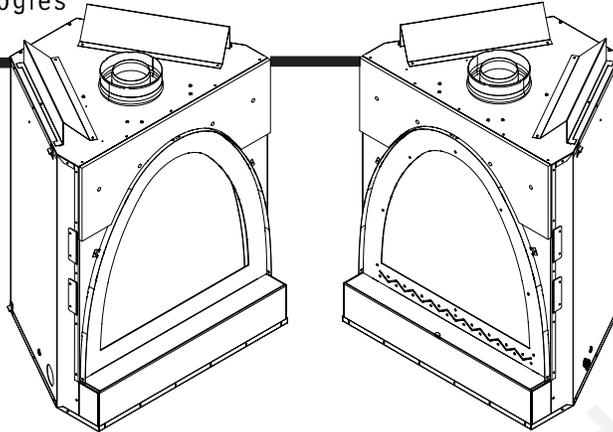


Models:  
Aztec  
Bravo



**CAUTION**



**DO NOT DISCARD THIS MANUAL**

- Important operating and maintenance instructions included.
- Read, understand and follow these instructions for safe installation and operation.
- Leave this manual with party responsible for use and operation.



**⚠ WARNING**



If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury, or death.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **What to do if you smell gas**
  - Do not try to light any appliance
  - Do not touch any electrical switch. Do not use any phone in your building.
  - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
  - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency, or the gas supplier.

**⚠ WARNING**



**HOT! DO NOT TOUCH. SEVERE BURNS MAY RESULT. CLOTHING IGNITION MAY RESULT.**

Glass and other surfaces are hot during operation and cool down.

- Keep children away.
- CAREFULLY SUPERVISE children in same room as appliance.
- Alert children and adults to hazards of high temperatures.
- Do NOT operate with protective barriers open or removed.
- Keep clothing, furniture, draperies and other combustibles away.

***This appliance has been supplied with an integral barrier to prevent direct contact with the fixed glass panel. Do NOT operate the appliance with the barrier removed.***

Contact your dealer or Hearth & Home Technologies if the barrier is not present or help is needed to properly install one.

In the Commonwealth of Massachusetts:

- installation must be performed by a licensed plumber or gas fitter;
- a CO detector shall be installed in the room where the appliance is installed.

This appliance may be installed as an OEM installation in manufactured home (USA only) or mobile home and must be installed in accordance with the manufacturer's instructions and the manufactured home construction and safety standard, *Title 24 CFR, Part 3280 or Standard for Installation in Mobile Homes, CAN/CSA Z240MH.*

*This appliance is only for use with the type(s) of gas indicated on the rating plate.*



Installation and service of this appliance should be performed by qualified personnel. Hearth & Home Technologies suggests NFI certified or factory-trained professionals, or technicians supervised by an NFI certified professional.



Read this manual before installing or operating this appliance.  
Please retain this owner's manual for future reference.

## Congratulations

Congratulations on selecting a Hearth & Home Technologies gas appliance—an elegant and clean alternative to wood burning appliances. The Hearth & Home Technologies gas appliance you have selected is designed to provide the utmost in safety, reliability, and efficiency.

As the owner of a new appliance, you'll want to read and carefully follow all of the instructions contained in this *Owner's Manual*. Pay special attention to all Cautions and Warnings.

This *Owner's Manual* should be retained for future reference. We suggest that you keep it with your other important documents and product manuals.

The information contained in this *Owner's Manual*, unless noted otherwise, applies to all models and gas control systems.

Your new Hearth & Home Technologies gas appliance will give you years of durable use and trouble-free enjoyment. Welcome to the Hearth & Home Technologies family of appliance products!

Homeowner Reference Information		<i>We recommend that you record the following pertinent information about your appliance.</i>	
Model Name: _____	_____	Date purchased/installed: _____	_____
Serial Number: _____	_____	Location on appliance: _____	_____
Dealership purchased from: _____	_____	Dealer Phone: _____	_____
Notes: _____	_____		
_____			

### Listing Label Information/Location

The model information regarding your specific appliance can be found on the rating plate usually located in the control area of the appliance.

Type of Gas

Gas and Electric Information

This product may be covered by one or more of the following patents: (Nos produits sont couverts par un ou plusieurs des brevets suivants): (United States) 4593510, 4698807, 4766876, 4793322, 4811534, 5000162, 5016609, 5076254, 5113843, 5191877, 5218953, 5263471, 5328356, 5341794, 5347983, 5429495, 5452708, 5542407, 5601073, 5613487, 5647340, 5689598, 5762062, 5775408, 5890485, 5931661, 5941237, 5947112, 5996575, 6008743, 6019099, 6048195, 6053166, 6145502, 6170481, 6237588, 6296474, 6374822, 6413079, 6439228, 6484712, 6543898, 6550687, 6601579, 6672860, 6688302B2, 6715724B2, 6729551, 6736133, 6748940, 6748942, D320652, D445174, D462436; (Canada) 1297749, 2195264, 2225408; or other U.S. and foreign patents pending (ou autres brevets américains et étrangers en attente).

**HEARTH & HOME** technologies  
Hearth & Home Technologies, Inc.  
20802 Kensington Blvd. Lakeville, Mn 55044

**GAS-FIRED**  
**UL LISTED**

Not for use with solid fuel.  
*(Ne doit pas être utilisé avec un combustible solide).*

Type of Gas (Sorte De Gaz): **NATURAL GAS** This appliance must be installed in accordance with local codes, if any; if not, follow ANSI Z223.1 in the USA or CAN/CGA B149 installation codes. *(Installer l'appareil selon les codes ou règlements locaux ou, en l'absence de tels règlements, selon les codes d'installation CAN/CGA-B149.)*

**ANSI Z21XX-XXXX · CSA 2.XX-MXX · UL307B**

Minimum Permissible Gas Supply for Purposes of Input Adjustment.	
Approved Minimum (De Gaz) Acceptable	0.0 in w.c. (Po. Col. d'eau)
Maximum Pressure (Pression)	0.0 in w.c. (Po. Col. d'eau)
Maximum Manifold Pressure (Pression)	0.0 in w.c. (Po. Col. d'eau)
Minimum Manifold Pressure (Pression)	0.0 in w.c. (Po. Col. d'eau)
Total Electrical Requirements: 000Vac, 00Hz., less than 00 Amperes	

**MADE IN USA**

IN CANADA		Model: (Modele):	XXXXXXXXXX
ALTITUDE:	0-0000 FT. 0000-0000FT.	Serial (Serie):	XXXXXXXXXX
MAX. INPUT BTUH:	00,000 00,000		
MIN. INPUT BTUH:	00,000 00,000		
ORIFICE SIZE:	#XXXXX #XXXXX		

Model Number

Serial Number

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→ = Contains updated information.

# 1

## Listing and Code Approvals

### A. Appliance Certification

**MODELS:** Aztec, Bravo

**LABORATORY:** Underwriters Laboratories, Inc. (UL)

**TYPE:** Direct Vent Gas Appliance Heater

**STANDARD:** ANSI Z21.88-2000•CSA2.33-M2000•UL307B

This product is listed to ANSI standards for “Vented Gas Appliance Heaters” and applicable sections of “Gas Burning Heating Appliances for Manufactured Homes and Recreational Vehicles”, and “Gas Fired Appliances for Use at High Altitudes”.

**NOT INTENDED FOR USE AS A PRIMARY HEAT SOURCE.**

This appliance is tested and approved as either supplemental room heat or as a decorative appliance. It should not be factored as primary heat in residential heating calculations.

These models may be installed in a bedroom or bed-sitting room in the USA and Canada.

### B. Glass Specifications

Hearth & Home Technologies appliances manufactured with tempered glass may be installed in hazardous locations such as bathtub enclosures as defined by the Consumer Product Safety Commission (CPSC). The tempered glass has been tested and certified to the requirements of **ANSI Z97.1** and **CPSC 16 CFR 1202** (Safety Glazing Certification Council **SGCC# 1595** and **1597**. Architectural Testing, Inc. Reports **02-31919.01** and **02-31917.01**).

This statement is in compliance with **CPSC 16 CFR Section 1201.5** “Certification and labeling requirements” which refers to **15 U.S. Code (USC) 2063** stating “...Such certificate shall accompany the product or shall otherwise be furnished to any distributor or retailer to whom the product is delivered.”

Some local building codes require the use of tempered glass with permanent marking in such locations. Glass meeting this requirement is available from the factory. Please contact your dealer or distributor to order.

**NOTE:** This installation must conform with local codes. In the absence of local codes you must 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.

### C. BTU Specifications

Models (U.S. or Canada)		Maximum Input BTUH	Orifice Size (DMS)
Aztec, Bravo (NG)	US (0-2000 FT)	23,000	42
	CANADA (2000-4500 FT)	20,700	43
Aztec, Bravo (LP)	US (0-2000 FT)	23,000	53
	CANADA (2000-4500 FT)	20,700	54

### D. High Altitude Installations

U.L. Listed gas appliances are tested and approved without requiring changes for elevations from 0 to 2000 feet in the U.S.A. and Canada.

When installing this appliance at an elevation above 2000 feet, it may be necessary to decrease the input rating by changing the existing burner orifice to a smaller size. Input rate should be reduced by 4% for each 1000 feet above a 2000 foot elevation in the U.S.A., or 10% for elevations between 2000 and 4500 feet in Canada. If the heating value of the gas has been reduced, these rules do not apply. To identify the proper orifice size, check with the local gas utility.

If installing this appliance at an elevation above 4500 feet (in Canada), check with local authorities.

**⚠ 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.

### E. Non-Combustible Materials Specification

Material which will not ignite and burn. Such materials are those consisting entirely of steel, iron, brick, tile, concrete, slate, glass or plasters, or any combination thereof.

Materials that are reported as passing **ASTM E 136, Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C**, shall be considered non-combustible materials.

### F. Combustible Materials Specification

Materials made of or surfaced with wood, compressed paper, plant fibers, plastics, or other material that can ignite and burn, whether flame proofed or not, or whether plastered or unplastered shall be considered combustible materials.

# 2

## Getting Started

### A. Design and Installation Considerations

Hearth & Home Technologies direct vent gas appliances are designed to operate with all combustion air siphoned from outside of the building and all exhaust gases expelled to the outside. No additional outside air source is required.

#### CAUTION

Check building codes prior to installation.

- Installation **MUST** comply with local, regional, state and national codes and regulations.
- Consult local building, fire officials or authorities having jurisdiction about restrictions, installation inspection, and permits.

When planning an appliance installation, it's necessary to determine the following information before installing:

- Where the appliance is to be installed.
- The vent system configuration to be used.
- Gas supply piping.
- Electrical wiring.
- Framing and finishing details.
- Whether optional accessories—devices such as a fan, wall switch, or remote control—are desired.



**WARNING**

Keep appliance dry.

- Mold or rust may cause odors.
- Water may damage controls.



### B. Tools and Supplies Needed

Before beginning the installation be sure that the following tools and building supplies are available.

Reciprocating saw	Framing material
Pliers	Hi temp caulking material
Hammer	Gloves
Phillips screwdriver	Framing square
Flat blade screwdriver	Electric drill and bits (1/4 in.)
Plumb line	Safety glasses
Level	1/2 - 3/4 inch length, #6 or #8 Self-drilling screws
Manometer	Voltmeter
Tape measure	Noncorrosive leak check solution
One 1/4 inch female connection (for optional fan).	

### C. Inspect Appliance and Components



**WARNING**

Inspect appliance and components for damage. Damaged parts may impair safe operation.

- Do NOT install damaged components.
- Do NOT install incomplete components.
- Do NOT install substitute components.

Report damaged parts to dealer.



- Carefully remove the appliance and components from the packaging.
- The vent system components and trim doors are shipped in separate packages.
- The gas logs may be packaged separately and must be field installed.
- Report to your dealer any parts damaged in shipment, particularly the condition of the glass.
- **Read all of the instructions before starting the installation. Follow these instructions carefully during the installation to ensure maximum safety and benefit.**



**WARNING**

Hearth & Home Technologies disclaims any responsibility for, and the warranty will be voided by, the following actions:

- Installation and use of any damaged appliance or vent system component.
- Modification of the appliance or vent system.
- Installation other than as instructed by Hearth & Home Technologies.
- Improper positioning of the gas logs or the glass door.
- Installation and/or use of any component part not approved by Hearth & Home Technologies.

**Any such action may cause a fire hazard.**

# 3

## Framing and Clearances

**NOTE:**

- Illustrations reflect typical installations and are FOR DESIGN PURPOSES ONLY.
- Illustrations/diagrams are not drawn to scale.
- Actual installation may vary due to individual design preference.

**WARNING**



- Fire Risk  
Provide adequate clearance:
- Around air openings
  - To combustibles
  - For service access
- Locate appliance away from traffic areas.

### A. Selecting Appliance Location

When selecting a location for your appliance it is important to consider the required clearances to walls (see Figure 3.1).

**NOTE:** For actual appliance dimensions refer to Section 16.

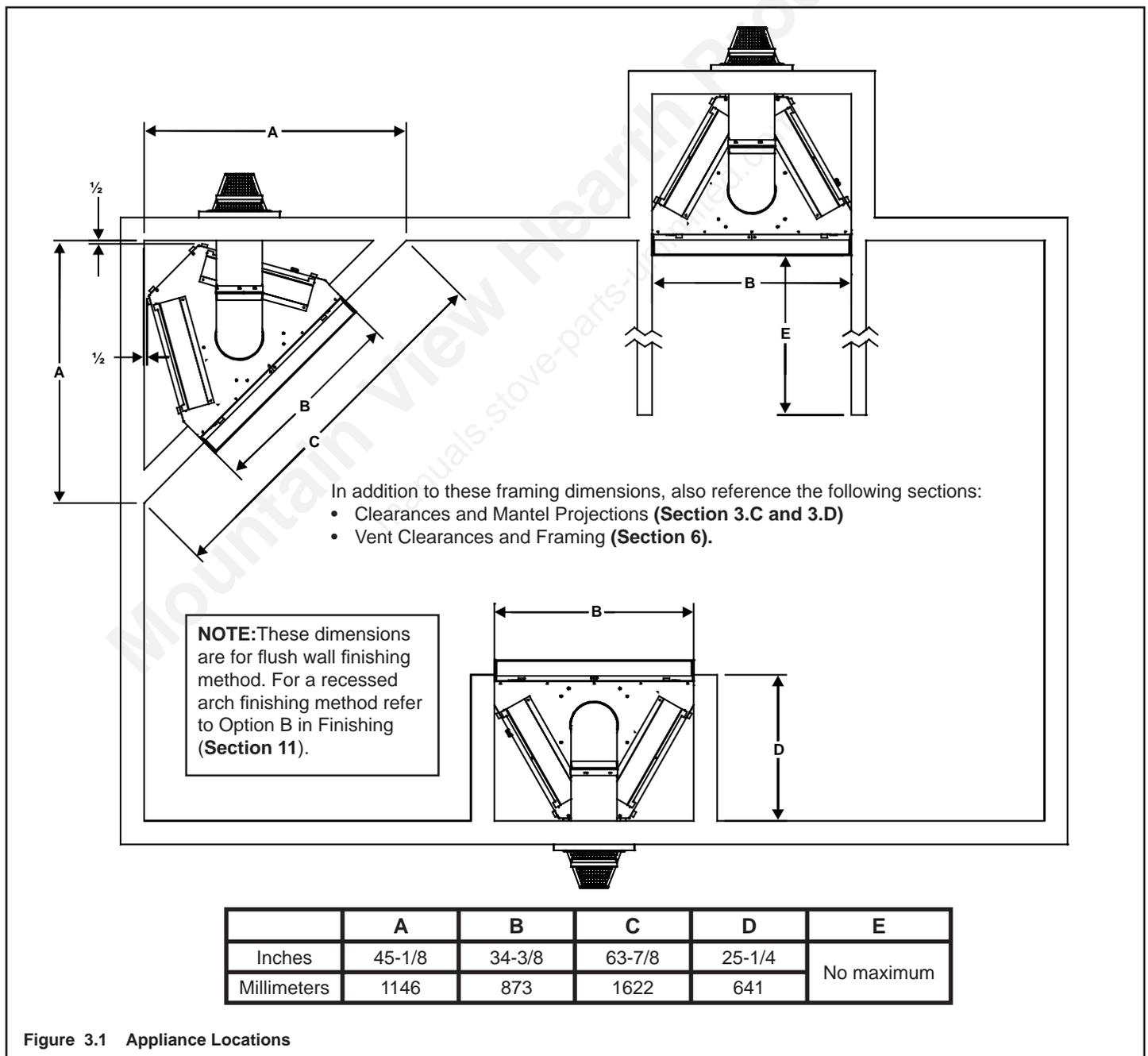


Figure 3.1 Appliance Locations

## B. Constructing the Appliance Chase

A chase is a vertical boxlike structure built to enclose the gas appliance and/or its vent system. Vertical vents that run on the outside of a building may be, but are not required to be, installed inside a chase.

Construction of the chase may vary with the type of building. These instructions are not substitutes for the requirements of local building codes. Local building codes **MUST** be checked.

Chases should be constructed in the manner of all outside walls of the home to prevent cold air drafting problems. The chase should not break the outside building envelope in any manner.

Walls, ceiling, base plate and cantilever floor of the chase should be insulated. Vapor and air infiltration barriers should be installed in the chase as per regional codes for the rest of the home. Additionally, in regions where cold air infiltration may be an issue, the inside surfaces may be sheetrocked and taped for maximum air tightness.

To further prevent drafts, the wall shield and ceiling firestops should be caulked with high temperature caulk to seal gaps. Gas line holes and other openings should be caulked with

high temp caulk or stuffed with unfaced insulation. If the appliance is being installed on a cement slab, a layer of plywood may be placed underneath to prevent conducting cold up into the room.

## C. Clearances

**⚠ WARNING**

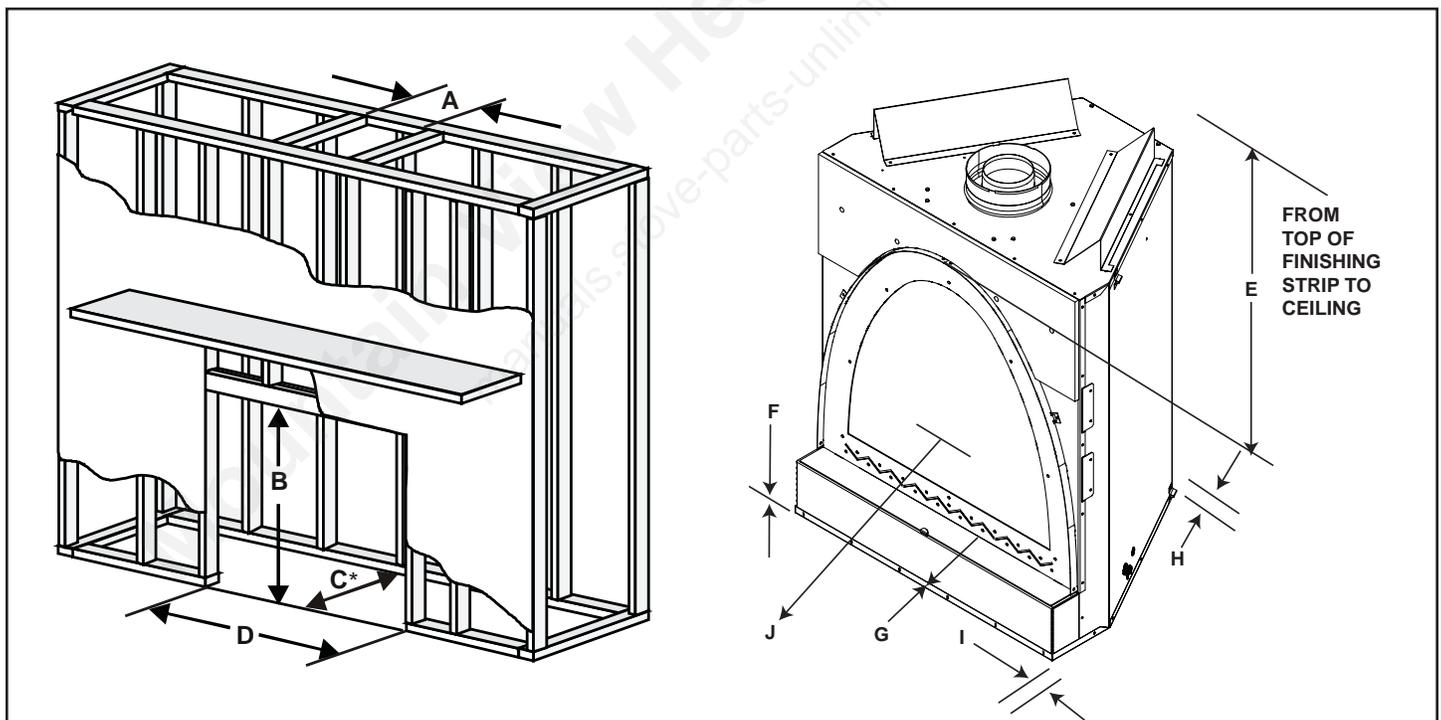
Fire Risk.  
Odor Risk.

- Install appliance on hard metal or wood surfaces extending full width and depth of appliance.
- Do NOT install appliance directly on carpeting, vinyl, tile or any combustible material other than wood.

**⚠ WARNING**

Fire Risk.

- Construct chase to all clearance specifications in manual.
- Locate and install appliance to all clearance specifications in manual

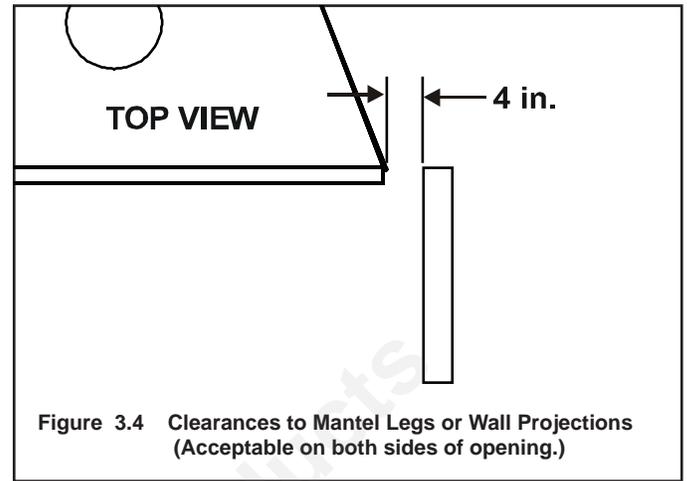
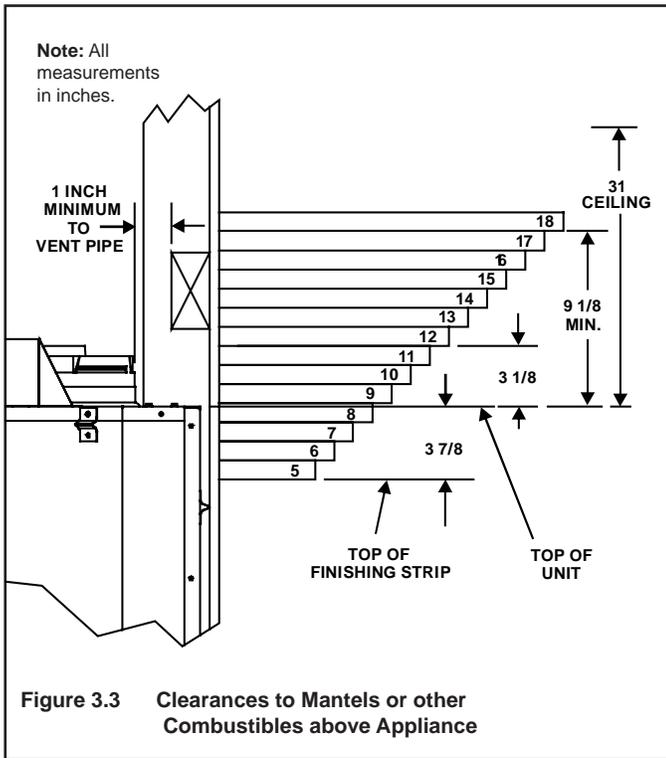


Clearance to Combustibles										
	A	B	C*	D	E	F	G	H	I	J
	Rough Opening (Vent Pipe)	Rough Opening (Height)	Rough Opening (Depth)	Rough Opening (Width)	Clearance to Ceiling	Non-Combustible Floor	Combustible Flooring	Behind Appliance	Sides of Appliance	Front of Appliance
Inches	10	44	25-1/4	35-3/8	34-7/8	0	0	1/2	1/2	36
Millimeters	25	1118	641	699	886	0	0	13	13	914

\*For additional framing options and dimensions, see **Section 11, Finishing**.

