

# INSTALLATION INSTRUCTIONS

Flip manual over for "Operating and Maintenance Instructions."

## CALIBER SERIES DIRECT VENT SERIES DECORATIVE GAS APPLIANCE



36" and 42" Series

For Residential Use - Meets All HUD  
Requirements For Manufactured  
Housing Installations

U.S. Patent 5,613,487

This appliance has been retired.  
Service parts pages within have been removed.  
For replacement parts, please refer to the individual  
service parts list located on the brand websites.



Read these installation instructions completely  
before beginning installation. Failure to follow  
them could cause an appliance malfunction result-  
ing in serious injury and/or property damage.

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#### FOR YOUR SAFETY

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.

#### FOR YOUR SAFETY

Do not store or use  
gasoline or other  
flammable vapors  
and liquids in the  
vicinity of this or any  
other appliance.

#### WARNING:

Improper installation,  
adjustment, alteration,  
service or mainte-  
nance can cause  
injury or property  
damage. Refer to this  
manual. For assis-  
tance or additional  
information, consult a  
qualified installer, ser-  
vice agency or the gas  
supplier.

## A. PREPARATION

### U.S. and Canada Certification

The CALIBER Series Gas Appliance has been tested in accordance with the ANSI standard Z21.50-1996 (Decorative). In Canada, the current CAN/CGA 2.22-M96, IR41, P4, and IR55 and have been LISTED by Underwriters Laboratories Inc. for installation as described in this manual. All components are UL, AGA, CGA or CSA safety certified.

### Local Codes

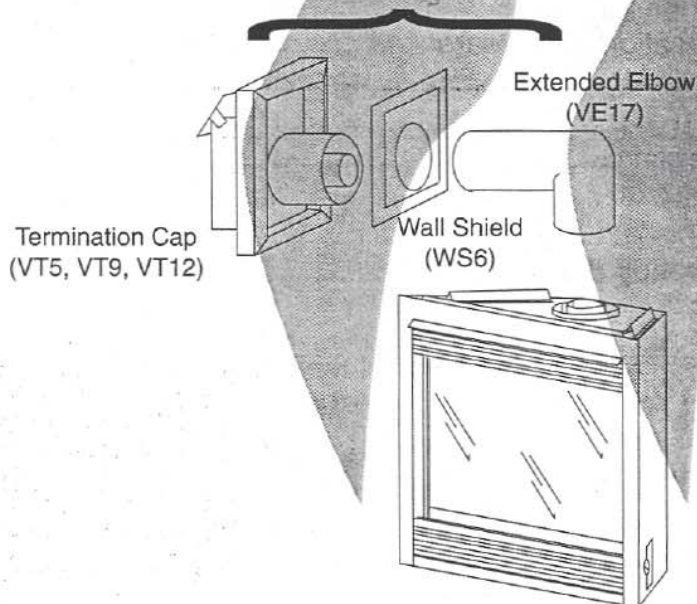
This installation must conform with local codes. In the absence of local codes comply with the National Fuel Gas Code, ANSI Z223.1-latest edition, in the U.S.A. and the CAN/CGA B149, Installation Codes, in Canada.

A manufactured home (mobile home) installation must conform with the *Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280*, or when such a standard is not applicable, the *Standard for Manufacturer Home Installations, ANSI A225.1*.

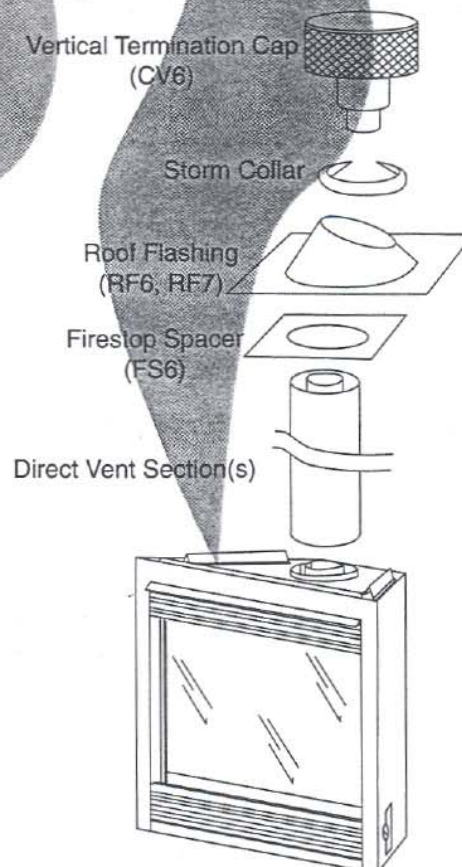
For assistance during installation contact your local dealer or contact Heatilator Customer Relations Department, 1915 W. Saunders Street, Mt. Pleasant, Iowa 52641.

HEATILATOR® is a registered trademark of Hearth Technologies, Inc., a HON INDUSTRIES company.

### Typical Horizontal Installations Termination Kits (VT5K, VT9K, VT12K)



### Typical Vertical Installations



**Note:** Minimum and maximum clearances must be maintained at all times. Illustrations throughout these instructions reflect typical installations and are for design purposes only. Actual installation may vary slightly due to individual design preferences.

The illustrations and diagrams used throughout these installation instructions are not drawn to scale.

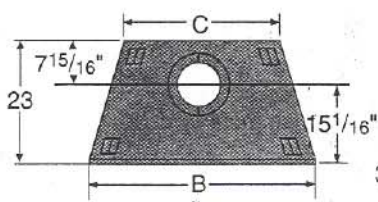
**Tools and building supplies normally required for installation:**

Saw	Wall-finishing materials
Pliers	Framing material
Hammer	Fireplace surround
Phillips screwdriver	Caulking material
Tape measure	Gloves
Plumb line	Square
Level	Electrical drills/bits

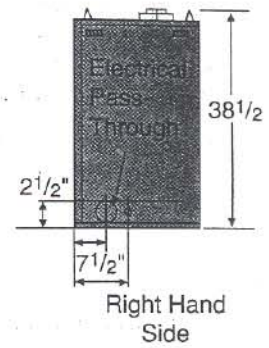
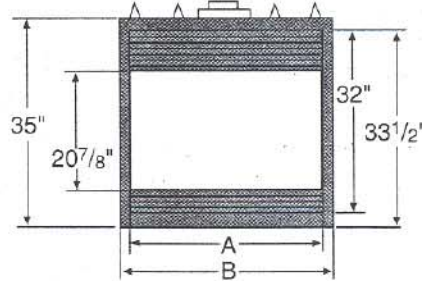
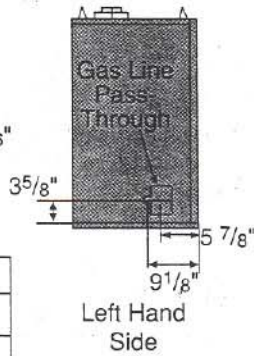
## CALIBER Nomenclature

Catalog Number	Description
<b>GCDC36LE</b>	<b>Appliance Order Code Number</b>
GC	Gas CALIBER
D	Direct Vent
C	Circulating
36	36" - 36" Unit 42" - 42" Unit
LE	No suffix - Standing Pilot, Natural Gas L - Standing Pilot, Propane Gas E - Electronic Ignition, Natural Gas LE - Electronic Ignition, Propane Gas
<b>GCDC36LERF</b>	<b>Appliance Order Code Number with Upgrade Code Number</b>
R	Refractory Upgrade
F	Fan Kit Upgrade
<b>GCDC36LERF</b>	<b>EXAMPLE:</b> Gas CALIBER, Direct Vent, Heat Circulating, 36", Propane Gas, Electronic Ignition unit with Refractory and Fan Kit Upgrades.
Installation Components	Description
CS	Direct vent cap shield for horizontal termination only
CV7	Vertical termination cap
VSS3	Vinyl soffit shield
EL45	45° elbow
VE12 (15942)	Starter elbow (if elbows used, VE12 or VE17 must be first elbow)
VE17	Extended Elbow
RF6	Roof flashing (vertical termination)
TB1	Basement vent kit
VK5	90° elbow
VK6	6" length vent pipe
VK12	12" length vent pipe
VK24	24" length vent pipe
VK36	36" length vent pipe
VK48	48" length vent pipe
VS4	Vertical vent support
VT1	Alternate Horizontal Cap
VT1X	Alternate Horizontal Cap
VT5, 9, or 12	Horizontal Telescoping Caps
VTK5	Horizontal termination kit including 5" cap, wall shield, VE17 elbow
VTK9	Horizontal termination kit including 9" cap, wall shield, VE17 elbow
VTK12	Horizontal termination kit including 12" cap, wall shield, VE17 elbow
WS6	Wall shield to ensure horizontal clearances
1234S	Steep Pitch Roof Flashing

## B. LOCATION AND CLEARANCES



Model	A	B	C
36" Series	36"	41"	24 1/2"
42" Series	42"	47"	30 1/2"



Unit Dimensions

**DUE TO HIGH TEMPERATURES, THE APPLIANCE SHOULD BE LOCATED OUT OF TRAFFIC AND AWAY FROM FURNITURE AND DRAPERIES.**

### 1. APPLIANCE LOCATIONS AND SPACE REQUIREMENTS

Figure 1 illustrates a variety of ways the appliance may be located in a room. The CALIBER Series may be installed directly on the floor or raised on a hearth. These appliances are certified for installation in a bedroom, bed/sitting room or in mobile homes in the U.S. and Canada.

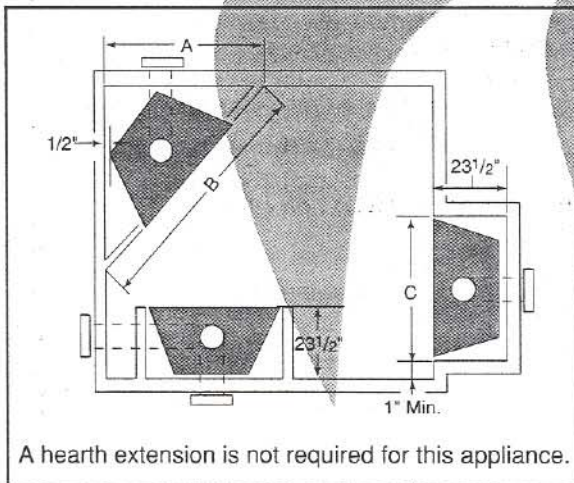


Figure 1  
Appliance Locations

Model	A	B	C
36" Series	50 5/8"	71 5/8"	42"
42" Series	55 1/4"	77 5/8"	48"

### 2. CLEARANCES

Figure 2 shows all clearances that must be maintained around the appliance. See page nine for termination cap clearances. See Figures 4 and 15 for vent clearances.

