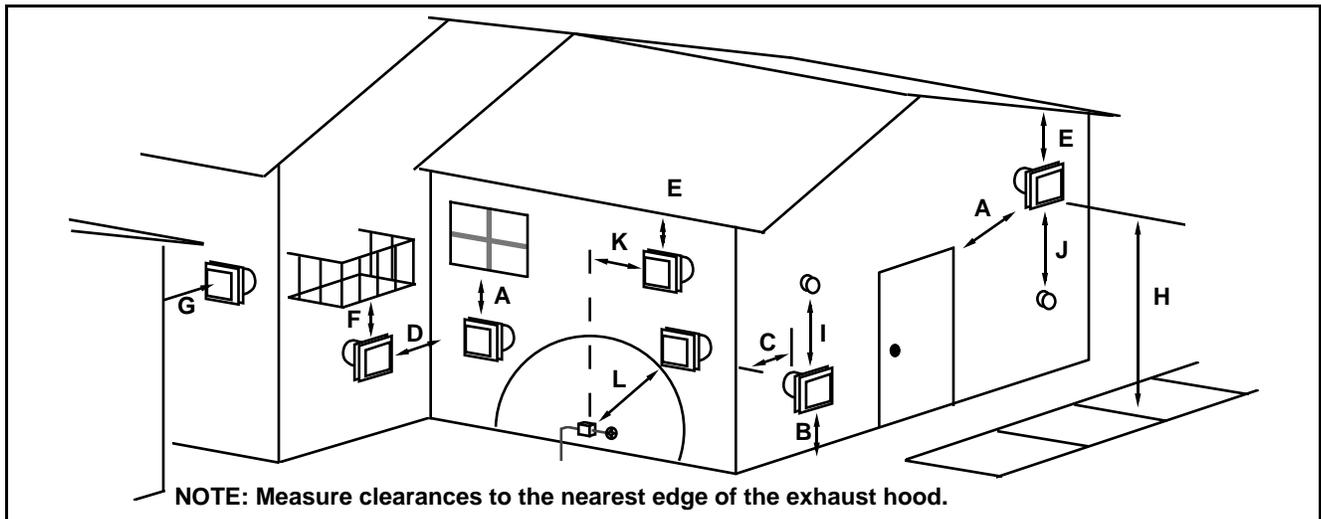
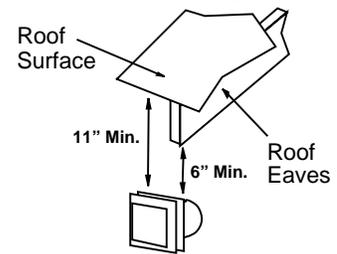
**Approved Venting Configurations for Vertical Terminations with Two 90° Elbows**

- The termination must fall within the shaded area shown in the chart. Use the indicated restrictor position.



**Horizontal Vent Termination Requirements (see the illustration below)**

- A Minimum 9" (225 mm) clearance from any door or window
- B Minimum 12" (300 mm) above any grade, veranda, porch, deck or balcony
- C Minimum 12" (300 mm) from outside corner walls
- D Minimum 12" (300 mm) from inside corner walls
- E Minimum 11" (275 mm) clearance below unventilated soffits or roof surfaces  
Minimum 18" (450 mm) clearance below ventilated soffits  
Minimum 6" (150 mm) clearance from roof eaves  
**NOTE:** Vinyl surfaces require 24" (600 mm)
- F Minimum 18" (450 mm) clearance below a veranda, porch, deck or balcony (must have two open sides)
- G Minimum 48" (1220 mm) clearance from any adjacent building
- H Minimum 84" (2130 mm) clearance above any grade when adjacent to public walkways or driveways  
**NOTE:** may not be used over a walkway or driveway shared by an adjacent building
- I Minimum 48" (1220 mm) clearance from any mechanical air supply inlet, 72" (1820 mm) for Canada
- J Minimum 36" (910 mm) clearance above and 48" (1220 mm) below and to the sides of non-mechanical air supply inlet
- K Minimum 36" (910 mm) from the area above the meter/regulator (vent outlet)
- L Minimum 36" (910 mm) from the meter/regulator (vent outlet)



- Use the vinyl siding standoff (#950) when installing on an exterior with vinyl siding.
- Vent termination must not be located where it will become plugged by snow or other material
- These clearances meet UMC-1994 and the CNA/CGA-B149 code standards

**Vertical Vent Termination Requirements (see the illustration below)**

Roof Pitch	Minimum Height*
Flat to 6/12	1' (.3 M)*
6/12 to 8/12	1.5' (.45 M)*
8/12 to 9/12	2' (.6 M)
9/12 to 10/12	2.5' (.75 M)
10/12 to 11/12	3.25' (1 M)
11/12 to 12/12	4' (1.2 M)
12/12 to 14/12	5' (1.5 M)
14/12 to 16/12	6' (1.8 M)
16/12 to 18/12	7' (2.15 M)
18/12 to 20/12	7.5' (2.25 M)
20/12 or greater	8' (2.45 M)

\* In Canada the vent termination must be a minimum 2' (.6 M) tall and 2' (.6 M) above any portion of the roof within 10' (3 M) of the vent.

**Electrical Connection**

- Plug the power cord into a grounded 120 Volt outlet (do not remove the grounding plug).

## Installation Preparation

- ! Failure to follow all of the requirements may result in property damage, bodily injury, or even death.
- ! This appliance must be installed in accordance with all local codes, if any; if not, follow ANSI Z223.1 and NFPA 54(88).
- ! In Manufactured or Mobile Homes must confirm with: In USA, Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280; In Canada, CSA Z240.4 and Gas-Equipped Recreational Vehicles and Mobile Housing. This appliance may be installed in Manufactured Housing only after the home is site located.
- ! This appliance is designed for natural gas or propane (LP). Check the sticker on top of the gas control valve.
- ! All exhaust gases must be vented outside the structure of the living-area. Combustion air is drawn from outside the living-area structure.
- ! Notify your insurance company before hooking up this appliance.
- ! The requirements below are divided into sections - all requirements must be met simultaneously.

## Items Required for Installation

- Avanti Insert Shell and Surround Panels
- Direct Vent Insert Adapter (see page 22)
- Gas Hookup Equipment

## Items Packed with the Avanti DV

- Avanti DV (with gold door)
- Log Set (2 Logs, 2 Twigs, Embers)
- Two Gas Inlet Pipes (the shorter one is for inserts)
- Owner's Manual
- Propane Conversion Kit
- Flue Collar Extension (not used for insert installations)
- Strain Relief (for power cord)
- Strain Relief Bracket

## Items Packed with the Insert Panel Kit

- Top, Left, and Right Surround Panels
- Two Leveling Bolts
- Trim Kit (3 pieces trim, 2 "L" brackets, set screws, double-back tape)

## Items Packed with the Insert Shell Kit

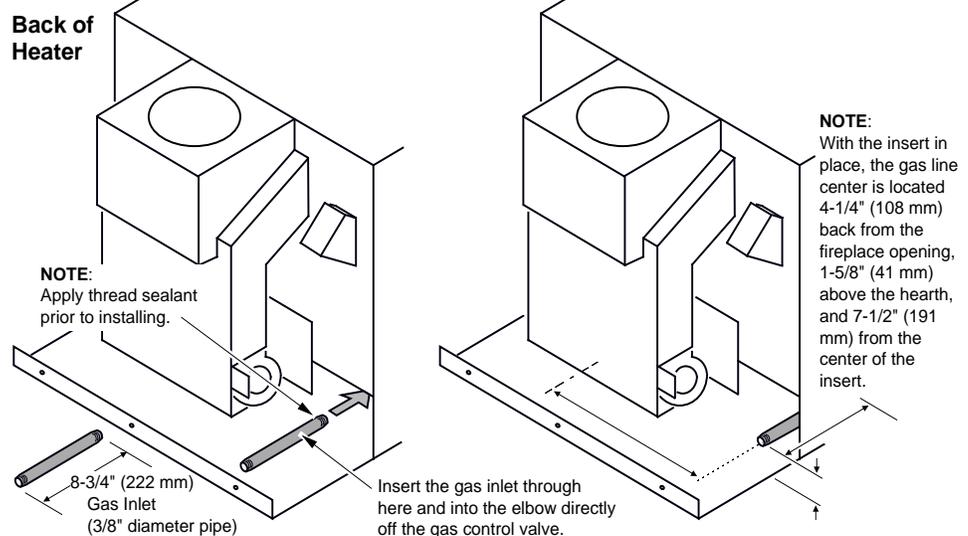
- Upper Top
- Control Cover
- Hardware Pack (2 Upper Top Brackets, 4 6-32 Nuts, 2 10-24 Phillips Screws)

## Order of Installation

- 1 If the heater is to use propane, install the propane conversion kit (see pages 40 - 45)
- 2 Install the gas inlet (8-3/4" (222 mm) length of 3/8" pipe)
- 3 Install the power cord
- 4 Position the heater (see "Heater Placement")
- 5 Connect the gas line. Connect the gas vent.
- 6 Install the logs and test the heater (see the instructions under "Finalizing the Installation")
- 7 Install the insert panel kit.
- 8 Install the insert shell kit.
- 9 Follow the instructions under "Finalizing the Installation" on pages 26 through 29.

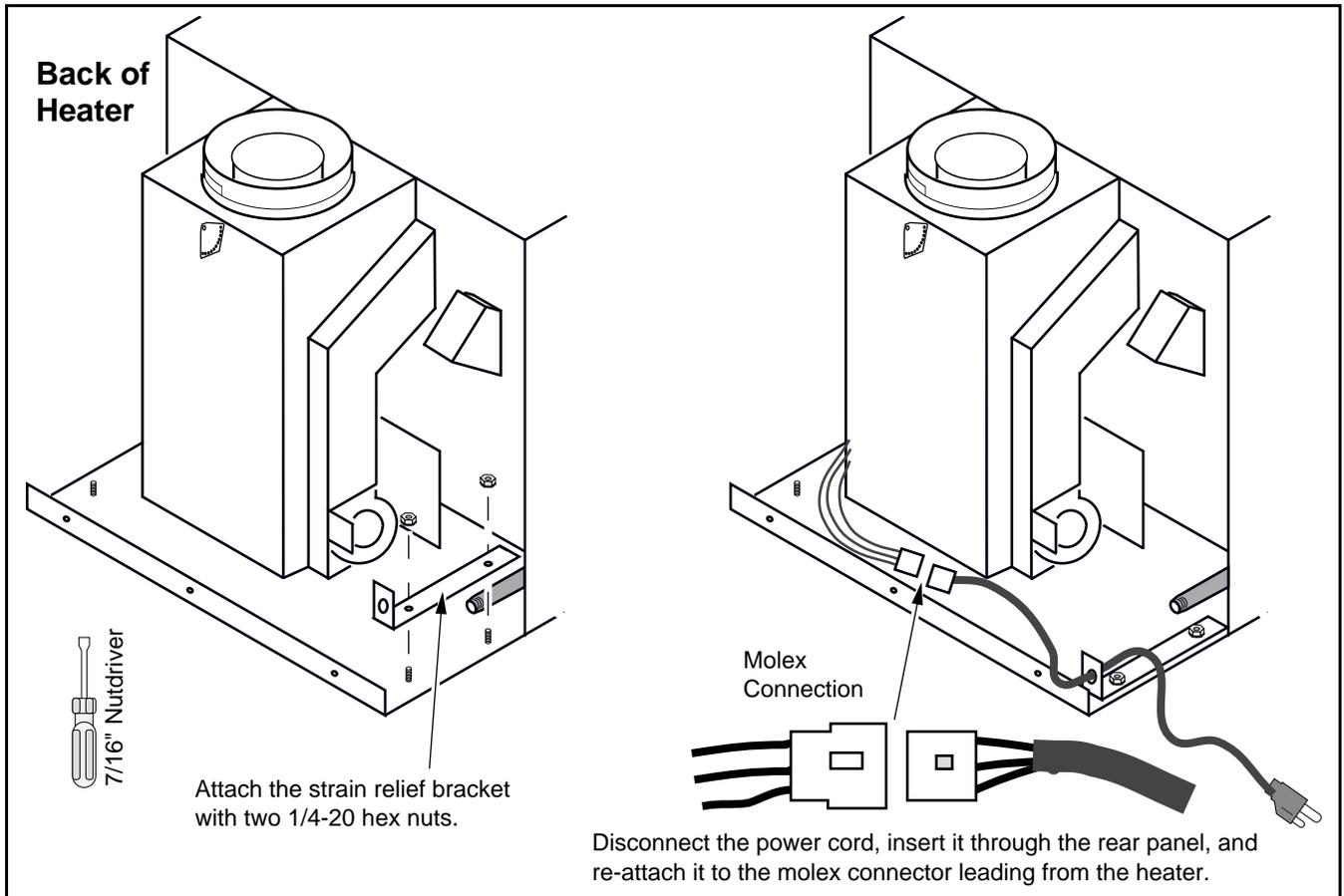
## Installing the Gas Inlet

- Locate the 8-3/4" (222 mm) gas inlet pipe included with the heater (the longer one may be discarded). Apply thread sealant to one end and insert it through the rear of the insert into the 90° elbow on the gas control valve (see the illustration below). Tighten with a pipe wrench.

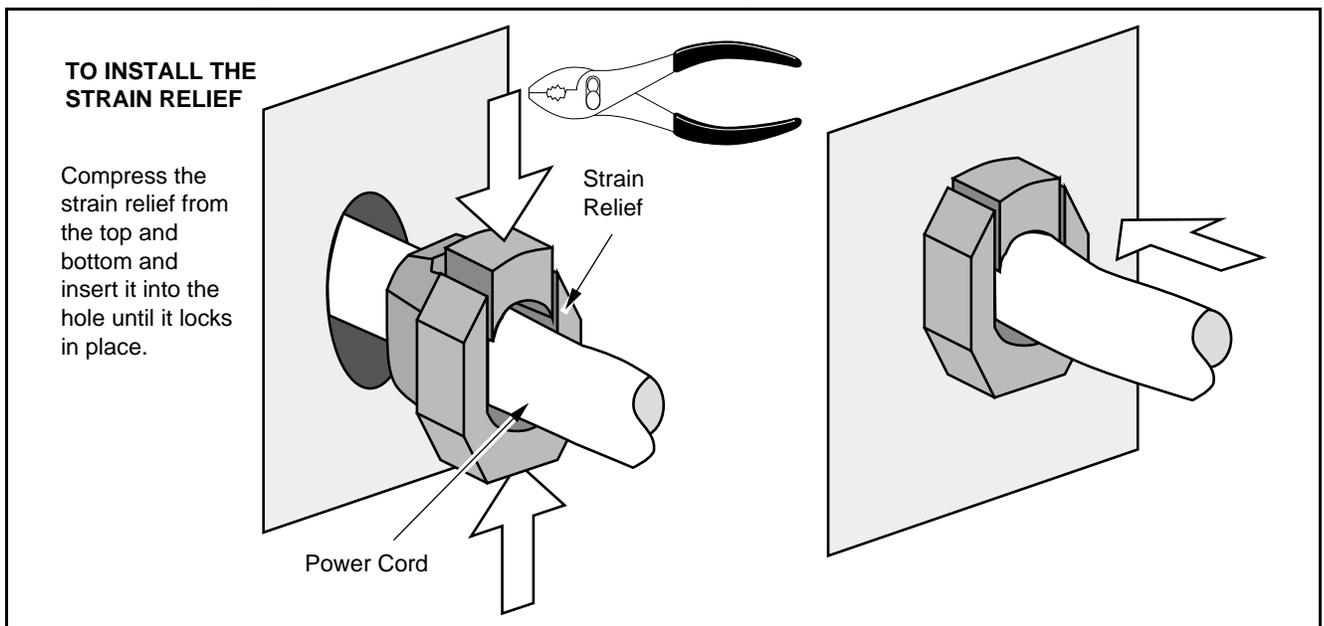


## Installing the Power Cord

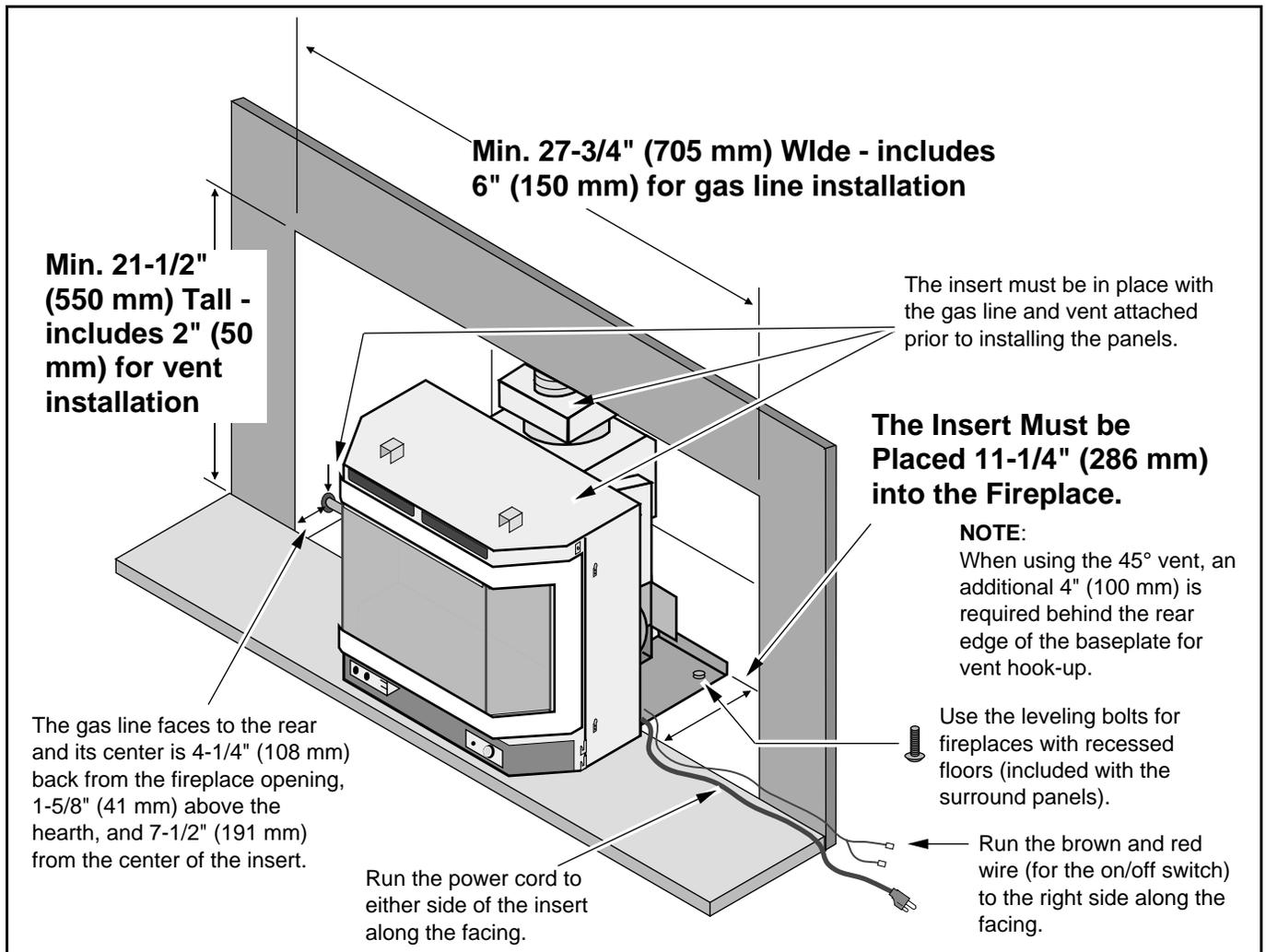
- 1 The power cord may be located on either side. Place the strain relief bracket (included in the owner's pack) over the two studs and tighten with two 1/4-20 hex nuts (see illustration below).