**Figure 3.2 Clearances to Combustibles**

## D. Mantel Projections



# 4

## Termination Locations

### A. Vent Termination Minimum Clearances

**⚠ WARNING**

Fire Risk.  
Explosion Risk.  
Maintain vent clearance to combustibles as specified.

- Do not pack air space with insulation or other materials.

Failure to keep insulation or other materials away from vent pipe may cause fire.

Measure vertical clearances from this surface.

Measure horizontal clearances from this surface.

(See Figure 4.4 for specific clearances)

**Figure 4.1**

Roof Pitch	H (Min.) Ft.
Flat to 6/12	1.0*
Over 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

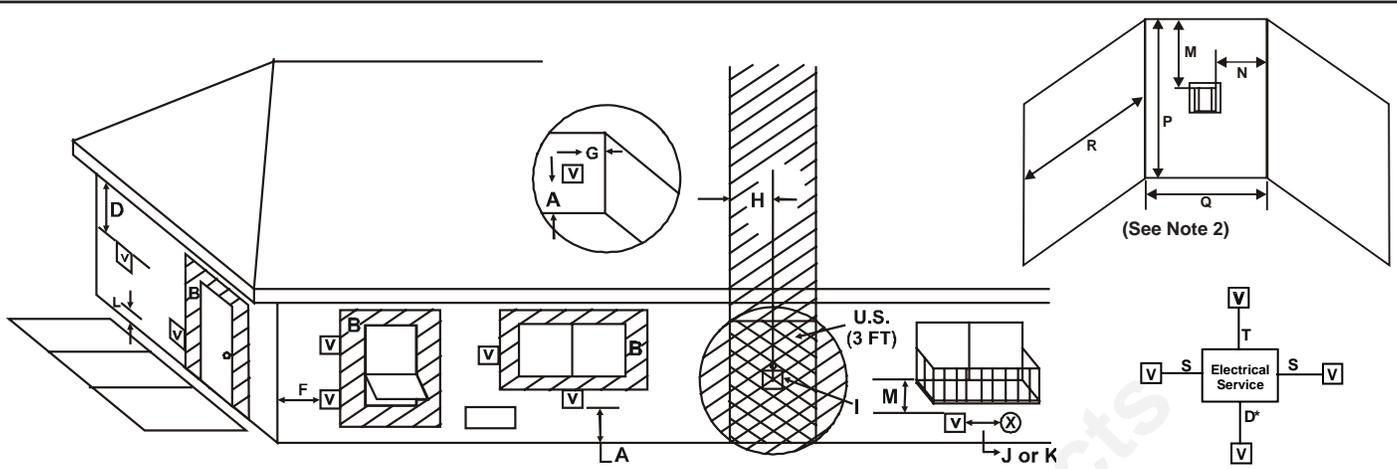
\* 3 foot minimum in snow regions

**Figure 4.2 Minimum Height from Roof to Lowest Discharge Opening**

Figure 4.2 specifies minimum vent heights for various pitched roofs.

	Gas Termination	Wood & Fuel Oil Termination
<b>A</b>	6 in.	20 in.

**Figure 4.3 Multiple Vertical Termination**



**V** = VENT TERMINAL      **X** = AIR SUPPLY INLET      **Hatched Area** = AREA WHERE TERMINAL IS NOT PERMITTED

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>A = 12 inches.....clearances above grade, veranda, porch, deck or balcony<br/>(See Note 1)</p> <p>B = 12 inches.....clearances to window or door that may be opened, or to permanently closed window. (Glass)</p> <p>D* = 18 inches.....vertical clearance to unventilated soffit or to ventilated soffit located above the terminal<br/>*30 inches.....for vinyl clad soffits and below electrical service</p> <p>F = 9 inches.....clearance to outside corner</p> <p>G = 6 inches.....clearance to inside corner</p> <p>H = 3 ft. (Canada).....not to be installed above a gas meter/regulator assembly within 3 feet (90cm) horizontally from the center-line of the regulator</p> <p>I = 3 ft. (U.S.A.)<br/>6 ft. (Canada).....clearance to gas service regulator vent outlet</p> <p>J = 9 inches (U.S.A.)<br/>12 inches (Canada) clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance</p> | <p>K = 3 ft. (U.S.A.)<br/>6 ft. (Canada).....clearance to a mechanical (powered) air supply inlet</p> <p>L** = 7 ft. ....clearance above paved sidewalk or a paved driveway located on <b>public</b> property<br/>(See Note 1)</p> <p>M*** = 18 inches.....clearance under veranda, porch, deck, balcony or overhang<br/>42 inches .....vinyl</p> <p>S = 6 inches .....clearance from sides of electrical service<br/>(See Note 5)</p> <p>T = 12 inches .....clearance above electrical service<br/>(See Note 5)</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Alcove Applications**

- N = 6 inches .....non-vinyl sidewalls  
12 inches .....vinyl sidewalls
- P = 8 ft.

	<b>Q<sub>MIN</sub></b>	<b>R<sub>MAX</sub></b>
1 cap	3 feet	2 x Q <sub>ACTUAL</sub>
2 caps	6 feet	1 x Q <sub>ACTUAL</sub>
3 caps	9 feet	2/3 x Q <sub>ACTUAL</sub>
4 caps	12 feet	1/2 x Q <sub>ACTUAL</sub>

**Q<sub>MIN</sub>** = # termination caps x 3      **R<sub>MAX</sub>** = (2 / # termination caps) x Q<sub>ACTUAL</sub>

\*\* a vent shall 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, or meets Note 2.

**NOTE 1:** On private property where termination is less than 7 feet above a sidewalk, driveway, deck, porch, veranda or balcony, use of a listed cap shield is suggested. (See vents components page)

**NOTE 2:** Termination in an alcove space (spaces open only on one side and with an overhang) are permitted with the dimensions specified for vinyl or non-vinyl siding and soffits. **1.** There must be 3 feet minimum between termination caps. **2.** All mechanical air intakes within 10 feet of a termination cap must be a minimum of 3 feet below the termination cap. **3.** All gravity air intakes within 3 feet of a termination cap must be a minimum of 1 foot below the termination cap.

**Figure 4.4 Minimum Clearances for Termination**

**NOTE 3:** Local codes or regulations may require different clearances.

**NOTE 4:** Termination caps may be hot. Consider their proximity to doors or other traffic areas.

**NOTE 5:** Location of the vent termination must not interfere with access to the electrical service.

**WARNING: In the U.S:** Vent system termination is **NOT** permitted in screened porches. You must follow side wall, overhang and ground clearances as stated in the instructions.

**In Canada:** Vent system termination is **NOT** permitted in screened porches. Vent system termination is permitted in porch areas with two or more sides open. You must follow all side walls, overhang and ground clearances as stated in the instructions.

Hearth & Home Technologies assumes no responsibility for the improper performance of the appliance when the venting system does not meet these requirements.

**CAUTION: IF EXTERIOR WALLS ARE FINISHED WITH VINYL SIDING, IT IS SUGGESTED THAT A VINYL PROTECTOR KIT BE INSTALLED.**

# 5

## Vent Information and Diagrams

### A. Vent Table Key

The abbreviations listed in this vent table key are used in the vent diagrams.

Symbol	Description
V <sub>1</sub>	First section (closest to appliance) of vertical length
V <sub>2</sub>	Second section of vertical length
H <sub>1</sub>	First section (closest to appliance) of horizontal length
H <sub>2</sub>	Second section of horizontal length

### WARNING



Fire Hazard.

Explosion Risk.

Asphyxiation Risk.

Do NOT connect this gas appliance to a chimney flue serving a separate solid-fuel or gas burning appliance.

- Vent this appliance directly outside.
  - Use separate vent system for this appliance.
- May impair safe operation of this appliance or other appliances connected to the flue.



### B. Use of Elbows

#### CAUTION

ALL vent configuration specifications MUST be followed.

- This product is tested and listed to these specifications.
- Appliance performance will suffer if specifications are not followed.

Diagonal runs have both vertical and horizontal vent aspects when calculating the effects. Use the rise for the vertical aspect and the run for the horizontal aspect (see Figure 5.1).

Two 45° elbows may be used in place of one 90° elbow. On 45° runs, one foot of diagonal is equal to 8.5 inches horizontal run and 8.5 inches vertical run. A length of straight pipe is allowed between two 45° elbows (see Figure 5.1).

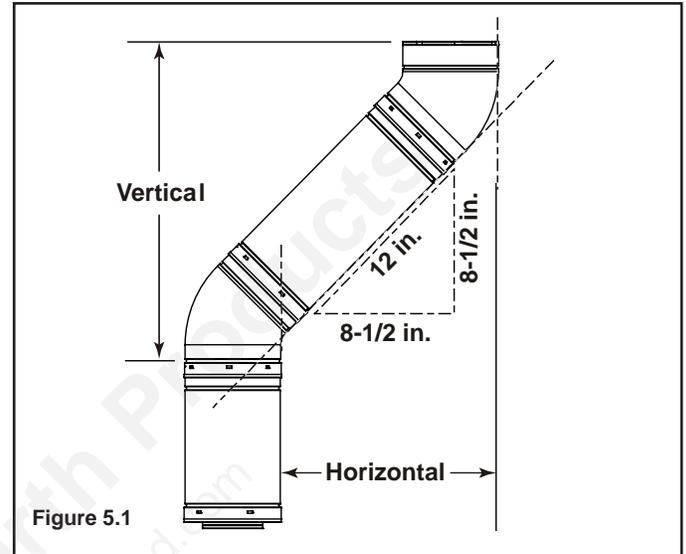


Figure 5.1

### C. Measuring Standards

Vertical and horizontal measurements listed in the vent diagrams were made using the following standards.

1. Pipe measurements are shown using the effective length of pipe (see Figure 5.2).
2. Measurements are made from the appliance outer wrap, not from the standoffs.
3. Horizontal terminations are measured to the outside mounting surface (flange of termination cap) (see Figure 4.1).
4. Vertical terminations are measured to bottom of termination cap.
5. Horizontal pipe installed level with no rise.

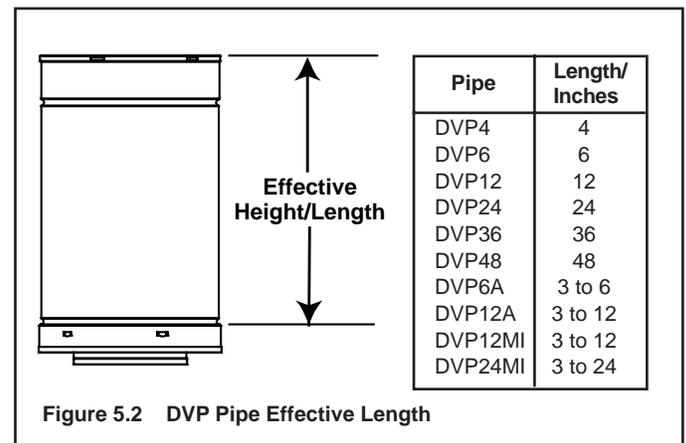


Figure 5.2 DVP Pipe Effective Length

## D. Vent Diagrams

### ⚠ WARNING



Fire Risk. Explosion Risk.  
Do NOT pack insulation or other combustibles between ceiling firestops.

- ALWAYS maintain specified clearances around venting and firestop systems.
- Install wall shield and ceiling firestops as specified.

Failure to keep insulation or other material away from vent pipe may cause fire.



### 1. Top Vent - Horizontal Termination

#### One Elbow

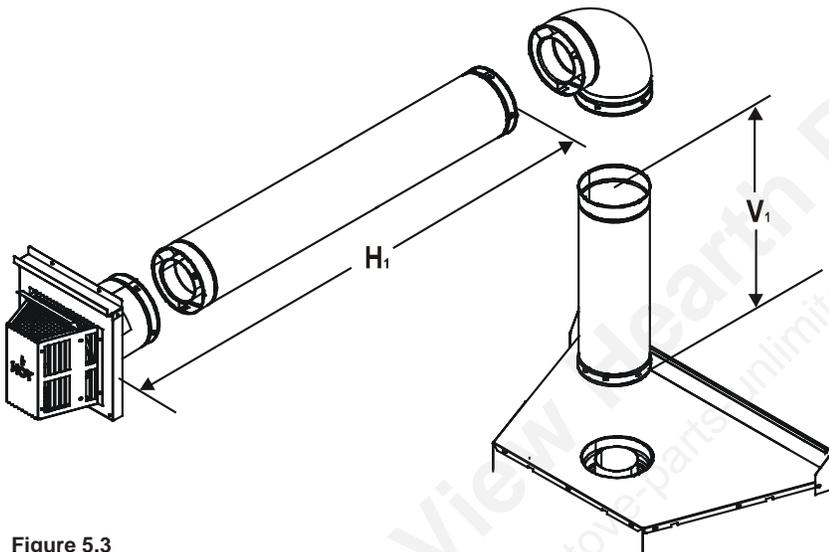


Figure 5.3

V <sub>1</sub> Minimum		H <sub>1</sub> Maximum	
3 ft.	0.9 m	2 ft.	0.6 m
4 ft.	1.2 m	4 ft.	1.2 m
5 ft.	1.5 m	6 ft.	1.8 m
12 ft.	3.7 m	20 ft.	6.1 m
V <sub>1</sub> + H <sub>1</sub> = 40 ft. (12.2 m) Maximum H <sub>1</sub> = 20 ft. (6.1 m) Maximum			

**NOTE:** When venting with one elbow, a straight section of venting (3 ft. minimum) **MUST** be attached directly to starting collars on unit.

**NOTE:** The first elbow used **MUST** always be DVP90ST.

#### Two Elbows

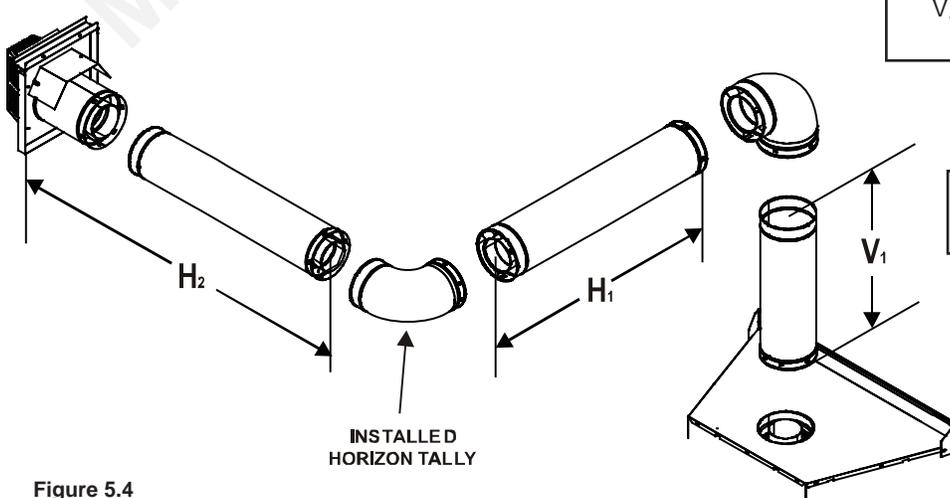


Figure 5.4

V <sub>1</sub> Minimum		H <sub>1</sub> + H <sub>2</sub> Maximum	
3 ft.	0.9 m	2 ft.	0.6 m
4 ft.	1.2 m	4 ft.	1.2 m
5 ft.	1.5 m	6 ft.	1.8 m
12 ft.	3.7 m	20 ft.	6.1 m
V <sub>1</sub> + H <sub>1</sub> + H <sub>2</sub> = 40 ft. (12.2 m) Maximum H <sub>1</sub> + H <sub>2</sub> = 20 ft. (6.1 m) Maximum			

**NOTE:** V<sub>1</sub> **MUST** be a minimum of 3 feet.

**NOTE:** The first elbow used **MUST** always be DVP90ST.

# 1. Top Vent - Horizontal Termination - (continued)

## Three Elbows

V <sub>1</sub> + V <sub>2</sub> Minimum		H <sub>1</sub> + H <sub>2</sub> Maximum	
3 ft.	0.9 m	2 ft.	0.6 m
4 ft.	1.2 m	4 ft.	1.2 m
5 ft.	1.5 m	6 ft.	1.8 m
12 ft.	3.7 m	20 ft.	6.1 m

V<sub>1</sub> + V<sub>2</sub> + H<sub>1</sub> + H<sub>2</sub> = 40 ft. (12.2 m) Maximum  
H<sub>1</sub> + H<sub>2</sub> = 20 ft. (6.1 m) Maximum

**NOTE:** V<sub>1</sub> **MUST** be a minimum of 3 feet.

**NOTE:** The first elbow used **MUST** always be DVP90ST.

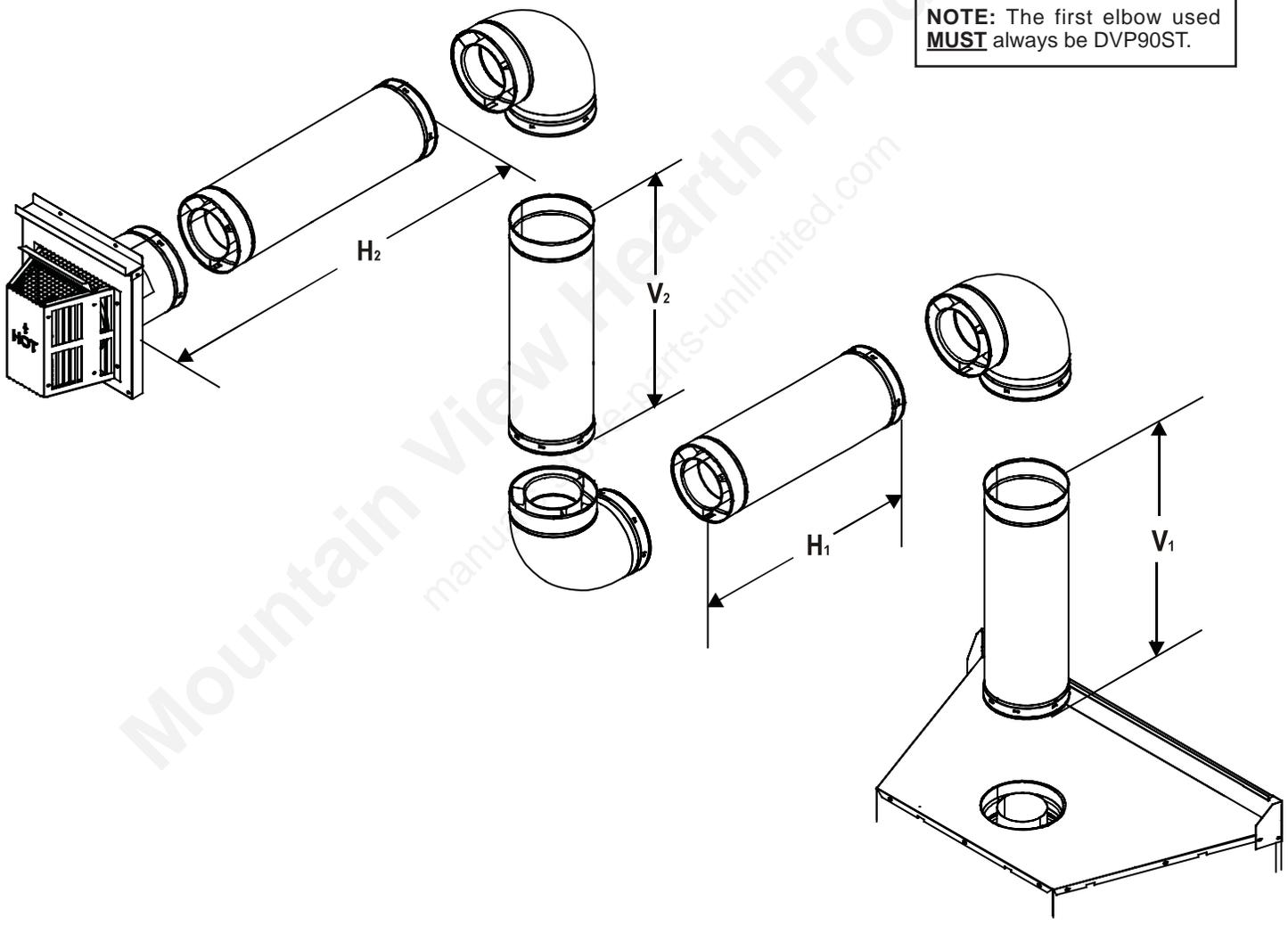
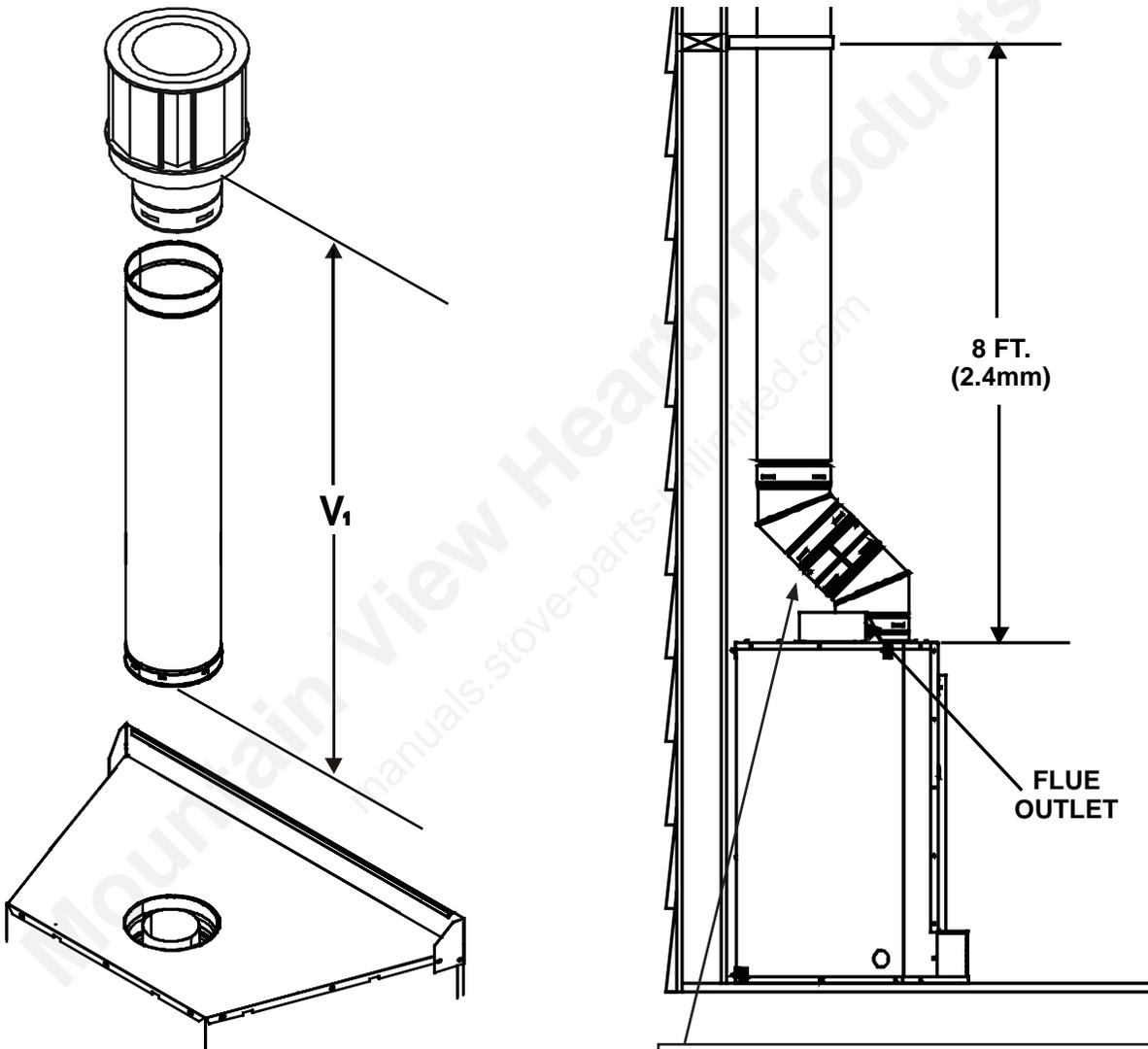


Figure 5.5

## 2. Top Vent - Vertical Termination

No Elbow

$V_1 = 46 \text{ ft. Max. (14.0 m)}$



**Note:** A 45° elbow may be attached directly to starting collars on unit only if used in conjunction with a return 45° elbow AND terminating vertical with  $V = 8$  feet MINIMUM.

A straight section of pipe can be used between the two 45° elbows.