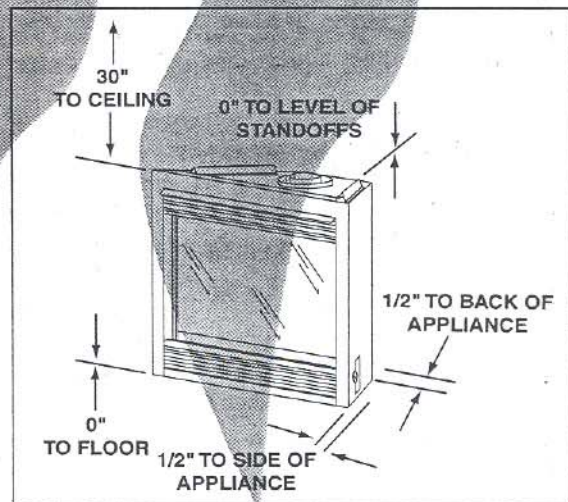

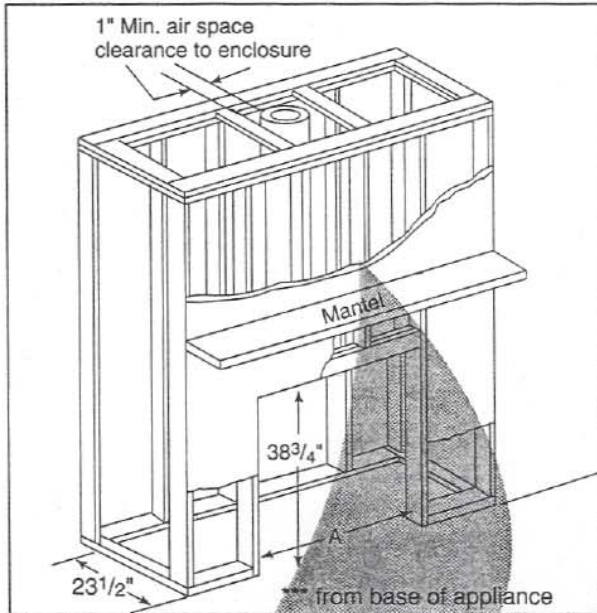


Figure 2  
Appliance Clearances to Combustible Materials

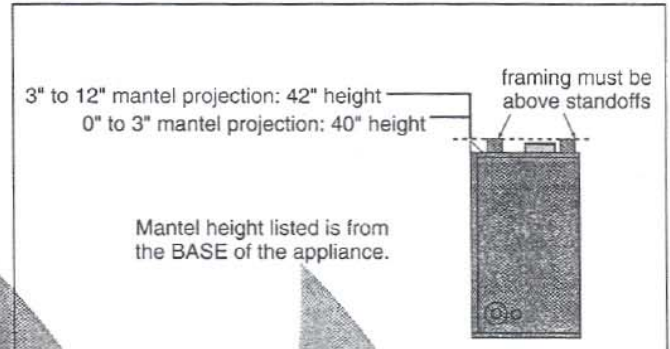
## C. FRAMING

 **Figure 3** shows a typical framing of this appliance using combustible materials. **Figure 3a** shows the height of a mantel. All required clearances to combustibles must be adhered to.



**Figure 3**  
Framing

Model	36" Series	42" Series
A	42 3/4"	48 3/4"



**Figure 3a**  
Framing

**CAUTION**  
WEAR GLOVES AND SAFETY GLASSES  
FOR PROTECTION.

**CAUTION**  
PROVIDE ADEQUATE CLEARANCES  
AROUND THE AIR OPENINGS INTO THE  
COMBUSTION CHAMBER AND ADEQUATE  
ACCESSIBILITY CLEARANCES FOR SER-  
VICING AND PROPER OPERATION.

## D. SETTING THE UNIT

### 1. Positioning the firebox

This appliance may be placed on a smooth combustible or noncombustible continuous, flat surface. When the appliance is installed directly on carpeting, tile or other combustible material other than wood flooring, the appliance shall be installed on a metal or wood panel extending the full width and depth of the appliance. Slide the unit into position and level the appliance from

side-to-side and front-to-back. Shim with noncombustible material as necessary.

Secure the appliance by bending out the nailing flanges on each side of the appliance and nail to framing. The nailing flanges have been positioned 5/8" back from the front of the unit to allow the addition of drywall.

## E. VENTING

- Horizontal Termination - see below
- Vertical Termination - see page 10

### 1. HORIZONTAL TERMINATION

a. Clearances - See Figure 4 for clearance information

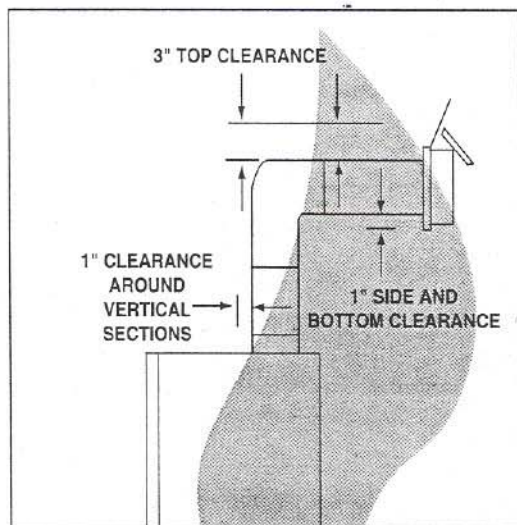


Figure 4  
Clearances

**WARNING - RISK OF FIRE!**  
THIS APPLIANCE MAY ONLY USE THE DIRECT VENT CHIMNEY SYSTEM DESIGNED FOR USE WITH THE UNIT AND MUST NOT BE CONNECTED TO A CHIMNEY FLUE SERVICING A SEPARATE SOLID FUEL OR GAS FUEL BURNING APPLIANCE.

**WARNING - RISK OF FIRE**  
IF YOU HAVE CHOSEN HORIZONTAL TERMINATION, BE SURE THERE ARE NO FUTURE OBSTRUCTIONS FROM TREES, BUSHES, SNOW DRIFTS, ETC.

### CAUTION

PROVISIONS SHALL BE MADE TO PROVIDE ADEQUATE COMBUSTION AND VENTILATION AIR.

b. Vent Lengths - Various venting configurations are shown in Figures 5 - 8 from which maximum vent lengths can be determined.

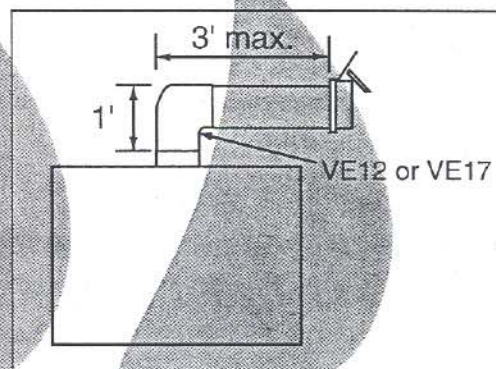


Figure 5  
Vent Lengths With One Elbow  
(minimum vertical)

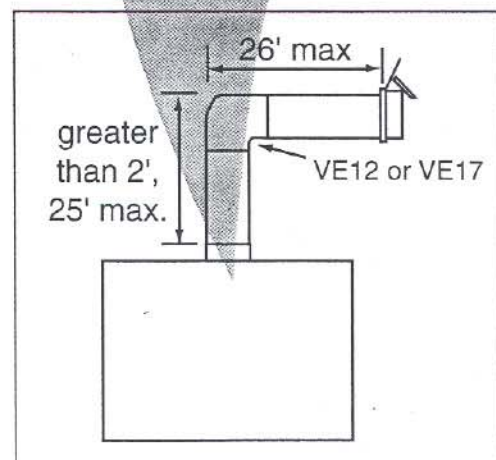
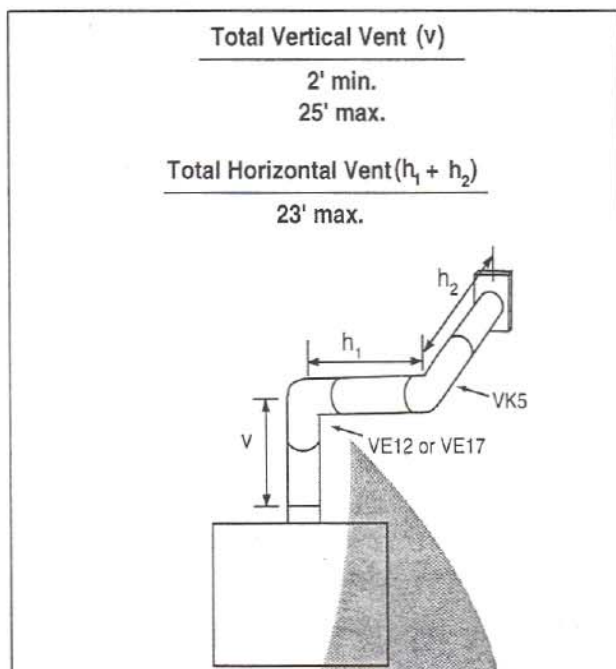
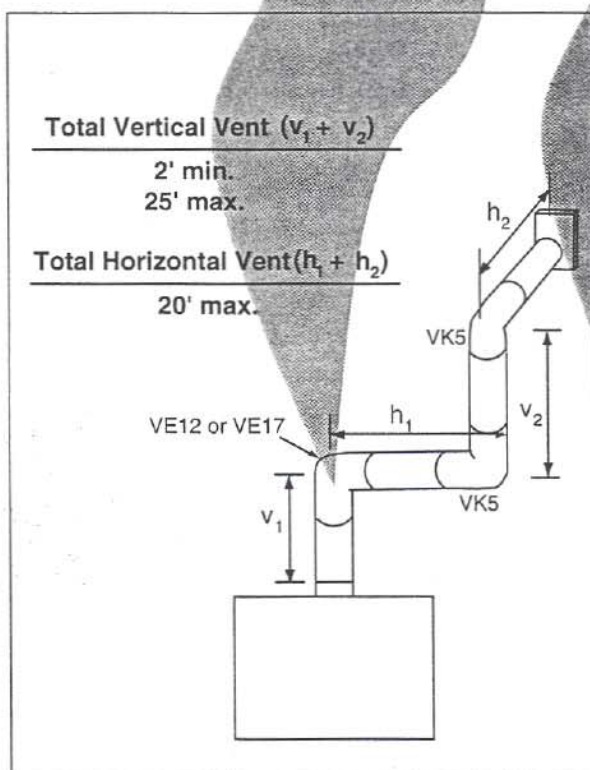


Figure 6  
Vent Lengths With One Elbow  
(2' vertical or more, 25' maximum)