- 2 Pull gently on the power cord to take out any extra slack. Attach the strain relief (it is shipped attached to the power cord - see the illustration below).



## Insert Placement



- Insert must be placed so no combustibles are within, or can swing within 36" (910 mm) of the front of the heater (e.g. drapes, doors)
- The insert may be placed inside a masonry fireplace or listed zero-clearance (metal) fireplace
- The insert must be installed in a level, undamaged fireplace (damage must be repaired prior to installation).
- The insert must maintain 10" (254 mm) clearance to sidewalls (measure from the upper top)
- Non-combustible facing (e.g. brick, tile) must extend 8" (203 mm) minimum from the side and 12" (305 mm) to the top of the insert (measure from the upper top)
- Combustible mantles must be a minimum 17-1/2" (445 mm) above the top of the insert (measure from the upper top)

## Floor Protection

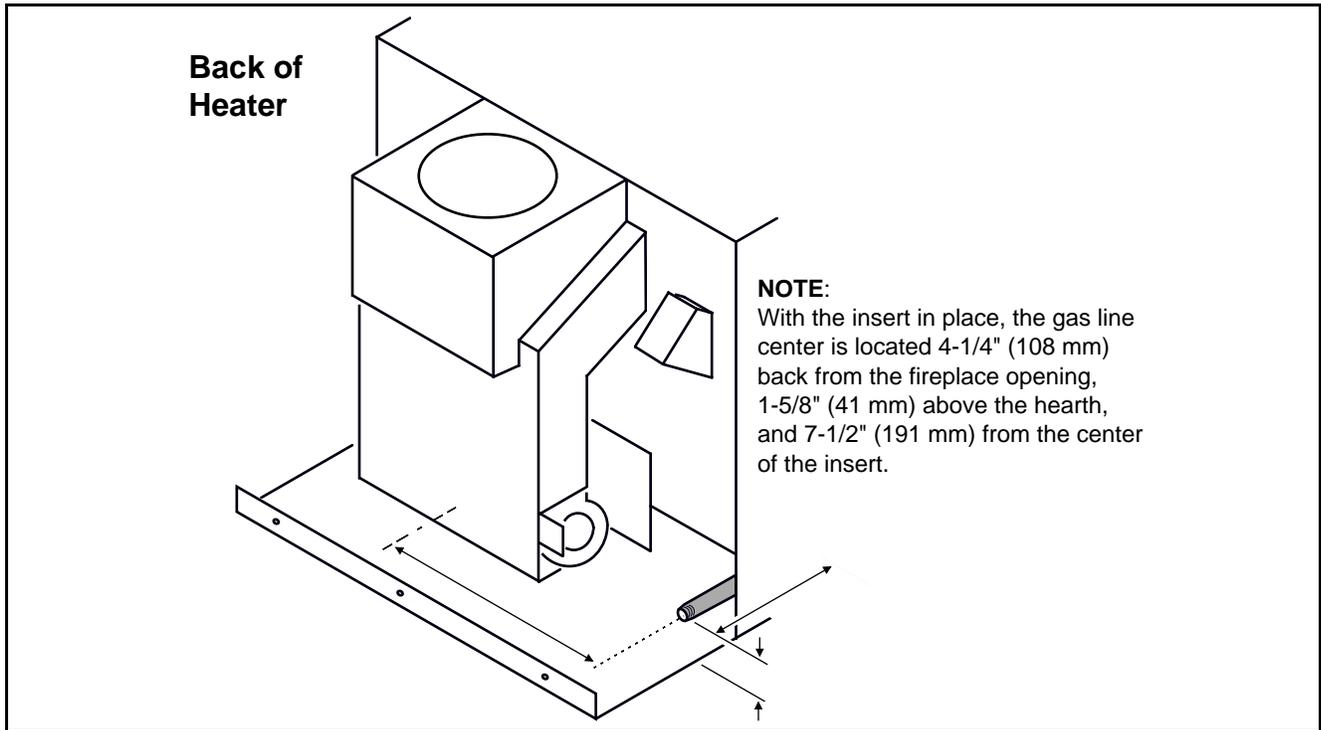
- The heater must be installed on a non-combustible hearth and may not extend over combustible flooring

**Gas Line Install**

- ! The gas line must be installed in accordance with all local codes, if any; if not, follow ANSI Z223.1 and the requirements listed below.
- ! The heater and gas control valve must be disconnected from the gas supply piping during any pressure testing of that system at test pressures in excess of 1/2 psig (3.45 kPA). For pressures under 1/2 psig (3.45 kPA), isolate the gas supply piping by closing the manual shutoff valve.
- Leak test all gas line joints and the gas control valve prior to and after starting the heater.

**Gas Line Connection**

- The gas inlet accepts a 3/8" F.P.T. Fitting
- The location of the gas inlet is shown below
- A manual shutoff valve is required on the gas line within 3' (910 mm) of the heater



**Fuel**

- This heater is designed for natural gas but can be converted to propane. Check the sticker on the top of the gas control valve to make sure the correct fuel is used.

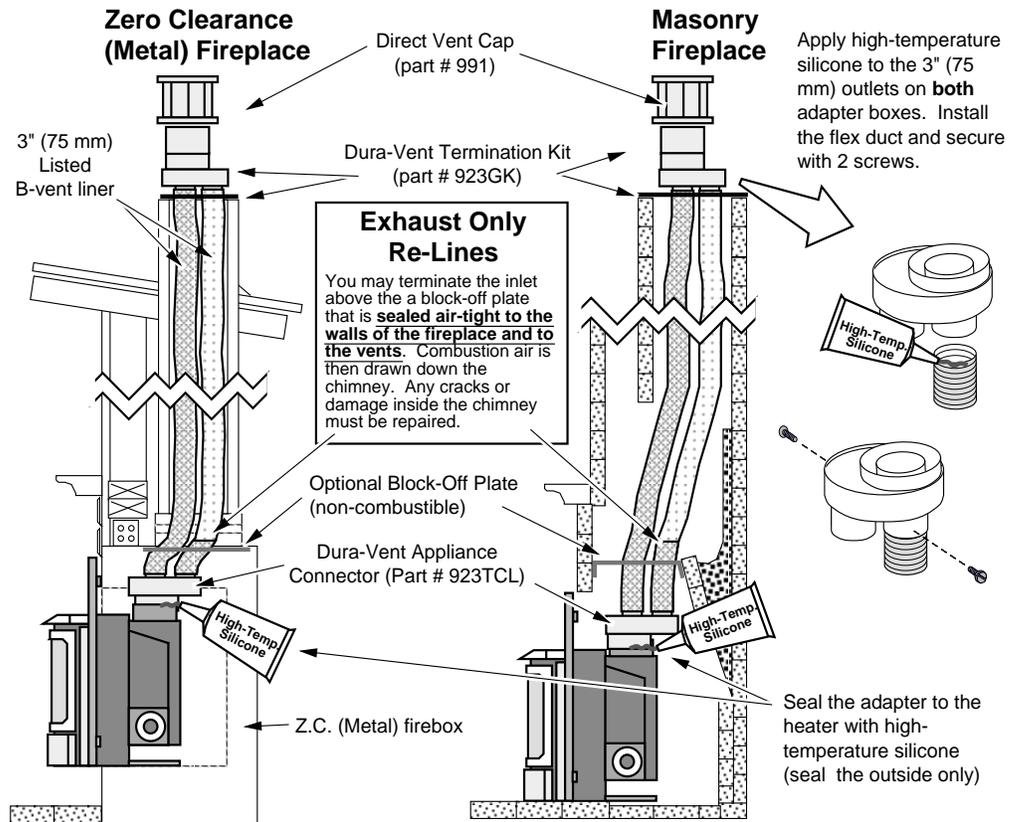
**Gas Inlet Pressure**

- With the heater off, the inlet pressure must meet the requirements listed in the table below
- ? If the pressure is not sufficient, make sure the piping used is large enough and the total gas load for the residence does not exceed the amount supplied.
- ? The supply regulator (the regulator that attaches directly to the residence inlet or to the propane tank) should supply gas at the suggested input pressure listed below. Contact the local gas supplier if the regulator is at an improper pressure.

	<b>Standard Input Pressure</b>
<b>Natural Gas</b>	7" W.C. (1.74 kPA)
<b>Propane</b>	11" W.C. (2.73 kPA)

## Vent Requirements

- ! The gas appliance and vent system must be vented directly to the outside of the building, and never be attached to a chimney serving a separate solid fuel or gas-burning appliance. Each direct vent gas appliance must use it's own separate vent system.
- ! Make sure the exhaust pipe (the inner pipe) on the heater connects to the exhaust portion of the cap (the inner pipe). The illustrations below show how the flex liners should be attached.
- ! If the heater is installed at an altitude over 3,000 (1,000 M) feet the flame quality will need to be carefully evaluated. See Addendum #1, "Altitude Considerations", on page 49.
- ? When using flexible gas vent, do not crimp or rupture the liner when bending it into chimney offsets
- When installed, the vent must meet all of the vent manufacturer's requirements
- + There are two options for vent installation:

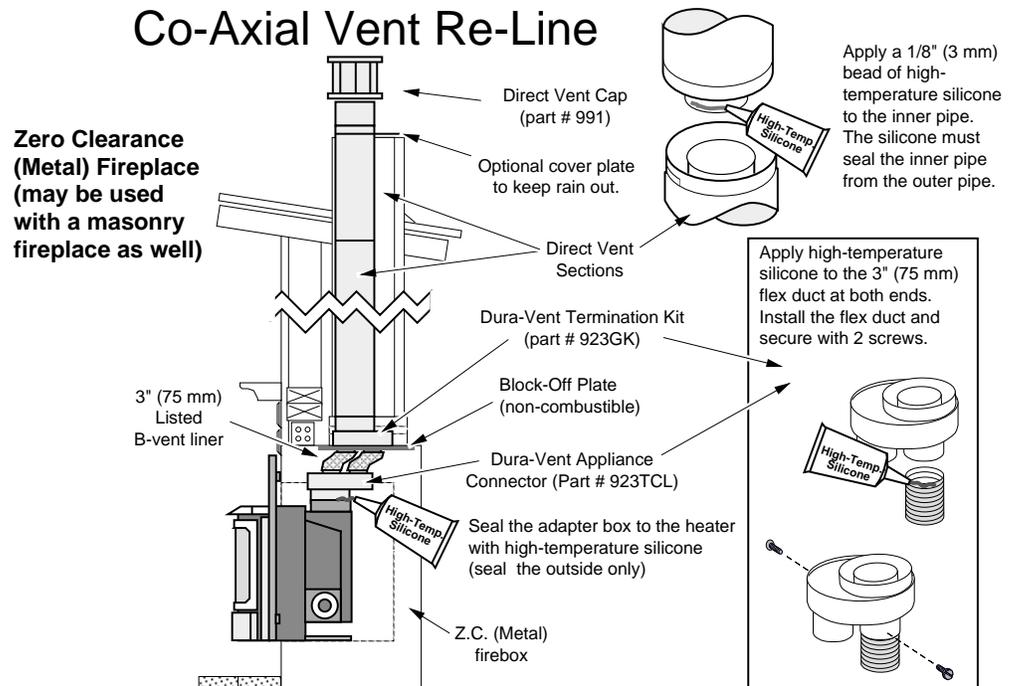


### Flex Re-Line (Full Re-Line or Exhaust Only Re-Line):

- Appliance Connector (Part # 923TCL)
- 3" (75 mm) Listed B-vent liner
- Termination Kit (part # 923GK).
- Vertical Termination (part # 991)
- Block-Off Plate

### Co-Axial & Flex:

- Appliance Connector (Part # 923TCL)
- 3" (75 mm) Listed B-vent liner
- Block-Off Plate
- Termination Kit (part # 923GK).
- Dura-Vent Co-Axial Vent and Cap (see pg 8 for part #'s).



## Approved Vent Configurations

### Restrictor Position

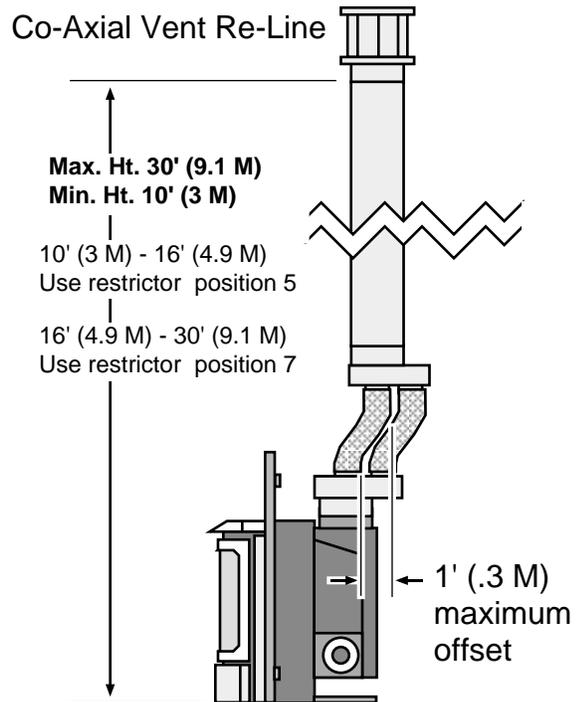
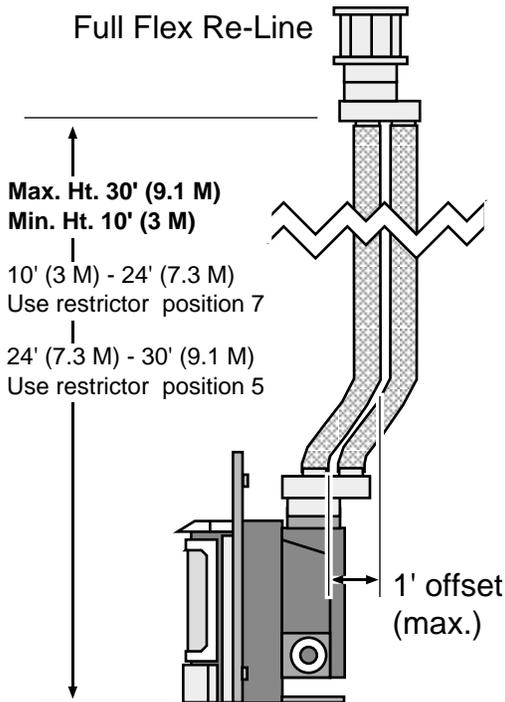
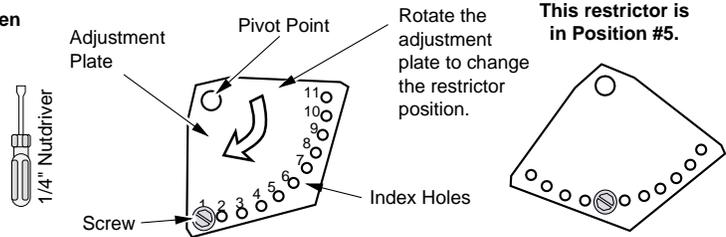
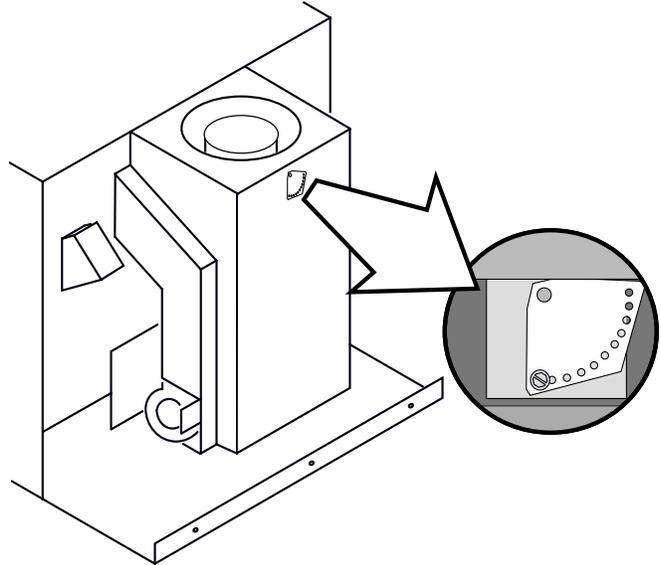
- A vent restrictor is built into the appliance to adjust the flow rate of exhaust gases. This ensures proper flames for the wide variety of vent configurations. The restrictor consists of a butterfly valve below the starter section of pipe and an adjustment plate with index holes used to hold the valve in a fixed position. Depending upon the vent configuration, you may be required to adjust the restrictor position. Use the illustrations below to determine the correct restrictor position

**To Adjust the Restrictor:**

- Determine the correct restrictor position (see the charts under "Approved Vent Configurations" - the stock position is #1).
- Remove the screw with a 1/4" nutdriver (or screwdriver).
- Rotate the adjustment plate clockwise until the correct index hole is below the pivot point.
- Insert the screw into the correct index hole and tighten.