Figure 5.6

## Two Elbows

V <sub>1</sub> Minimum		H <sub>1</sub> Maximum		V <sub>2</sub>
3 ft.	0.9 m	2 ft.	0.6 m	*
4 ft.	1.2 m	4 ft.	1.2 m	*
5 ft.	1.5 m	6 ft.	1.8 m	*
12 ft.	3.7 m	20 ft.	6.1 m	*

$V_1 + V_2 + H_1 = 40 \text{ ft (12.2 m)}$  Maximum  
 \*No specific restrictions on this value EXCEPT  
 $V_1 + V_2 + H_1$  cannot exceed 40 ft (12.2 m)

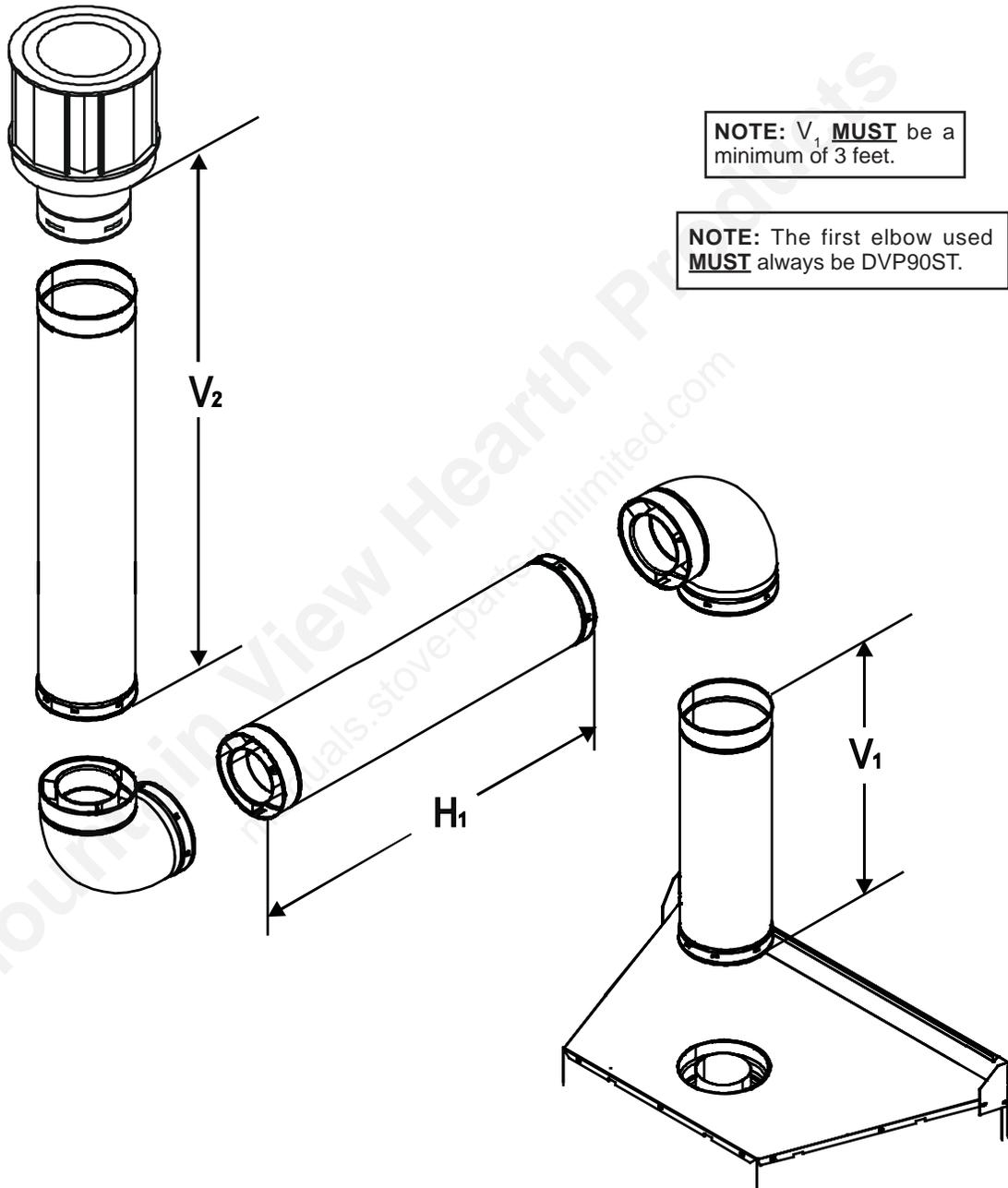
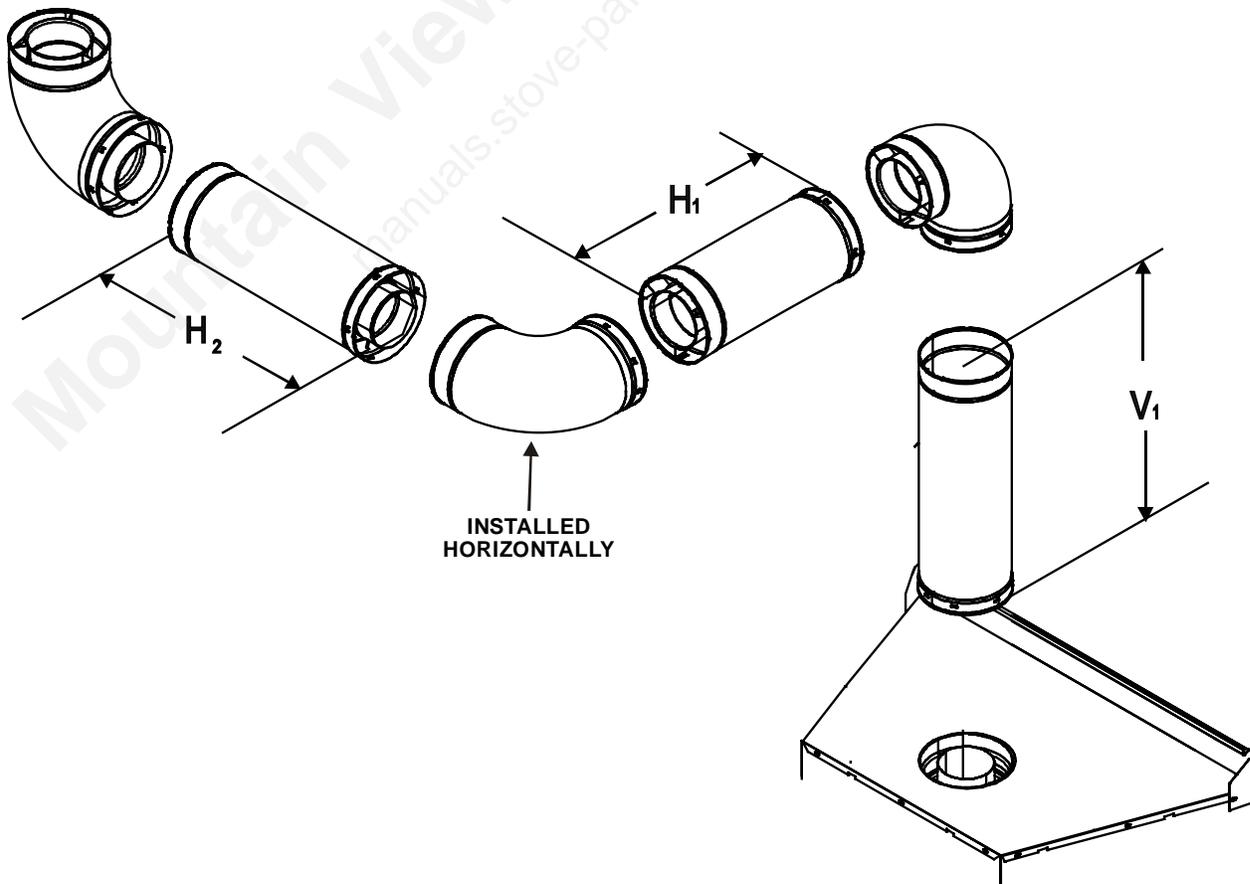
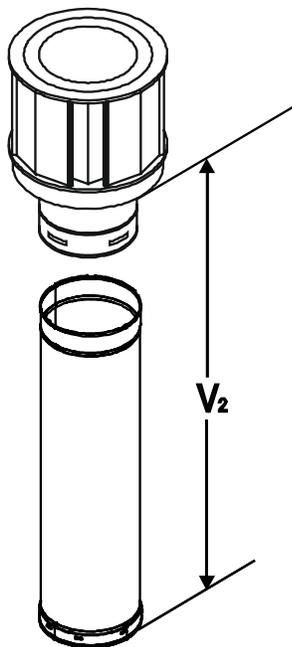


Figure 5.7

## 2. Top Vent - Vertical Termination - (continued)

### Three Elbows



$V_1$		$H_1 + H_2$		$V_2$
3 ft.	0.9 m	2 ft.	0.6 m	*
4 ft.	1.2 m	4 ft.	1.2 m	*
5 ft.	1.5 m	6 ft.	1.8 m	*
12 ft.	3.7 m	20 ft.	6.1 m	*

$H_1 + H_2 = 20$  ft (6.1 m) Maximum  
 \*No specific restrictions on this value EXCEPT  
 $V_1 + V_2 + H_1 + H_2 = 40$  ft (12.2 m) Maximum

**NOTE:**  $V_1$  **MUST** be a minimum of 3 feet.

**NOTE:** The first elbow used **MUST** always be DVP90ST.

Figure 5.8

# 6

## Vent Clearances and Framing

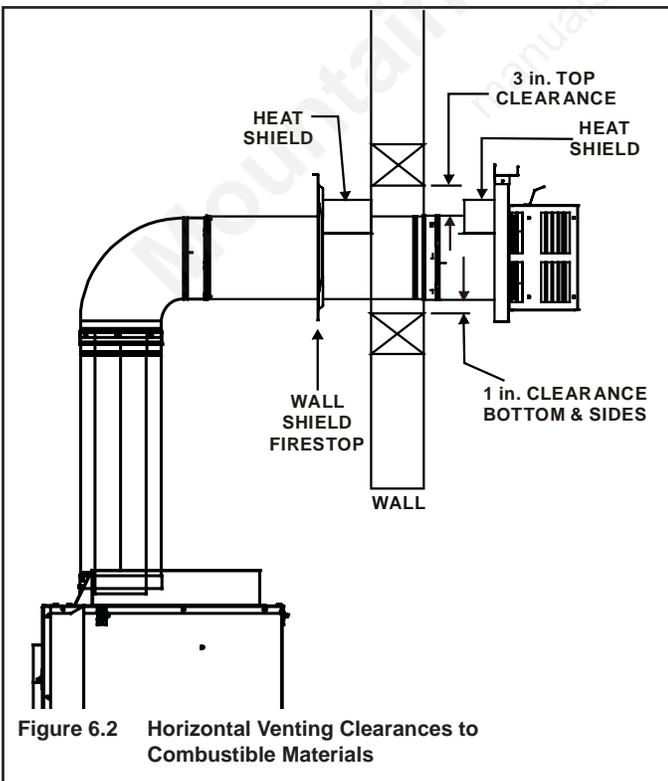
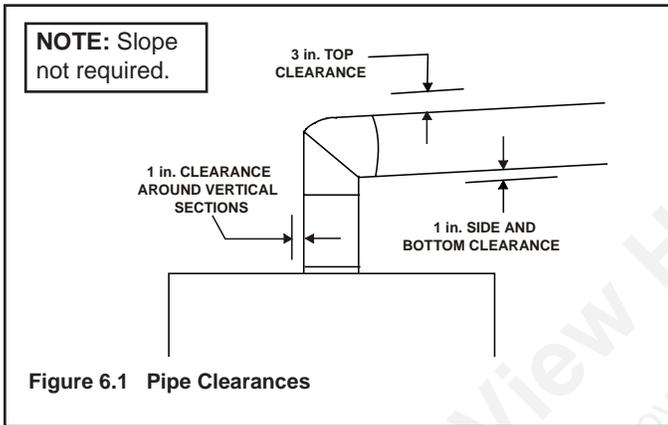
### A. Pipe Clearances to Combustibles

**WARNING**

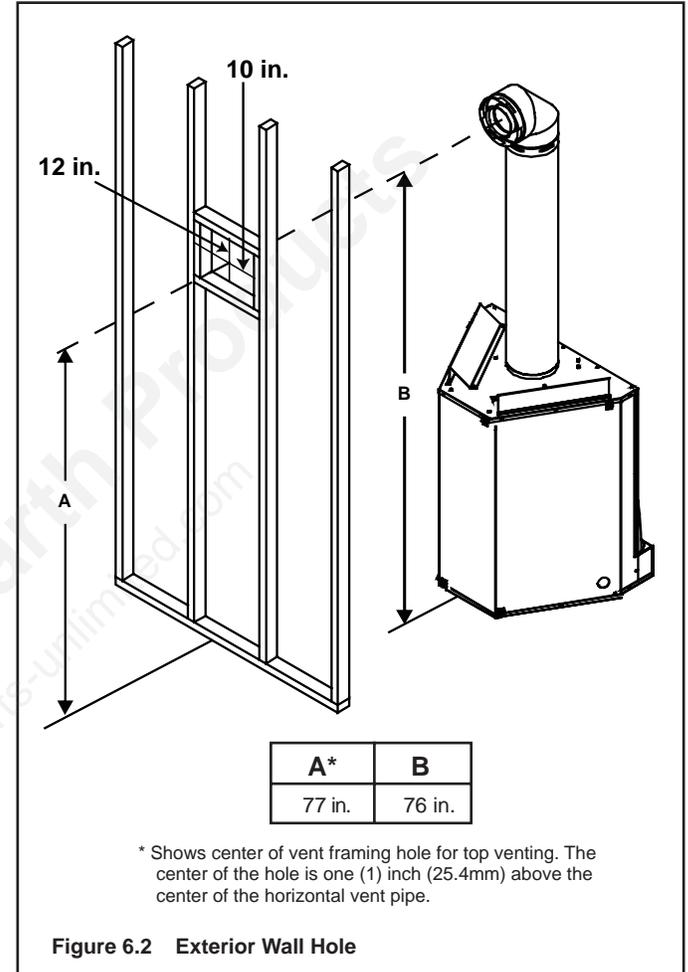
Fire Risk.  
Explosion Risk.  
Maintain vent clearance to combustibles as specified.

- Do not pack air space with insulation or other materials.

Failure to keep insulation or other materials away from vent pipe may cause fire.



### B. Wall Penetration Framing



#### Combustible Wall Penetration

Frame a hole in a combustible wall for an interior wall shield firestop, (Figure 6.2) whenever a wall is penetrated. Use same size framing materials as those used in the wall construction. The wall shield firestop maintains minimum clearances and prevents cold air infiltration.

#### Non-Combustible Wall Penetration

If the hole being penetrated is surrounded by noncombustible materials such as concrete, a hole with diameter one inch greater than the pipe is acceptable.

## C. Vertical Penetration Framing

**⚠ WARNING**

**Fire Hazard**

Keep loose materials or blown insulation from touching the vent pipe.

- National building codes recommend using attic shield to keep loose materials/blown insulation from contacting vent.
- Hearth & Home Technologies requires the use of an attic shield.

### Installing the Ceiling Firestop

- Frame an opening 10 inches by 10 inches whenever the vent system penetrates a ceiling/floor (see Figure 6.3).
- Frame the area with the same sized lumber as used in ceiling/floor joist.
- When installing a top vent vertical termination appliance the hole should be directly above the appliance, unless the flue is offset.
- Do not pack insulation around the vent. Insulation must be kept away from the pipe.

### Installing Attic Shield

**Note:** An additional ceiling firestop is not required if attic shield is used.

- Frame opening for attic shield.
- Attic shield may be installed above or below ceiling (see Figure 6.4).
- Secure with three fasteners on each side.
- Fold tabs at top of attic shield in toward vent pipe. Tabs must keep vent pipe centered within shield.
- Field construct additional shield height if insulation is deeper than height of attic shield.

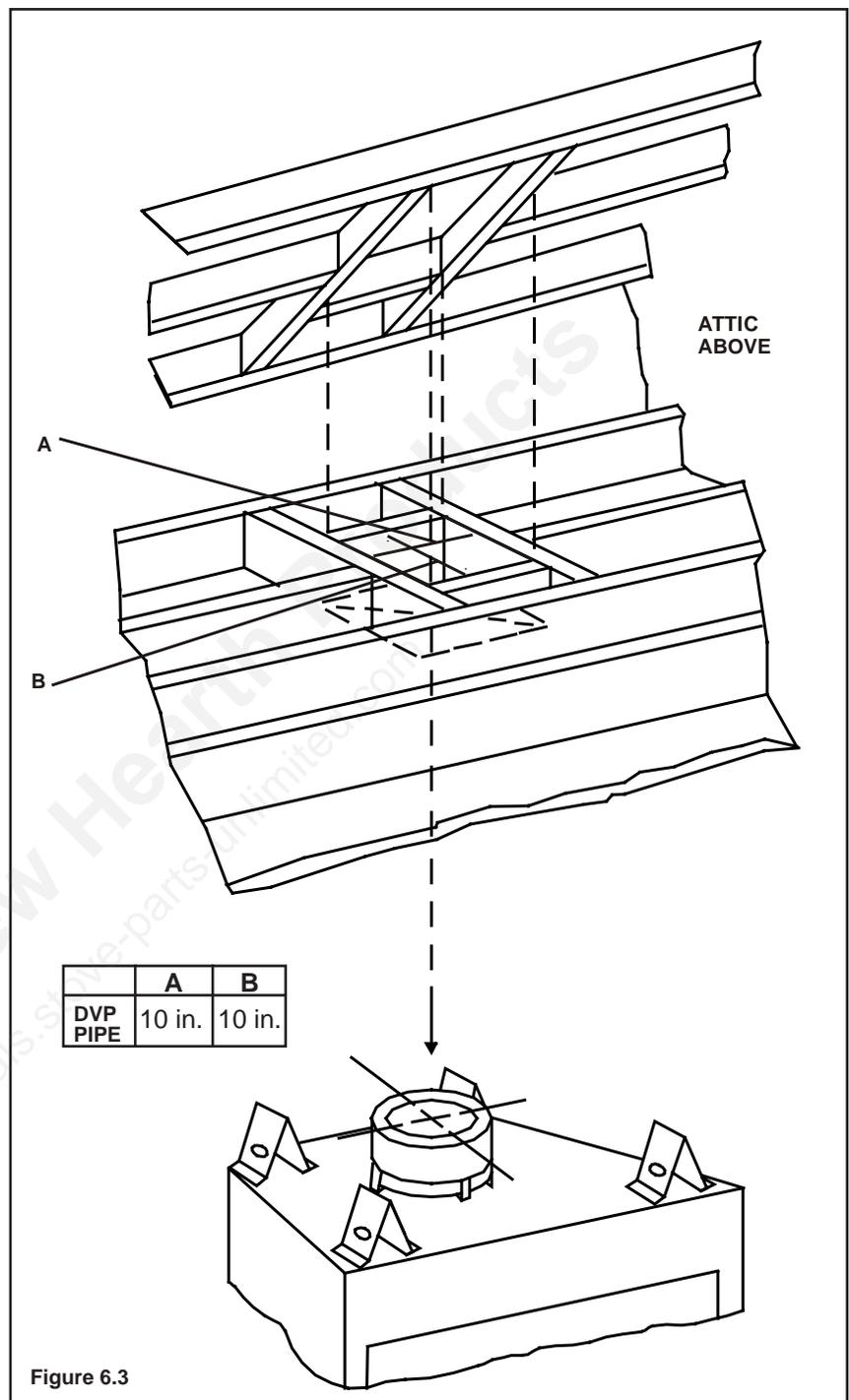


Figure 6.3

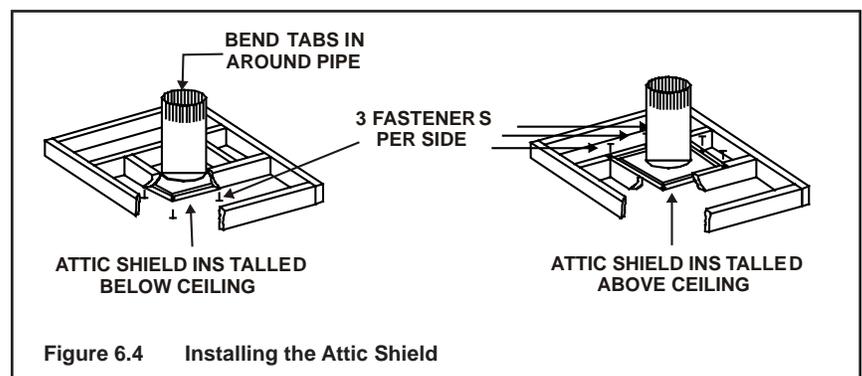


Figure 6.4 Installing the Attic Shield

# 7

## Appliance Preparation

### A. Securing and Leveling the Appliance

#### WARNING



##### Fire Risk.

- Prevent contact with sagging, loose insulation.
- Do NOT install against combustible materials such as exposed insulation, plastic and insulation backer.

#### CAUTION



##### Sharp Edges

- Wear protective gloves and safety glasses during installation.



The diagram shows how to properly position, level, and secure the appliance (see Figure 7.1). Nailing tabs are provided to secure the appliance to the framing members.

- Place the appliance into position.
- Level the appliance from side to side and front to back.
- Shim the appliance as necessary. It is acceptable to use wood shims.
- Bend out nailing tabs on each side.
- Keep nailing tabs flush with the framing.
- Secure the appliance to the framing by using nails or screws through the nailing tabs. Holes are provided in the basepan (inside the hearth) for securing to the floor.

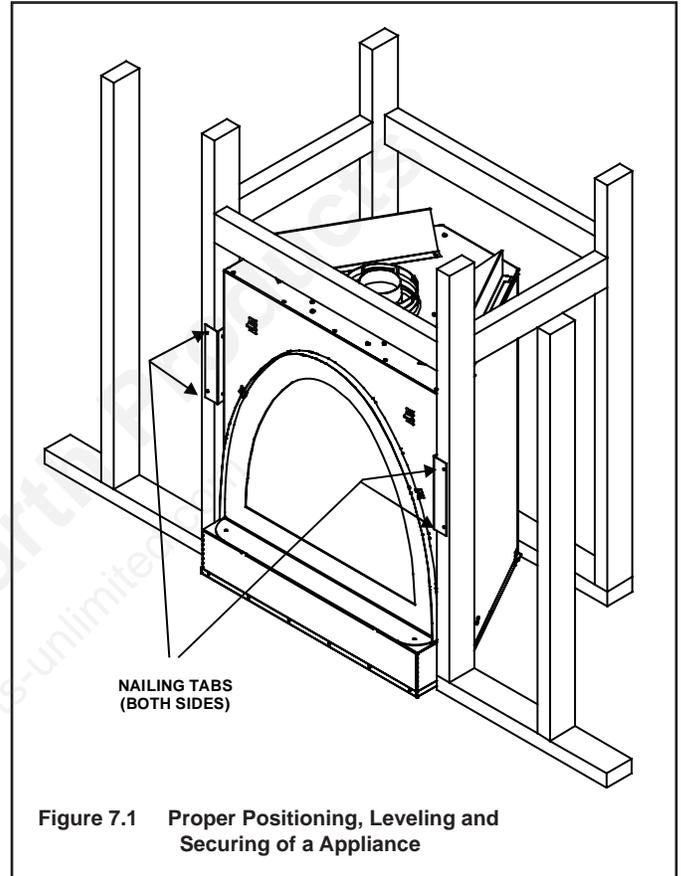


Figure 7.1 Proper Positioning, Leveling and Securing of a Appliance

#### WARNING

##### Fire Risk.

- ALWAYS maintain specified clearances around the appliance.
- Do NOT notch into the framing around the appliance spacers. Failure to keep insulation, framing or other material away from the appliance may cause fire.



# 8

## Installing Vent Pipe

### A. Assembly of Vent Sections

<b>⚠ WARNING</b>	
	Fire Risk
	Exhaust Fumes Risk
	Impaired Performance of Appliance
	<ul style="list-style-type: none"><li>• Overlap pipe slip sections at least 1-1/2 inches.</li><li>• Use pilot holes for screws.</li><li>• Screws must not exceed one inch long.</li><li>• Pipe may separate if not properly joined.</li></ul>

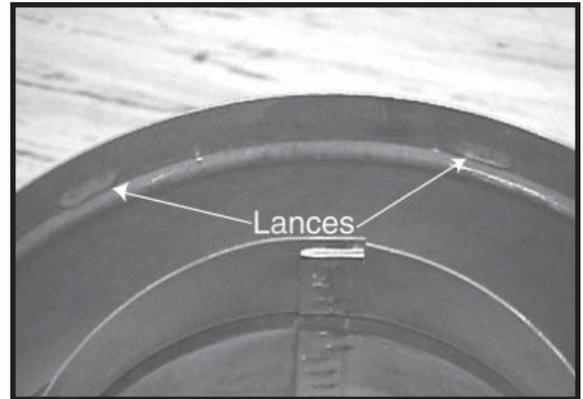


Figure 8.1 Lances

#### Attaching Vent to the Firebox Assembly

To attach the first pipe section to the collars, slide the male end of the inner vent of the pipe section over the inner collar on the firebox assembly. At the same time, slide the outer flue over the outer collar on the appliance. Push the pipe section into the appliance collar until all the lances (see Figure 8.1) have snapped in place. Tug slightly on the section to confirm it has completely locked into place.