**Figure 7**  
Vent Lengths With Two Elbows



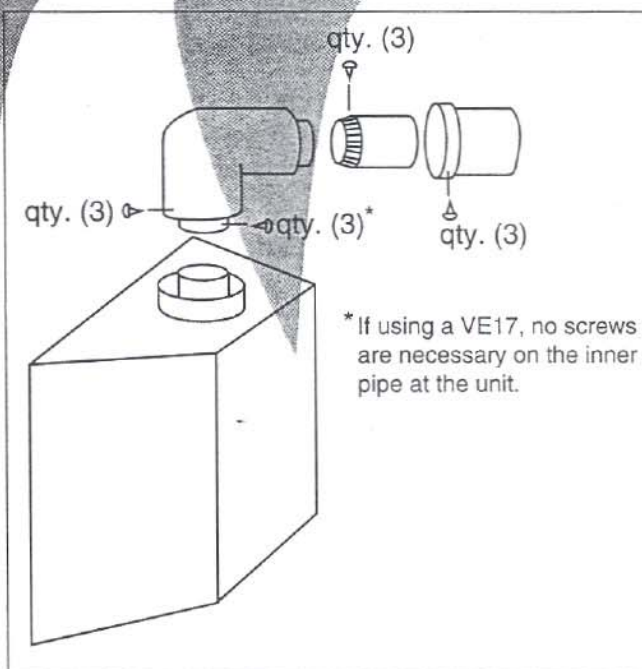
**Figure 8**  
Vent Lengths With Three Elbows

**WARNING - RISK OF FIRE!**  
ALWAYS MAINTAIN MINIMUM AIR SPACE CLEARANCES OR GREATER AROUND THE CHIMNEY SYSTEM. SEE FIGURE 4. DO NOT PACK AIR SPACES WITH INSULATION OR OTHER MATERIAL.

**WARNING:**  
THE HORIZONTAL RUN OF VENT MUST HAVE A 1/4" RISE FOR EVERY 1 FT. OF RUN TOWARDS THE TERMINATION. NEVER ALLOW THE VENT TO RUN DOWNWARD. THIS COULD CAUSE HIGH TEMPERATURES AND MAY CREATE A FIRE HAZARD.

Note: Horizontal runs will require the use of one Vent Support (or plumbers strap) for every 3' of vent.

c. **Assembling Chimney Sections.** Figures 9 and 10 show how to install a typical vent system. Use only pipe supplied and listed for use with this appliance. See page three for a description of listed components. All inner flue and outer flue joints need 3 screws.



**Figure 9**  
Assembling Horizontal Chimney Sections

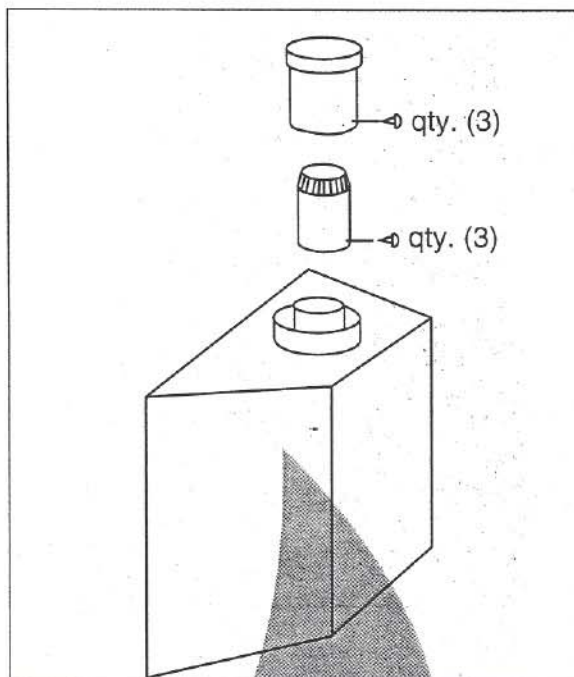


Figure 10

#### Assembling Vertical Chimney Sections

**d. Installing the interior wall shield.** Frame a hole in a combustible wall for an interior wall shield, as shown in Figure 11 whenever a wall is penetrated. This shield maintains minimum clearances and prevents cold air infiltration.

The termination cap height must meet all local and national codes and not be easily blocked or obstructed.

If the wall being penetrated is of noncombustible materials, a nine inch diameter hole is acceptable.

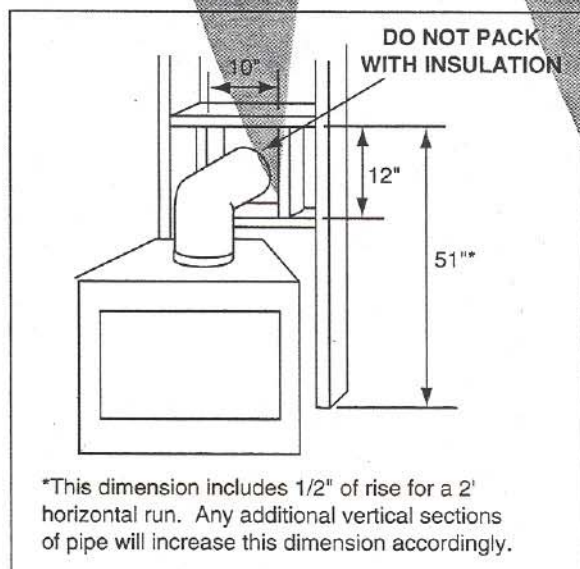


Figure 11  
Exterior Wall Hole

**Note:** Exterior wall thickness must be a minimum of 4" to a maximum of 23½".

Secure the shield to the framing as shown in Figure 12.

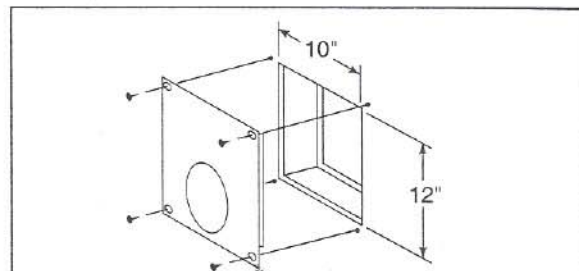


Figure 12  
Interior Wall Shield

The last section of vent may require cutting, depending upon wall thickness and appliance location. The cap should overlap the vent sections by at least 1 1/2 inches. See Figure 13.

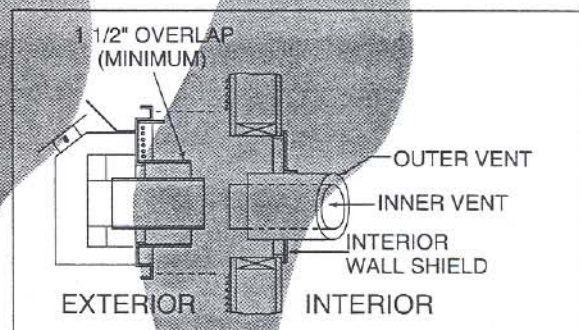


Figure 13  
Venting Through the Wall

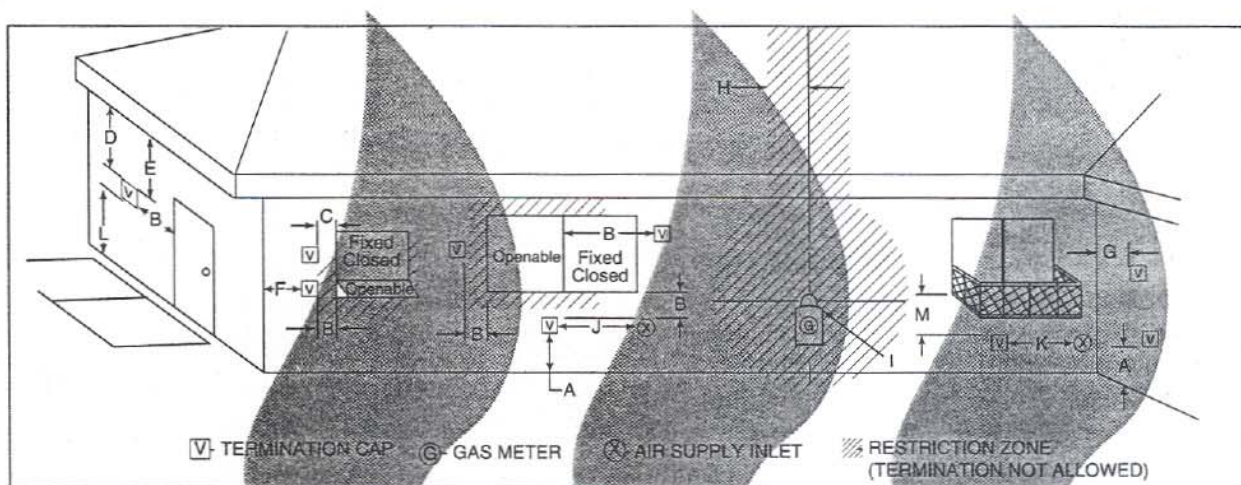
**WARNING - RISK OF FIRE!**  
ALWAYS MAINTAIN MINIMUM AIR SPACE CLEARANCES OR GREATER AROUND THE APPLIANCE AND CHIMNEY SYSTEM.

**CAUTION**  
A Vinyl Soffit Shield (VSS2) should be installed if a cap is within 30" of a vinyl soffit.

**e. Termination.** Vent termination must not be recessed in the wall. Siding may be brought to the edge of the cap base. Install the cap as shown in *Figure 13*. Cap pipe sections should overlap the vent pipe by 1 1/2 inches. Caulk outside edges of cap.

Local codes may require the installation of a shield (product number CS) which prevents anything or anyone from touching the hot cap.

*Figure 14* illustrates cap locations prescribed by current ANSI Z273.1 and CAN/CGA-B149 Installation Codes.