The eleven holes on the restrictor plate correspond to the eleven restrictor positions.

**NOTE:**  
Position #1 is the fully open position



### Electrical Connection

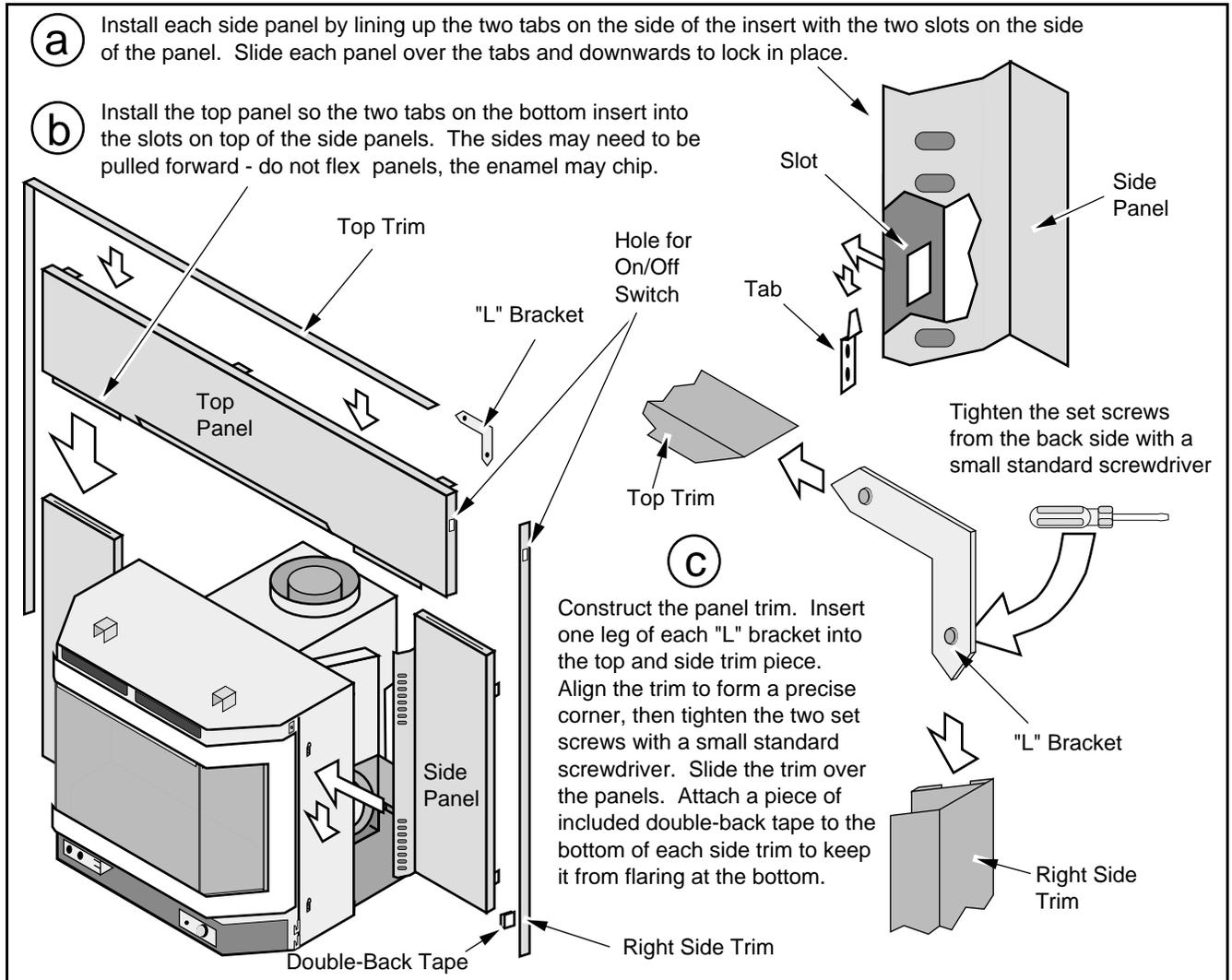
- Plug the power cord into a grounded 120 Volt outlet (do not remove the grounding plug).

### Surround Panel Installation

+ The surround panels come in the variety of sizes and colors listed below

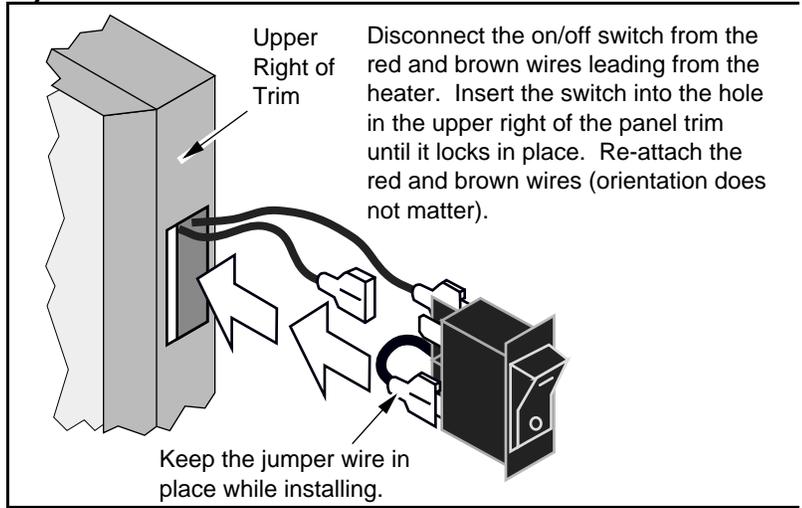
COLOR	PANEL SIZE	WIDTH	HEIGHT	PART #
Black (Paint)	8" x 10"	40-3/8" (1026 mm)	28-7/8" (733 mm)	99300410
Black (Paint)	10" x 13"	44-3/8" (1127 mm)	31-7/8" (810 mm)	99300420
Almond (Enamel)	8" x 10"	40-3/8" (1026 mm)	28-7/8" (733 mm)	99300411
Almond (Enamel)	10" x 13"	44-3/8" (1127 mm)	31-7/8" (810 mm)	99300421
Green (Enamel)	8" x 10"	40-3/8" (1026 mm)	28-7/8" (733 mm)	99300412
Green (Enamel)	10" x 13"	44-3/8" (1127 mm)	31-7/8" (810 mm)	99300422

- 1 The insert must be in place with the gas line and vent attached prior to installing the panels. The rear edge of the insert must be 11-1/4" (286 mm) behind the facing of the fireplace for the panels to fit correctly.
- 2 Run the power cord to either side of the insert along the facing.
- 3 Locate the two red wires leading to the on/off switch (they can be found on the right side of the insert near the rear). Disconnect the on/off switch from the wires and run the wires to the right side of the insert. Keep the green jumper wire attached to the on/off switch.
- 4 Follow the instructions below for installing the panels and trim.



**Surround Panel Installation (continued)**

- 5 Thread the red wires for the on/off switch through the hole in the upper right of the panels and trim (thread the wires from the inside).
- ? If installing a thermostat or remote control, install it at this point (see the owner's manual or the instructions included with the kit).
- 6 Attach the two red wires to the top posts of the on/off switch. Press the switch into the hole in the panel and trim until it locks in place.

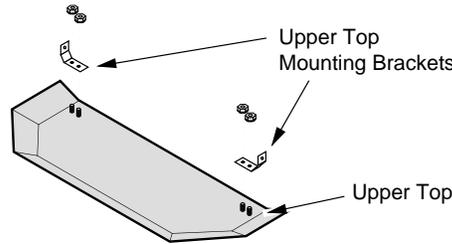


**Insert Shell Installation**

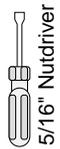
+ The insert shell comes in the following colors

COLOR	PART #
Black (Paint)	99200310
Almond (Enamel)	99200311
Green (Enamel)	99200312

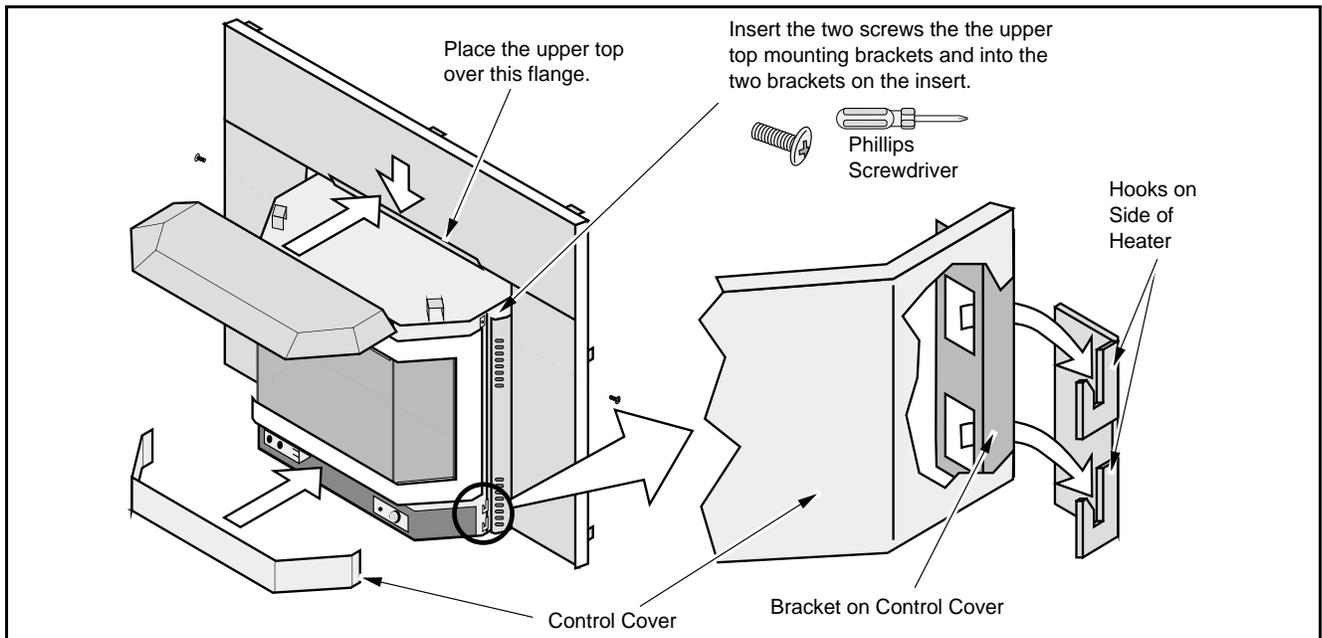
- 1 Place the upper top upside down against a non-scratching surface. Attach the two upper top mounting brackets to the upper top with the four included nuts (use a 3/8" nutdriver).



**WARNING:** Do not over-tighten the nuts, this may cause the enamel to chip or crack.

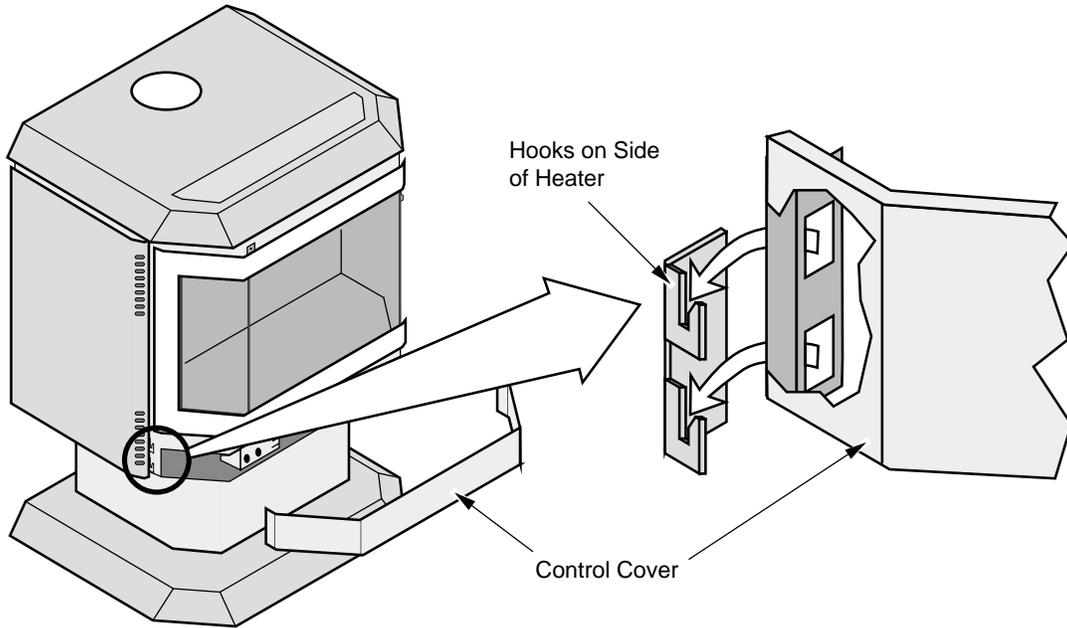


- 2 Place the upper top on the insert so the flange on the back of the upper top goes over the flange on the top panel. Push the upper top towards the rear until it forms an even gap with the top panel. Attach the upper top to the insert with the two screws (use a phillips screwdriver). Install the control cover.

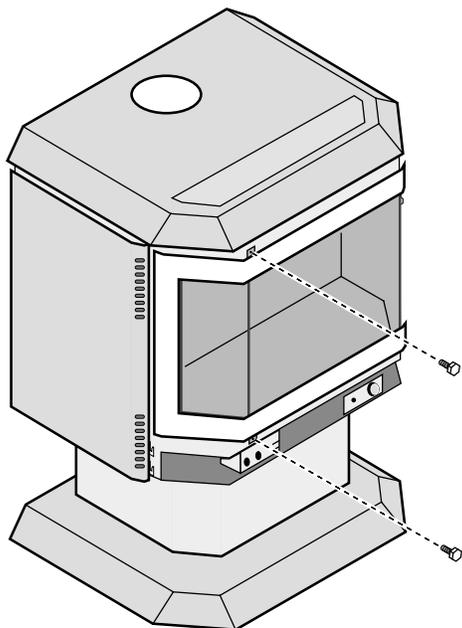


- ! Turn the gas control valve to "OFF" prior to conducting any service.
- 1 Follow the directions below to open the door.

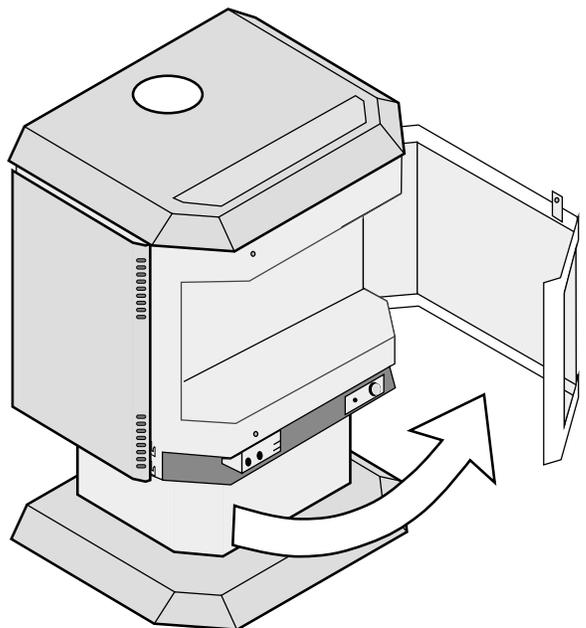
**Lift the control cover off the heater**



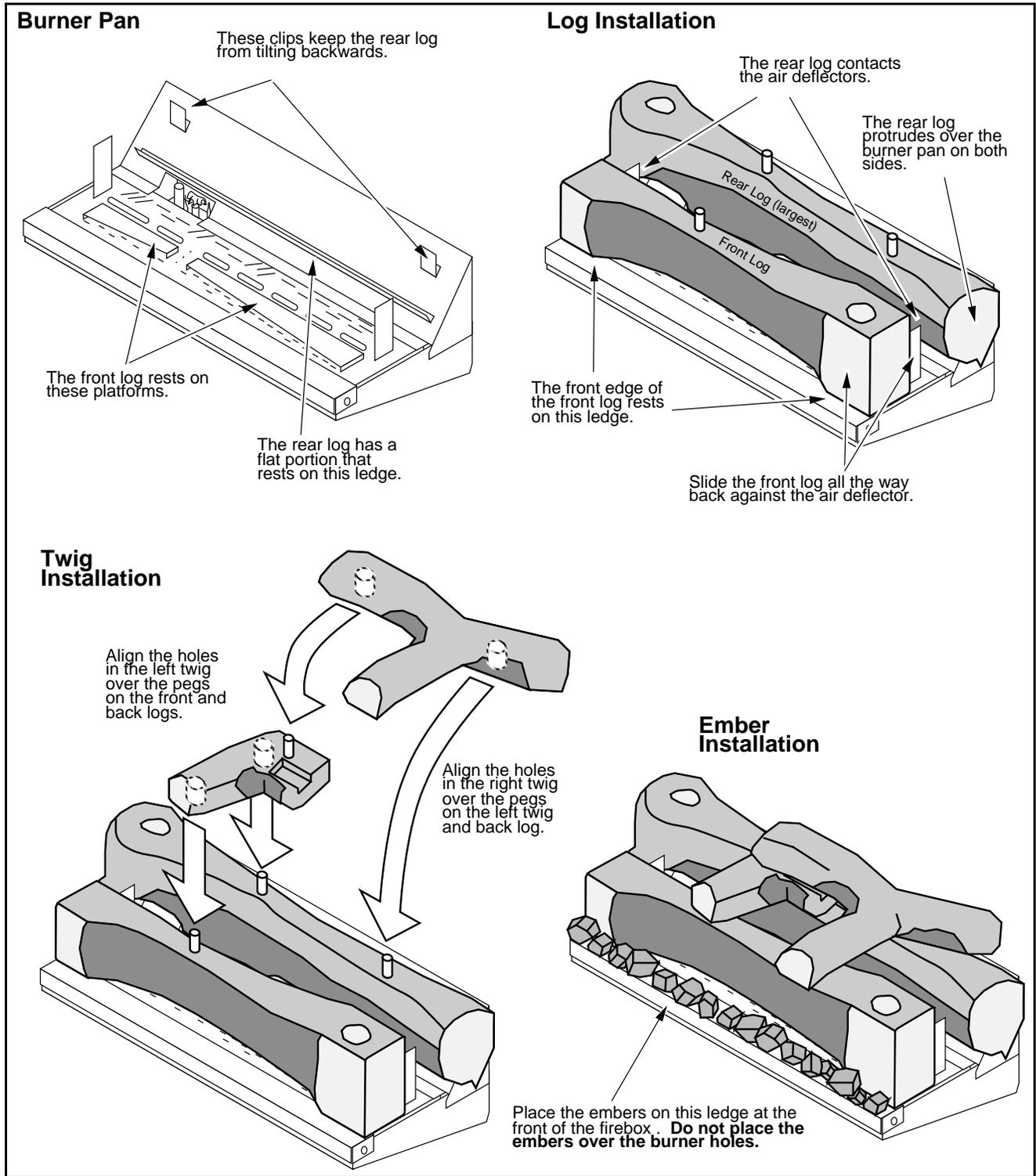
**Remove the two screws holding the door in place.**