#### Assembling Pipe Sections

Insert the inner flue of section A into the flared inner flue of section B.

Start the outer flue of section A over the outer flue of section B (see Figure 8.2). **Note:** The end of the pipe sections with the lances/tabs on it will face towards the appliance.

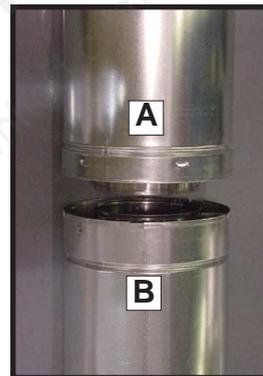


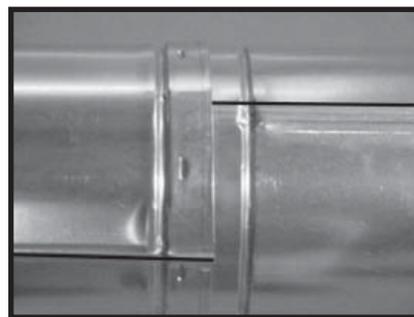
Figure 8.2



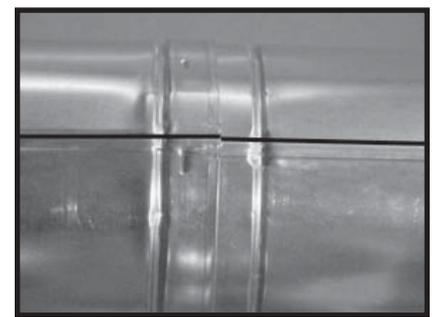
Figure 8.3

Once both inner and outer flues are started, press section A onto section B firmly until all lances have snapped into place. Check to make sure they have snapped together (see Figure 8.3) and the seams are not aligned (see Figure 8.4). Tug slightly on section A to confirm it has completely locked into place. It is acceptable to use screws no longer than 1 inch to hold outer pipe sections together. If predrilling holes, do NOT penetrate inner pipe.

**Note:** Make sure that the seams are not aligned to prevent unintentional disconnection.



CORRECT



INCORRECT

Figure 8.4 Seams

For 90° and 45° elbows that are changing the vent direction from horizontal to vertical, one screw minimum should be put in the outer flue at the horizontal elbow joint to prevent the elbow from rotating. Use screws no longer than 1 inch. If predrilling screw holes, do NOT penetrate inner pipe.

### Assembling Minimum Installations (MI) Sections

MI sections are non-unitized so that they can be cut to a certain length. Cut these sections to length from the non-expanded end (see Figure 8.5).

They can then be attached by first connecting the expanded end of the MI inner flue with the inner pipe from the adjacent pipe section and securing with three screws. The expanded portion of the MI inner flue must overlap completely with the unexpanded end of the adjacent pipe section.

The outer flue can then be inserted into the adjacent outer flue expanded end and attached to the next pipe section with three screws. The other end of the MI pipe section can then be attached by fitting another pipe section to it and snapping it together, as normal.

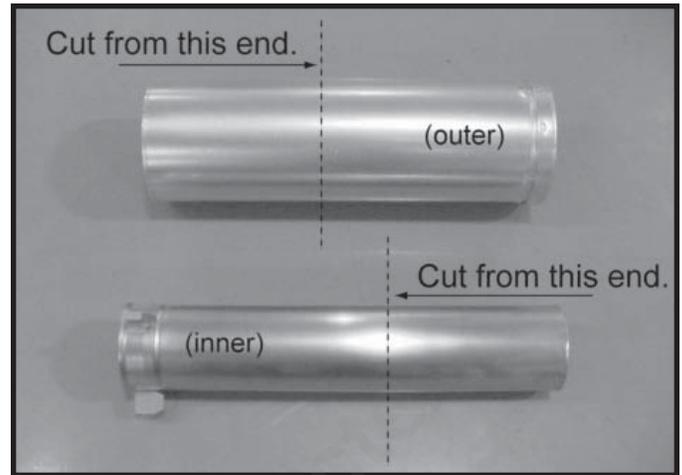


Figure 8.5

### Assembling DVP-12A Slip Sections

The outer flue of the slip section should slide over the outer flue of the pipe section and into (inner flue) the last pipe section (see Figure 8.6).

Slide together to the desired length, making sure that a 1-1/2 inch outer flue overlap is maintained between the pipe section and slip section.

The pipe and slip section need to be secured by driving two screws through the overlapping portions of the outer flues using the pilot holes (see Figure 8.7).

This will secure the slip section to the desired length and prevent it from separating. The slip section can then be attached to the next pipe section.

If the slip section is too long, the inner and outer flues of the slip section can be cut to the desired length.

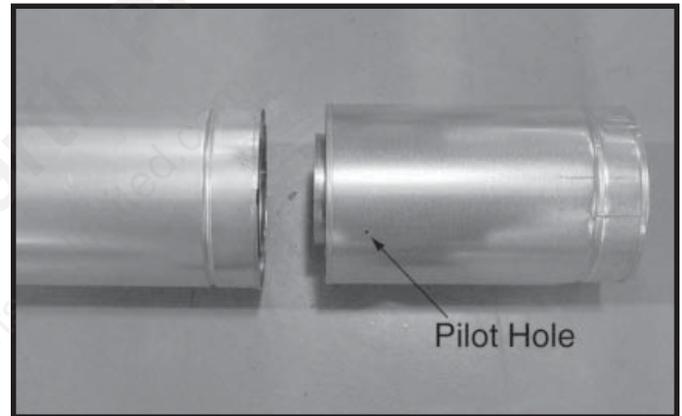


Figure 8.6 Slip Section Pilot Holes

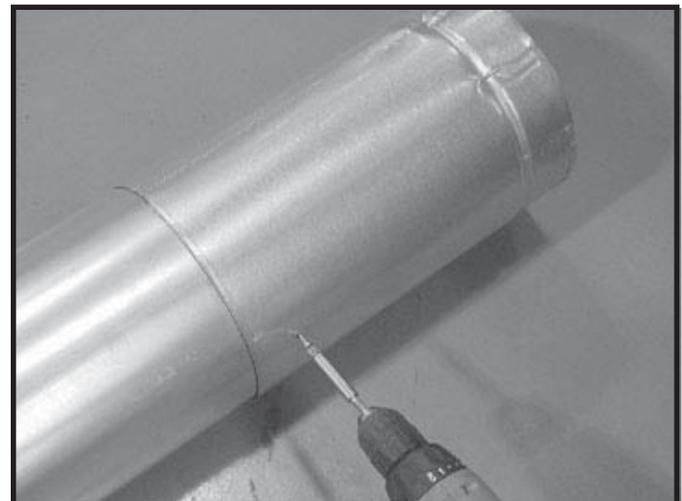


Figure 8.7 Screws into Slip Section

## Securing the Vent Sections

### Vertical Sections

Vertical sections of pipe must be supported every 8 feet after the 25 foot maximum unsupported rise. The vent support or plumber's strap (spaced 120° apart) may be used to do this (see Figure 8.8).

### Horizontal Sections

Horizontal sections of vent must be supported every 5 feet with a vent support or plumber's strap.

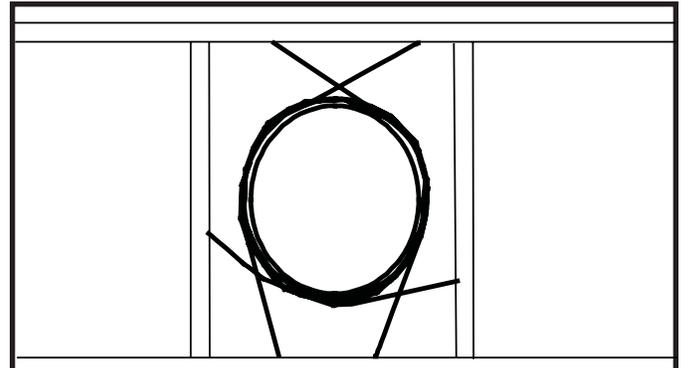


Figure 8.8 Securing Vertical Pipe Sections

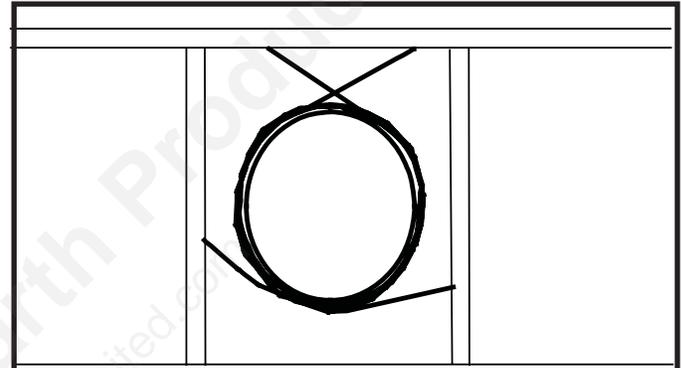


Figure 8.9 Securing Horizontal Pipe Sections

## B. Disassembly of Vent Sections

To disassemble any two pieces of pipe, rotate either section (see Figure 8.10), so that the seams on both pipe sections are aligned (see Figure 8.11). They can then be carefully pulled apart.

 <b>WARNING</b>	
	Fire Risk. Explosion Risk. Combustion Fume Risk.
	Use vent run supports per installation instructions.
	Connect vent sections per installation instructions.
	<ul style="list-style-type: none"><li>• Maintain all clearances to combustibles.</li><li>• Do NOT allow vent to sag below connection point to appliance.</li></ul>
Improper support may allow vent to sag or separate.	

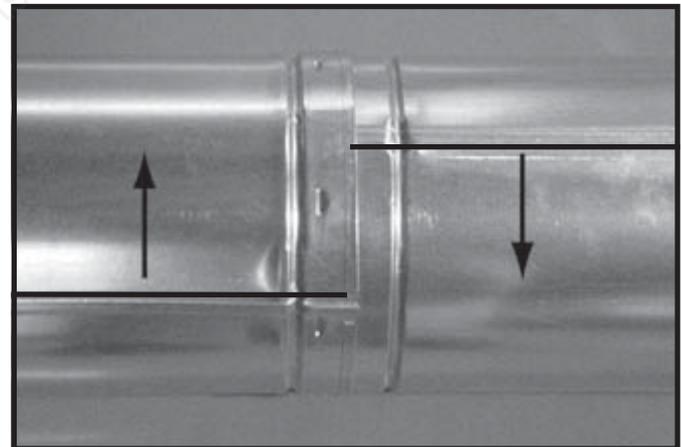


Figure 8.10 Rotate Seams for Disassembly

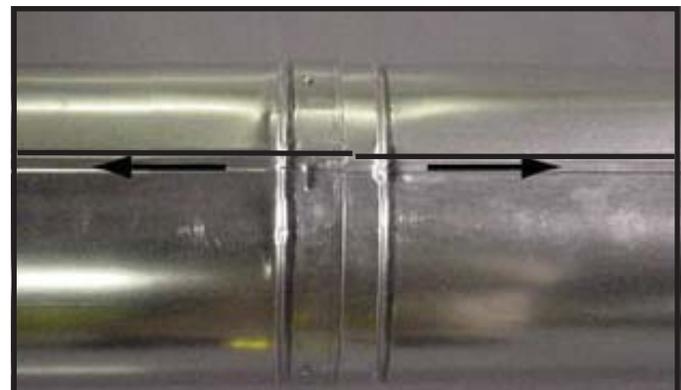


Figure 8.11 Align and Disassemble Vent Sections

## C. Installing Heat Shield and Horizontal Termination Cap

<b>⚠ WARNING</b>	
	Fire Hazard
	Impaired performance of appliance
	<ul style="list-style-type: none"> <li>Telescoping flue section of termination cap <b>MUST</b> be used when connecting pipe section to termination cap.</li> <li>Maintain a 1-1/2 inch minimum overlap on telescoping flue section of termination cap.</li> </ul>

<b>⚠ WARNING</b>	
	Fire Risk
	Exhaust Fumes Risk
	Impaired Performance of Appliance
	<ul style="list-style-type: none"> <li>Overlap pipe slip sections at least 1-1/2 inches.</li> <li>Use pilot holes for screws.</li> <li>Screws must not exceed 1 inch long.</li> <li>Pipe may separate if not properly joined.</li> </ul>

### Heat Shield Requirements for Horizontal Termination

For all horizontally vented appliances, a heat shield **MUST** be placed one inch above the top of the vent between the wall shield firestop and the base of the termination cap.

There are two sections of the heat shield. One section attaches to the wall shield firestop with two screws. The remaining section is attached to the cap in the same manner.

If the wall thickness does not allow the required 1-1/2 inch heat shield overlap, an extended heat shield must be used.

The extended heat shield will need to be cut to the thickness of the wall and be attached to the wall shield firestop. The small leg on the extended heat shield should rest on the top of the vent (pipe section) to properly space it from the pipe section (see Figure 8.12).

### Installing the Horizontal Termination Cap

Vent termination must not be recessed in the wall. Siding may be brought to the edge of the cap base.

Flash and seal as appropriate for siding material at outside edges of cap.

When installing a horizontal termination cap, follow the cap location guidelines as prescribed by current **ANSI Z223.1** and **CAN/CGA-B149** installation codes.

<b>⚠ WARNING</b>	
	Burn Risk
	<ul style="list-style-type: none"> <li>Local codes may require installation of a cap shield to prevent anything or anyone from touching the hot cap.</li> </ul>

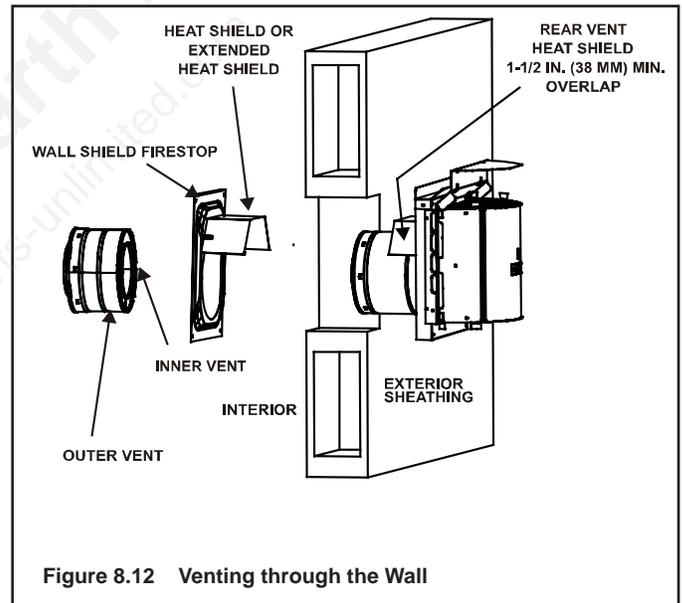


Figure 8.12 Venting through the Wall

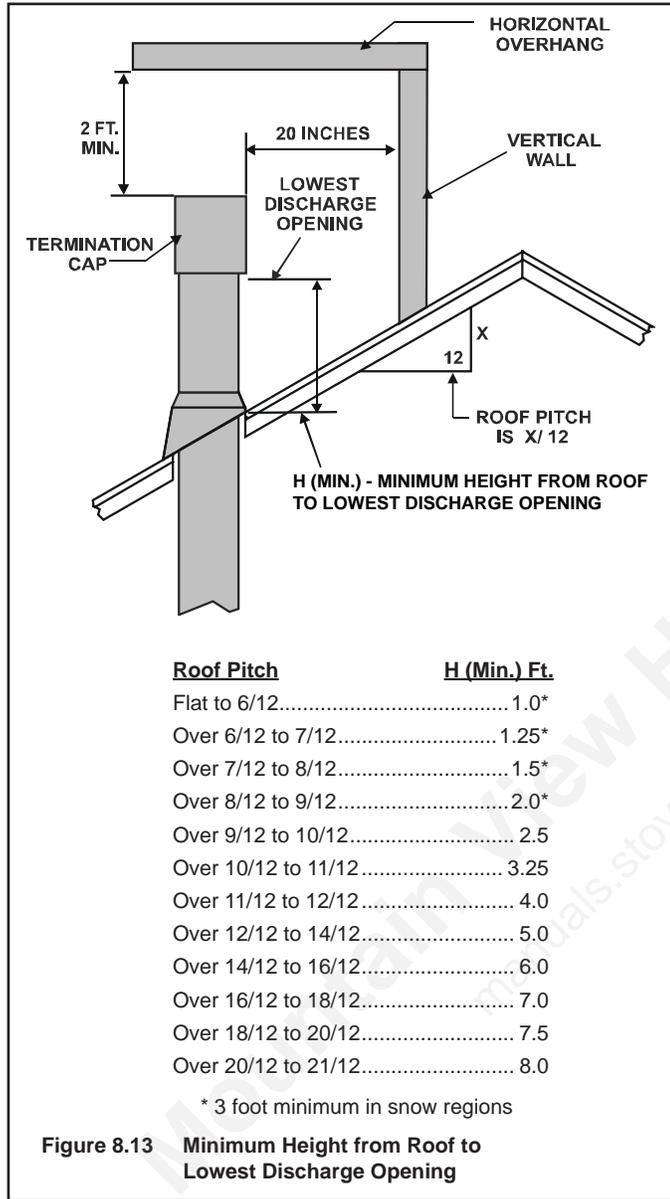
**NOTE:** Where required, an exterior wall flashing is available.

When penetrating a brick wall, a brick extension kit is available for framing the brick.

## D. Installing Roof Flashing and Vertical Termination Cap

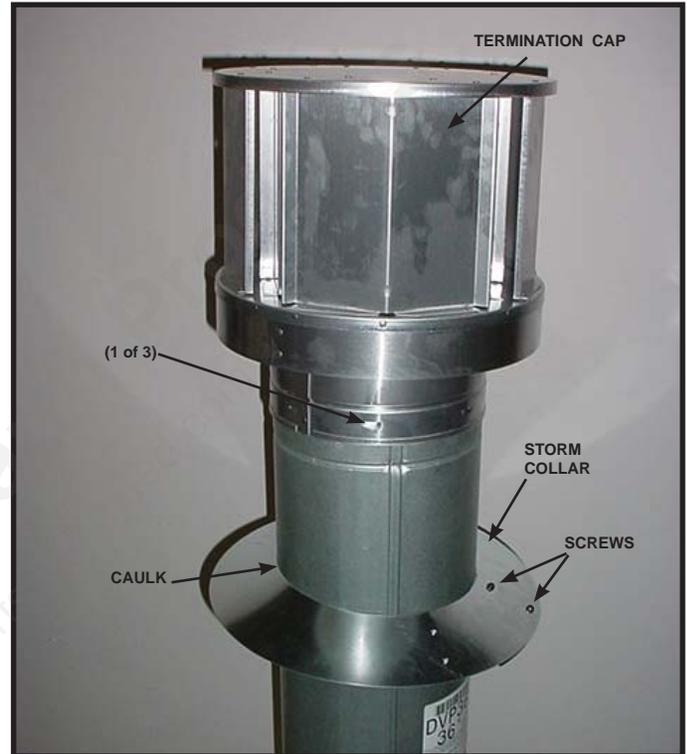
To install roof flashing see Figure 8.13.

For installation of vertical termination cap see minimum vent heights for various pitched roofs (see Figure 8.13).



To attach the vertical termination cap, slide the inner collar of the cap into the inner flue of the pipe section and place the outer collar of the cap over the outer flue of the pipe section.

Secure with three screws into the outer flue. Secure the cap by driving the three self-tapping screws (supplied) through the pilot holes in the outer collar of the cap into the outer flue of the pipe (see Figure 8.14).



**Figure 8.14**

### WARNING

**Fire Risk.**  
**Explosion Risk.**

Inspect external vent cap regularly.

- Ensure no debris blocks cap.
- Combustible materials blocking cap may ignite.
- Restricted air flow affects burner operation.

## Assembling and Installing Storm Collar

	<b>CAUTION</b>
	<p>Sharp Edges</p> <ul style="list-style-type: none"><li>• Wear protective gloves and safety glasses during installation.</li></ul> 

Connect both halves of the storm collar with two screws (see Figure 8.15).

Wrap the storm collar around the exposed pipe section and align brackets. Insert a bolt (provided) through the brackets and tighten nut to complete storm collar assembly (see Figure 8.16).

Slide the assembled storm collar down the pipe section until it rests on the roof flashing.

Caulk around the top of the storm collar (see Figure 8.14).



Figure 8.16 Assembling the Storm Collar Around the Pipe

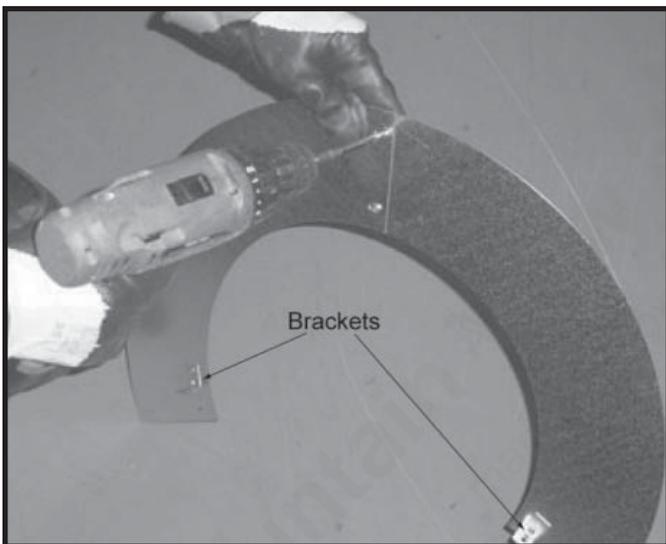


Figure 8.15 Assembling the Storm Collar

# 9

## Gas Information

### A. Fuel Conversions

Before making gas connections ensure that appliance being installed is compatible with the available gas type.

Any natural or propane gas conversions necessary to meet the appliance and locality needs must be made by a qualified technician using Hearth & Home Technologies specified and approved parts.

### B. Gas Pressures

Proper input pressures are required for optimum appliance performance. Gas line sizing requirements need to be made following NFPA51.

 **WARNING**



Fire Risk.  
Explosion Hazard.  
High pressure will damage valve.

- Disconnect gas supply piping **BEFORE** pressure testing gas line at test pressures above 1/2 psig.
- Close the manual shutoff valve **BEFORE** pressure testing gas line at test pressures equal to or less than 1/2 psig.

 **WARNING**



Verify inlet pressures.

- High pressure may cause overfire condition.
- Low pressure may cause explosion.
- Verify minimum pressures when other household gas appliances are operating.

Install regulator upstream of valve if line pressure is greater than 1/2 psig.

### C. Gas Connection

**NOTE:** Have the gas supply line installed in accordance with local building codes, if any. If not, follow ANSI 223.1. Installation should be done by a qualified installer approved and/or licensed as required by the locality. (In the Commonwealth of Massachusetts installation must be performed by a licensed plumber or gas fitter.)

**NOTE:** A listed (and Commonwealth of Massachusetts approved) 1/2 inch (13mm) T-handle manual shut-off valve and flexible gas connector are connected to the 1/2 inch (13mm) control valve inlet.

- If substituting for these components, please consult local codes for compliance.**

Refer to **Reference Section 16** for location of gas line access in appliance.

**NOTE:** Gas line may be run from either side of the appliance provided the hole in the outer wrap does NOT exceed 2-1/2 inches in diameter and does not penetrate the firebox.

 **WARNING**



Gas Leak Risk

- Support control when attaching pipe to prevent bending gas line.

**NOTE:** The gap between supply piping and gas access hole may be caulked with high temperature caulk or stuffed with non-combustible, unfaced insulation to prevent cold air infiltration.

Pressure requirements for appliance are shown in the table below. Minimum pressures must be met when other household gas appliances are operating.

Pressure	Natural Gas	Propane
Minimum Inlet Pressure	5.0 inches w.c.	11.0 inches w.c.
Maximum Inlet Gas Pressure	14.0 inches w.c.	14.0 inches w.c.
Manifold Pressure	3.5 inches w.c.	10.0 inches w.c.

- Ensure that gas line does not come in contact with outer wrap of appliance. Follow local codes.
- Incoming gas line should be piped into the valve compartment and connected to the 1/2 inch connection on the manual shutoff valve.