**Figure 14 - Termination Cap Locations**

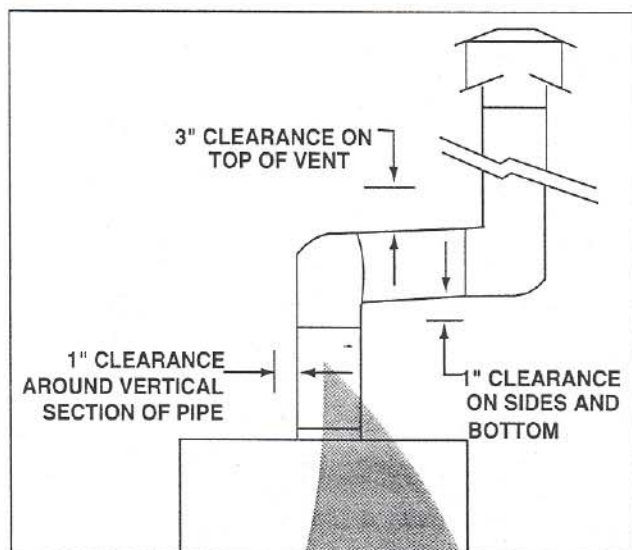
**Dimension Descriptions**

- A** = Clearance above the ground, a veranda, porch, deck, or balcony - **12 inches (30 cm) minimum.**
- B** = Clearance to window or door that may be opened - **9 inches (30 cm) minimum (12 inch minimum in Canada).**
- C** = Clearance to permanently closed window - **12 inches (30 cm) minimum**- recommended to prevent condensation on window.
- D\*** = Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 feet (60 cm) from the center-line of the terminal - **18 inches (46 cm) minimum.**
- E\*** = Clearance to unventilated soffit - **12 inches (30 cm) minimum.**
- F** = Clearance to outside corner - **6 inches as tested.**
- G** = Clearance to inside corner - **6 inches as tested.**
- H\*** = Not to be installed above a meter/regulator assembly **within 3 feet (90 cm) horizontally** from the center-line of the regulator.
- I\*** = Clearance to service regulator vent outlet - **6 feet (1.8 m) min.**
- J** = Clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance - **12 inches (30 cm) minimum.**

- K\*** = Clearance to mechanical air supply inlet - **6 feet (1.8 m) minimum.**
- L\*** = Clearance above a paved sidewalk or paved driveway located on public property - **7 feet (2.1 m) minimum. Use of a CS will reduce this dimension to as low as 12 inches (30 cm).**
- M#** = Clearance under veranda, porch deck, or balcony - **12 inches (30 cm) minimum.**
- +** A vent must not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings.
- #** Only permitted if veranda, porch deck, or balcony is fully open on a minimum of 2 sides beneath the floor.
- As specified in Installation Codes. Note: Local codes or regulations may require different clearances.
- \*** Distance required for vinyl soffit materials - **30 inches (76 cm) minimum.**  
Distance required for vinyl soffit materials with the use of a vinyl soffit shield - **18 inches (46 cm) minimum.**
- ⌘** As specified in CGA B149 Installation Codes (1991). Note: Local Codes or Regulations may require different clearances.

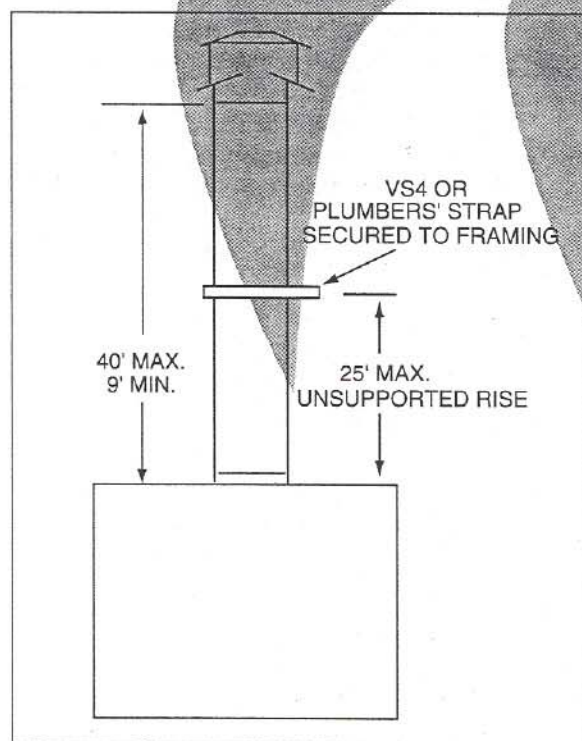
## 2. VERTICAL TERMINATION

a. **Clearances.** See Figure 15 for clearance information.

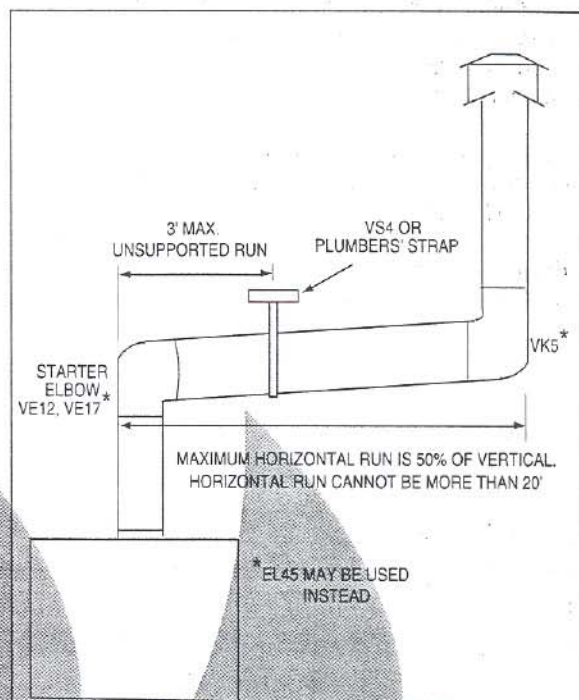


**Figure 15**  
Vertical Termination Clearances

b. **Vent Lengths.** Various venting configurations are shown in Figures 16 and 17 from which maximum vent runs can be determined.



**Figure 16**  
Vertical Termination Vent Lengths



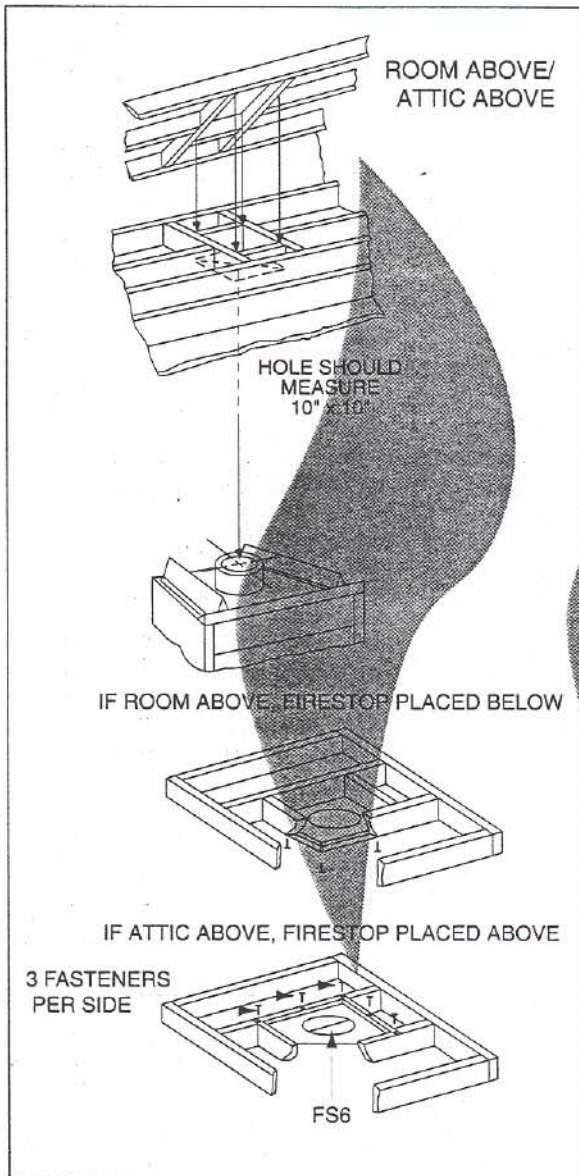
**Figure 17**  
Vertical Termination Vent Lengths

**WARNING - RISK OF FIRE!**  
ALWAYS MAINTAIN MINIMUM CLEARANCES OR GREATER AROUND THE CHIMNEY SYSTEM. DO NOT PACK AIR SPACES WITH INSULATION OR OTHER MATERIAL.

**WARNING:**  
THE HORIZONTAL RUN OF VENT MUST HAVE A 1/4" RISE FOR EVERY 1 FT. OF RUN TOWARDS THE TERMINATION. NEVER ALLOW THE VENT TO RUN DOWNWARD. THIS COULD CAUSE HIGH TEMPERATURES AND MAY CREATE A FIRE HAZARD.

**c. Firestop Spacer/Chimney Installation.**

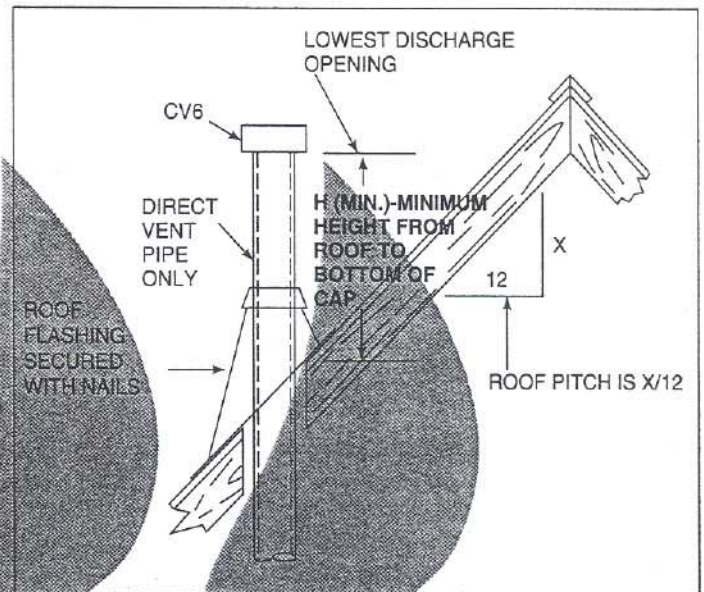
Frame an opening and install a firestop spacer (FS6) whenever the vent penetrates a ceiling/floor area, as shown in Figure 18. Frame the opening with the same sized lumber as used in the ceiling/floor joists. Unless the flue is offset, the hole should be directly above the appliance. DO NOT pack insulation around the chimney. Assemble chimney sections with three screws per joint.



**Figure 18**  
Installing the firestop spacer

**d. Chase/Termination Installation.** Figure 19 and Table 1 specify minimum chimney heights for various pitched roofs. Chimney sections may have to be cut to a certain length.

These chimney heights are necessary for safety and do not ensure draft-free operation. Trees, buildings, adjoining roof lines, adverse conditions, etc., may create a need for a taller chimney should down draft occur.