**Swing the door open.**

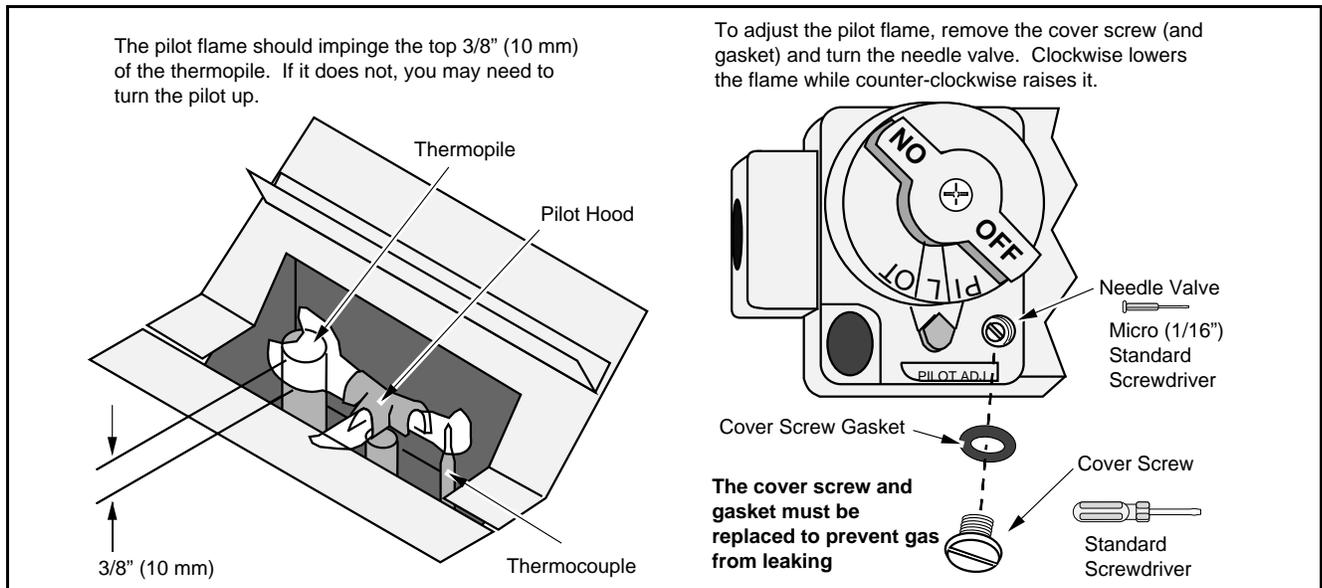


**2** Install the logs, twigs, and embers.



**!** We recommend you purge the gas line at this time (with the glass removed). This allows gas to be detected once it enters the firebox, ensuring gas does not build up.

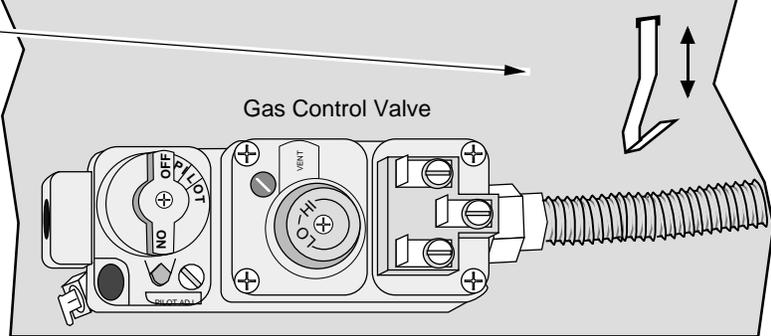
- 3 Close the door. Make sure the door is centered and the attachment screws are tightened to form a seal around the door opening.
- 4 Turn on gas to the heater. Leak test all gas joints prior to starting the appliance. Start the pilot. Start the main burner. Leak test all gas joints again.
- 5 Check the pilot flame to make sure it looks like the illustration below. Adjust the pilot flame if necessary.



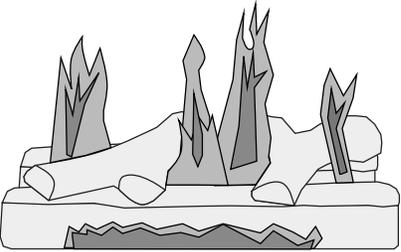
- 6 Let the heater burn for fifteen minutes. Adjust the air shutter, if necessary, to achieve the correct looking flame (see the illustration below).
- The air shutter adjusts the amount of air that mixes with the gas before it exits the burner holes. It is used to fine-tune the flame for differences in altitude and vent configuration.

Locate the air shutter adjustment lever behind the gas control valve. Move it up or down until the flame looks correct. Pushing up gives the flame more air (making it bluer). Pulling it down cuts air down, making it more orange.

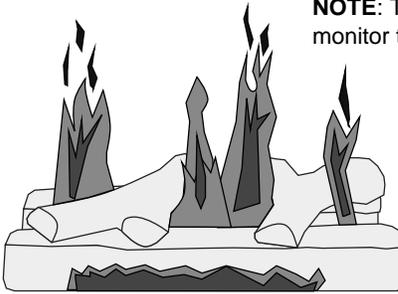
**NOTE:** If the air control is all the way up, yet the flames remain sooty, shut off gas to the fireplace and contact a qualified gas service technician.



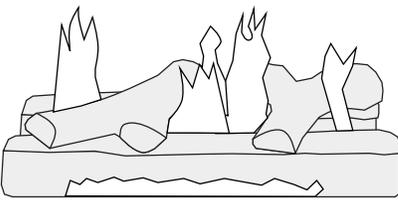
**NOTE:** The logs must be installed correctly to monitor the flame while adjusting the air shutter.



**Correct**  
Flames should be blue at the base, yellow-orange on the top.

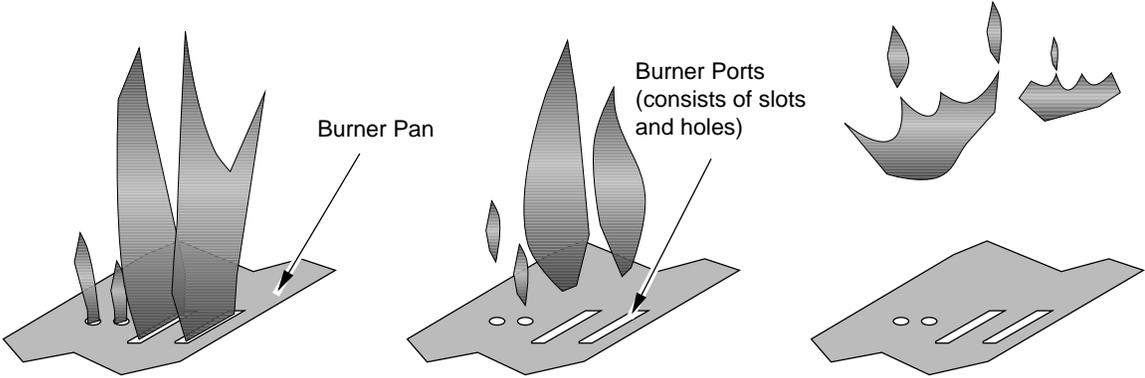


**Not Enough Air**  
If the flames are too tall or sooty on the ends, push up on the lever.



**Too Much Air**  
If the flames are all blue and short, pull down the lever.

- ! If the air shutter is in its fully open position, yet the flames remain sooty, shut off gas to the heater and contact your Travis Industries Dealer for a remedy.
- ! If the vent configuration is installed incorrectly the vent may cause the flames inside the fireplace to lift or "ghost" – a dangerous situation. Inspect the flames after installation to insure proper performance. If the vent configuration is correct, yet the flames are lifting or ghosting, shut off gas to the fireplace and contact the dealer for information on remedying the problem.



**Burner Pan**

**Burner Ports (consists of slots and holes)**

The flames should burn right off the top of the burner ports (if they are too blue, adjust the air control).

If the flames are lifting, yet the vent configuration is correct, contact your dealer.

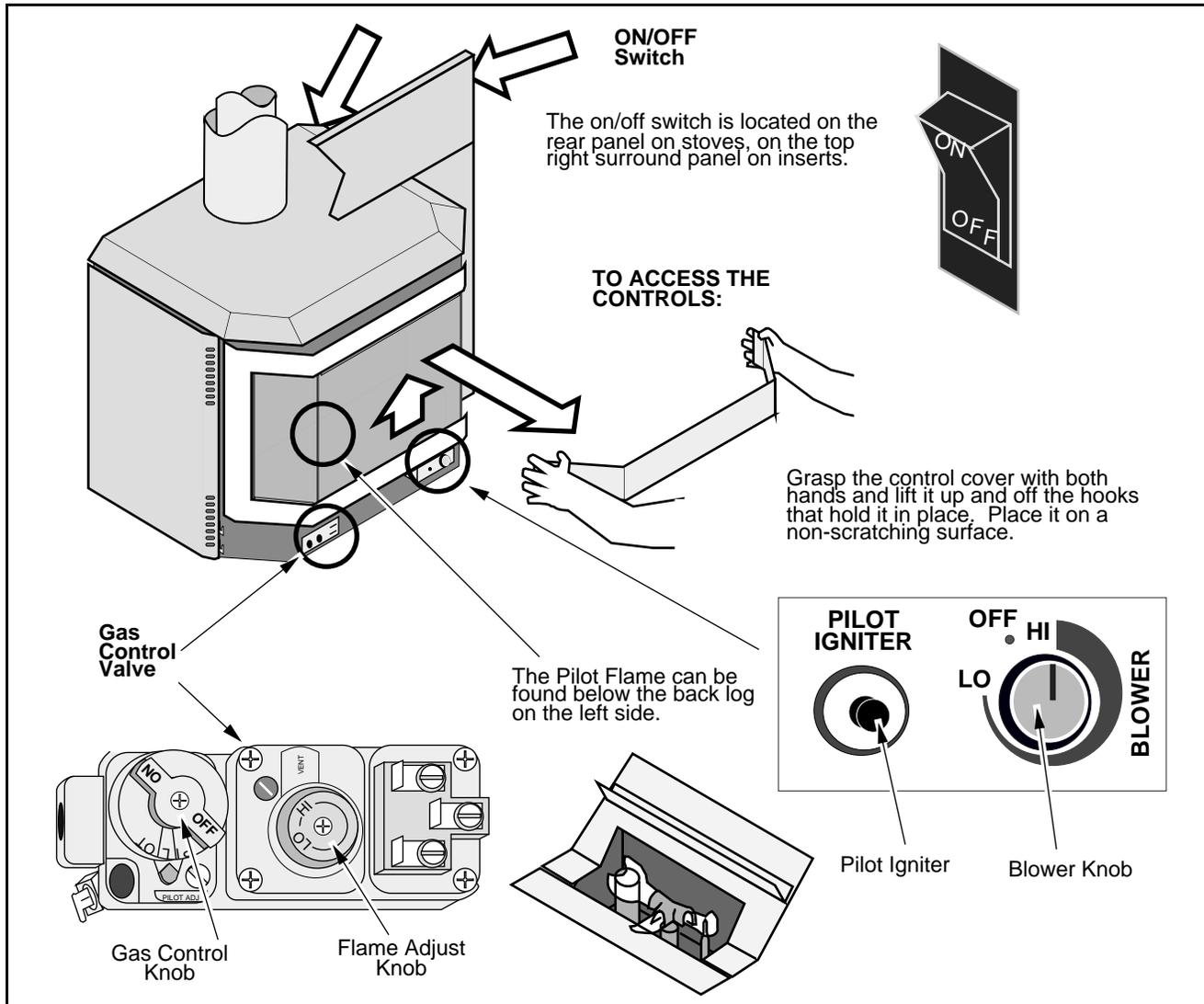
If the flames are ghosting, yet the vent configuration is correct, contact your dealer.

- 7 Turn the flame adjust knob to its highest position - the flames should be approximately 12". Check the flame on low position. The flames should burn off of each burner hole. If the heater does not work correctly, contact your dealer for a remedy.
- 8 Give this manual to the home owner and fully explain the operation of this heater.

**Before You Begin**

! Read this entire manual before you use your new stove (especially the section "Safety Precautions" on pages 2 & 3). Failure to follow the instructions may result in property damage, bodily injury, or even death.

**Location of Controls - See explanation below**



**On/Off Switch**

This control is used to turn the main burner on and off.

**Gas Control Knob**

This knob is used to control gas to the stove and for starting the pilot. There are three positions, ON, OFF, & PILOT. The pointer directly below the knob indicates the position this knob is in.

**Flame Adjust Knob**

This knob controls the flame height from low ("LO") to high ("HI"). The pointer to the upper left of the knob points to the position this knob is in.

**Pilot Igniter**

The pilot igniter is used only to start the pilot. When pressed, it sends an electrical charge to the pilot assembly. This creates a blue spark directly next to the pilot, igniting the pilot flame.

**Blower Knob**

This knob controls the speed of the internal convection blower that pushes the heated air into the room.

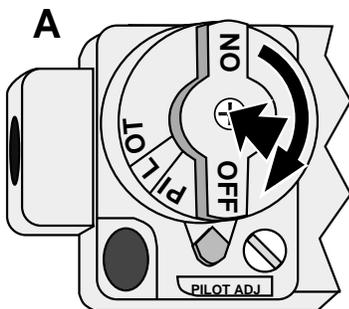
? If using a remote control or thermostat, the On/Off Switch must be left "ON". Turning the On/Off Switch "OFF" will keep the stove off always.

## Starting The Pilot Flame

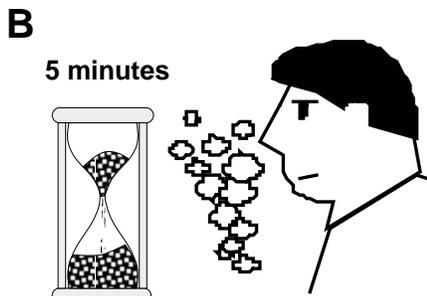
The pilot flame is required to ignite the main burners (it also plays a safety role). It should be left on once lit. It will stay lit unless the gas control valve is turned to "OFF". However, the pilot will go out if the gas is shut off or if the stove malfunctions. If the pilot turns off frequently, call your dealer for information. To start the pilot follow the directions below:

**NOTE: IF YOU'RE TRYING TO RE-LIGHT THE PILOT BECAUSE SERVICE WAS PERFORMED ON THE UNIT (I.E. GAS LINE REMOVED THEN RE-INSTALLED OR BECAUSE TANK RAN OUT OF GAS), FOLLOW THE INSTRUCTIONS FOR REMOVING THE GLASS AND LOGS ON PAGES 26 THROUGH 28 THEN BLEED THE GAS LINE.**

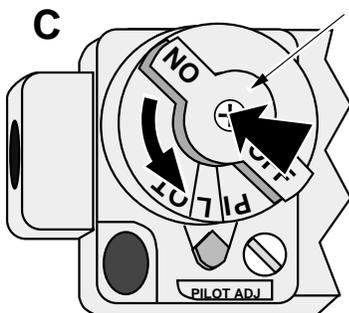
**A** Push the gas control knob in slightly and turn it to the "OFF" position. The knob will not turn from "ON" to "OFF" unless the knob is depressed slightly.



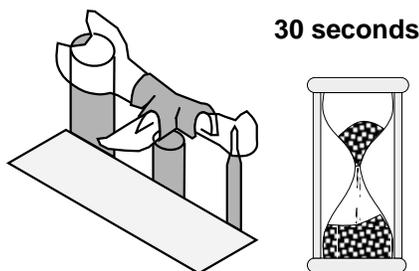
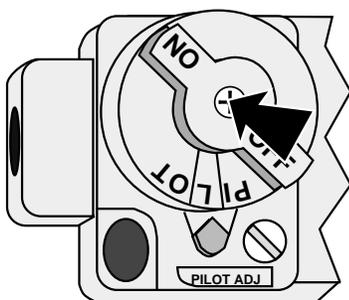
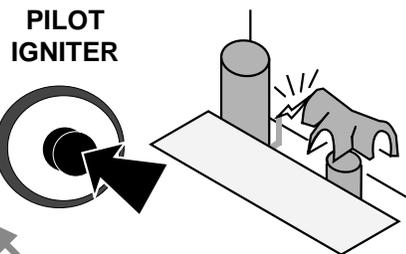
**B** Wait five minutes to let any gas that may have accumulated inside the firebox escape. If you smell gas, follow the directions on the cover "IF YOU SMELL GAS".



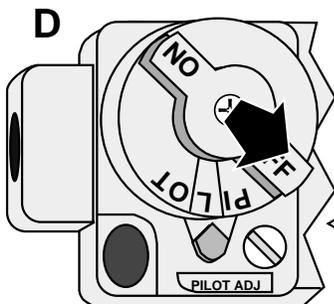
**C** Turn the gas control knob to the "PILOT" position and press the knob in, this will allow gas to flow to the pilot light. Press the red button on the pilot igniter repeatedly until you see the pilot light. **KEEP THE GAS CONTROL KNOB DEPRESSED FOR 30 SECONDS ONCE IT IS LIT. NOTE: IF THE PILOT DOES NOT LIGHT AFTER 15 SECONDS, RELEASE THE KNOB AND CALL YOUR DEALER FOR SERVICE.**



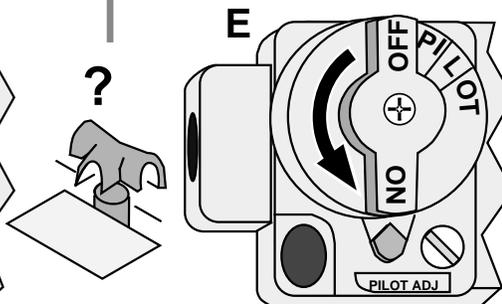
Do not press knob in for more than 15 seconds if pilot does not light. Call Your Dealer For Service



**D** Release the gas control knob. If the pilot goes out, repeat step C. If the pilot refuses to stay lit, call your dealer for service.