 <b>WARNING</b>	
	<p>Fire or Explosion Hazard</p> <ul style="list-style-type: none"> <li>• Gas buildup during line purge may ignite.</li> <li>• Purge should be performed by qualified technician.</li> <li>• Ensure adequate ventilation.</li> <li>• Ensure there are no ignition sources such as sparks or open flames.</li> </ul>
	

- A small amount of air will be in the gas supply lines. When first lighting appliance it will take a short time for air to purge from lines. When purging is complete the appliance will light and operate normally.

 <b>WARNING</b>	
	<p><b>CHECK FOR GAS LEAKS</b></p> <p>Explosion Risk Fire Risk Asphyxiation Risk</p> <ul style="list-style-type: none"> <li>• Check all fittings and connections.</li> <li>• Do not use open flame.</li> <li>• After the gas line installation is complete, all connections must be tightened and checked for leaks with a commercially-</li> </ul>
	<p>available, non-corrosive leak check solution. Be sure to rinse off all leak check solution following testing.</p> <p>Fittings and connections may have loosened during shipping and handling.</p>

 <b>WARNING</b>	
	<p>Fire hazard.</p> <p>Do NOT change the valve settings.</p> <ul style="list-style-type: none"> <li>• This valve has been preset at the factory.</li> <li>• Changing valve settings may result in fire hazard or bodily injury.</li> </ul>

## HIGH ALTITUDE INSTALLATIONS

U.L. Listed gas appliances are tested and approved without requiring changes for elevations from 0 to 2000 feet in the U.S.A. and Canada.

When installing this appliance at an elevation above 2000 feet, it may be necessary to decrease the input rating by changing the existing burner orifice to a smaller size. Input rate should be reduced by 4% for each 1000 feet above a 2000 foot elevation in the U.S.A., or 10% for elevations between 2000 and 4500 feet in Canada. If the heating value of the gas has been reduced, these rules do not apply. To identify the proper orifice size, check with the local gas utility.

If installing this appliance at an elevation above 4500 feet (in Canada), check with local authorities.

# 10

## Electrical Information

### A. Recommendation for Wire

This appliance requires 110-120 VAC be wired to the junction box either for proper operation of the appliance (Intellifire ignition).

**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 C221.1**.

### B. Connecting to the Appliance

	<p><b>WARNING</b></p> <p>Wire 110V to electrical junction box. Do NOT wire 110V to valve. Do NOT wire 110V to wall switch.</p> <ul style="list-style-type: none"><li>• Incorrect wiring will damage millivolt valves.</li><li>• Incorrect wiring will override IPI safety lock-out and may cause explosion.</li></ul>
-----------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

- This appliance may be used with a wall switch, wall mounted thermostat and/or a remote control.
- If using thermostat use one compatible with a millivolt gas valve system.
- Follow parameters for locating thermostat (see individual thermostat instructions) to ensure proper operation of appliance.
- Use low resistance thermostat wire for wiring from ignition system to the wall switch and thermostat.
- Keep wire lengths short as possible by removing any excess wire length.
- Low voltage and 110 VAC voltage cannot be shared within the same wall box.

### C. Intellifire Ignition System Wiring

This appliance requires a 110 VAC supply to the appliance junction box for operation. A wiring diagram is shown in Figure 10.2.

This appliance is equipped with an Intellifire control valve which operates on a 3 volt system.

This appliance is supplied with a battery pack and a 3 volt AC transformer, which requires the installation of the supplied junction box. It is highly recommended that the junction box be installed at this time to avoid reconstruction.

The battery pack requires two D cell batteries (not included).

**NOTE:** Batteries cannot be placed in the battery pack while using the 3 volt AC transformer. The transformer must be unplugged if the battery pack is used or battery life will be reduced.

Wiring to the battery pack is left disconnected in order to conserve battery life. In the case of a loss of power, simply connect red and black wire leads to activate battery power (connect red to red, black to black). The fireplace can be used as necessary. Once power (110 VAC) is restored, disconnect red and black wire leads to extend battery life.

### CAUTION

Battery polarity must be correct or module damage will occur.

### Optional Accessories Requirements

Wiring for optional accessories should be done now to avoid reconstruction.

### D. Wall Switch (Required)

A wall switch must be installed of this fireplace. This will allow the unit to operate if the power goes out (battery operation).

Position the wall switch in the desired position on the wall. An assembly of 18 ft of 20 AWG is provided with the appliance to connect the wall switch to the appliance. Instead of the supplied assembly, wire with a length of 25 ft or less and a gauge of 20 AWG through 14 AWG is acceptable. The wire needs a jacket with a temperature rating of 140°F (60°C) or higher. At the appliance connect the wire to the ON/OFF switch pigtails.

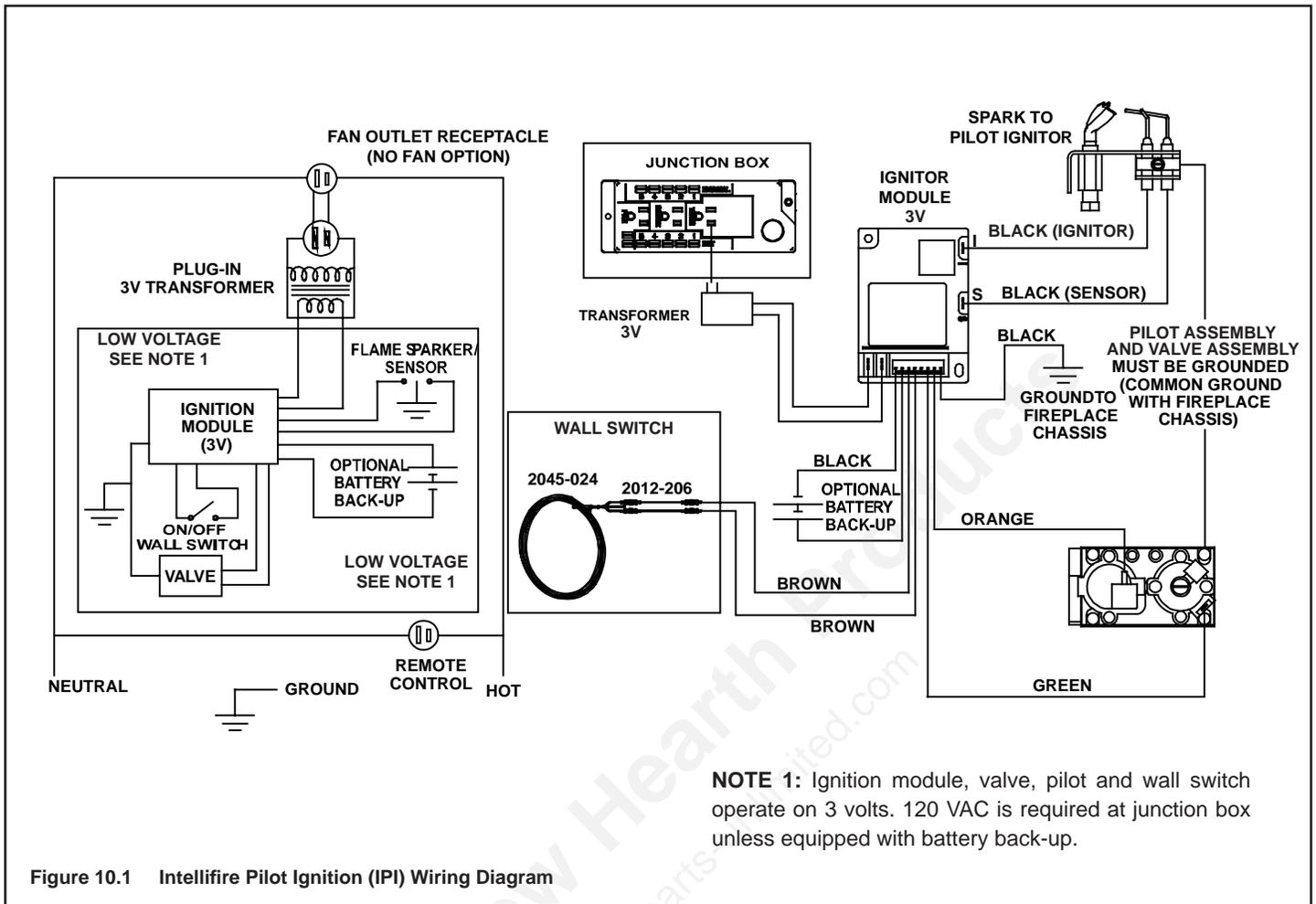


Figure 10.1 Intellifire Pilot Ignition (IPI) Wiring Diagram

### CAUTION

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

### WARNING



- Shock hazard.
- Replace damaged wire with type 105° C rated wire.
  - Wire must have high temperature insulation.

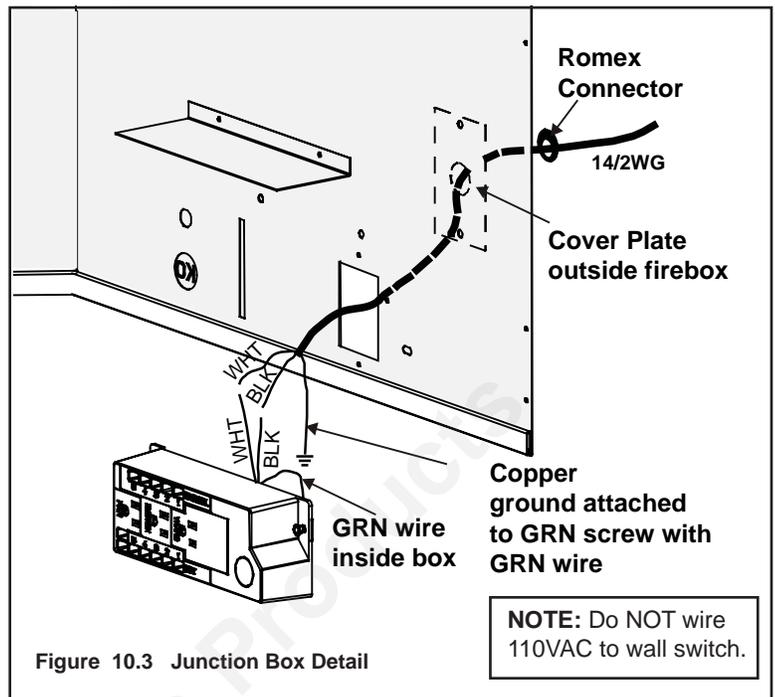
## E. Junction Box Installation

If the box is being wired from the **OUTSIDE** of the appliance:

- Remove the cover plate located on the outer shell - right side (see Figure 10.3).
- Install the supplied Romex™ connector in the cover plate.
- Feed the necessary length of wire through the connector.
- Make all necessary wire connections and reattach the cover plate to the outer shell.

If the box is being wired from the **INSIDE** of the appliance:

- Remove the screw attaching the junction box/receptacle to the outer shell, rotate the junction box inward to disengage it from the outer shell (see Figure 10.3).
- Pull the electrical wires from outside the appliance through this opening into the valve compartment.

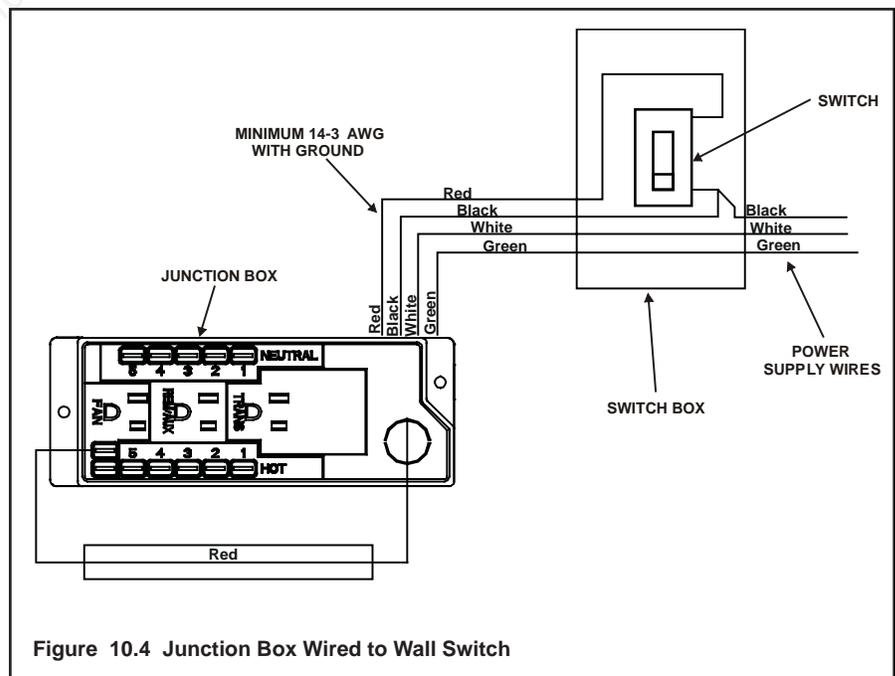


- Feed the necessary length of wire through the connector.
- Make all necessary wire connections to the junction box/receptacle and assemble the junction box/receptacle to the outer shell.

## F. Wall Switch Installation for Fan (Optional)

If the box is being wired to a wall mounted switch for use with a fan (See Figure 10.4):

- The power supply for the appliance must be brought into a switch box.
- The power can then be supplied from the switch box to the appliance using a minimum of 14-3 with ground wire.
- At the switch box connect the black (hot) wire and red (switch leg) wire to the wall switch as shown.
- At the appliance connect the black (hot), white (neutral) and green (ground) wires to the junction box as shown.
- Add a 1/4 inch insulated female connector to the red (switch leg) wire, route it through the knockout in the face of the junction box, and connect to the top fan switch connector (1/4 inch male) as shown.

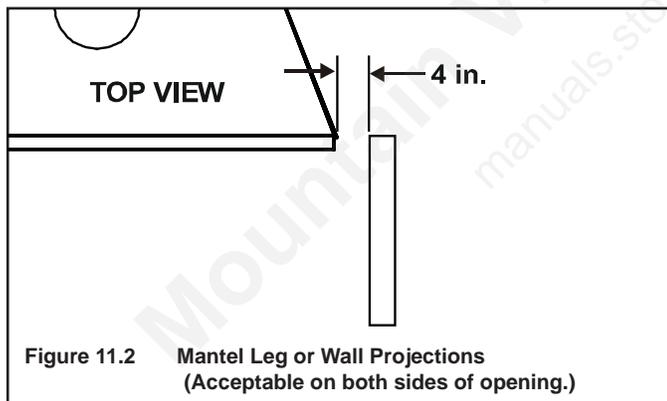
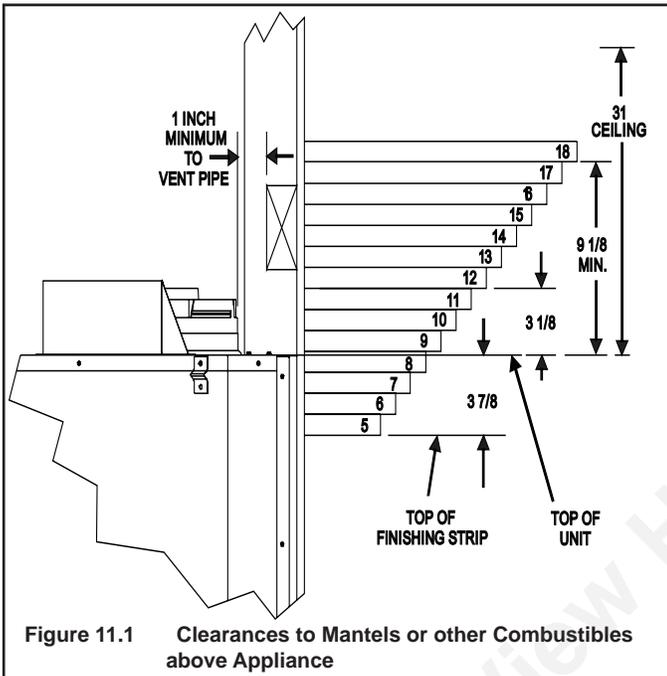


# 11

## Finishing

### A. Mantel Projections

Figure 11.1 shows the minimum vertical and corresponding maximum horizontal dimensions of appliance mantels or other combustible projections above the top front edge of the appliance.



### B. Facing Material

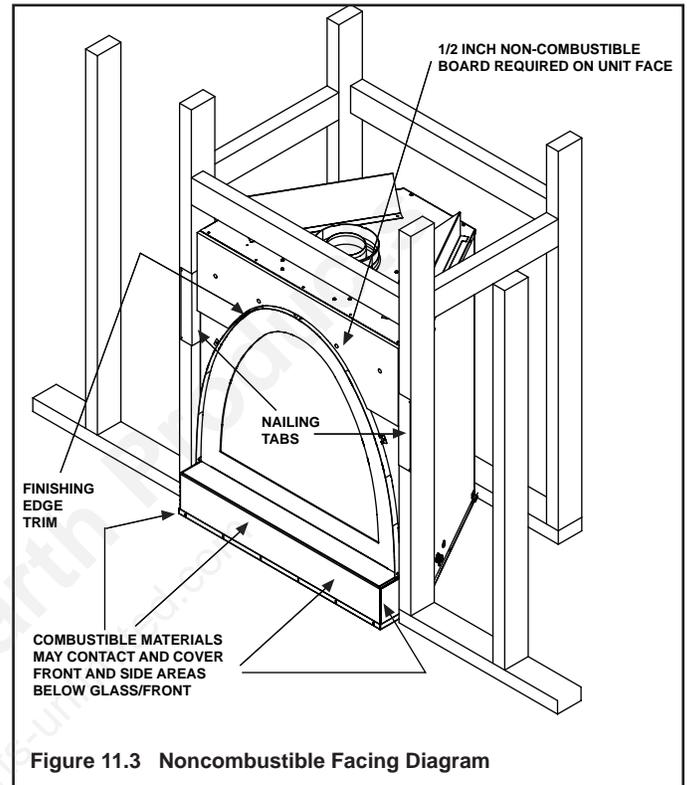
**WARNING**

**Fire Risk.**  
Do NOT obstruct air inlet or outlet grilles.  
Do NOT modify grilles.

- Modifying or covering grilles could cause temperature rise and fire hazard.

Finishing materials must not interfere with:

- Air flow through grilles or louvers.
- Operation of louvers or doors.
- Access for service.



**WARNING**

**Risk of Fire**

- Non-combustible clearances **MUST** be maintained.
- Sheetrock, wood or other combustibles must **NOT** be used as sheathing or facing in the non-combustible zone.
- See **Section 11** for proper clearances.
- See **Section 1** for combustible/non-combustible definitions.

**WARNING**

**Fire Risk.**

Finish all edges and fronts to clearances and specifications listed in manual.

- Black metal appliance front may be covered with noncombustible material only.
- Do NOT overlap combustible materials onto appliance front.
- Install combustible materials only up to specified clearances on top, front and side.
- Seal joints between the finished wall and appliance top and sides using only a 300°F minimum sealant.

## C. Finishing Styles

This model has multiple installation and finishing options. The following section describe three basic installations.

**Note:** A 1/2 inch clearance must be maintained between combustible materials and the front face of the fireplace.

### OPTION A: Flush Wall Finish

Kiva-style finished in a straight wall (see Figure 11.4).

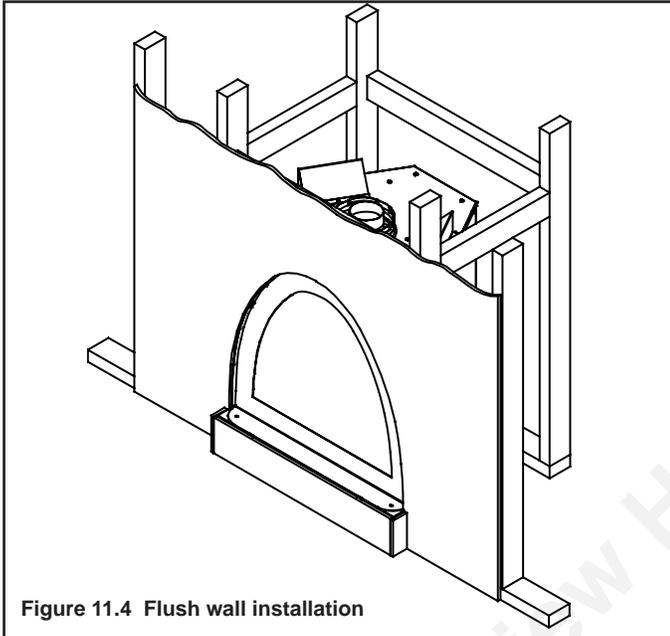


Figure 11.4 Flush wall installation

- Unit is installed using framing dimensions found in Figure 3.2.
- Do not use nailing tabs provided on unit sides for Option A.
- Nailing tabs found in manual bag assembly or in cardboard sleeve of packing. Install nailing tabs using screws on upper unit sides (see Figure 11.3).
- ➔ This places unit back 1/2 inch from framing studs such that drywall or other material can be brought directly across non-combustible board up to finish edge trim.

➔

	<b>WARNING</b>
	<p>Fire Risk.</p> <p>1/2 Inch non-combustible board installed on front face of fireplace <b>MUST</b> remain if using combustible finishing materials.</p>

- A cardboard template is printed on unit shipping carton and may be used to help cut drywall or other finishing materials. Simply cut along line and use it as a template.

- Drywall or other finishing materials may be finished all the way up to the finishing edge trim or unit front face, but **MUST NOT** extend inside of finishing edge trim.

## CAUTION

Finishing materials cut inside the provided template will cause the door to not fit.

- Finishing materials may be fastened or secured to unit below the glass/front opening.

### OPTION B: Kiva-style Arch

The second installation option requires the construction of a kiva-style arch. This option recesses the unit into the wall such that construction of a hearth is not necessary (see Figure 11.5).

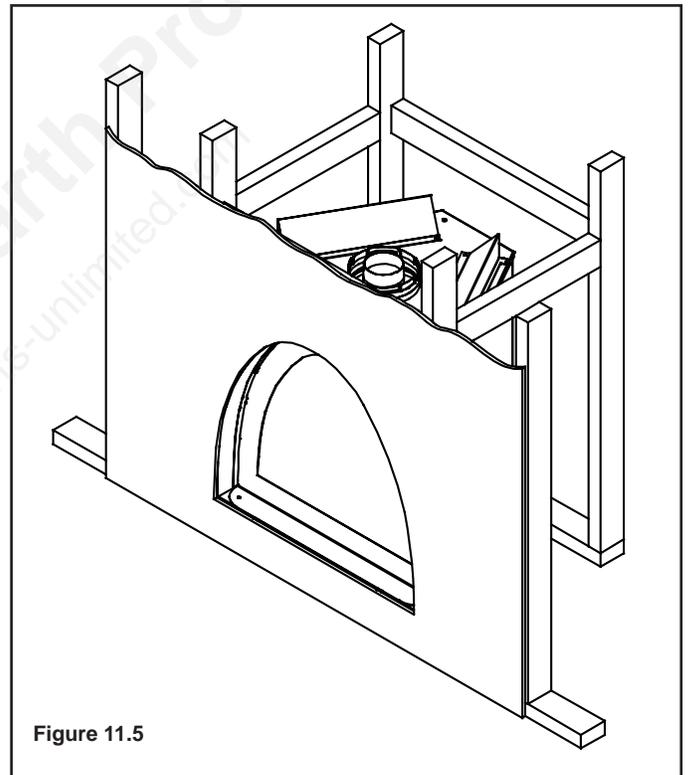


Figure 11.5

- Framing depth increases from that shown in Figure 3.2, (Dimension C). Dimension C will vary depending on the depth of the desired kiva-style arch (see Figure 11.5).
- Once depth of desired kiva-style arch is determined (minimum of 3-3/32 inches and maximum 5 inches), add that to Dimension C from Figure 3.2. Level, set and secure fireplace using nailing tabs provided on fireplace sides. Secure with screws or nails into **BACK** of framing studs.
- Kiva-style arch dimensions: Maximum depth equals 5 inches (includes finish wall surface). Minimum depth equals 3-3/32 inches.

**NOTE:** Previous numbers are for combustible construction numbers. Arch may protrude up to 5-1/2 inches maximum as measured from unit front face.

**NOTE:** The kiva-style arch depth may be any size if using noncombustible materials i.e. concrete, steel, plaster, etc.

- A template is provided on unit shipping carton. Simply cut along the line and use as a template when constructing kiva-style arch (see Figure 11.6).

### CAUTION

Template for kiva-style arch represents MINIMUM inside dimensions. When constructing kiva-style arch, you must add thickness of finishing materials to achieve proper size of finished arch.