**Figure 19**  
Chimney Height for Vertical Termination

Roof Pitch	H (Min.) Ft.
Flat to 6/12	1.0
6/12 to 7/12	1.25
Over 7/12 to 8/12	1.5
Over 8/12 to 9/12	2.0
Over 9/12 to 10/12	2.5
Over 10/12 to 11/12	3.25
Over 11/12 to 12/12	4.0
Over 12/12 to 14/12	5.0
Over 14/12 to 16/12	6.0
Over 16/12 to 18/12	7.0
Over 18/12 to 20/12	7.5
Over 20/12 to 21/12	8.0

**Table 1**  
Chimney Height

**Note:** To ensure proper operation, verify all venting and the termination is unobstructed.



## F. UTILITIES

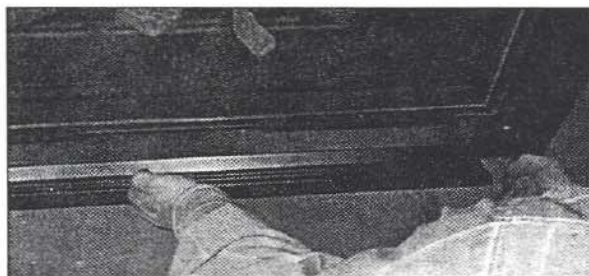
### 1. High Altitude Installation

For U.S. installation, units are tested and approved for elevations from 0-2000 feet. When installing this unit at an elevation above 2000 feet, National Fuel Gas Codes require a decrease of the input rating by changing the existing burner orifice to a smaller size. Input should be reduced 4% for each 1000 feet above sea level. Check with the local gas utility for proper orifice size identification.

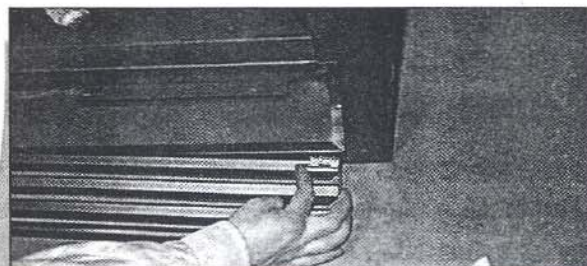
For Canada, units are certified for elevations from 0-4500 feet. When installing this unit at an elevation between 0-4500 feet in Canada, the input rating does not need to be reduced. When installing this unit at an elevation above 4500 feet in Canada, check with local authorities.

### 2. Gas Line Connection

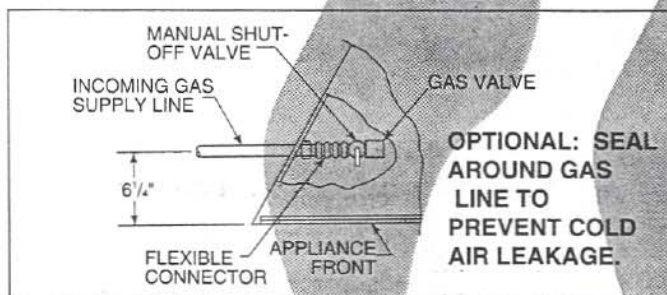
Remove the lower grille panel as shown in *Figures 20A* and *20B*. See *Figure 21* to connect gas line. All connections must be checked for leaks with a soap and water solution or a leak detector. Bleed the gas line to extract any air that may have been trapped inside the pipe.



**Figure 20A**  
Lower Grille Panel Removal



**Figure 20B**  
Lower Grille Panel Removal



**Figure 21**  
Gas Line

**Note:** The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psi (3.5 kPa). The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psi (3.5 kPa).

### 3. Gas Pressure

On the standing pilot Gas Control Valve, a pressure tap is included on the front face of the Valve. The electronic Valve includes an 1/8" NPT plugged tap on the top and bottom of the Valve near the outlet to the main burner. Pressure taps are immediately upstream of the gas supply connection and accessible for test gauge connection.

*Table 2* shows optimum gas pressure information.

Consult your local gas company for assistance in determining the proper orifice for your altitude or refer to ANSI Z223.1-latest edition, Appendix F.

### 4. Gas Conversions

Natural or propane gas conversions necessary to meet the application need to be made by a qualified technician using Heatilator specified and approved parts.

In the event your appliance must be converted to use propane, you must use a CKVP Conversion Kit. To convert to use natural, you must use a CKVN Conversion Kit.

CALIBER 36" and 42"	
Inlet gas supply pressure (natural gas)	4.5 (min.)-7.0 (max.) in w.c.
Optimum manifold pressure (natural gas)	3.5 in. w.c.
Inlet gas supply pressure (LP gas)	11.0 (min.)-14.0 (max.) in w.c.
Optimum manifold pressure (LP gas)	10.5 in. w.c.
Input rate (natural gas)	30,000 BTU/hr
Input rate (propane gas)	28,000 BTU/hr
Decorative - Natural Gas Orifice size	.110 in/ 2.79 mm
Decorative - Propane Gas Orifice Size	.063 in/ 1.60 mm

**Table 2**  
Gas Information for Electronic and Standing Pilot Units

### 3. Wiring

#### A. ELECTRONIC IGNITION

**1. Appliance Requirements.** This appliance requires a 110VAC supply from a wall switch to the appliance junction box for operation. A wiring diagram is shown in Figure 22.

**2. Optional Accessories Requirements.** Wiring for optional accessories should be done now to avoid reconstruction.

**Note:** This appliance must be electrically wired and grounded in accordance with local codes or, in the absence of local codes, with National Electric Code ANSI/NFPA 70-latest edition or the Canadian Electric Code, CSA C22.1.

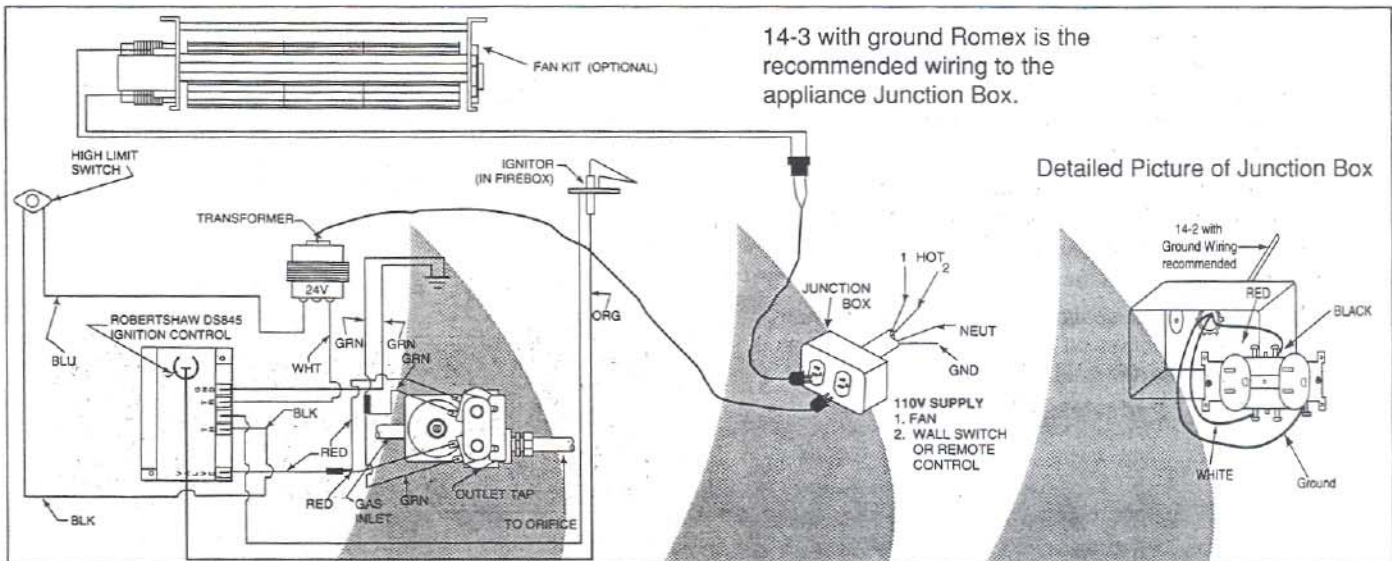


Figure 22 - Electronic Ignition Wiring Diagram

#### B. STANDING PILOT IGNITION

**1. Appliance requirements.** A wiring diagram is shown in Figure 23.

**2. Optional Accessories Requirements.** Wiring for optional accessories should be done now to avoid reconstruction.

#### WARNING:

This appliance **DOES NOT** require a 110VAC supply for operation. Connecting the appliance/wall switch to a 110V AC supply will cause the unit to malfunction and destroy the valve and thermopile.

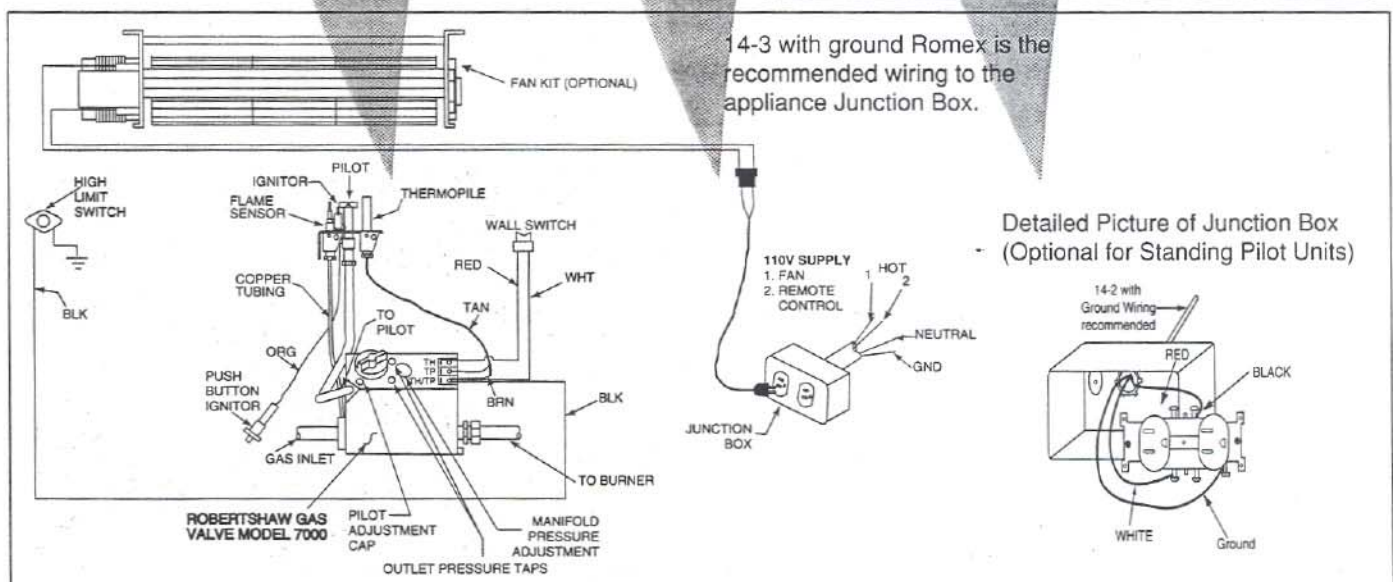


Figure 23 - Standing Pilot Ignition Wiring Diagram

## G. FINISHING

**Combustible Finishing Material.** Material made of or surfaced with wood, compressed paper, plant fibers, plastics, or any material capable of igniting and burning, whether flame proofed or not, plastered or unplastered.