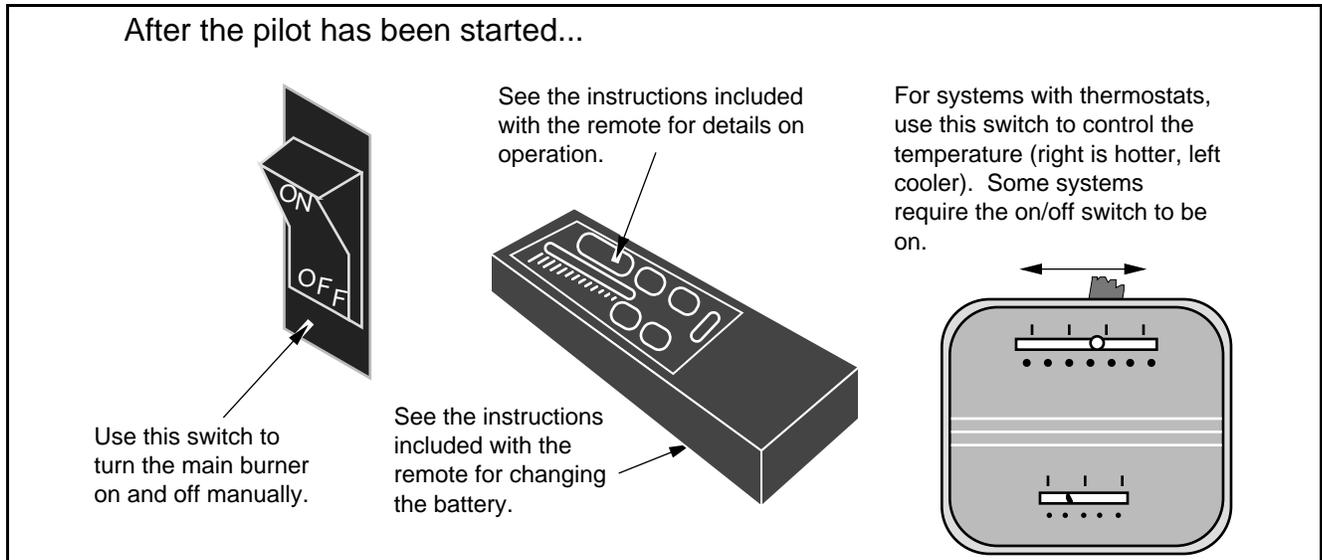
**E** Turn the gas control knob counter-clockwise to "ON". The pilot is now lit and the stove can be turned on and off.



### **Starting the Stove for the First Time**

- + **Fumes** and smoke from the paint curing and oil burning off the steel may occur the first time you start your stove. This is normal. We recommend you open windows to vent the room.
- + **Condensation** may appear on the glass each time you start the stove - this is normal.
- + **Blue Flames** will occur on the stove when it first comes on. After fifteen minutes the flames will turn a more realistic yellow and orange color.
- ? Certain installations use a remote "wall switch" to turn the stove on and off. If this is the case, leave the ON/OFF switch "ON".

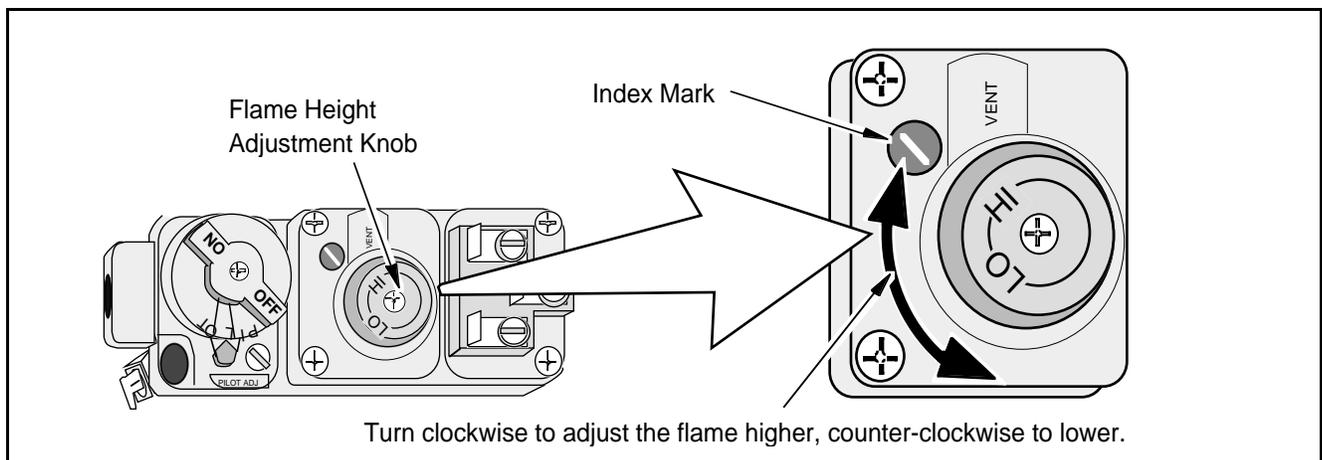
### **Turning the Stove On and Off**



- ! Do not place any combustible items on top of or directly in front of the stove, even temporarily. The optional thermostat may start the stove causing a combustible item to ignite.
- ? If the stove turns on and off frequently while using the thermostat, you may want to adjust the flame height down until it produces just enough heat needed.

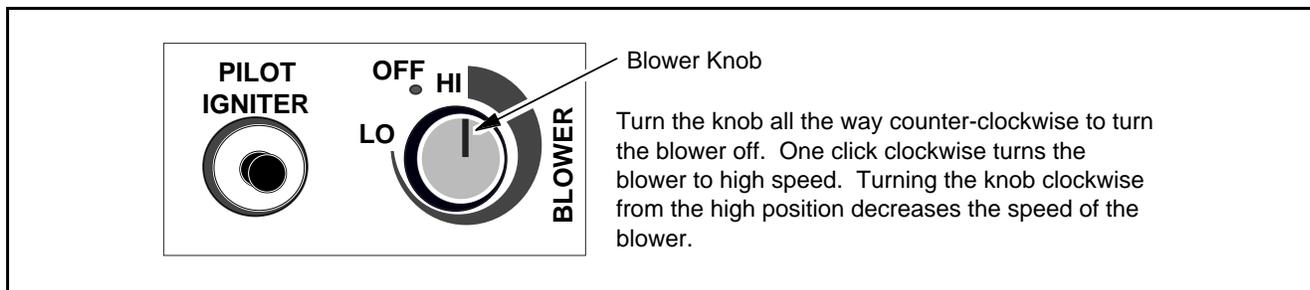
### **Adjusting the Flame Height**

- + Your stove has an adjustable flame to tailor the look and heat output to your specific needs. It is adjusted by turning the middle dial on the gas control valve.

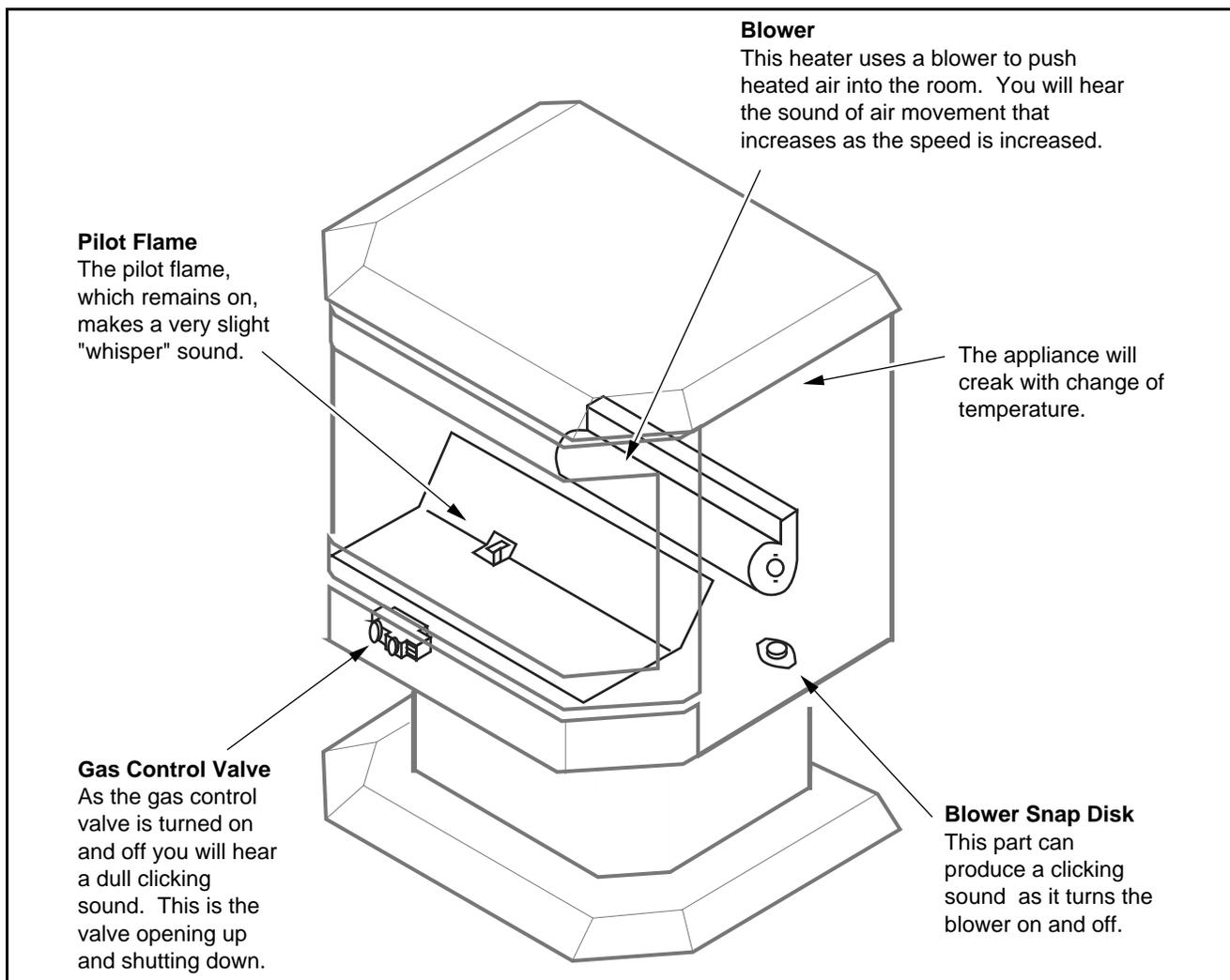


## Adjusting the Blower Speed

- + The blower helps transfer the heat from the stove into the room. It will not turn on until the stove is up to temperature (approximately 10 minutes after starting). See the illustration below for instructions on adjusting the blower speed.



## Normal Operating Sounds



## Maintaining Your Stove's Appearance

- ! The enameled surfaces may chip if struck. Damaged surfaces may be repaired using the enamel touch-up paint available from Travis Industries.
- ! Fingerprints or other marks left on the gold surface may become etched in place if they are not wiped clean prior to turning the stove on. Clean the surfaces with denatured alcohol and a soft cloth.

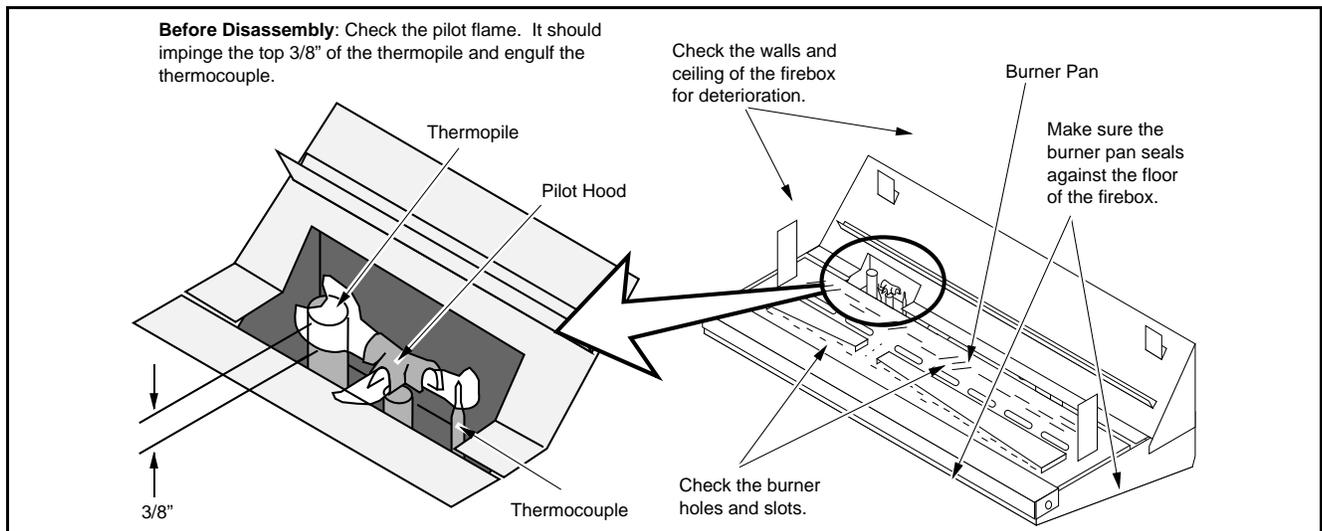
## Cleaning Your Stove

- Use denatured alcohol and a soft cloth to clean the gold surfaces (make sure the appliance is cool). Other cleaners may leave a film that may become etched into the gold.
- Enameled surfaces may be cleaned with a soft rag, soap and water.

## Yearly Service Procedure

- ! Failure to inspect and maintain the heater may lead to improper combustion and a potentially dangerous situation. We recommend the following procedures be done by a qualified technician.
- 1 Check the pilot flame. It should engulf approximately 3/8" of the top of the thermocouple (see illustration below). If it does not, contact your dealer for service.
  - 2 Shut off gas to the heater by turning the gas control knob to "OFF" (see step A under "Starting the Pilot" on page 31). Let the heater cool for 15 minutes. Open the door (see step 1 on page 26).
  - 3 Remove the logs, twigs and embers (see page 27 - **NOTE: the logs are fragile**). If any log is cracked or deteriorated, replace it when re-installing. Check the logs for sooting. A small amount of soot along the bottom of the logs is normal. If excessive sooting is found, the heater will require adjustment. Contact your dealer.
  - 4 Clean the burner pan (especially in the burner holes and slots) and inspect the following:
    - Check for burner pan holes that are cracked, severely warped, or corroded.
    - Make sure the burner pan assembly fits flat against the floor of the firebox.
    - Check the firebox and area around the pilot to make sure there is no warping or damage.

If any problem is found, discontinue use and contact your dealer for service.



- 5 Replace the log set. Inspect the glass and door gasket. If it is deteriorated, replace. It may be re-attached using high-temperature gasket cement. If the glass is damaged, replace it. Close the door. Make sure the gasket forms a seal and the side pieces of glass butt up against the center piece. If needed, re-align or replace the gasket to insure an air-tight seal. Replace the door.
- 6 Inspect the area behind the control cover. Check the gas control valve and all of the gas lines. If any damage is found, discontinue use and contact your dealer for service.
- 7 Start the pilot and turn on the main burner. The flames should be orange/yellow and not touch the top of the firebox. If the pilot or main burners do not burn correctly, contact your dealer for service. Monitor the blower operation.
- 8 Remove any debris or vegetation near the vent termination. Contact your dealer if any sooting or deterioration is found near the vent termination.

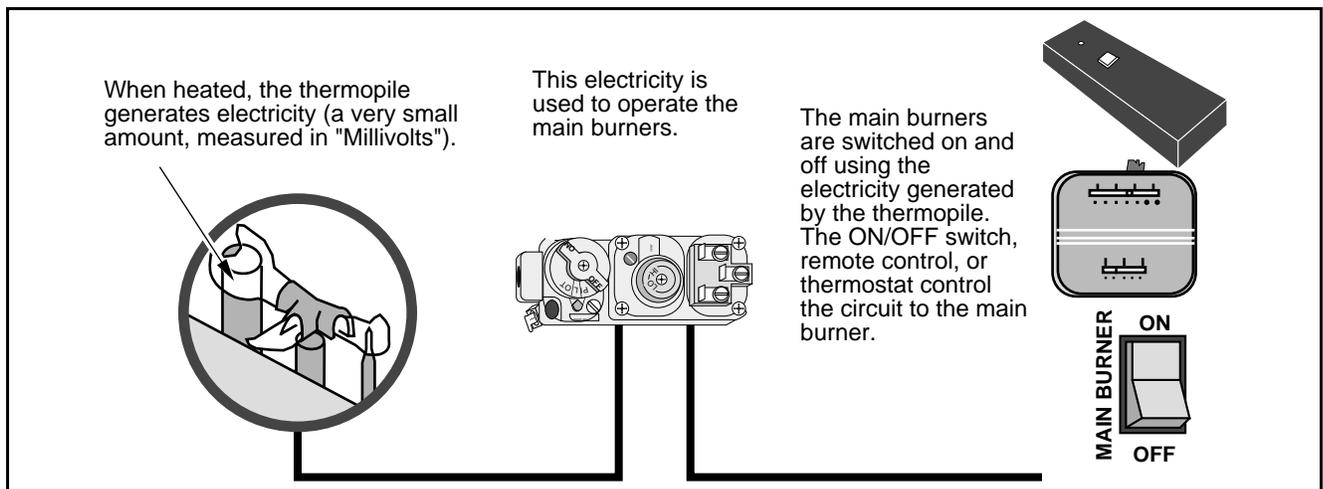
<b>Problem:</b>	<b>Possible Cause:</b>	<b>Don't Call for Service Until You:</b>
<b>Pilot Will Not Flame</b>	A gas shut off valve is turned off .....	Check all gas shut off valves
	The gas control knob isn't turned to "PILOT" .....	See "Starting the Pilot Flame" Pg 31
	The valve control knob isn't pushed in .....	See "Starting the Pilot Flame" Pg 31
	The igniter wasn't pressed repeatedly .....	See "Starting the Pilot Flame" Pg 31
<b>Main Burners Will Not Start</b>	The pilot flame has gone out .....	See "Starting the Pilot Flame" Pg 31
	The gas control valve is turned to "PILOT" or "OFF" .....	See "Starting the Pilot Flame" Pg 31
	The ON/OFF switch is turned to "OFF" .....	Turn the ON/OFF switch to "ON"
	The remote control is not working correctly .....	Replace the batteries
	The thermostat is disconnected or set too high .....	Set the thermostat to a lower temperature
<b>Remote Control Does Not Work</b>	The pilot light has gone out .....	See "Starting the Pilot Flame" Pg 31
	The gas control valve is turned to "PILOT" or "OFF" .....	See "Starting the Pilot Flame" Pg 31
	The ON/OFF switch is turned to "OFF" .....	Turn the ON/OFF switch to "ON"
	The remote is too far away from the stove .....	Use the remote closer to the stove
	The remote control receiver is turned "OFF" .....	See the remote control instructions
	One of the two remote control batteries is dead .....	See the remote control instructions
<b>Thermostat Does Not Work</b>	The pilot flame has gone out .....	See "Starting the Pilot Flame" Pg 31
	The gas control valve is turned to "PILOT" or "OFF" .....	See "Starting the Pilot Flame" Pg 31
	The ON/OFF switch is turned to "OFF" .....	Turn the ON/OFF switch to "ON"
	The thermostat is set too high .....	Set the thermostat to a lower temperature
<b>Blower Does Not Operate</b>	The stove is not getting electricity .....	Check the outlet switch
	The stove is not up to temperature .....	See "Operating Your Stove"
<b>Flames Are Too Blue</b>	The stove has just been started .....	This is normal - see "Starting the Stove for the First Time"
<b>Flames Are Too Short (Under 6")</b>	The flame height may be turned too low .....	Turn the flame height to "HI" - See "Adjusting the Flame Height"

## How this Fireplace Works

- ! This fireplace was designed with safety as the primary concern. Many of the components inside this fireplace are for safety purposes. Therefore, only certified gas service technicians should service this fireplace.