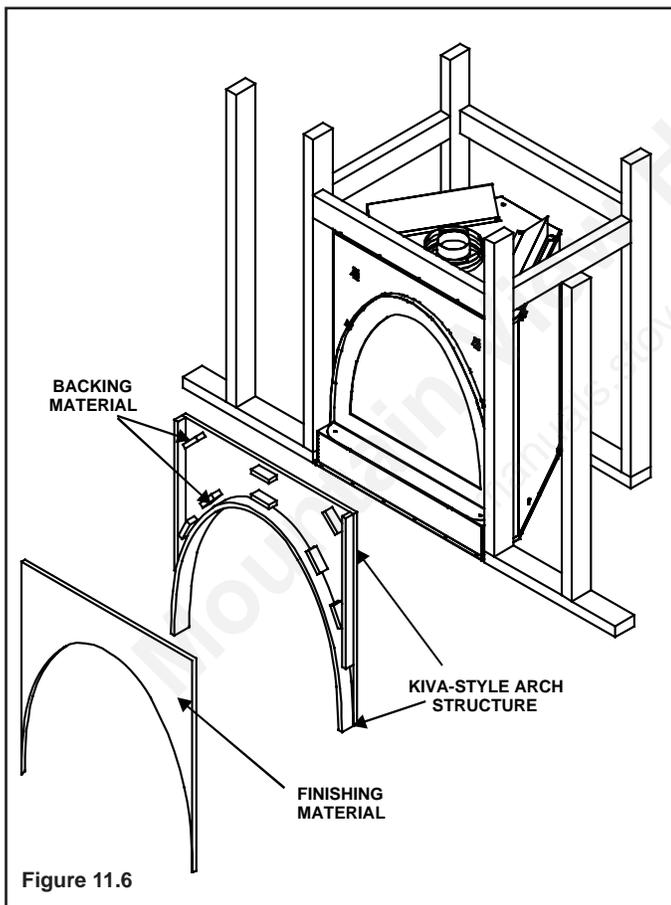


Figure 11.6

- Inside of the kiva-style arch can be finished using combustible materials. For example, thin drywall may be layered to form around curved arch.

### OPTION C: SOUTHWESTERN kiva-style

The third installation option illustrated is a corner-installation with custom finishing. This option requires advanced finishing methods involving either combustible or non-combustible construction materials (see Figure 11.7).

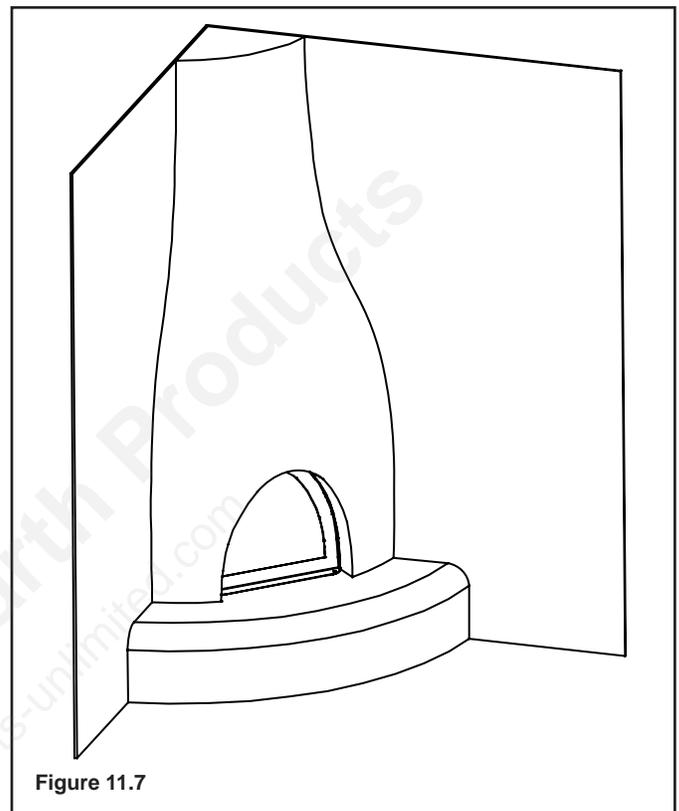


Figure 11.7

- A template is provided on the unit shipping carton. Simply cut along the line and use as a template for construction purposes.
- The cardboard template provided represents MINIMUM inside dimensions of the finished wall surface.
- If finishing with plaster or drywall, a finish edge trim is provided around door front on unit. Finishing materials MUST not extend inside of the finish edge trim.

### CAUTION

Finishing materials cut inside the provided template or inside finish edge trim will cause the door not to fit.

### WARNING

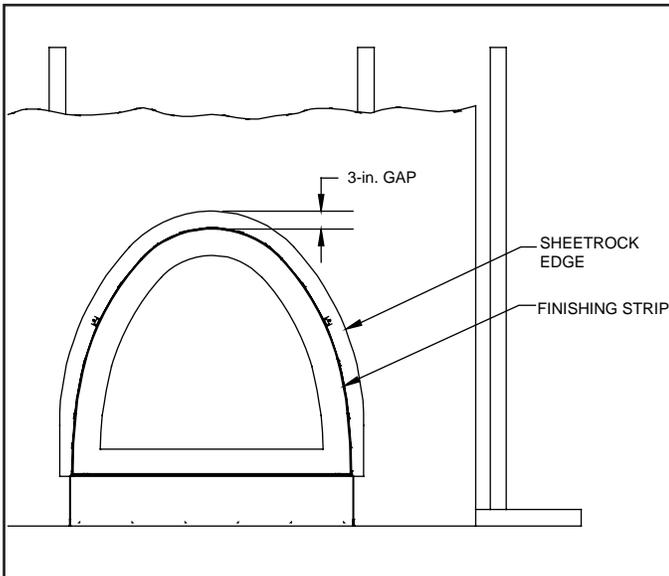


Fire Risk.

Follow minimum specified clearances found in **Section 16**, (Appliance Dimensions Diagram) and on fireplace exterior if using combustible framing materials.

➔ **OPTION D: Flush Wall Finish with Luxor Surround**

Kiva-style finished in a straight wall (see Figure 11.8).



**Figure 11.8 Flush wall installation with Luxor Surround**

- Unit is installed using framing dimensions found in Figure 3.2.
- Do not use nailing tabs provided on unit sides for Option D.
- Nailing tabs found in manual bag assembly or in cardboard sleeve of packing. Install nailing tabs using screws on upper unit sides (see Figure 11.3).
- ➔• This places unit back 1/2 inch from framing studs such that drywall or other material can be brought directly across non-combustible board up to finishing strip.

	<b>WARNING</b>
	<p>Fire Risk.</p> <p>➔ 1/2 Inch non-combustible board installed on front face of fireplace <b>MUST</b> remain in place if using combustible finishing materials.</p>

- A cardboard template is printed on unit shipping carton and may be used to help cut drywall or other finishing materials. Simply cut along line and use it as a template. For Luxor Surround, cut an additional 3 in. wider than the template.
- ➔

# 12

## Appliance Setup

### A. Remove Shipping Materials

Remove shipping materials from inside or underneath the firebox.

### B. Clean the Appliance

Clean/vacuum any sawdust that may have accumulated inside the firebox or underneath in the control cavity.

### C. Accessories

Install approved accessories per instructions included with accessories. See Service Parts List for appropriate accessories. Refer to **Section 16**.

	<b>WARNING</b>
	<p>Shock or fire risk. Use <b>ONLY</b> optional accessories approved for this appliance.</p> <ul style="list-style-type: none"><li>• Using non-listed accessories voids warranty.</li><li>• Using non-listed accessories may result in a safety hazard.</li><li>• Only Hearth &amp; Home Technologies approved accessories may be used safely.</li></ul>

### D. Lava Rock and Ember Placement

<b>WARNING</b>	
	<p>Explosion Risk.</p> <ul style="list-style-type: none"><li>• Follow ember placement instructions in manual.</li><li>• Do <b>NOT</b> place embers directly over burner ports.</li><li>• Replace ember material annually.</li></ul> <p>Improperly placed embers interferes with proper burner operation.</p>

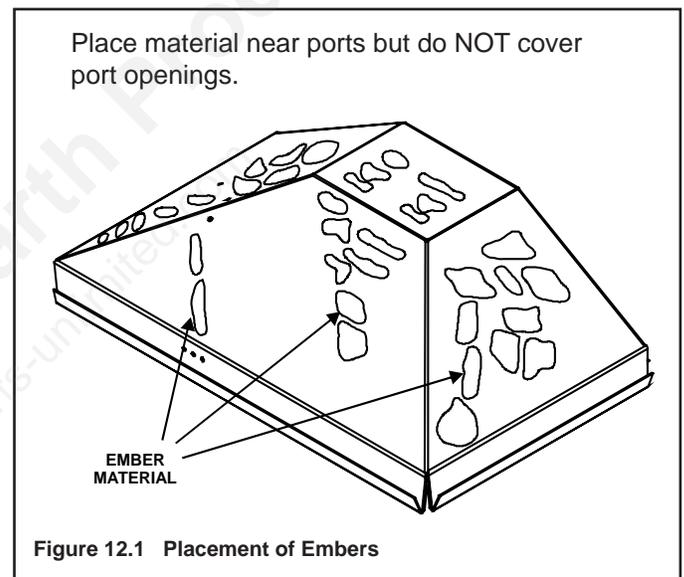
#### Placing the Lava Rock

Place the lava rock on the bottom of the firebox. Evenly spread the lava rocks with your hand.

#### Placing the Ember Material

Ember material is shipped with this gas appliance. To place the ember material:

- Embers **CANNOT** be placed directly over ports.
- When placing Glowing Embers® onto the burner care should be taken so that the ports are not covered. Place the dime-size ember pieces near the ports, but not on the ports (see Figure 12.1). Failure to follow this procedure will likely cause lighting and sooting problems.



- Save the remaining ember materials for use during appliance servicing. The embers provided should be enough for 3 to 5 applications.

## E. Positioning the Logs

If the gas logs have been factory installed they should not need to be positioned. If the logs have been packaged separately, refer to the following instructions.

## Log Assembly: LOGS-AZTEC

**CAUTION:** Logs are fragile! Carefully remove the logs from the packaging. Before placing logs, remove shipping bracket and tie straps from the burner and grate. Place the lava rock on the bottom of the firebox. Evenly spread out the lava rocks with your hand.



Figure 12.2

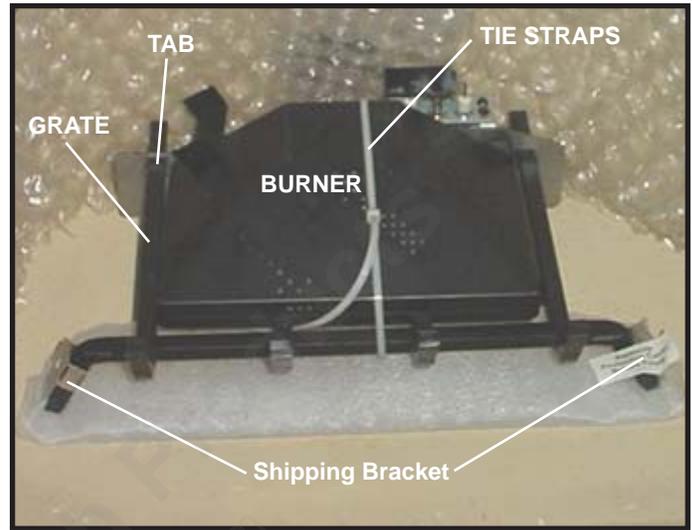


Figure 12.3



Figure 12.4



Figure 12.5

**LOG #1 (SRV703-701):** Place log #1 between log tabs on the left side on the burner. The log should be pushed forward until the groove in the log makes contact with the front log tab. The right side of the log should contact the firebox.

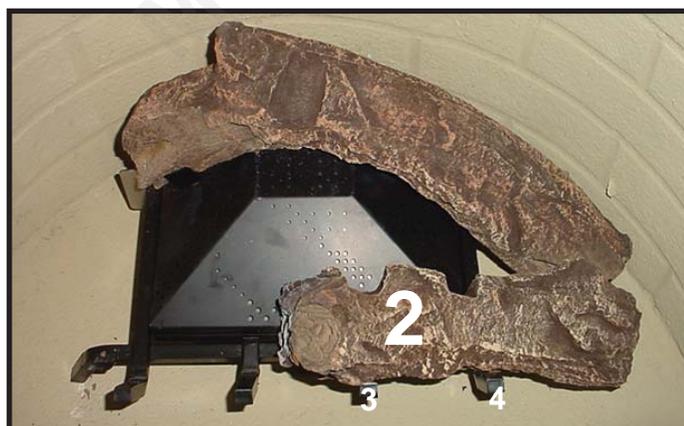


Figure 12.6

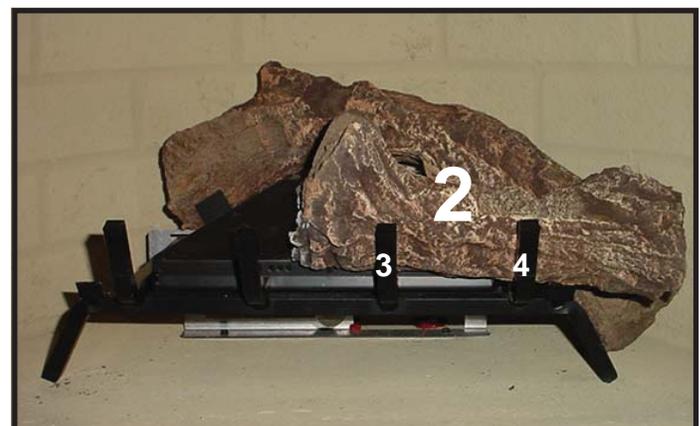


Figure 12.7

**LOG #2 (SRV703-702):** Place log #2 flush with grate tines 3 and 4. On the front of log #2 there is a location feature to help locate the log. Slide the log to the right until the location feature contacts the fourth grate tine.

703-925



Figure 12.8

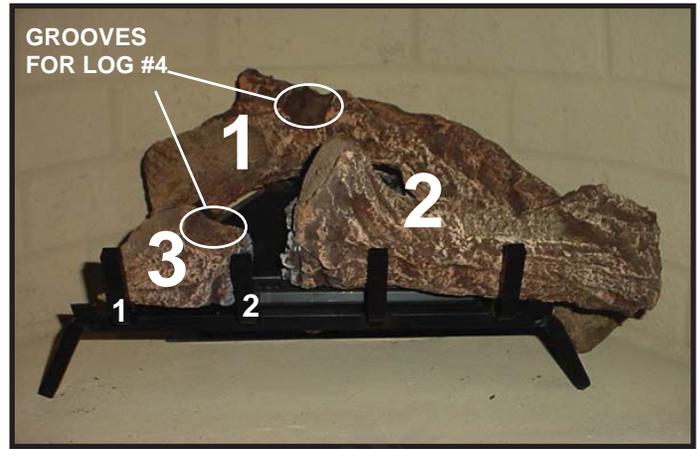


Figure 12.9

**LOG #3 (SRV703-703):** Place log #3 flush with grate tines 1 and 2. The right end of the log should make contact with grate tine 2.



Figure 12.10

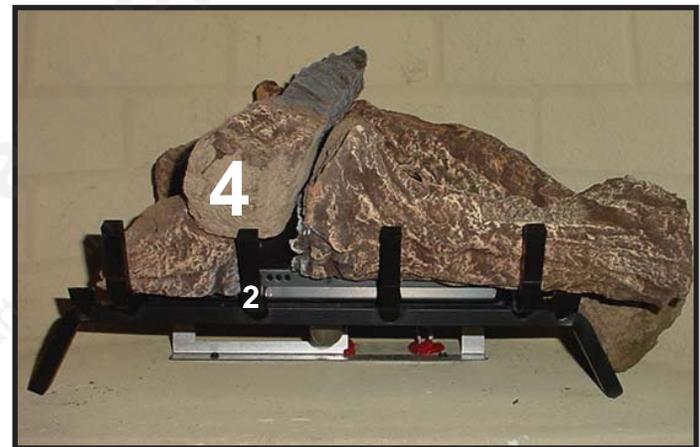


Figure 12.11

**LOG #4 (SRV750-705):** Place the top of log #4 in the groove in log #1. Place the base of the log into the groove on log #3 such that the end of the log contacts grate tine 2.



Figure 12.12

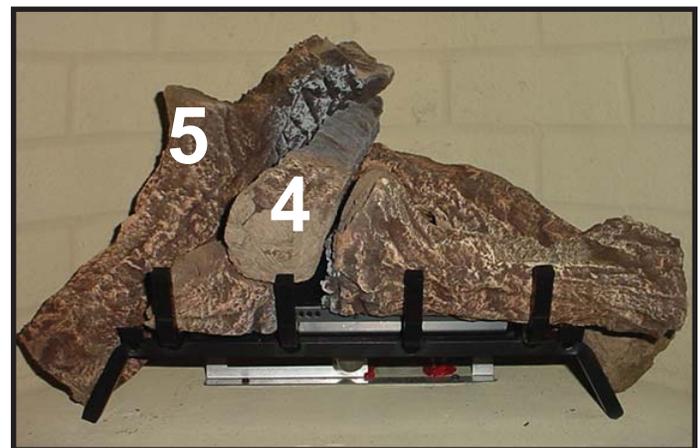


Figure 12.13

**LOG #5 (SRV703-704):** Place the top part of log #5 on the flat spot of log #4. Slide the log back until it makes contact with log #1.

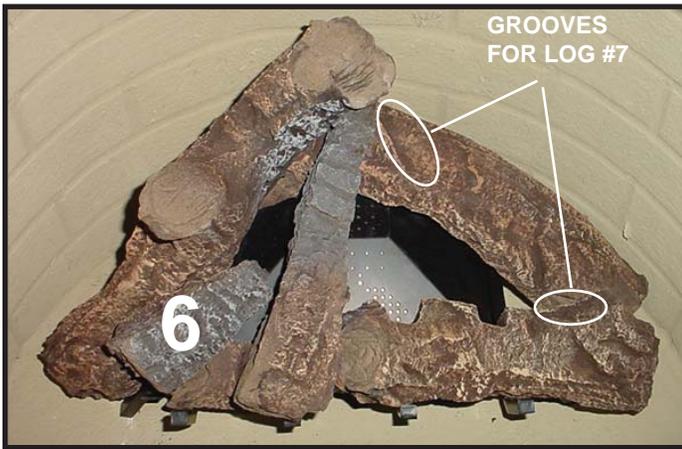


Figure 12.14

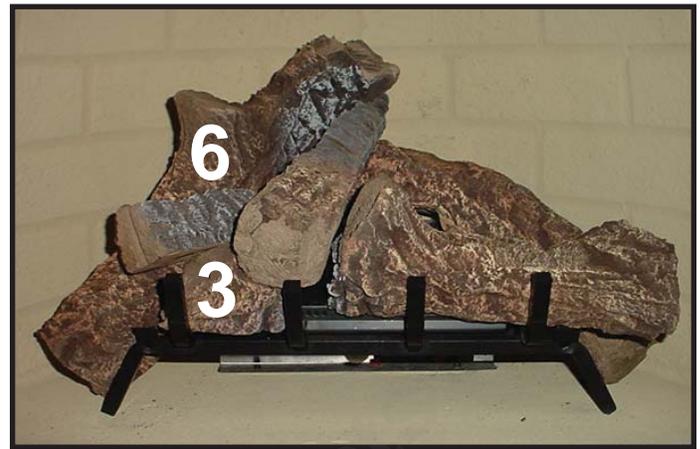


Figure 12.15

**LOG #6 (SRV750-706):** Place log #6 in the groove in log #3. Log #6 must be placed parallel to the burner ports behind the log. **CAUTION:** If log #6 is not parallel to burner ports then sooting may occur. Do not place logs directly on burner ports.

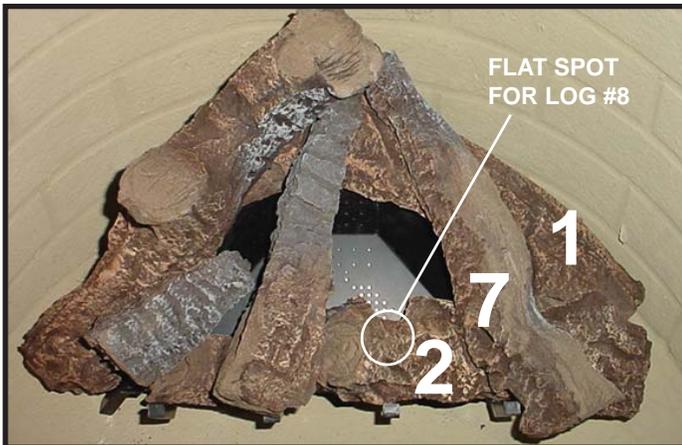


Figure 12.16



Figure 12.17

**LOG #7 (SRV750-704):** Place the top portion of log #7 into the groove on log #1 and place the bottom of the log in the groove in log #2.



Figure 12.18



Figure 12.19

**LOG #8 (SRV703-705):** Place log #8 on the flat spot on log #2.

## Positioning the Logs

If the gas logs have been factory installed they should not need to be positioned. If the logs have been packaged separately, refer to the following instructions.

**CAUTION:** Logs are fragile! Carefully remove the logs from the packaging.

Before placing logs, check that the sensor on the pilot assembly does not contact the burner.

Remove shipping bracket and tie straps from the burner and grate.

Place the lava rock on the bottom of the firebox. Evenly spread the lava rocks with your hand.