**Noncombustible Finishing Material.** Material which will not ignite and burn. Such materials are those consisting entirely of steel, iron, brick, tile, concrete, slate, glass or plasters, or combination thereof, or have a UL Fire rating of Zero (0).

**High Temperature Sealant Material.** Sealants that will withstand high temperatures; General Electric RTV103 (Black), or equivalent; Rutland, Inc. Appliance Mortar #63, or equivalent.

A high temperature sealant,  $\frac{1}{8}$ " inch wide minimum, must be used to close off gaps between the appliance and facing to prevent cold air leaks. See Figure 24. See Figure 3 for dimensions for a mantel.

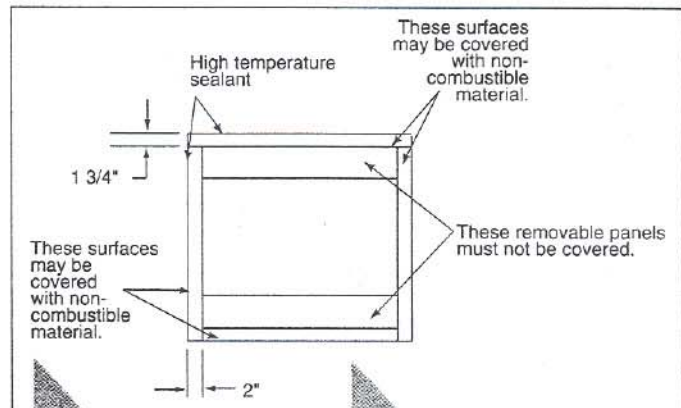


Figure 24 - Finishing Materials

**WARNING:**  
GRILLES ON THIS APPLIANCE CANNOT, IN ANY WAY, BE COVERED AS IT MAY CREATE A FIRE HAZARD!

## H. FIREBOX PREPARATION

### 1. Upper Panel Removal

Lift upward on the upper panel and pull out.

### 2. Attaching the Hood

Hood must be attached, or a fire hazard may result. The hood is to be located above the upper grille panel. Locate the four screws just inside the upper section of the fireplace. Loosen these screws, position the hood and tighten the screws. See Figure 25.

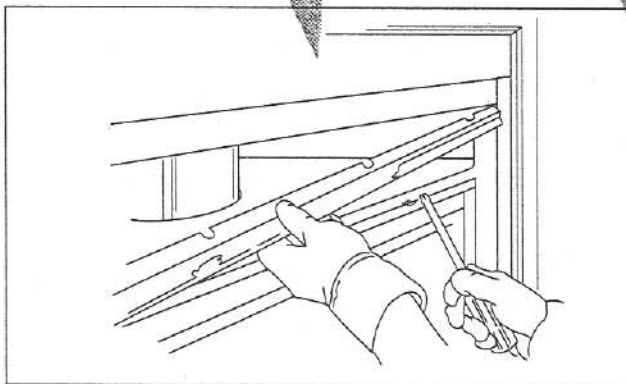


Figure 25  
Hood Placement

### 3. Glass and Screen Removal

See page seven of the "Operating and Maintenance Instructions."

### 4. Firebox Preparation

Remove the straps from the screws on the hearth pan. Remove the foam material. The log set should look similar to that in Figure 26.

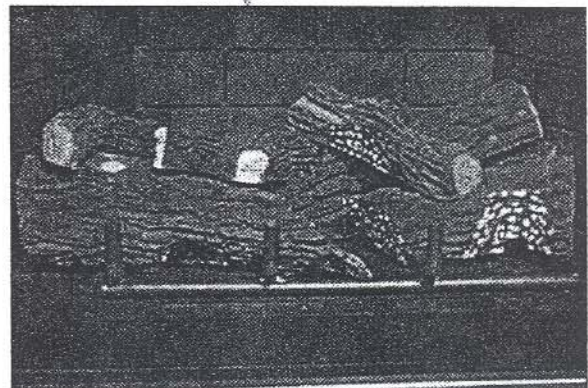


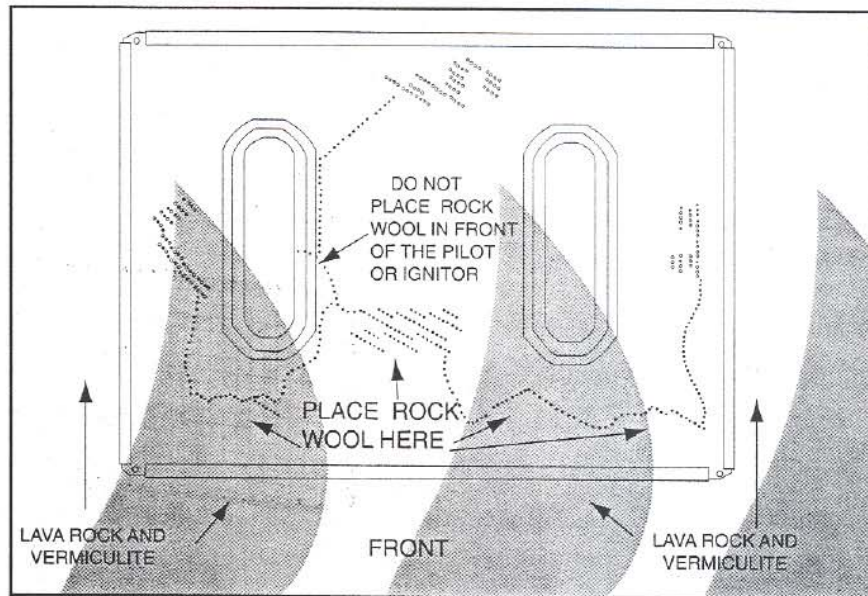
Figure 26  
Log Set for 36" CALIBER

#### 5. Placing the Vermiculite and Lava Rock

See Figure 27.

#### 6. Placing the Rock Wool

Place a small amount of 1/2 inch diameter pieces (dime-size) of rock wool on the burner pan so that the rock wool touches but does not cover the holes in the burner pan. This will provide the "glowing embers" look. See Figure 27.



**Figure 27**  
Placing the Vermiculite and Lava Rock -  
top log removed for clarity

#### 7. Glass and Screen Replacement

See page seven of the "Operating and Maintenance Instructions."

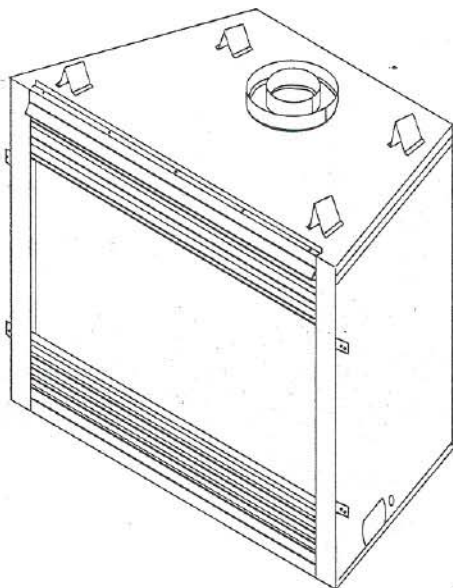
**WARNING - RISK OF CARBON MONOXIDE!**  
**NEVER OPERATE THIS APPLIANCE WITH**  
**THE GLASS REMOVED OR NOT SEALED.**

**WARNING - RISK OF CARBON MONOXIDE!**  
**DO NOT HIT OR STRIKE GLASS. DO NOT**  
**OPERATE THIS APPLIANCE IF THE GLASS**  
**IS BROKEN OR CRACKED.**

# OPERATION INSTRUCTIONS

Flip manual over for "Installation Instructions."

## CALIBER SERIES DIRECT VENT SERIES DECORATIVE GAS APPLIANCE



36" and 42" Series

For Residential Use - Meets All HUD  
Requirements For Manufactured  
Housing Installations

U.S. Patent 5,613,487

Read these installation instructions completely before beginning installation. Failure to follow them could cause an appliance malfunction resulting in serious injury and/or property damage.

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#### FOR YOUR SAFETY

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.

#### FOR YOUR SAFETY

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

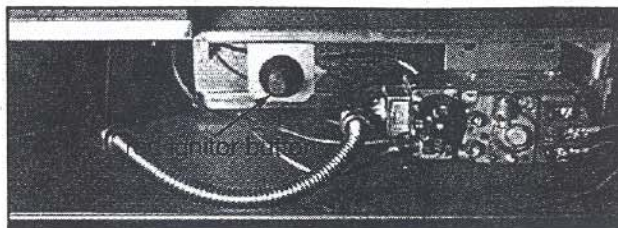
#### WARNING:

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.

### Determining the Ignition Type

To determine whether your appliance is an electronic ignition or a standing pilot ignition, remove the lower panel to examine the wiring system. If your system has a red ignitor button (as shown in *Figure 1*), you own a standing pilot ignition fireplace. If no red ignitor button is present, you have an electronic ignition appliance.

You may also check the rating label located on the inside of the lower panel to determine ignition type.



**Figure 1**  
**Standing Pilot Ignition**

## ELECTRONIC UNITS

### FOR YOUR SAFETY READ BEFORE OPERATING

**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 does not have a pilot. It is equipped with an ignition device which automatically lights the burner. Do not try to light the burner 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 try to light any appliance.
  - ☐ Do not touch any electric switch; do not use any phone in your building.
  - ☐ Immediately call your gas supplier from a neighbor's phone. Follow the supplier's instructions.
  - ☐ If you can not reach your gas supplier, call the fire department.
- C. Use only your hand to push in and move the gas control lever or turn the gas control knob. Never use tools. If the lever or knob will not move 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 has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

### LIGHTING INSTRUCTIONS

1. STOP! Read the safety information above on this label.
2. Turn wall switch to the "OFF" position.
3. Turn off all electric power to the appliance.
4. This appliance is equipped with an ignition device which automatically lights the burner. Do not try to light burner by hand.
5. Wait five (5) minutes to clear out any gas. If you then smell gas, STOP! Follow "B" in the safety information above on this label. If you don't smell gas, go on to the next step.
6. To turn on burner, turn on all electric power to this appliance and turn on the wall switch.
7. If the appliance will not operate, follow the instructions "TO TURN OFF GAS TO APPLIANCE" and call your service technician or gas supplier.

### TO TURN OFF GAS TO APPLIANCE

1. Turn off the wall switch.
2. Turn off all electric power to the appliance if service is to be performed.
3. Turn gas line to the "OFF" position.
4. Replace control access panel.

## STANDING PILOT FOR YOUR SAFETY READ BEFORE LIGHTING

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

A. This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.

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

### WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
- Do not touch any electric switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's

phone. Follow the supplier's instructions.