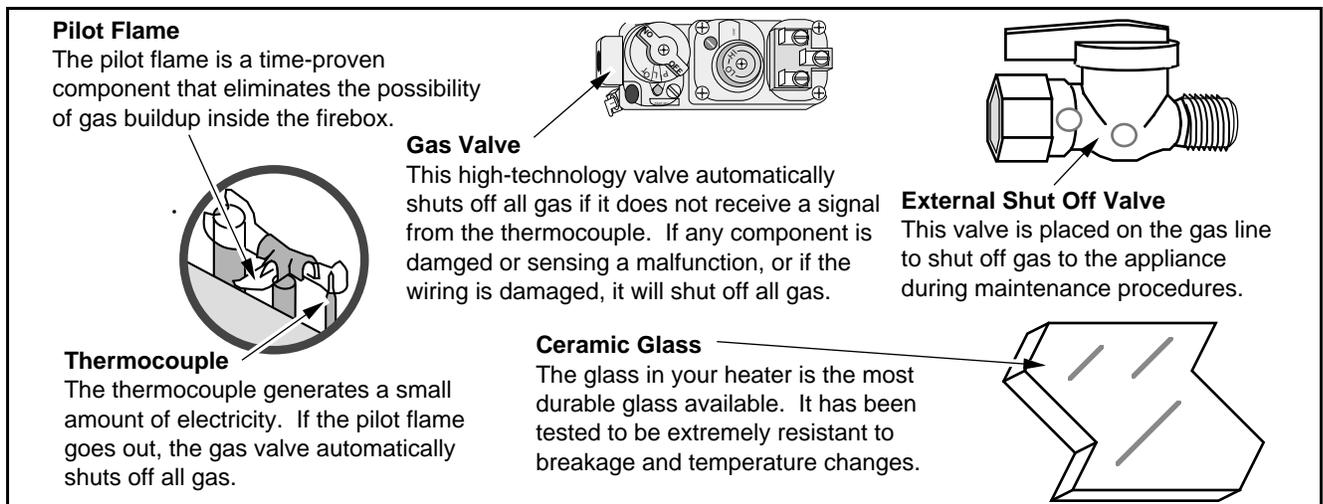
## What Turns the Main Burners On and Off

This fireplace uses a millivolt system to control its operation (a millivolt is a very small amount of electricity). The thermopile and thermocouple generate electricity when heated by the pilot flame. This electricity is used to operate the gas valve. Without enough electricity, the gas valve will not turn on. That is why when starting the pilot the gas control knob has to be pressed in long enough for the thermocouple to heat up and generate enough electricity. The thermopile provides power for the ON/OFF switch, remote control, or thermostat (see the illustration below). Because the thermopile generates the electricity needed to turn the fireplace on and off, this fireplace can be operated when the power is out (although the blower will not run).



## What Prevents Gas Buildup

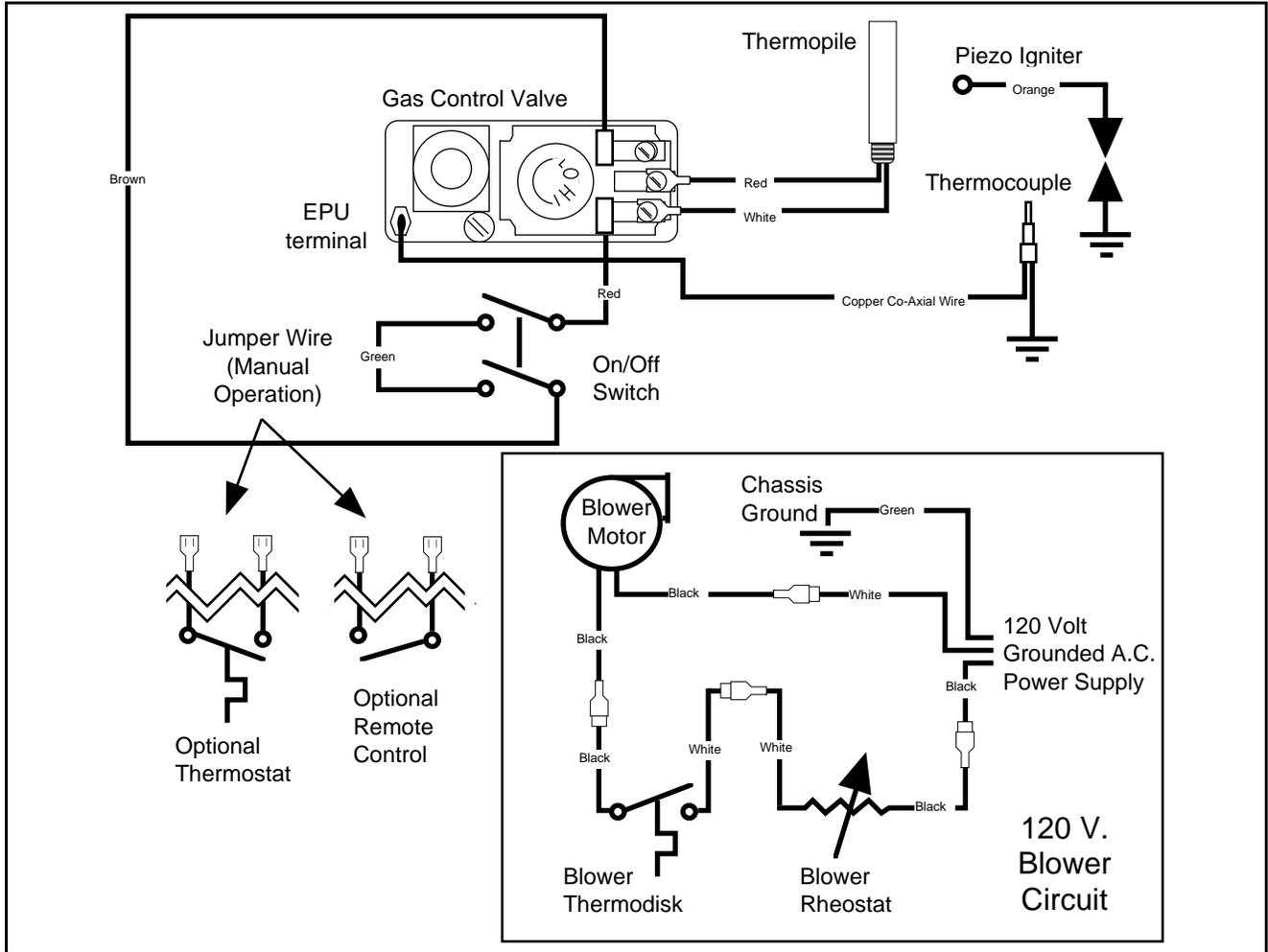
- + This appliance utilizes a high-technology gas valve in conjunction with a pilot flame to ensure no gas builds up inside the firebox.
- + The thermocouple (next to the pilot) senses when the pilot flame is lit. If the pilot flame goes out, this thermocouple no longer generates electricity, causing the gas valve to automatically shut off all gas to the heater, preventing the pilot from spilling gas into the firebox.



### Why Nothing Should Be Placed Against the Heater

Your heater has a grill on the sides and top that must not be blocked. These grills are used to draw room air over the hottest parts of the heater and distribute the warmed air into the room. If they are blocked, the heater will not heat as well and may become too hot internally.

### Wiring Diagram



To register your TRAVIS INDUSTRIES, INC. 7 Year Warranty, complete the enclosed warranty card and mail it within **ten (10)** days of the appliance purchase date to: TRAVIS INDUSTRIES, INC., 10850 117th Place N.E., Kirkland, Washington 98033. TRAVIS INDUSTRIES, INC. warrants this gas appliance (appliance is defined as the equipment manufactured by Travis Industries, Inc.) to be defect-free in material and workmanship to the original purchaser from the date of purchase as follows:

**Years 1 & 2 - COVERAGE: PARTS & LABOR**

Burner Assembly:

Burner, Burner Pan, Air Shutter Assembly, Main Burner Orifice

Firebox Assembly:

Adjustable Air Restrictor, Pressure Relief Mechanisms (direct vents only), Glass Attachment Mechanism

Gas Control Assembly

Adjustable control valve, millivolt wiring and connectors (located within the metal heater structure), thermopile, thermocouple, pilot hood, orifices, pilot gas line, piezo ignitor

Ceramic Glass

Glass (breakage from thermal shock)

Ceramic Logs

Log Set, Coals, Ember Strip (Steel Fiber)

Optional Brass Door

Solid Brass Door (see "Conditions and Exclusions" # 9)

Gold Plating

Gold or Nickel Door, Optional Grill (see "Conditions and Exclusions" # 9)

Electrical Assembly:

Blower, wiring harness, snap discs, rheostat speed control

Accessories

Legs, Pedestal, Panels, Cast Firebacks, Shell Assembly

Convection Heat Exchanger

Re-Installation Allowance

In cases where heater must be removed from home for repairs, a partial cost of re-installation is covered (pre-authorization required)

One-Way Freight Allowance

One-way freight allowance on pre-authorized repair done at factory is covered.

**Exclusions:** Paint, Gasketing

**Years 3 THROUGH 5 - COVERAGE: PARTS & LABOR**

Burner Assembly:

Burner, Burner Pan, Air Shutter Assembly, Main Burner Orifice

Optional Brass Door

Solid Brass Door (see "Conditions and Exclusions" # 9)

**Exclusions:** Paint, Gasketing, Electrical Assembly, Gas Control Assembly, Ceramic Glass, Ceramic Logs, Gold & Nickel Plating, Accessories, Re-Installation Allowance

Firebox Assembly:

Adjustable Air Restrictor, Pressure Relief Mechanisms (direct vents only), Glass Attachment Mechanism

Convection Heat Exchanger

One-Way Freight Allowance

One-way freight allowance on pre-authorized repair done at factory is covered.

**Years 6 & 7 - COVERAGE: PARTS ONLY**

Burner Assembly:

Burner, Burner Pan, Air Shutter Assembly, Main Burner Orifice

Firebox Assembly:

Adjustable Air Restrictor, Pressure Relief Mechanisms (direct vents only), Glass Attachment Mechanism

Optional Brass Door

Solid Brass Door (see "Conditions and Exclusions" # 9)

**Exclusions:** Paint, Gasketing, Electrical Assembly, Gas Control Assembly, Ceramic Glass, Ceramic Logs, Gold & Nickel Plating, Accessories, Convection Heat Exchanger, Re-Installation Allowance, One-Way Freight Allowance, Labor

**CONDITIONS & EXCLUSIONS**

- This new gas appliance must be installed by a qualified gas appliance technician. It must be installed, operated, and maintained at all times in accordance with the instructions in the Owner's Manual. Any alteration, willful abuse, accident, neglect, or misuse of the product shall nullify this warranty.
- This warranty is nontransferable, and is made to the ORIGINAL purchaser, provided that the purchase was made through an authorized TRAVIS dealer.
- Discoloration and some minor expansion, contraction, or movement of certain parts and resulting noise, is normal and not a defect and, therefore, not covered under warranty. The installer must ensure the appliance is burning as per the rating tag at the time of installation. Over-firing (operation above the listed BTU rate) of this appliance can cause serious damage and will nullify this warranty.
- The warranty, as outlined within this document, does not apply to the chimney components or other Non-Travis accessories used in conjunction with the installation of this product. If in doubt as to the extent of this warranty, contact your authorized TRAVIS retailer before installation.
- Travis Industries will not be responsible for inadequate performance caused by environmental conditions such as nearby trees, buildings, roof tops, wind, hills or mountains or negative pressure or other influences from mechanical systems such as furnaces, fans, clothes dryers, etc.
- This Warranty is void if:
  - The unit has been operated in atmospheres contaminated by chlorine, fluorine or other damaging chemicals.
  - The unit is subject to submersion in water or prolonged periods of dampness or condensation.
  - Any damage to the unit, combustion chamber, heat exchanger or other components due to water, or weather damage which is the result of, but not limited to, improper chimney/venting installation.
- Exclusions to this 7 Year Warranty include: injury, loss of use, damage, failure to function due to accident, negligence, misuse, improper installation, alteration or adjustment of the manufacturer's settings of components, lack of proper and regular maintenance, damage incurred while the appliance is in transit, alteration, or act of God.
- This 7 Year warranty excludes damage caused by normal wear and tear, such as paint discoloration or chipping, worn or torn gasketing, corroded or cracked logs, embers, etc. Also excluded is damage to the unit caused by abuse, improper installation, modification of the unit, drilling of the orifices, or the use of fuel other than that for which the unit is configured. Units are shipped for natural gas and must be converted to propane using the included conversion kit. Confirm fuel configuration with your installer.
- Damage to gold, nickel, or brass surfaces caused by fingerprints, scratches, melted items, or other external sources left on the surface is not covered in this warranty. Damage from the use of cleaners other than denatured alcohol on gold or nickel is not covered in this warranty. Damage from the use of abrasive cleaners on brass is not covered in this warranty.
- TRAVIS INDUSTRIES, INC. is free of liability for any damages caused by the appliance, as well as inconvenience expenses and materials. Incidental or consequential damages are not covered by this warranty. In some states, the exclusion of incidental or consequential damage may not apply.
- This warranty does not cover any loss or damage incurred by the use or removal of any component or apparatus to or from the gas appliance without the express written permission of TRAVIS INDUSTRIES, INC. and bearing a TRAVIS INDUSTRIES, INC. label of approval.
- Any statement or representation of TRAVIS products and their performance contained in TRAVIS advertising, packaging literature, or printed material is not part of this 7 year warranty.
- This warranty is automatically voided if the appliance's serial number has been removed or altered in any way. If the appliance is used for commercial purposes, it is excluded from this warranty.
- No dealer, distributor, or similar person has the authority to represent or warrant TRAVIS products beyond the terms contained within this warranty. TRAVIS INDUSTRIES, INC. assumes no liability for such warranties or representations.
- Travis Industries will not cover the cost of the removal or re-installation of hearths, facing, mantels, venting or other components.
- If for any reason any section of this warranty is declared invalid, the balance of the warranty remains in effect and all other clauses shall remain in effect.
- THIS 7 YEAR WARRANTY IS THE ONLY WARRANTY SUPPLIED BY TRAVIS INDUSTRIES, INC., THE MANUFACTURER OF THE APPLIANCE. ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, ARE HEREBY EXPRESSLY DISCLAIMED AND PURCHASER'S RECOURSE IS EXPRESSLY LIMITED TO THE WARRANTIES SET FORTH HEREIN.**

**IF WARRANTY SERVICE IS NEEDED:**

- If you discover a problem that you believe is covered by this warranty, you **MUST REPORT** it to your TRAVIS dealer **WITHIN 30 DAYS**, giving them proof of purchase, the purchase date, and the model name and serial number.
- Travis Industries has the option of either repairing or replacing the defective component.
- If your dealer is unable to repair your appliance's defect, he may process a warranty claim through TRAVIS INDUSTRIES, INC., including the name of the dealership where you purchased the appliance, a copy of your receipt showing the date of the appliance's purchase, and the serial number on your appliance. At that time, you may be asked to ship your appliance, freight charges prepaid, to TRAVIS INDUSTRIES, INC. TRAVIS INDUSTRIES, INC., at its option, will repair or replace, free of charge, your TRAVIS appliance if it is found to be defective in material or workmanship within the time frame stated within this 7 year warranty. TRAVIS INDUSTRIES, INC. will return your appliance, freight charges (years 1 to 5) prepaid by TRAVIS INDUSTRIES, INC., to your regional distributor, or dealership.
- Check with your dealer in advance for any costs to you, when arranging a warranty call. Dealers may require you to pay a service or trip charges for any warranty work. This charge can vary from store to store.

The safety label can be found on a card that is chained to the unit behind the control cover. A copy is shown below.