## Log Assembly: LOGS-BRAVO



Figure 12.20

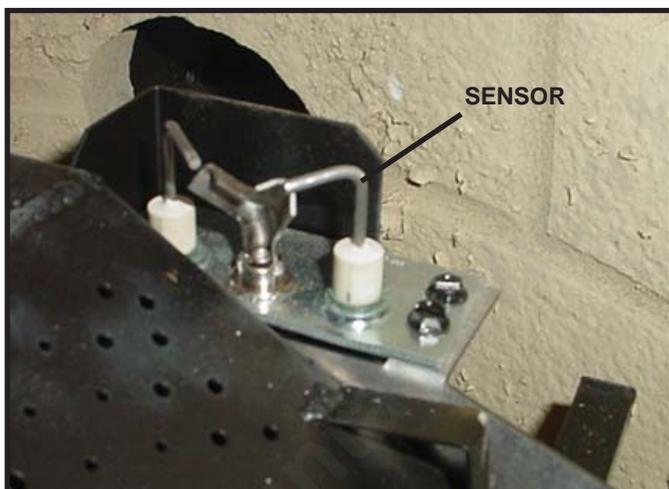


Figure 12.20

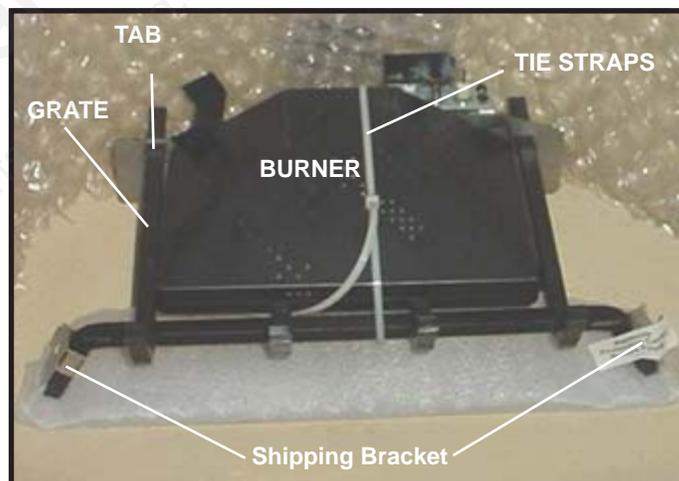


Figure 12.20

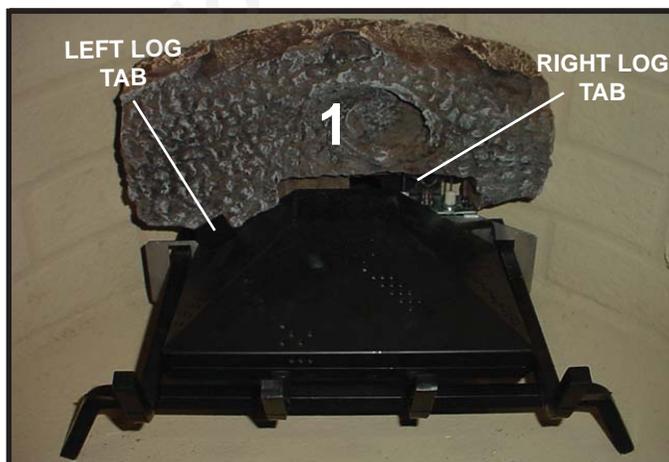


Figure 12.20

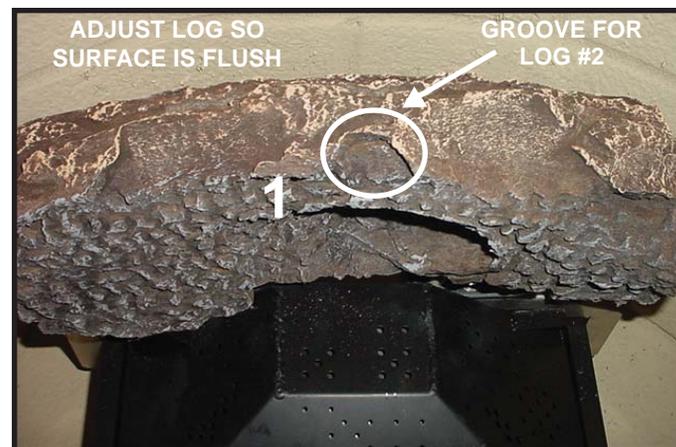
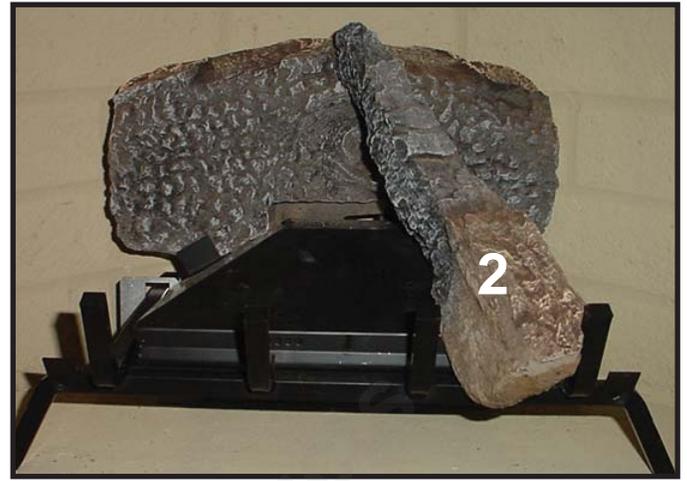
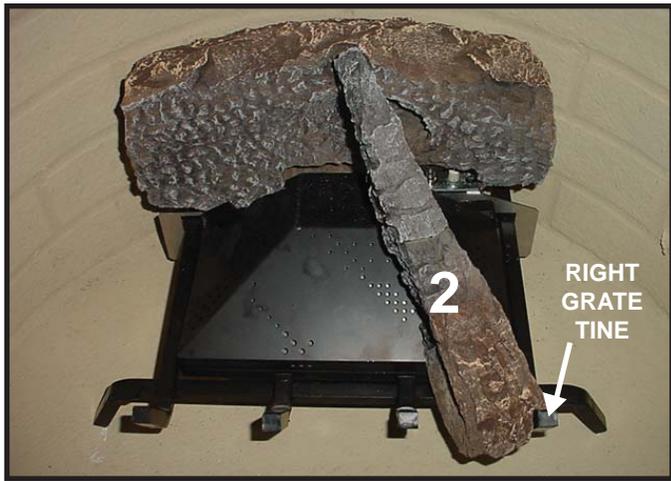
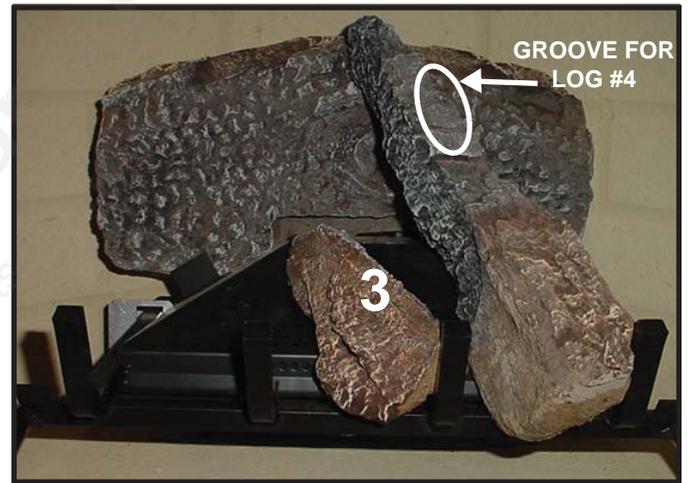


Figure 12.20

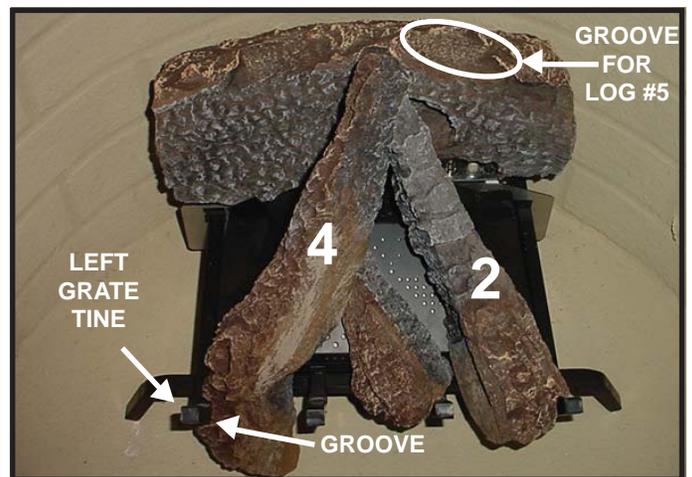
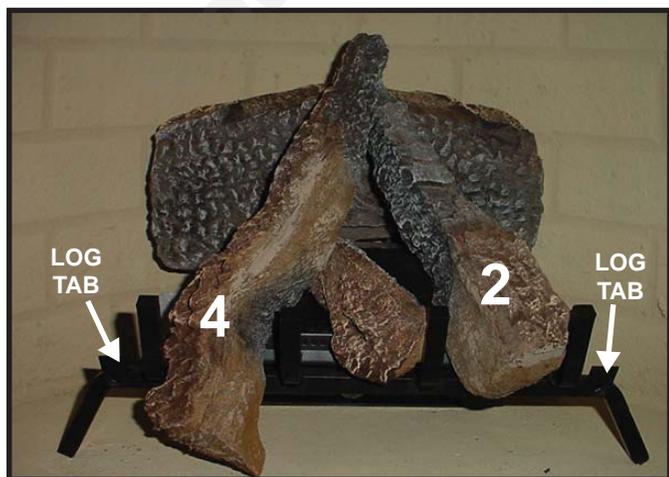
**LOG #1 (SRV750-703):** Place log #1 between log tabs on left side and right side of the burner. Place such that bottom surface of log rests on burner surface (left).



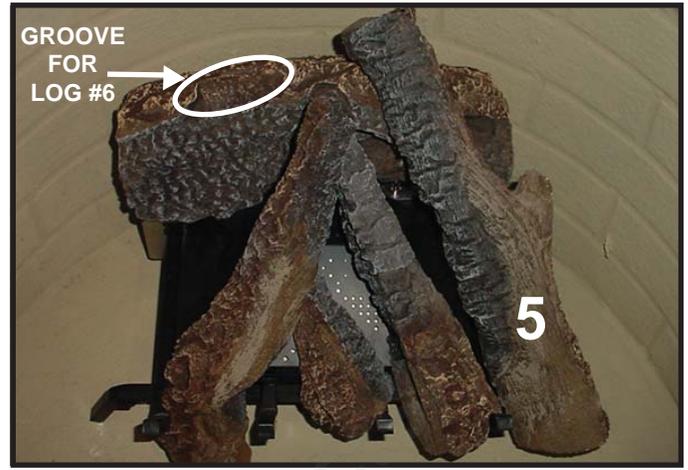
**LOG #2 (SRV750-705):** Place the top of log #2 in the groove on log #1. Place the base of the log on the inside of the outer right grate tine with the grate tine fitting in the groove on log #2.



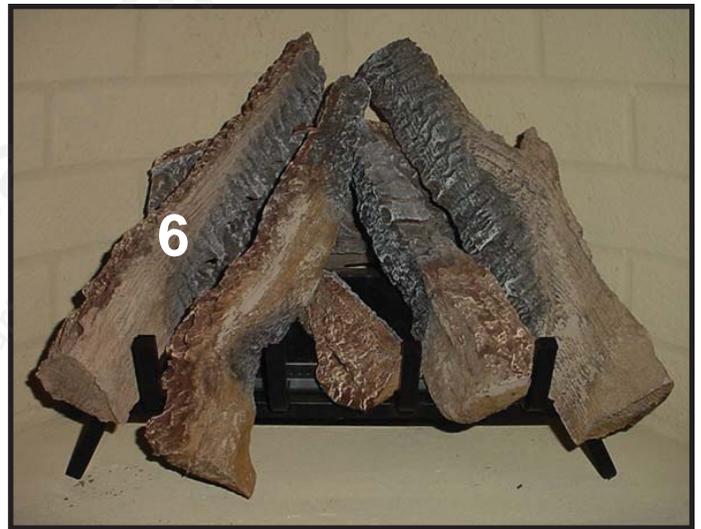
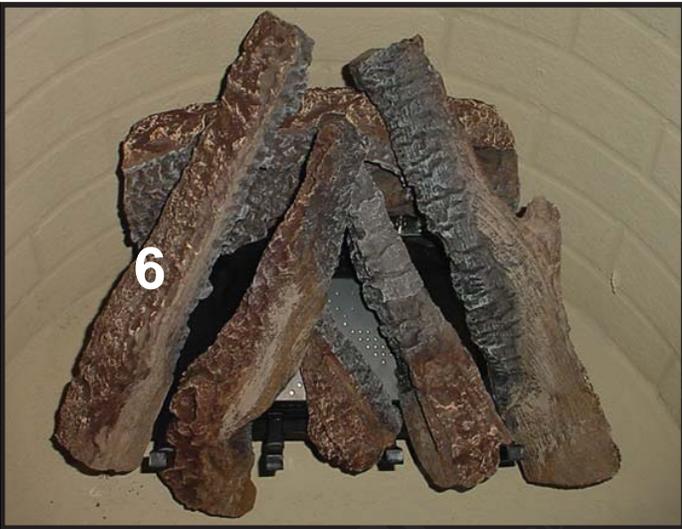
**LOG #3 (SRV750-706):** Place log #3 with the base on the inner right grate tine. The top of the log should be placed so that it doesn't cover any ports on the burner.



**LOG #4 (SRV750-704):** Place log #4 such that the groove mates with the left grate tine. The upper end of the log should mate with the flat spot on log #2.



**LOG #5 (SRV704-702):** Place log #5 on right side of the grate. Position the base of the log on the log tab. The log tab should insert into slot feature on back side of log. Place the top of the log into the groove on log #1.



**LOG #6 (SRV704-701):** Place log #6 on left side of grate. Position the base of the log on the log tab. Log tab should insert into slot feature on back side of log. Place the top of the log into flat spot on log #1.

## F. Glass Assembly

**⚠ WARNING**



Handle glass doors with care.

- Inspect the gasket to ensure it is undamaged.
- Inspect the glass for cracks, chips or scratches.

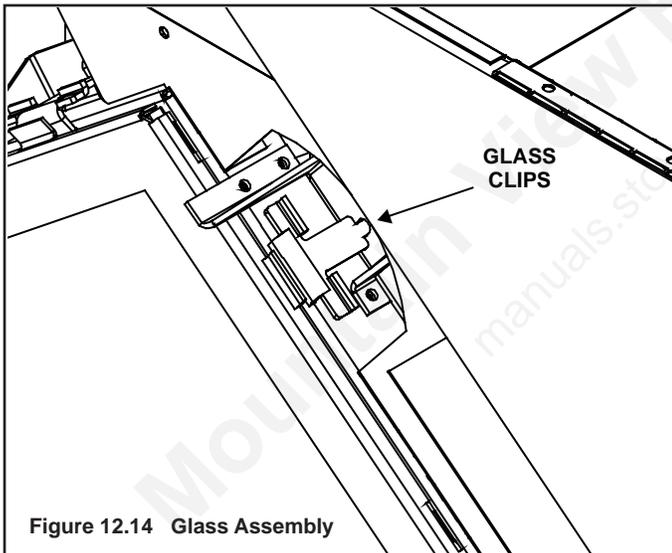
- Do NOT strike, slam or scratch glass.
- Do NOT operate appliance with glass door removed, cracked, broken or scratched.
- Replace glass door assembly as a complete appliance.

### Removing Glass Assembly

- Unscrew the two top wing bolts and unlatch the two bottom spring clips (see Figure 12.14).
- Remove the front trim door and the glass door from the appliance.

### Replacing Glass Assembly

- Replace the glass door and a front trim door on the appliance. Pull out and latch the spring clips into the tabs on the glass frame and tighten the top wing bolts.



## G. Grilles and Trim

Install optional marble and brass trim surround kits as desired. Marble, brass, brick, tile, or other noncombustible materials can be used to cover up the gap between the sheet rock and the appliance.

### Shutter Settings

	NG	LP
Burner	1/8 in.	1/2 in.

# 13

## Operating Instructions

### A. Before Lighting Appliance

This appliance has an Intellifire ignition system.

#### CAUTION

If installing Intellifire ignition battery backup:

- Do not install batteries if the backup mode may not be used for extended time.
- Batteries may leak.
- Install batteries only when needed for power outage.

#### Before operating this appliance have a qualified technician:

- Remove all shipping materials from inside and/or underneath the firebox.
- Review proper placement of logs, rockwool, lava rock, and vermiculite.
- Check the wiring.
- Check the air shutter adjustment.
- Ensure that there are no gas leaks.
- Ensure that the glass is sealed and in the proper position.
- Ensure that the flow of combustion and ventilation air is not obstructed (front grilles and vent caps).

#### WARNING



Glass door must be in place when appliance is operating.

Risk of:

- Combustion Fumes
- Fire

Do NOT operate appliance with glass door removed.

- Open viewing glass for servicing only.



- Glass door MUST be in place and sealed before operating appliance.
- Only use glass door certified for use with appliance.
- Glass replacement should be done by qualified technician.

#### WARNING



**HOT! DO NOT TOUCH. SEVERE BURNS MAY RESULT. CLOTHING IGNITION MAY RESULT.**



Glass and other surfaces are hot during operation and cool down.

- Keep children away.
- CAREFULLY SUPERVISE children in same room as appliance.
- Alert children and adults to hazards of high temperatures.
- Do NOT operate with protective barriers open or removed.
- Keep clothing, furniture, draperies and other combustibles away.

***This appliance has been supplied with an integral barrier to prevent direct contact with the fixed glass panel. Do NOT operate the appliance with the protective barrier removed.***

Contact your dealer or Hearth & Home Technologies if the barrier is not present or help is needed to properly install one.

#### WARNING

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the owner's information manual provided with this appliance. For assistance or additional information consult a qualified installer, service agency or the gas supplier.

#### 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.

## B. Lighting Appliance

### Intellifire Ignition

#### FOR YOUR SAFETY READ BEFORE LIGHTING

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

- A.** This appliance is equipped with an intermittent pilot ignition (IPI) device which automatically lights the burner. Do not try to light the burner by hand.
- 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 gas supplier's instructions.
  - If you cannot reach your gas supplier, call the fire department.
- C.** 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.

#### WARNING:

##### DO NOT CONNECT 110 VAC TO THE CONTROL VALVE.

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the owner's information manual provided with this appliance.

This appliance needs fresh air for safe operation and must be installed so there are provisions for adequate combustion and ventilation air.

If not installed, operated, and maintained in accordance with the manufacturer's instructions, this product could expose you to substances in fuel or fuel combustion which are known to the State of California to cause cancer, birth defects, or other reproductive harm.

Keep burner and control compartment clean. See installation and operating instructions accompanying appliance.

#### CAUTION:

Hot while in operation. Do not touch. Keep children, clothing, furniture, gasoline and other liquids having flammable vapors away.

Do not operate the appliance with panel(s) removed, cracked or broken. Replacement of the panel(s) should be done by a licensed or qualified service person.

#### NOT FOR USE WITH SOLID FUEL

For use with natural gas and propane. A conversion kit, as supplied by the manufacturer, shall be used to convert this appliance to the alternate fuel.

#### Also Certified for Installation in a Bedroom or a Bedsitting Room.

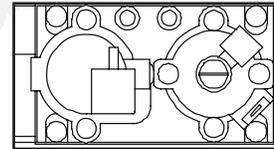
For assistance or additional information, consult a qualified installer, service agency or the gas supplier.

For additional information on operating your Hearth & Home Technologies appliance, please refer to [www.fireplaces.com](http://www.fireplaces.com).

#### LIGHTING INSTRUCTIONS (IPI)

- Turn off all electric power to the appliance.
- This appliance is equipped with an ignition device which automatically lights the burner. Do not try to light the burner by hand.

GAS VALVE



- Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the Safety Information located on the left side of this label. If you don't smell gas, go to next step.
- Turn on all electric power to the appliance.
- To light the burner, flip the ON/OFF switch to the "ON" position. (The ON/OFF switch may include a wall switch if so equipped).
- 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

- Turn off all electric power to the appliance if service is to be performed.
- Flip ON/OFF switch to the "OFF" position.

Final Inspection by \_\_\_\_\_

593-913D

## C. After Appliance is Lit

### Initial Break-in Procedure

When you light the appliance, you may notice that it produces heat which does have an associated odor or smell. If you feel this odor is excessive it may require the initial three to four hour continuous burn on high followed by a second burn up to 12 hours to fully drive off any odor from paint and lubricants used in the manufacturing process. Condensation of the glass is normal.

**NOTE:** The appliance should be run three to four hours on the initial start-up. Turn it off and let it cool completely. Remove and clean the glass. Replace the glass and run the appliance for an additional 12 hours. This will help to cure the products used in the paint and logs.

During this break-in period it is recommended that some windows in the house be opened for air circulation. This will help avoid setting off smoke detectors, and help eliminate any odors associated with the appliance's initial burning.

	<b>WARNING</b>
	<p>Fire Risk. High Temperatures.</p> <p>Keep combustible household items away from appliance. Do NOT obstruct combustion and ventilation air.</p> <ul style="list-style-type: none"> <li>Do NOT place combustible items on top of or in front of appliance.</li> <li>Keep furniture, draperies away from appliance.</li> </ul>

<b>CAUTION</b>
<ul style="list-style-type: none"> <li>Prevent accidental appliance operation when not attended.</li> <li>Unplug or remove batteries from remote control if absent or if appliance will not be used for an extended period of time.</li> <li>Property damage possible from elevated temperatures.</li> </ul>

<b>CAUTION</b>
<p>Smoke and odors released during initial operation.</p> <ul style="list-style-type: none"> <li>Open windows for air circulation.</li> <li>Leave room during initial operation.</li> <li>Smoke may set off smoke detectors.</li> </ul> <p>Smoke and odors may be irritating to sensitive individuals.</p>

	<b>WARNING</b>
	<p>Fire Hazard. Keep combustible materials, gasoline and other flammable vapors and liquids clear of appliance.</p> <ul style="list-style-type: none"> <li>Do NOT store flammable materials in the appliance's vicinity.</li> <li>Do NOT use gasoline, lantern fuel, kerosene, charcoal lighter fluid or similar liquids in this appliance.</li> <li>Combustible materials may ignite.</li> </ul>

## D. Frequently Asked Questions

ISSUE	SOLUTIONS
Condensation of the glass	This is a result of gas combustion and temperature variations. As the appliance warms, this condensation will disappear.
Blue flames	This is a result of normal operation and the flames will begin to yellow as the appliance is allowed to burn for 20 to 40 minutes.
Odor from appliance	When first operated, this appliance 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. Odor may also be released from finishing materials and adhesives used around the appliance.
Film on the glass	This is a normal result of the curing process of the paint and logs. Glass should be cleaned within 3 to 4 hours of initial burning to remove deposits left by oils from the manufacturing process. A non-abrasive cleaner such as gas fireplace glass cleaner may be necessary. See your dealer.
Metallic noise	Noise is caused by metal expanding and contracting as it heats up and cools down, similar to the sound produced by a furnace or heating duct. This noise does not affect the operation or longevity of the appliance.
Is it normal to see the pilot flame burn continually?	In an Intellifire ignition system it is normal to see the pilot flame, but it should turn off when ON/OFF is turned off. In a standing pilot system the pilot will always stay on.

# 14

## Troubleshooting

With proper installation, operation, and maintenance your gas appliance will provide years of trouble-free service. If you do experience a problem, this troubleshooting guide will assist a qualified service person in the diagnosis of a problem and the corrective action to be taken. This troubleshooting guide can only be used by a qualified service technician.

### A. Intellifire Ignition System

Symptom	Possible Cause	Corrective Action
1. The ignitor/module makes noise, but no spark.	a. Incorrect wiring.	Verify "S" wire (white) for sensor and "I" wire (orange) for ignitor are connected to correct terminals on module and pilot assembly. Reversed wires at the module may cause system to make sparking noise, but spark may not be present at pilot hood.
	b. Loose connections or electrical shorts in the wiring.	Verify no loose connections or electrical shorts in wiring from module to pilot assembly. Rod closest to pilot hood should be ignitor. Verify connections underneath pilot assembly are tight; also verify connections are not grounding out to metal chassis, pilot burner, pilot enclosure, mesh screen if present, or any other metal object.
	c. Ignitor gap is too large.	Verify gap of igniter to pilot hood. The gap should be approximately .17 inch or 1/8 inch.
	d. Faulty module.	Turn ON/OFF rocker switch or wall switch to OFF position. Remove ignitor wire "I" from module. Place ON/OFF Rocker switch or wall switch in ON position. Hold ground wire about 3/16 inch away from "I" terminal on module. If there is no spark at "I" terminal module must be replaced. If there is a spark at "I" terminal, module is fine. Inspect pilot assembly for shorted sparker wire or cracked insulator around electrode.
2. Pilot won't light, there is no noise or spark.	a. Transformer installed correctly.	Verify that transformer is installed and plugged into module. Check voltage of transformer under load at spade connection on module with ON/OFF switch in ON position. Acceptable readings of a good transformer are between 3.2 and 2.8 volts AC.
	b. A shorted or loose connection in wiring configuration or wiring harness.	Remove and reinstall the wiring harness that plugs into module. Verify there is a tight fit. Verify pilot assembly wiring to module. Remove and verify continuity of each wire in wiring harness.
	c. Improper wall switch wiring.	Verify that 110/VAC power is "ON" to junction box.
	d. Module not grounded.	Verify black ground wire from module wire harness is grounded to metal chassis of appliance.
	e. Faulty module.	Turn ON/OFF rocker switch or wall switch to OFF position. Remove ignitor wire "I" from module. Place ON/OFF Rocker switch or wall switch in ON position. Hold ground wire about 3/16 inch away from "I" terminal on module. If there is no spark at "I" terminal module must be replaced. If there is a spark at "I" terminal, module is fine. Inspect pilot assembly for shorted sparker wire or cracked insulator around electrode.
3. Pilot lights but continues to spark, and main burner will not ignite. (If the pilot continues to spark after the pilot flame has been lit, flame rectification has not occurred.)	a. A shorted or loose connection in sensor rod.	Verify all connections to wiring diagram in manual. Verify connections underneath pilot assembly are tight. Verify connections are not grounding out to metal chassis, pilot burner, pilot enclosure or screen if present, or any other metal object.

## Intellifire Ignition System - (continued)

Symptom	Possible Cause	Corrective Action
3. (Continued) - Pilot lights but continues to spark, and main burner will not ignite. (If the pilot continues to spark after the pilot flame has been lit, flame rectification has not occurred.)	b. Poor flame rectification or contaminated sensor rod.	Verify that flame is engulfing sensor rod. If the pilot assembly does not have a ground strap, consider installing one to increase flame rectification. Verify correct pilot orifice is installed and inlet gas specifications. Flame carries rectification current, not the gas. If flame lifts from pilot hood, the circuit is broken. A wrong orifice or too high an inlet pressure can cause pilot flame to lift. The sensor rod may be contaminated. Clean sensor rod with emery cloth.
3. (Continued) Pilot lights but continues to spark, and main burner will not ignite. (If the pilot continues to spark after the pilot flame has been lit, flame rectification has not occurred.)	c. Module is not grounded.	Verify that module is securely grounded to metal chassis of appliance. Verify that wire harness is firmly connected to module.
	d. Damaged pilot assembly or dirty sensor rod.	Verify that ceramic insulator around the sensor rod is not cracked, damaged, or loose. Verify connection from sensor rod to white sensor wire. Clean sensor rod with emery cloth to remove any contaminants that may have accumulated on sensor rod. Verify continuity with a multimeter with ohms set at lowest range.
	e. Faulty module.	Turn ON/OFF rocker switch or wall switch to OFF position. Remove ignitor wire "I" from module. Place ON/OFF Rocker switch or wall switch in ON position. Hold ground wire about 3/16 inch away from "I" terminal on module. If there is no spark at "I" terminal module must be replaced. If there is a spark at "I" terminal, module is fine. Inspect pilot assembly for shorted sparker wire or cracked insulator around electrode.
4. Pilot sparks, but Pilot will not light.	a. Correct gas supply.	Verify that incoming gas line ball valve is "open". Verify that inlet pressure reading is within acceptable limits, inlet pressure must not exceed 14 in. W.C.
	b. Ignitor gap is too large.	Verify that spark gap from ignitor to pilot hood is .17 in. or 1/8 in.
	c. Module is not grounded.	Verify module is securely grounded to metal chassis of appliance.
	d. Module voltage output / Valve/Pilot solenoid ohms readings.	Verify battery voltage is at least 2.7 volts. Replace batteries if voltage is below 2.7.