- If you cannot reach your gas supplier, call the fire department.

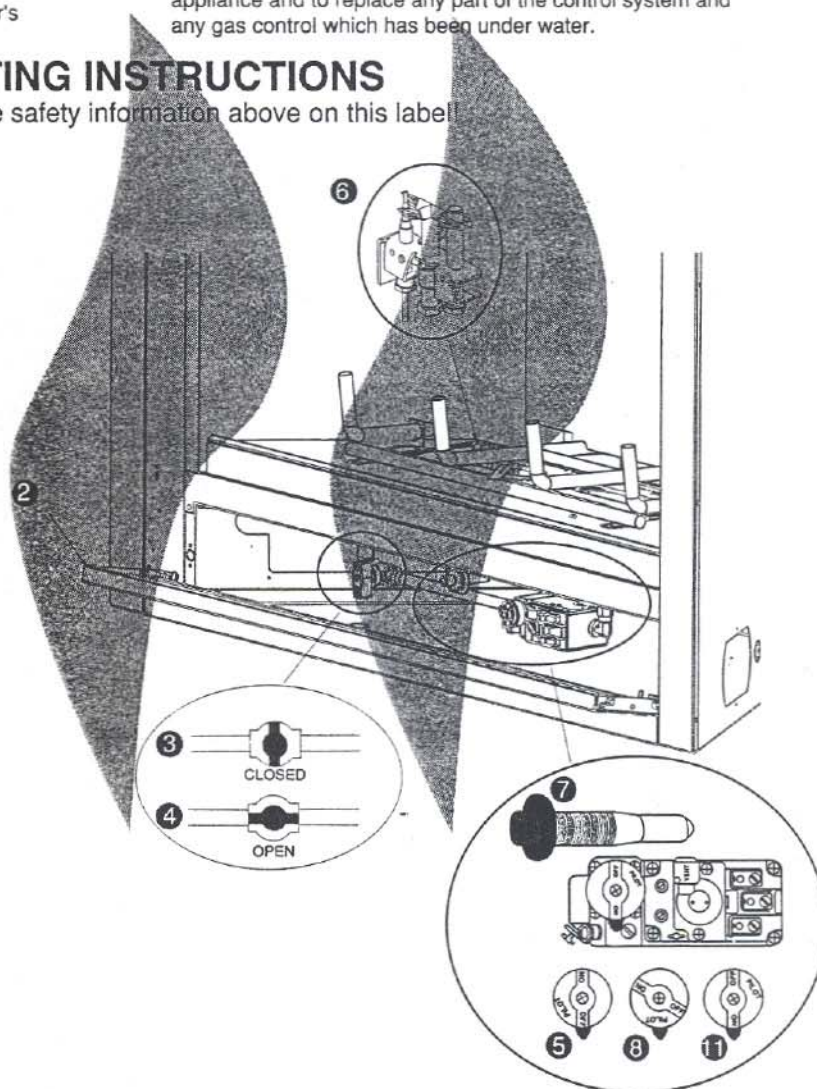
C. Use only your hand to push in or turn knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it; call a qualified service technician. Forced or attempted repair may result in a fire or explosion.

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

## LIGHTING INSTRUCTIONS

**STOP!** Read the safety information above on this label

1. Turn off all wall switches to the appliance.
2. Lower bottom access panel. Turn wall switch to the "OFF" position or set thermostat to lowest setting.
3. Turn gas line to CLOSED. Wait 5 minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above on this label. If you don't smell gas, go to the next step.
4. Turn gas line to OPEN.
5. Turn pilot knob clockwise to "OFF". (Knob may have to be depressed to pass "PILOT" position.)
6. Locate pilot assembly inside unit.
7. Locate red ignitor button.
8. Turn pilot knob to "PILOT" and push in.
9. Continue to hold in pilot knob and push the red ignitor button 12-15 times until small blue pilot flame appears.
10. Continue to hold in pilot knob for approximately one minute. Pilot should remain lit. If pilot goes out, wait 5 minutes and repeat Steps 4-9.
11. Release and turn knob counterclockwise to "ON".
12. If the appliance will not operate, follow the instructions "To Turn Off Gas To Appliance" and call your service technician or gas supplier.



**NOTE:** To light main burner, turn wall switch to "ON". Do not light by hand.

## TO TURN OFF GAS TO APPLIANCE

1. Turn off the wall switch. Turn off the wall switch or set thermostat to lowest setting.
2. Remove control access panel.
3. Turn gas line to CLOSED position. Do not force.
4. Replace control access panel.

**WARNING:**

**CHILDREN AND ADULTS SHOULD BE ALERTED TO THE HAZARDS OF HIGH SURFACE TEMPERATURES AND SHOULD STAY AWAY TO AVOID BURNS OR CLOTHING IGNITION. YOUNG CHILDREN SHOULD BE CAREFULLY SUPERVISED WHEN THEY ARE IN THE SAME ROOM AS THE APPLIANCE.**

**CAUTION**

**ANY SAFETY SCREEN OR GUARD REMOVED FOR SERVICING AN APPLIANCE MUST BE REPLACED PRIOR TO OPERATING THIS APPLIANCE.**

**CLOTHING OR OTHER FLAMMABLE MATERIAL SHOULD NOT BE PLACED ON OR NEAR THE APPLIANCE.**

**INSTALLATION AND REPAIR SHOULD BE DONE 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 DUE TO EXCESSIVE LINT FROM CARPETING, BEDDING MATERIAL, ETC. IT IS IMPERATIVE THAT CONTROL COMPARTMENTS, BURNERS AND CIRCULATING AIR PASSAGEWAYS OF THE APPLIANCE BE KEPT CLEAN.**

Before operating this appliance, have a qualified technician:

1. Review proper placement of logs, rock wool and vermiculite.
2. Check wiring.
3. Ensure there are no gas leaks.
4. Ensure the glass is sealed and in proper position.
5. Ensure the flow of combustion and ventilation air is not obstructed.

**WARNING!**

**KEEP THE AREA NEAR THE APPLIANCE CLEAR AND FREE FROM COMBUSTIBLE MATERIALS, GASOLINE AND OTHER FLAMMABLE VAPORS AND LIQUIDS.**

**A. STANDING PILOT OPERATION**

Heatilator recommends you leave the pilot on year round.

If you decide to shut down the appliance for a long period of time:

1. Turn all wall switches to OFF.
2. Turn pilot knob on valve to OFF.
3. Turn the gas line to CLOSED.

**Lighting the Fireplace During Regular Use.** Turn the wall switch to ON.

**Shutdown During Regular Use.** Turn the wall switch to OFF.

**B. ELECTRONIC IGNITION OPERATION**

To shut down the appliance for a long period of time:

1. Turn all wall switches to OFF.
2. Turn the gas line to CLOSED.

**Lighting the Fireplace During Regular Use.** Turn the wall switch to ON.

**Shutdown During Regular Use.** Turn the wall switch to OFF.

**C. FUEL**

Do not burn wood or other material in this appliance.

Natural or propane gas conversions necessary to meet the application need to be made by a qualified technician using Heatilator specified and approved parts.

In the event your appliance must be converted to use propane, you must use a CKVP Conversion Kit. To convert to use natural, you must use a CKVN Conversion Kit.

**WARNING!**

**DO NOT USE THIS APPLIANCE IF ANY PART HAS BEEN UNDER WATER. IMMEDIATELY CALL A QUALIFIED SERVICE TECHNICIAN TO INSPECT THE APPLIANCE AND TO REPLACE ANY PART OF THE CONTROL SYSTEM AND ANY GAS CONTROL WHICH HAS BEEN UNDER WATER.**

## START-UP ISSUES

### Issue

### Why....Possible Solutions

- |                          |   |
|--------------------------|---|
| 1. Condensation on glass | 1. This is a result of gas combustion and temperature variations. As the unit warms, this condensation should disappear.  |
| 2. Blue flames           | 2. This is a result of normal operation and the flames will begin to yellow as the unit is allowed to burn.   |
| 3. Odor from unit        | 3. When first operated, this unit may release an odor for the first several hours. This is caused by the curing of the paint and the burning off of any oils remaining from manufacturing.  |
| 4. Film on the glass     | 4. This is a normal result of the curing process of the paint and logs. Glass should be cleaned within 4-6 hours of initial burning to remove deposits left by oils from the manufacturing process. A non-abrasive cleaner, such as Brasso <sup>®</sup> may be necessary. |

### WARNING!

**NEVER USE GASOLINE , GASOLINE-TYPE LANTERN FUEL, KEROSENE, CHARCOAL LIGHTER FLUID OR SIMILAR LIQUIDS IN THIS APPLIANCE. KEEP ANY FLAMMABLE LIQUIDS A SAFE DISTANCE FROM THE APPLIANCE.**

## VII. MAINTENANCE INSTRUCTIONS

### Cleaning the burner and control compartment

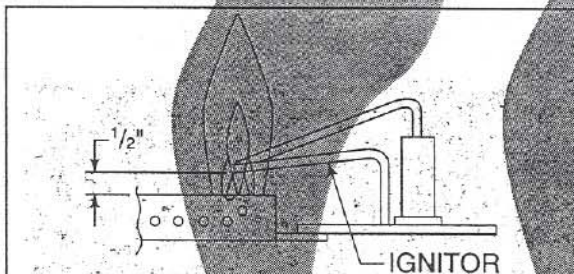
Keep the burner and control compartment clean by brushing and vacuuming at least once a year. Always turn off the wall switch (or remote control) and gas valve before cleaning.

### Checking flame patterns

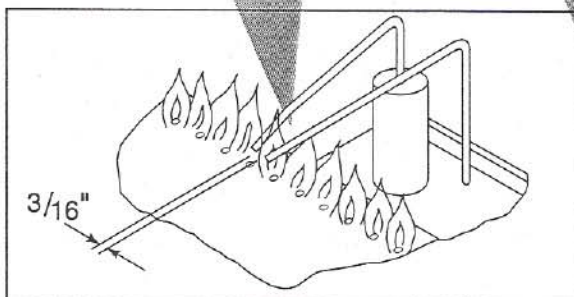
Visually check the flame of the burner periodically, making sure the flames are steady, not lifting or floating. The flame color should be blue with yellow tips. See Figure 5. The ignitor (electronic) or thermopile and thermocouple (standing pilot) tips should be covered with flame. See Figures 2 through 4.

If the vent configuration is installed incorrectly, the vent may cause the flames inside the appliance to lift or "ghost", which is a dangerous situation. Inspect the flames after installation to ensure proper performance. See Figure 5. If the vent configuration is correct, yet the flames are lifting or ghosting, shut off gas to the appliance and contact the dealer.