Minimum Clearances to Combustibles	
Unit to Sidewall .....	10"
Unit to Backwall .....	4"
Unit to Cornerwall .....	4"
Front of Unit .....	36"
Alcove Min. Height .....	58"
Alcove Max. Depth .....	45"
Alcove Min Width .....	44"
Mantle Height Above Unit .....	17.5"
Side Facing to Unit .....	8"
Top Facing to unit .....	12"
Hearth Extension Front .....	0"
Hearth Extension Sides .....	0"

	L.P.	N.G.
Input Rate on "Hi" (BTU/Hr) .....	36,500	38,500
Input Rate on "Lo" (BTU/Hr) .....	18,000	18,700
Main Burner Orifice (DMS) .....	#50	#32
Minimum Inlet Pressure (inches W.C.) .....	11"	5.5"
Maximum Inlet Pressure (inches W.C.) .....	13"	7"
Manifold Pressure on "Hi" (inches W.C.) .....	10"	3.5"
Manifold Pressure on "Lo" (inches W.C.) .....	2.7"	1"

This room heater is equipped at the factory for use with natural gas. If conversion to propane (LP) fuel is desired the optional factory conversion kit #98900746 must be used.

Blower Electrical Rating: 115v, 1.5 Amps, 60 Hz FAN TYPE VENTED CIRCULATOR

Manufacture	1996	Jan.	Apr.	Jul.	Oct.
Date:	1997	Feb.	May	Aug.	Nov.
	1998	Mar.	Jun.	Sep.	Dec.

**Travis Industries, Inc.**  
10850 117th Pl. N.E., Kirkland, WA 98033

**Tested & Listed by** **OMNI** **Beaverton, OR, USA**

**Report No. 028-S-14-5**

**AVALON™** **Listed Gas-Fired Direct Vent Wall Furnace and Fireplace Insert**

**Avanti DV**  
Listed Gas-Fired Direct Vent Wall Furnace and Fireplace Insert

Tested and certified by OMNI-Test, Inc. to the following standards:  
 USA: ANSI Z21.44-1997 Gas-Fired Gravity and Fan Type Direct-Vent Wall Furnace, and applicable sections of Z21.11-1-1991 Gas-Fired Vented Room Heaters, and CAN/CGA 2.17-M91 "Gas-Fired Appliances for use at High Altitudes".  
 CANADA: ANSI Z21.44-1997 Gas-Fired Gravity and Fan Type Direct-Vent Wall Furnace, and applicable sections of Z21.11-1-1991 Gas-Fired Vented Room Heaters, and CAN/CGA 2.17-M91 "Gas-Fired Appliances for use at High Altitudes".

Must be installed in accordance with all local codes, if any, if not, follow ANSI Z231-1-1992 and NFPA 54(88). Installation in Manufactured or Mobile Homes must conform with: In USA, Manufactured Home Construction and Safety Standard, Title 24 CFR Part 3280; In Canada, CSA Z240.4 and Gas-Equipped Recreational Vehicles and Mobile Housing. The 36DV is designed to operate on natural gas, or propane (LP). This appliance uses a milliwatt-type control system consisting of a gas control valve/regulator, a standing pilot burner assembly, a thermopile, a piezo ignitor, and the ON/OFF switch. THIS UNIT DOES NOT REQUIRE 110 VOLT POWER TO OPERATE. All exhaust gases must be vented outside the structure of the living-area. Combustion air is drawn from outside the living-area structure. This appliance may be installed in Manufactured Housing only after the home is site located.

**WARNINGS:**  
 Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the information in the owner's and installation manual provided with this appliance. For assistance or additional information consult a qualified installer, service agency or the gas supplier.  
 Installation and repair should be performed by a qualified service person. The appliance should be inspected before use and at least annually by a qualified service person. More frequent cleaning may be required where excessive lint from material like carpeting and bedding is present. The control compartment, the burner compartment and all circulating air passageways of the appliance must be kept clean and clear at all times.  
 Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.  
 The appliance should be cleaned using a separate solid fuel burning appliance.  
 This heater is a Direct Vent Gas-Fired Appliance. DO NOT touch the burner or other hot surfaces. The burner and other hot surfaces should be kept clear of children and adults should be alerted to the hazards of high surface temperature and should stay away to avoid fresh burns or clothing ignition.  
 Young children should be carefully supervised at all times when they are in the same room as the appliance.

**CAUTION:**  
 All safety screen or guard components removed for servicing, must be replaced prior to operating the appliance.  
 Clothing or other flammable material should not be placed on or near the appliance.  
 Risk of electrical shock. Switch the household breaker off or remove fuse before servicing unit.  
 Use Simpson Dura-Vent System (Model GS) to vent this appliance to the exterior (direct discharges only without duct connection).

## Propane Conversion Kit (Part # 98900746)

The propane conversion kit should be installed prior to installing the heater and gas inlet (if not, shut off gas and disconnect the gas inlet - see page 9 for stoves, page 21 for inserts).

### Items Needed For Assembly

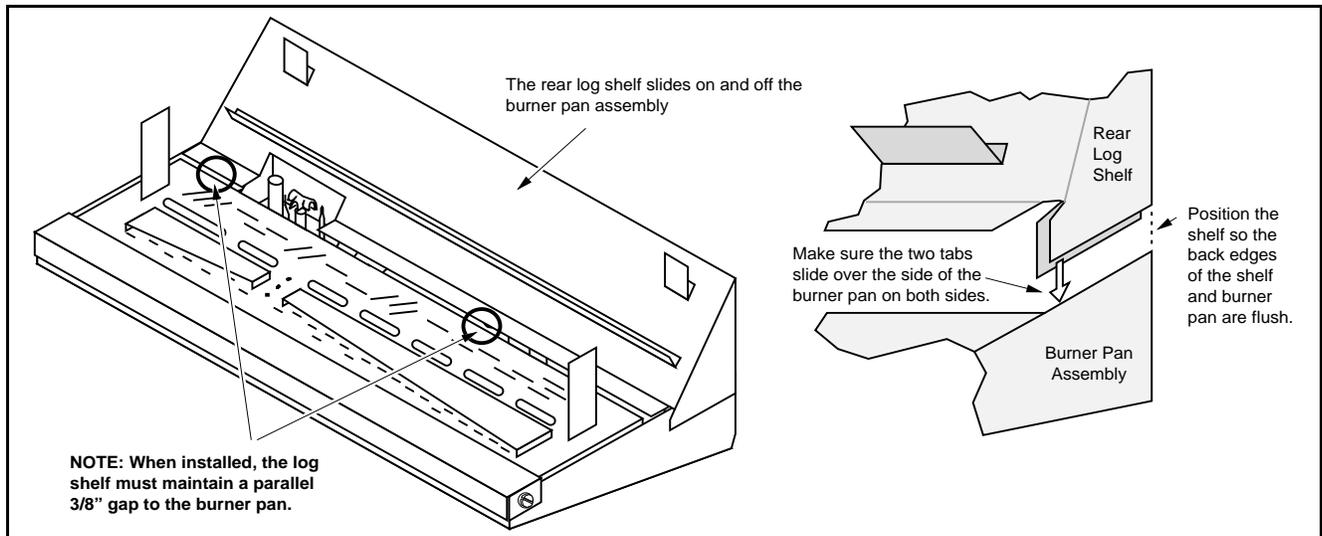
- 1/4" Nutdriver
- Phillips Screwdriver
- Thread sealant
- 7/16" and 1/2" Open End Wrench
- Micro (1/16") Standard Screwdriver
- Leak Testing Equipment
- Standard Screwdriver

### Packing List

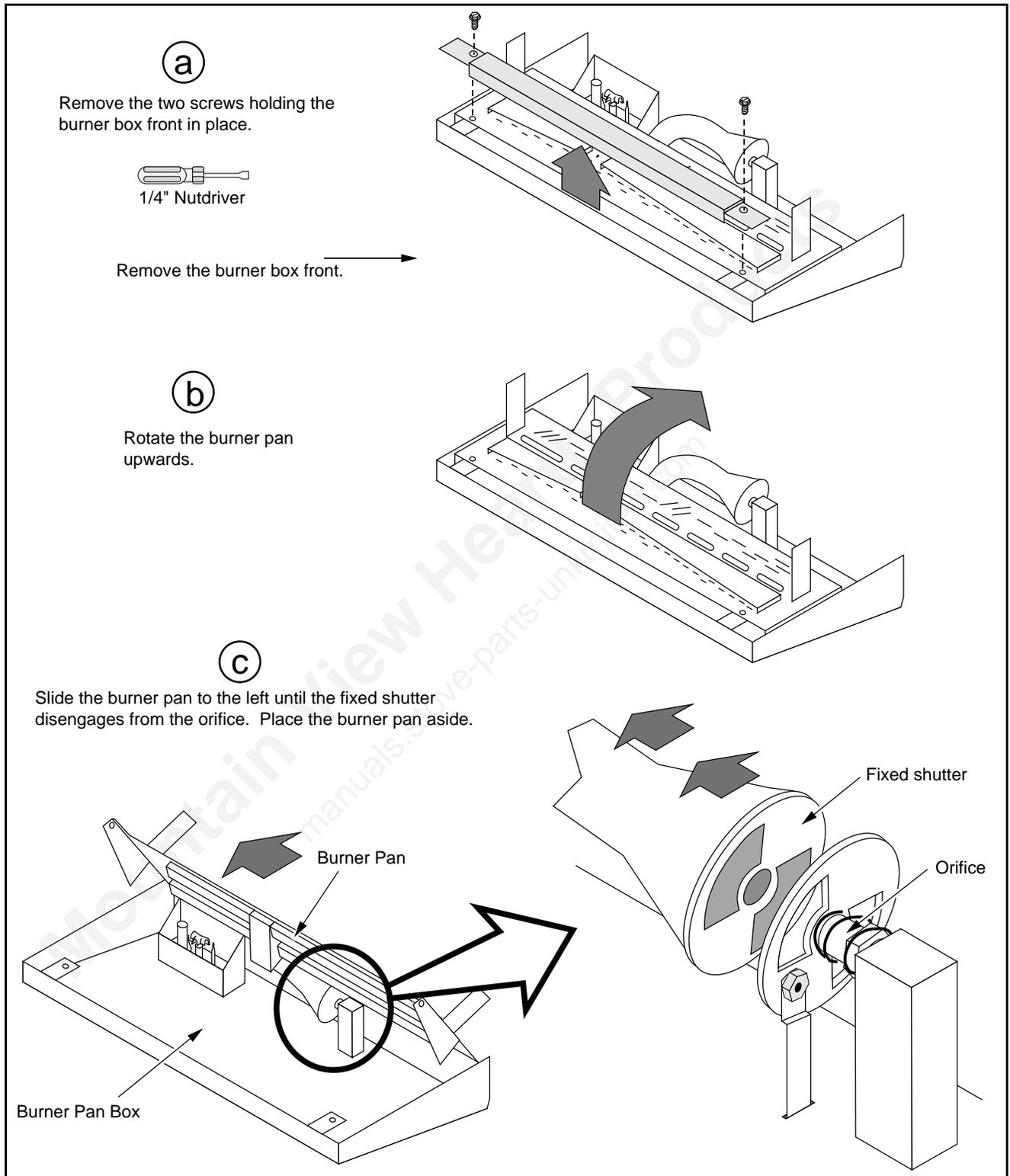
- LP Orifice (#50 - stamped "50")
- LP Pilot Orifice (.016" dia. - stamped "16LP")
- Replacement Regulator
- Two Replacement Screws
- Regulator Gasket
- LP Label

### Installation Instructions

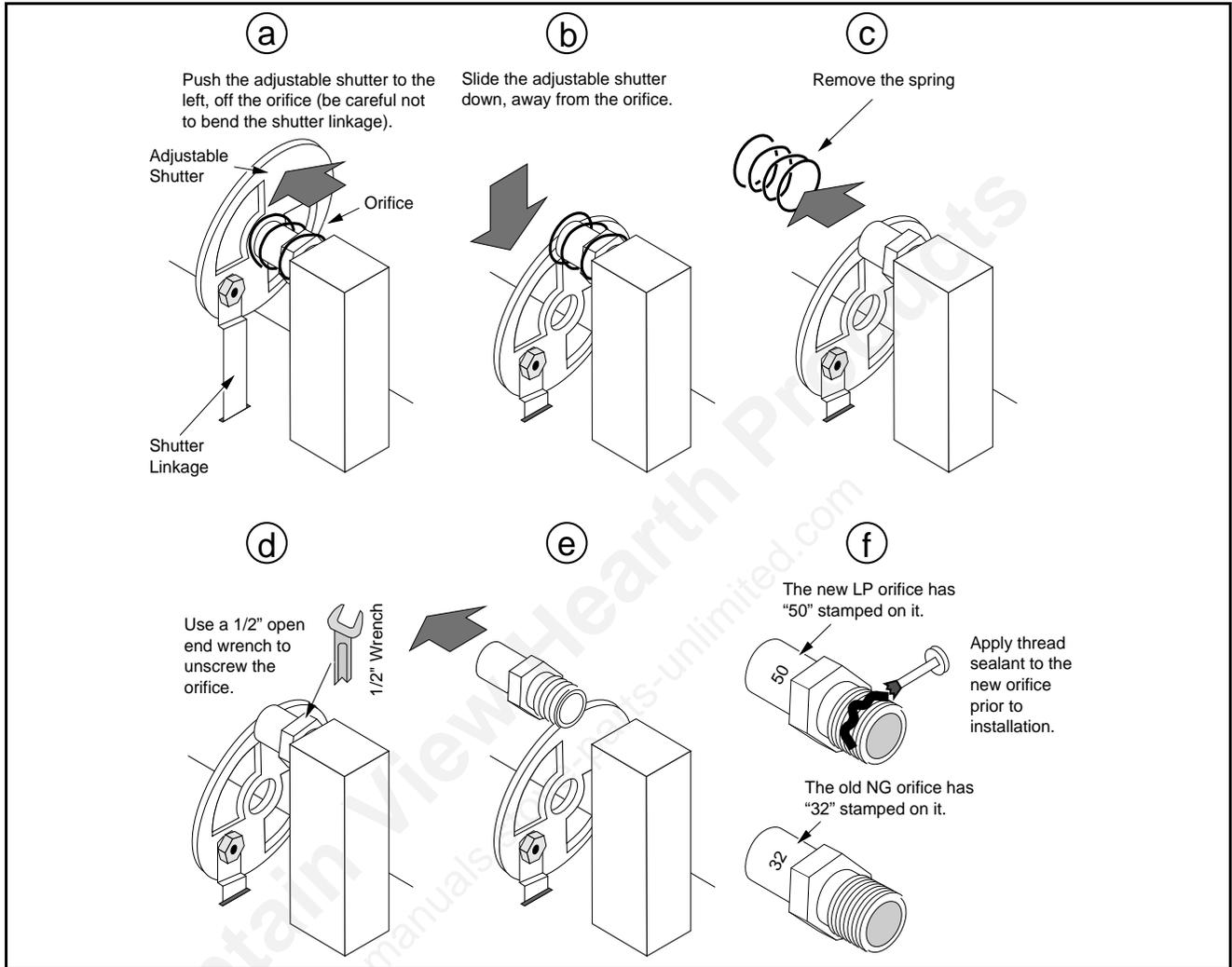
- 1 Open the door (see page 26).
- 2 Reach into the firebox and remove the rear log shelf (see the illustration below).



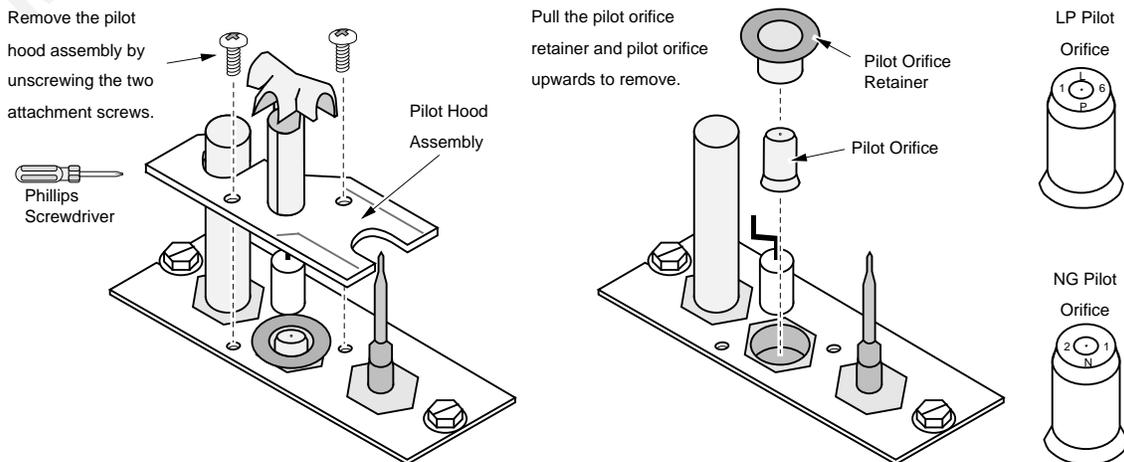
3 Remove the burner pan from the burner pan box following the instructions below.



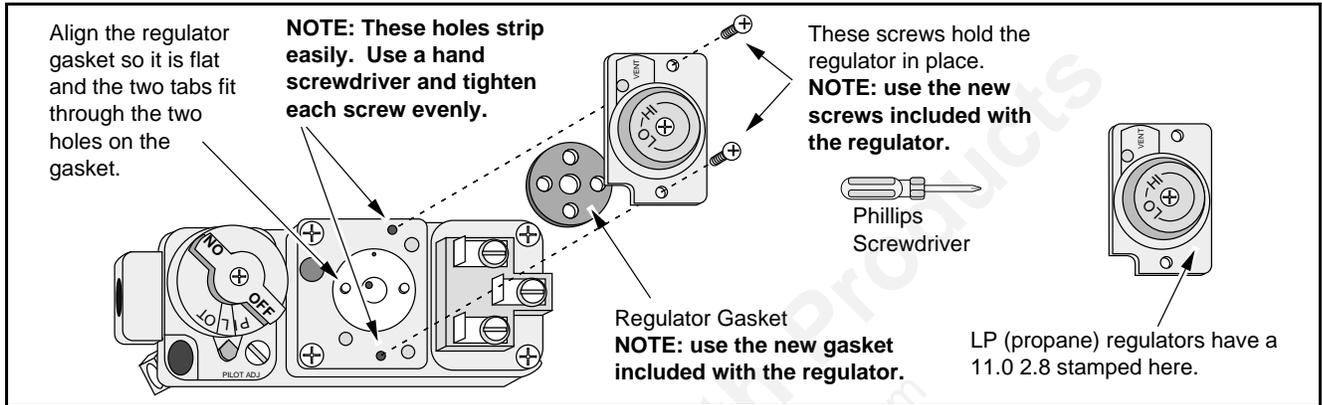
- 4 Follow the directions below to remove the natural gas orifice. Apply thread sealant to the LP orifice (#50 - it has "50" stamped on it) and tighten in place with a 1/2" open end wrench. Replace the spring. Slide the adjustable shutter back in place. Push the adjustable shutter to the left, off the orifice (be careful not to bend the shutter linkage).



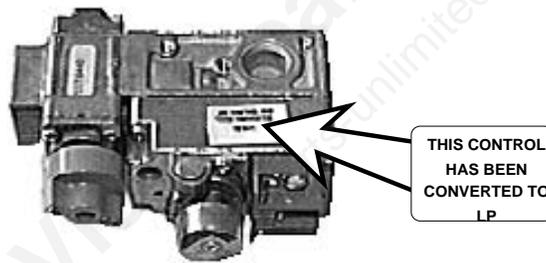
- 5 Re-attach the burner pan and burner box front to the burner pan box following the instructions in step 3 in reverse order.
- 6 Remove the pilot orifice following the instructions below. Replace with the propane pilot orifice (the LP orifice is .016" diameter - it has "16" stamped on it).



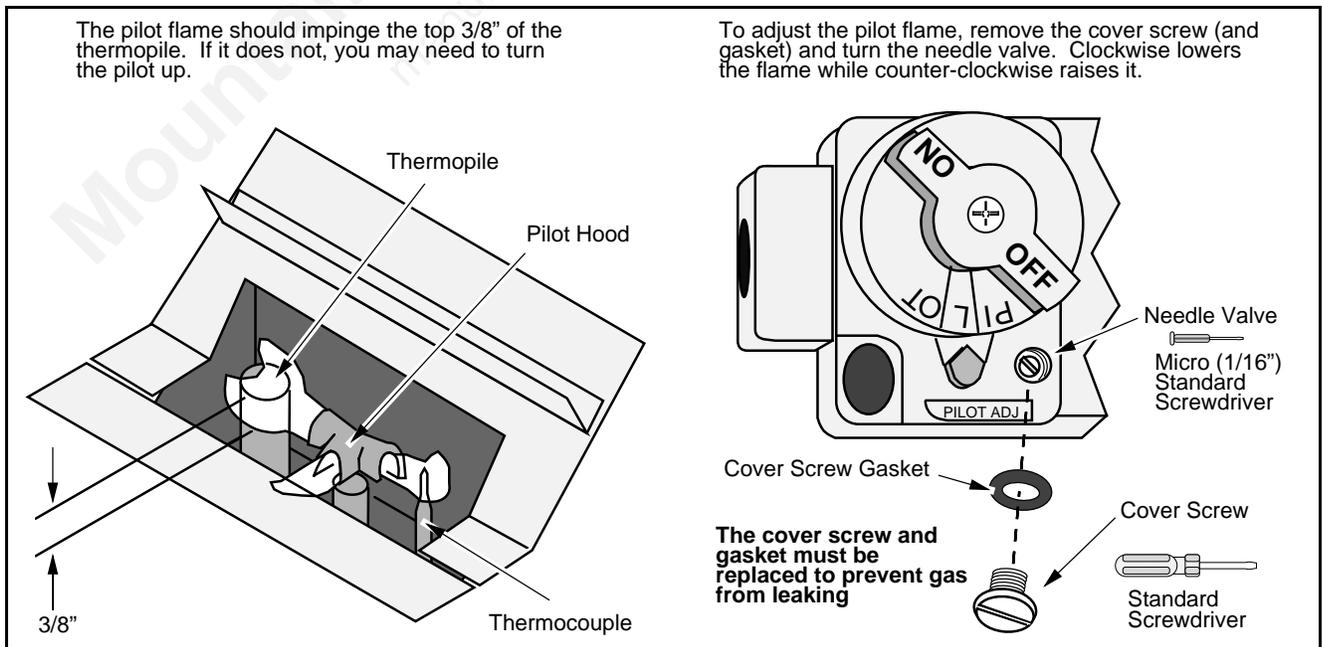
- 7 Replace the pilot assembly (follow the instructions in step 6 in reverse order). Make sure the pilot assembly gasket is placed correctly.
- 8 Replace the rear log shelf (see step 2). Install the logs and embers. Close and secure the door.
- 9 Remove the regulator from the front of the gas control valve. Replace with the propane regulator, using the new gasket and screws included with the regulator. **NOTE: Leak test this area after the heater is installed, gas is connected, and the main burner is lit.**



- 10 Place the included propane label over the natural gas label on top of the gas control valve.

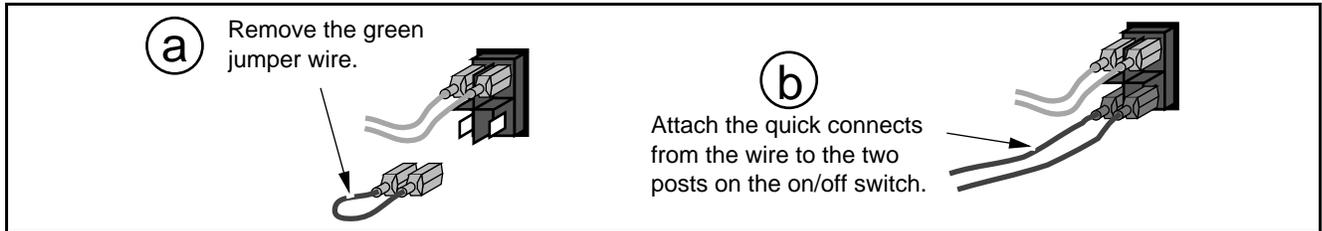


- 11 Make the gas line connection, start the heater and thoroughly leak-test all gas connections and the regulator. Check the pilot. Adjust if necessary.

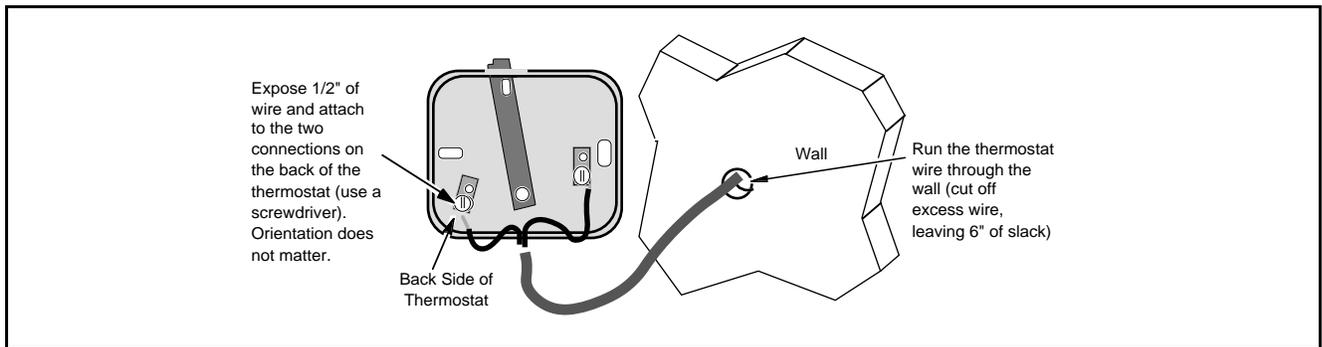


**Thermostat (Part # 99300650)**

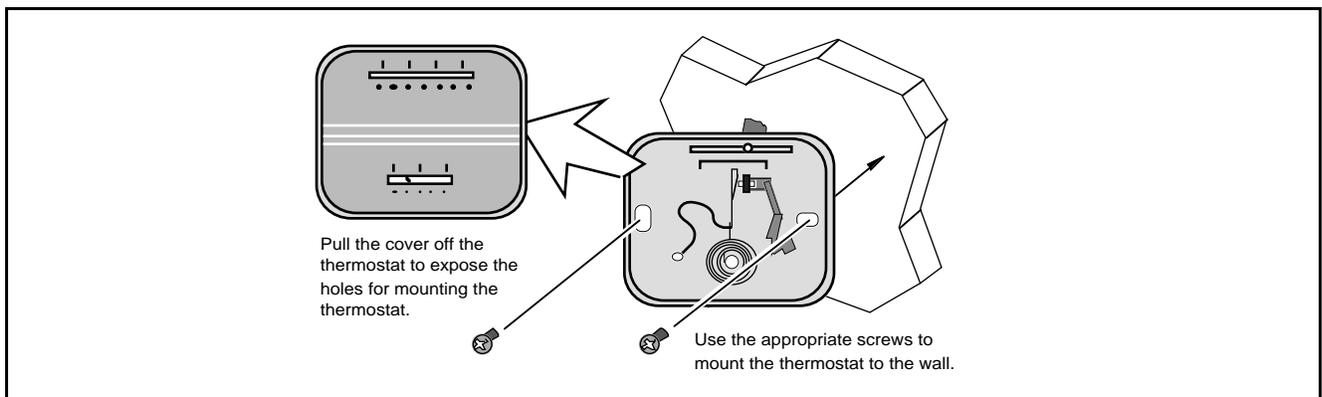
- ! Do not connect 120 VAC to the gas control valve or wiring of this unit.
- 1 Expose the back of the on/off switch (on inserts it is on the upper right corner of the surround panels, on stoves it is on the upper left corner of the rear panel). Remove the green jumper wire and attach the thermostat wire to the back of the on/off switch (see the illustration below).



- 2 On stoves, route the thermostat wire through the gas inlet hole. For inserts, run the thermostat wire behind the surround panels. Pull through all the slack (you may wish to wrap the wire in electrical tape to prevent damage to the wire). Determine a location for the thermostat that is within range of the 50' length of thermostat wire. It should be centralized in the room and away from the heater. The wire may be routed externally on the wall or behind the wall (preferred).
- 3 Cut the thermostat wire so there is approximately 6" of slack (NOTE: Do not splice thermostat wires together—this leads to too much electrical resistance). Expose 1/2" off each wire of the thermostat wire. Attach the exposed wire to the clips on the back of the thermostat using a screwdriver.



- 4 Pull the cover off the thermostat. Place the thermostat in location and attach it to the wall through the two obround holes (use the appropriate screws for the type of wall it is being attached to). Replace the cover on the thermostat to complete the installation.



## **Remote Thermostat**

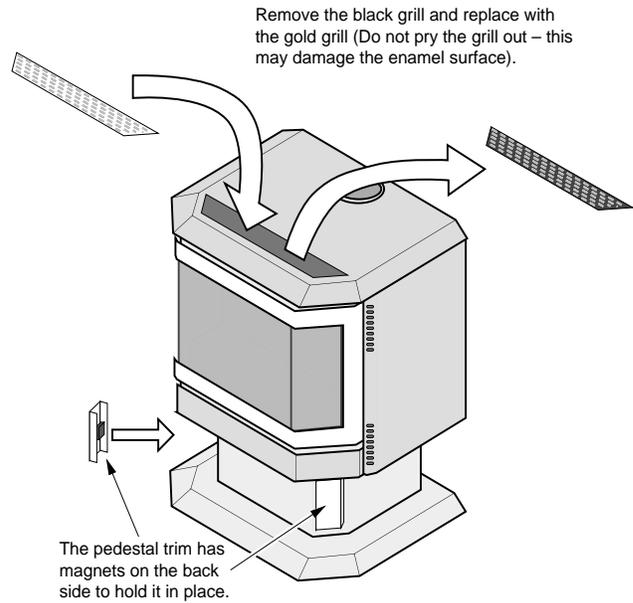
- ! Do not connect 110-120 VAC to the gas control valve or wiring system of this unit.
- Follow the instructions included with the remote thermostat for installation.

### **IMPORTANT OPERATIONAL NOTE FOR REMOTE THERMOSTAT USE:**

Included with the remote thermostat is a set of instructions that should be given to the homeowner. Please be aware that the remote thermostat has a 1 to 2 minute lag time between the time the thermostat is turned up and the heater turns on.

**vanti Gold Trim (Part # 99200116)**

- 1 Install the stove shell prior to installing the gold trim.
- 2 Place the pedestal trim against the pedestal. Slide the trim until it is aligned. The magnets on the back of the trim will hold them in place.
- 3 Remove the black grill from the upper stove top. Replace with the gold grill.
- ! Do not pry the grill out – this may cause chipping or cracking on enamel surfaces.



## ADDENDUM #1 Altitude Considerations

This heater has been tested at altitudes ranging from sea level to 8,000 feet (2,400 M). In this testing we have found that the fireplace, with its standard orifice, burns correctly with just an air shutter adjustment. For information on adjusting the air shutter see page 29 of this manual.

**! Failure to adjust the air shutter properly may lead to improper combustion which can create a safety hazard. Consult your dealer or installer if you suspect an improperly adjusted air shutter.**

## ADDENDUM #2 Class A Chimney Conversion Kit

Simpson Duravent provides a conversion kit for those wishing to use an existing wood stove chimney to vent this direct vent stove. The illustration below gives an overview of this type of installation. See the instructions included with the kit for details.

**! The conversion kit does not work on interior masonry chimneys.**  
**! Do not exceed the maximum vertical rise (see the section "Approved Vent Configurations" starting on page 13) allowable. Remember to set the restrictor position to the correct position (based upon the vertical rise height - see the chart on page 14).**

### Chimney Conversion Kit A (# 931)

Metalbestos 6" (150 mm) I.D.  
 Security Chimneys 6" (150 mm) I.D.  
 Jackes-Evans 6" (150 mm) I.D.  
 Hart & Cooley 6" (150 mm) I.D.  
 Pro-Jet 6" (150 mm) I.D.

### Chimney Conversion Kit B (# 932)

Simpson Dura-Vent 6" (150 mm) I.D.  
 Air-Jet 6" (150 mm) I.D.  
 Metal-Fab 6" (150 mm) and 7" (175 mm) I.D.  
 Amer. Metals 6" (150 mm) & 7" (175 mm) I.D.  
 Metalbestos 7" (175 mm) and 8" (200 mm) I.D.  
 Jackes-Evans 7" (175 mm) and 8" (200 mm) I.D.  
 Hart & Cooley 7" (175 mm) and 8" (200 mm) I.D.  
 Pro-Jet 7" (175 mm) and 8" (200 mm) I.D.  
 Security Chimneys 8" (200 mm) I.D.

### Chimney Conversion Kit C (# 933)

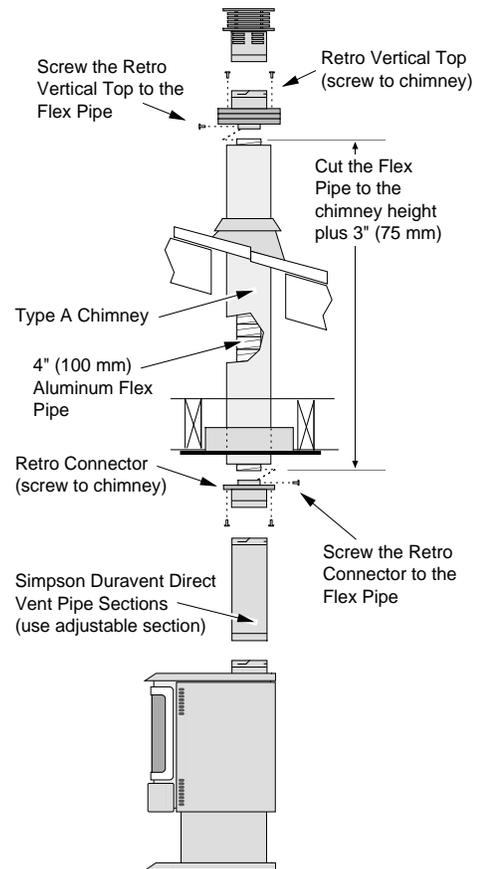
Simpson Dura-Vent 7" (175 mm) and 8" (200 mm) I.D.  
 American Metals 8" (200 mm) I.D.  
 Air-Jet 8" (200 mm) I.D.  
 Metal-Fab 8" (200 mm) I.D.  
 American Metals 8" (200 mm) I.D.

### Each Kit Contains:

Retro Connector  
 Retro Vertical Top

### Additional Equipment:

4" Flex (#711 or U.L. 1777)  
 Termination (#991)  
 Co-Axial Sections

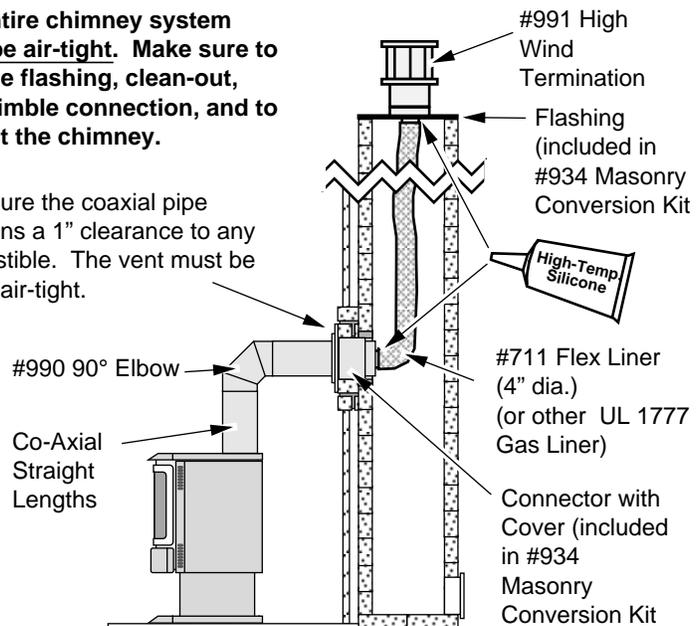


## ADDENDUM #3 Interior Masonry Chimney Conversions

- Follow the requirements and use the equipment listed in the illustration to the right to install this appliance into an interior masonry chimney.
- Maximum vertical rise is 30'
- Minimum vertical rise is 10'
- Use the following restrictor positions:  
 Position 7 for heights between 10' (3 M) and 24' (7.3 M)  
 Position 5 for heights between 24' (7.3 M) and 30' (9.1 M)  
**NOTE:** these restrictor positions are based upon lab tests. The ideal restrictor position may vary slightly.

**The entire chimney system must be air-tight. Make sure to seal the flashing, clean-out, and thimble connection, and to inspect the chimney.**

Make sure the coaxial pipe maintains a 1" clearance to any combustible. The vent must be sealed air-tight.



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