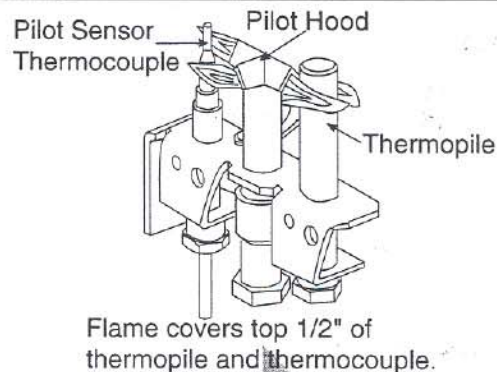
NOTE: The look of the flames and embers may differ based on the type of fuel and venting assembly that is used.



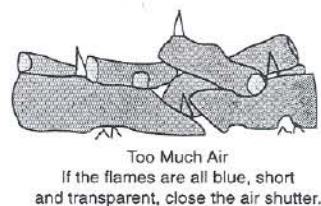
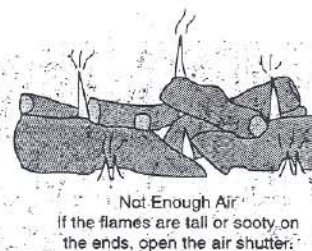
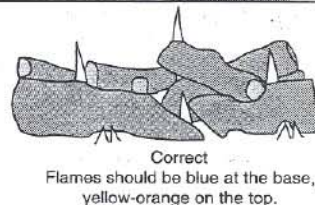
**Figure 2**  
Electronic Ignition



**Figure 3**  
Electronic Ignition



**Figure 4**  
Standing Pilot



**Figure 5**  
Flame Patterns

### Venting system inspection

The appliance and venting system should be inspected before use, and at least annually, by a qualified field service person, to ensure that the flow of combustion and ventilation air is not obstructed.

### Cleaning the glass

See Figure 6.

Never operate this appliance without the glass properly secured in place or if the glass is broken or chipped.

In the event of glass breakage, carefully remove the glass frame. This will allow the removal of all glass fragments and sheet metal edge protection strips. Vacuum all remaining glass pieces with a shop vac. (DO NOT VACUUM IF PIECES ARE HOT.)

Replace glass with only a Heatilator glass panel assembly ordered direct or through your local distributor. Never use substitute material. Only fully tempered soda lime safety glass or ceramic glass may be used on this appliance.

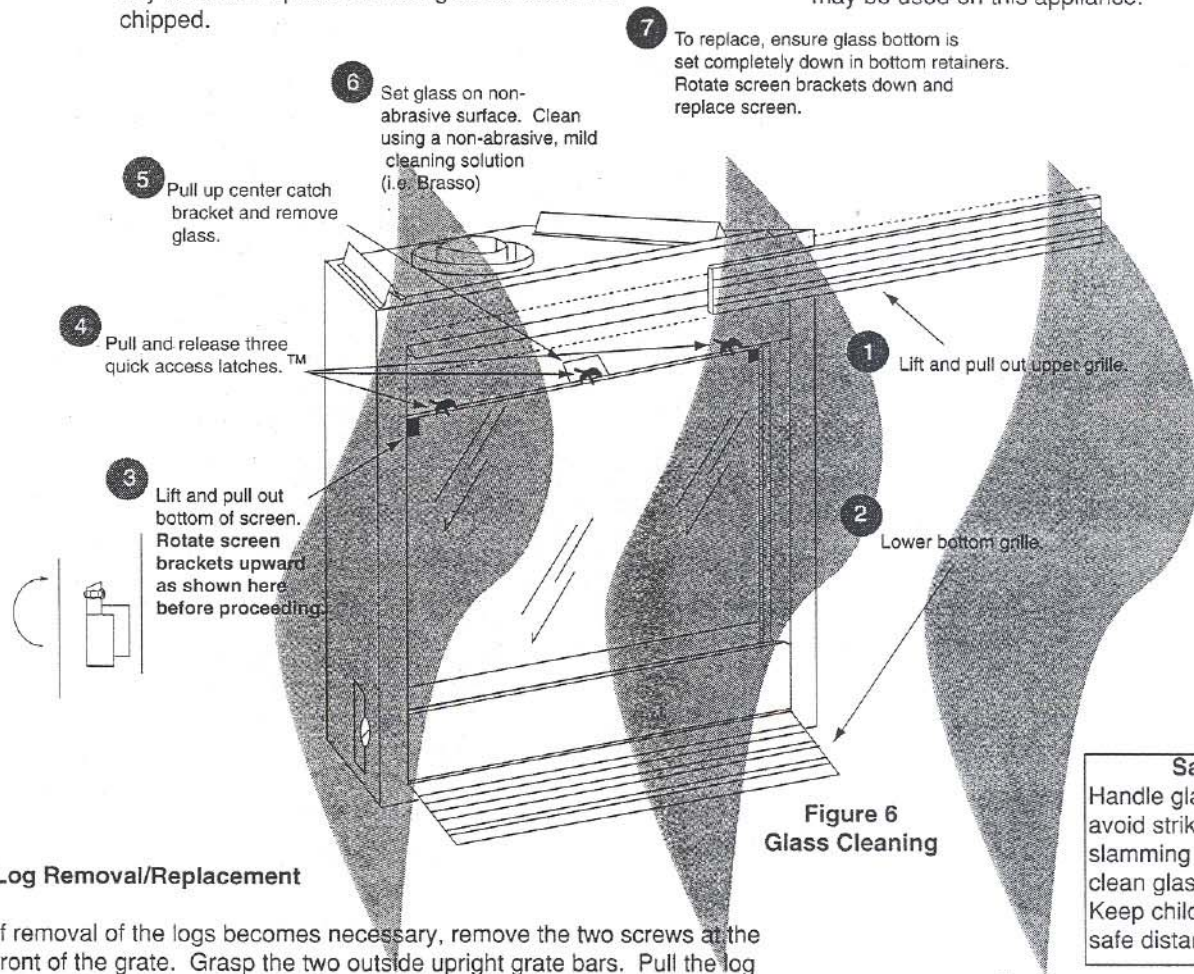


Figure 6  
Glass Cleaning

#### Safety Note

Handle glass with care to avoid striking, scratching or slamming shut. NEVER clean glass when hot. Keep children and pets a safe distance away.

### Log Removal/Replacement

If removal of the logs becomes necessary, remove the two screws at the front of the grate. Grasp the two outside upright grate bars. Pull the log toward the front and up, off the burner. See Figure 7.

To replace the logs, grasp the two outside upright grate bars. Push and lower the log set onto the burner pan, making sure the back of the left most grate bar slides through the grate mounting bracket attached to the hearth pan. Attach the two screws at the front of the grate.

To prevent the possibility of soot, we have provided your fireplace with an adjustable air shutter. Your air shutter is provided in the closed position for natural gas and in the open position for propane. In the event soot is accumulating in your appliance, the air shutter should be opened farther. This can be done by opening the lower access panel and locating the wing bolt located on the bottom of the firebox. When the wing bolt is turned out, the air shutter is fully closed. When the wing bolt is turned in, the air shutter is fully open.

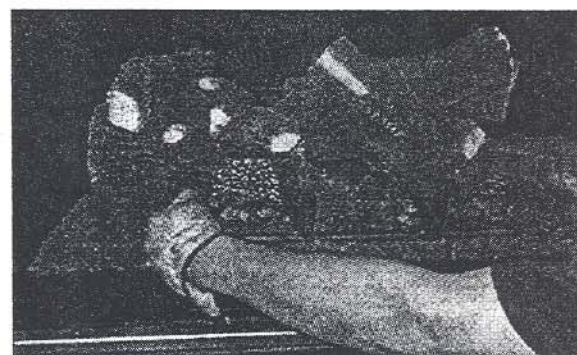
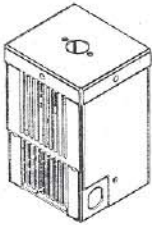
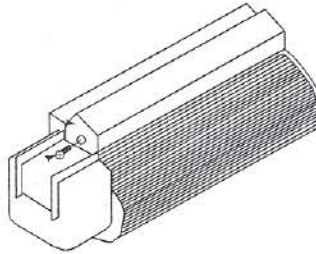


Figure 7  
Log Removal

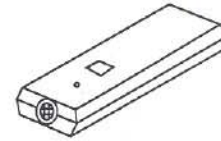
## VIII. OPTIONAL COMPONENTS



**BC11**  
Automatic Variable Blower  
Control  
**BC10**  
Fan Motor Rheostat Control



**FK4**  
Fan Kit, 160 CFM

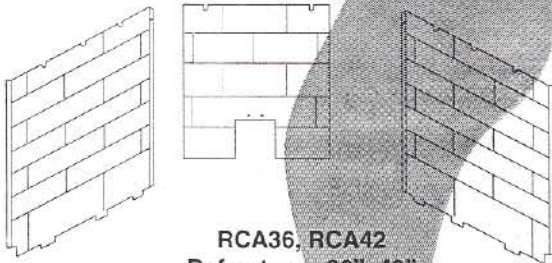


**RC4**  
Remote Control (standing  
Pilot)

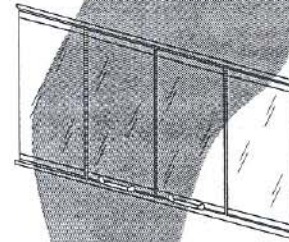
**RC5**  
Remote Control (electronic  
ignition)

**RC6**  
Battery-operated remote  
control (standing pilot)

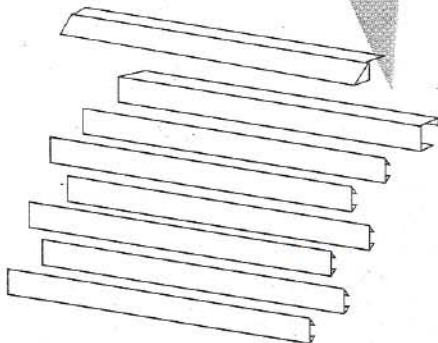
**RCP**  
Remote Control Plus



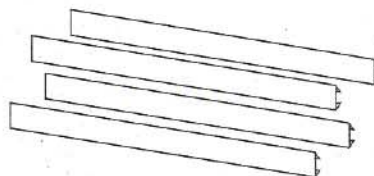
**RCA36, RCA42**  
Refractory - 36", 42"



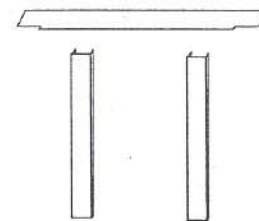
**DFC2A/B**  
Fixed Glass Door



**TK301B, TK401B**  
Trim Kits



**TK6CA/B, TK7CA/B/C**  
Trim Kits



**TK43A/B, TK44A/B**  
Trim Kits