# 15

## Maintaining and Servicing Appliance

Although the frequency of appliance servicing and maintenance will depend on use and the type of installation, a qualified service technician should perform an appliance checkup at the beginning of each heating season.

### WARNING

Risk of injury or property damage.

#### Before servicing:

- Turn off gas.
- Turn off electricity to appliance.
- Disable remote control, if one is present.
- Ensure appliance is completely cooled.

#### After servicing:

- Replace any screen or barrier that was removed.
- Reseal and reinstall any venting removed for servicing.

### WARNING

Annual inspection by qualified technician recommended.

#### Check:

- Condition of doors, surrounds and fronts.
- Condition of glass, glass assembly and glass seal.
- Obstructions of combustion and ventilation air.
- Condition of logs.
- Condition of firebox.
- Burner ignition and operation.
- Burner air shutter adjustment
- Gas connections and fittings.
- Obstructions of termination cap.

#### Clean:

- Glass
- Air passageways, grilles, control compartment
- Burner, burner ports

#### Risk of:

- Fire
- Delayed ignition or explosion
- Exposure to combustion fumes
- Odors



### CAUTION



Handle glass assembly with care.

**NOTE:** Clean glass after initial 3-4 hours operation. **Longer operation without cleaning glass may cause a permanent white film on glass.**

#### When cleaning glass door:

- Avoid striking, scratching or slamming glass.
  - Do NOT use abrasive cleaners.
  - Use a hard water deposit glass cleaner on white film.
  - Do NOT clean glass when hot.
  - Turn off appliance after 3-4 hours of operation and ALLOW TO COOL.
  - Remove and clean glass assembly.
  - Replace glass assembly and operate appliance for additional 12 hours.
- Refer to maintenance instructions.

### WARNING



Inspect external vent cap regularly.

- Ensure no debris blocks cap.
- Combustible materials blocking cap may ignite.
- Restricted air flow affects burner operation.

Inspect	Maintenance Tasks
Doors, Surrounds and Fronts	1. Assess condition of screen and replace as necessary. <b>Recommend addition of screen if one is not present.</b>
	2. Inspect for scratches, dents or other damage and repair as necessary.
	3. Verify no obstructions to airflow through the louvers.
	4. Verify maintenance of proper clearance to combustible household objects.
Gasket Seal, Glass Assembly and Glass	1. Inspect gasket seal and its condition.
	2. Inspect glass panels for scratches and nicks that can lead to breakage when exposed to heat.
	3. Confirm there is no damage to glass or glass frame. Replace as necessary.
	4. Verify that latches engage properly, clip studs are not stripped, and glass attachment components are intact and operating properly. Replace as necessary.
	5. Clean glass. Replace glass assembly if severely coated with silicate deposits that cannot be removed.
Valve Compartment and Firebox Top	1. Vacuum and wipe out dust, cobwebs, debris or pet hair. Use caution when cleaning these areas. Screw tips that have penetrated the sheet metal are sharp and should be avoided.
	2. Remove any foreign objects.
	3. Verify unobstructed air circulation.
Logs	1. Inspect for broken, damaged, or missing logs. Replace as necessary.
	2. Verify correct log placement and no flame impingement causing sooting. Correct as necessary.
Firebox	1. Inspect for paint condition, warpage, corrosion or perforation. Sand and repaint as necessary.
	2. Replace appliance if firebox has been perforated.
Burner Ignition and Operation	1. Verify burner is properly secured and aligned with pilot or igniter.
	2. Clean off burner top, inspect for plugged ports, corrosion or deterioration. Replace burner if necessary.
	3. Replace ember materials with new dime-size and shape pieces. Do not block ports or obstruct lighting paths.
	4. Check for smooth lighting and ignition carryover to all ports. Verify there is no ignition delay.
	5. Inspect for lifting or other flame problems.
	6. Verify air shutter is clear of dust and debris.
	7. Inspect orifice for soot, dirt or corrosion.
	8. Verify manifold and inlet pressures. Adjust regulator as required.
	9. Inspect pilot flame strength. Clean or replace orifice as necessary.
	10. Inspect thermocouple/thermopile or IPI sensor rod for soot, corrosion and deterioration. Clean with emery cloth or replace as required.
	11. Verify millivolt output. Replace as necessary.
Venting	1. Inspect venting for blockage or obstruction such as bird nests, leaves, etc.
	2. Confirm that termination cap remains clear and unobstructed by plants, etc.
	3. Verify that termination cap clearance to subsequent construction (building additions, decks, fences or sheds) has been maintained.
	4. Inspect for corrosion or separation.
	5. Verify weather stripping, sealing and flashing remains intact.
	6. Inspect draft shield to verify it is not bent, damaged or missing.
Remote controls	1. Verify operation of remote.
	2. Replace batteries in remote transmitters and battery-powered receivers.
	3. Verify batteries have been removed from battery back-up IPI systems to prevent premature battery failure or leaking.

# 16

## Reference Materials

### → A. Appliance Dimension Diagram

Dimensions are actual appliance dimensions. Use for reference only. For framing dimensions and clearances refer to Section 3.

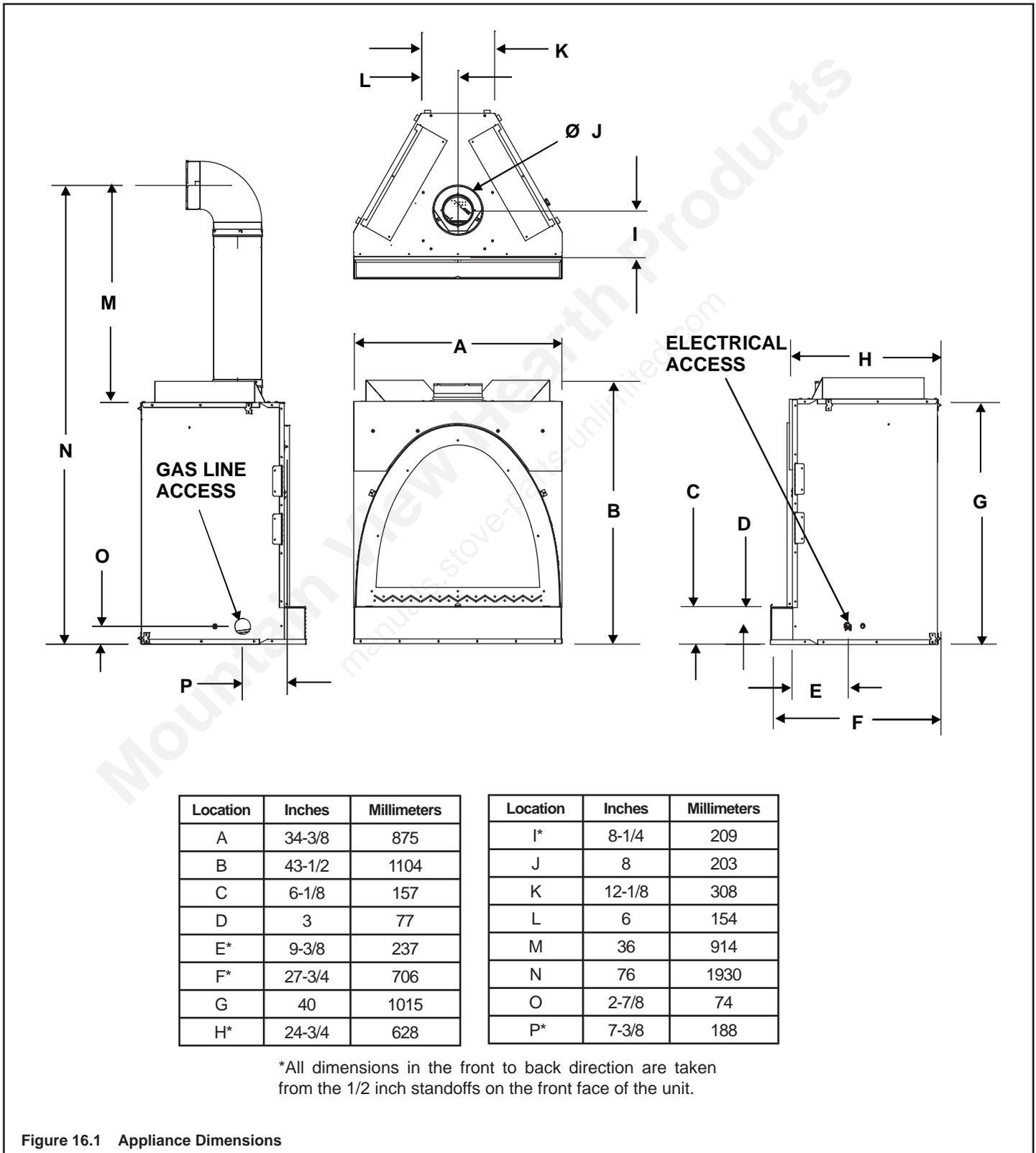


Figure 16.1 Appliance Dimensions

## B. Vent Components Diagrams

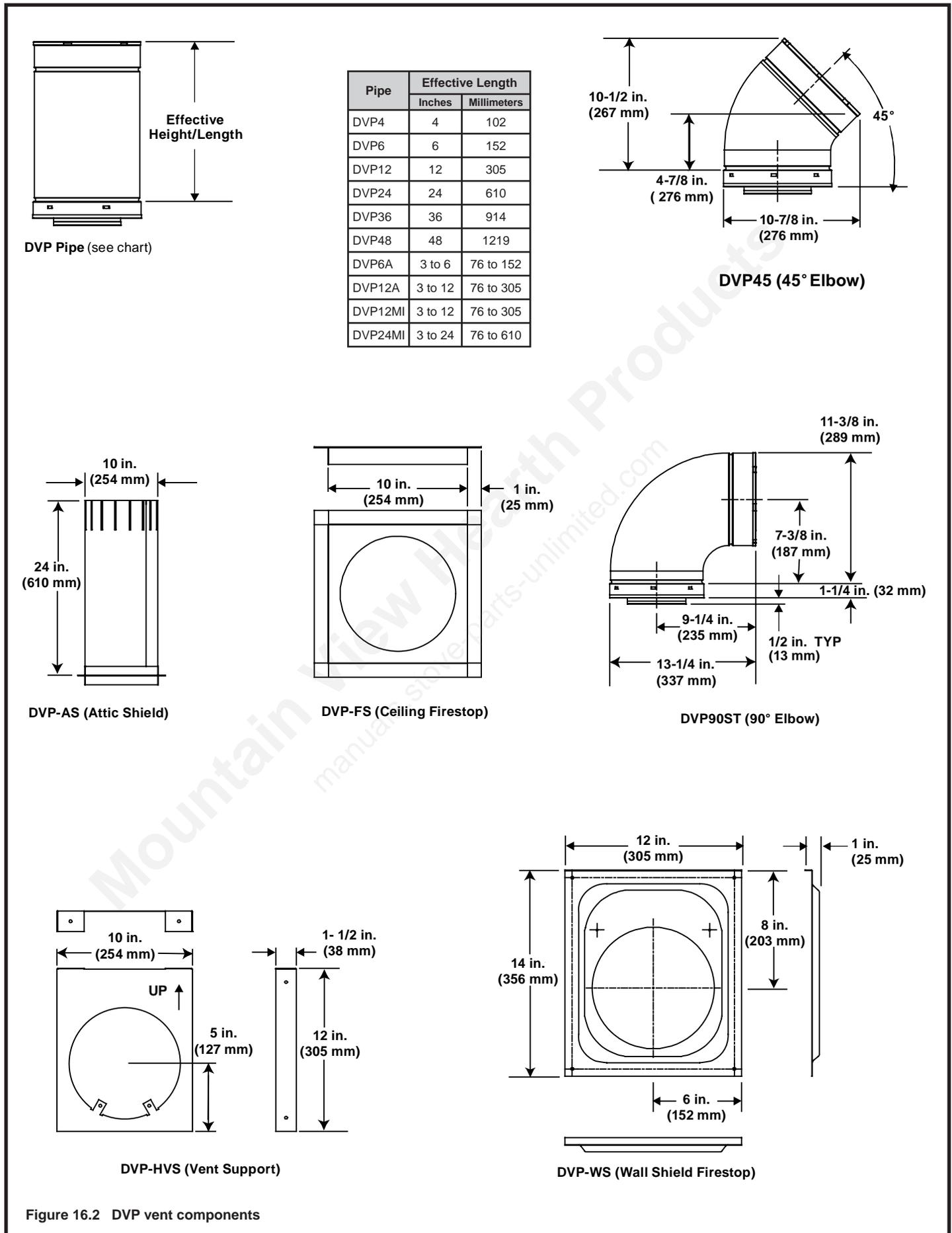
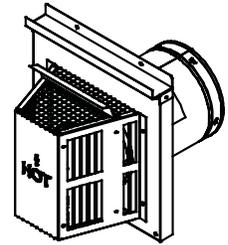
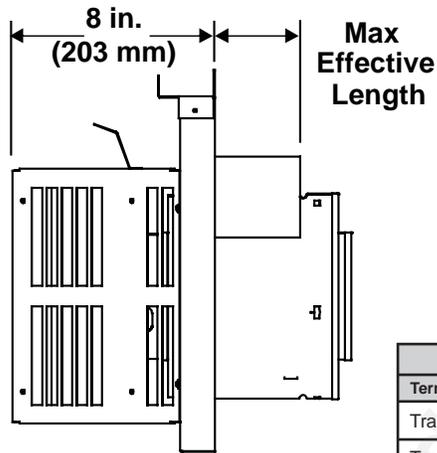
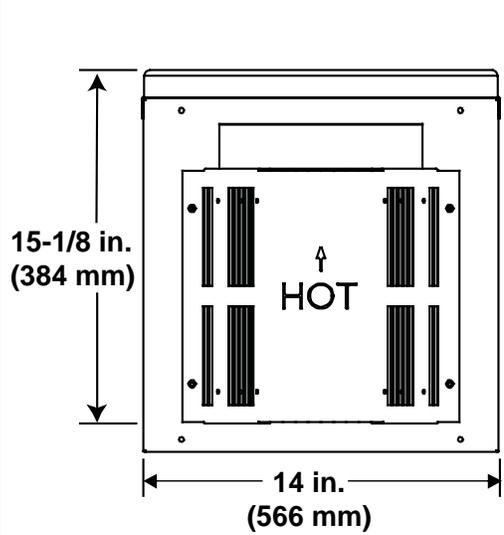


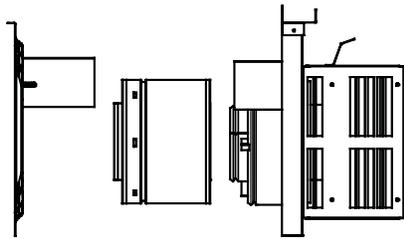
Figure 16.2 DVP vent components

B. Vent Components Diagrams (continued)

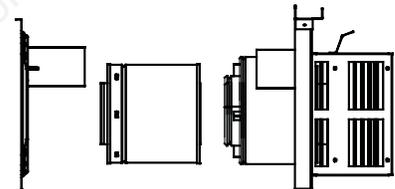
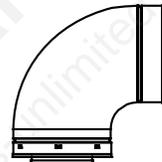


EFFECTIVE LENGTH		
Term Cap	Minimum	Maximum
Trap1	4-1/8 in. (105 mm)	5-5/8 in. (143 mm)
Trap2	6-3/4 in. (171 mm)	10-5/8 in. (270 mm)

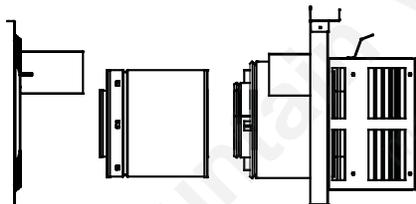
**DVP-TRAP SERIES**  
Horizontal Term Cap



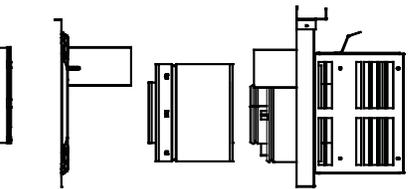
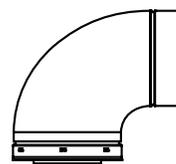
**DVP-TRAP1**



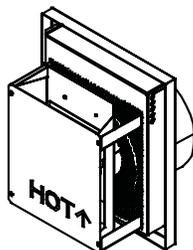
**DVP-TRAP2**



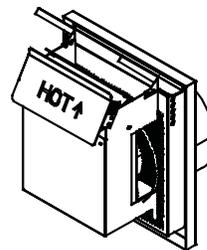
**DVP-Trap2**



**DVP-TRAPK1**



**DVP-VTI**



**DVP-TH**

Figure 16.3 DVP vent components

## B. Vent Components Diagrams (continued)

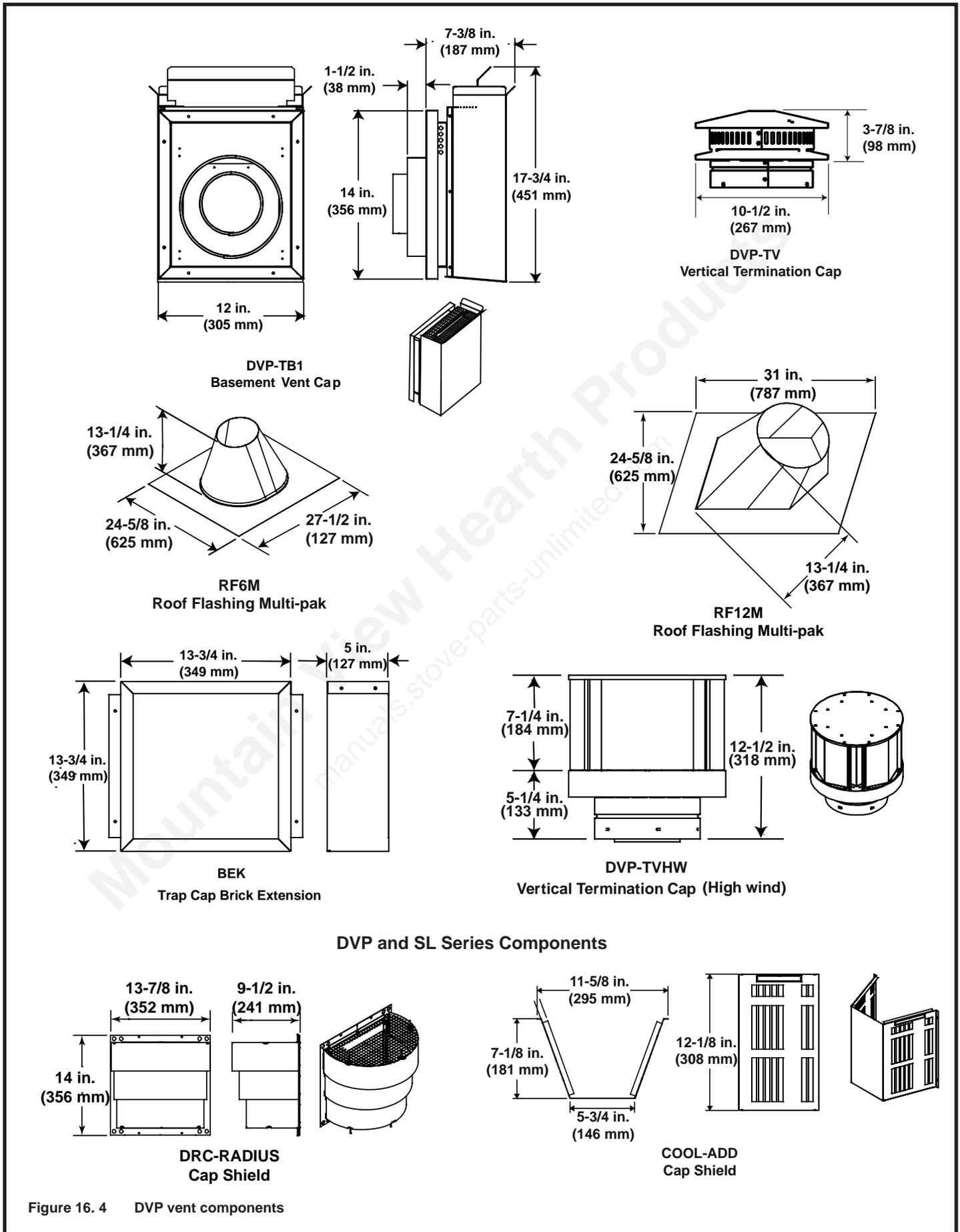
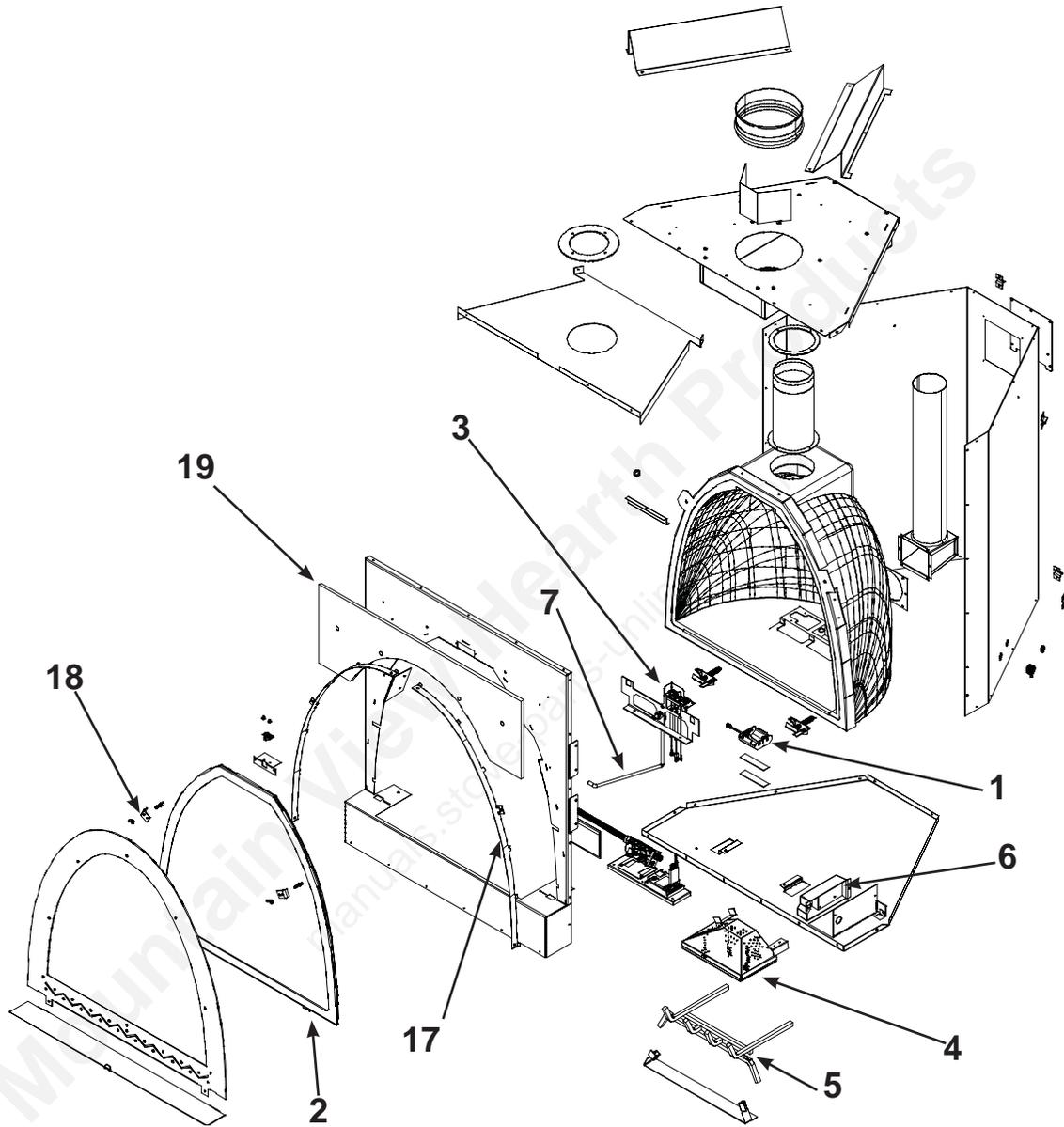


Figure 16.4 DVP vent components



8 Log Set Assembly



Part number list on following page.

## Service Parts List

**AZTEC**

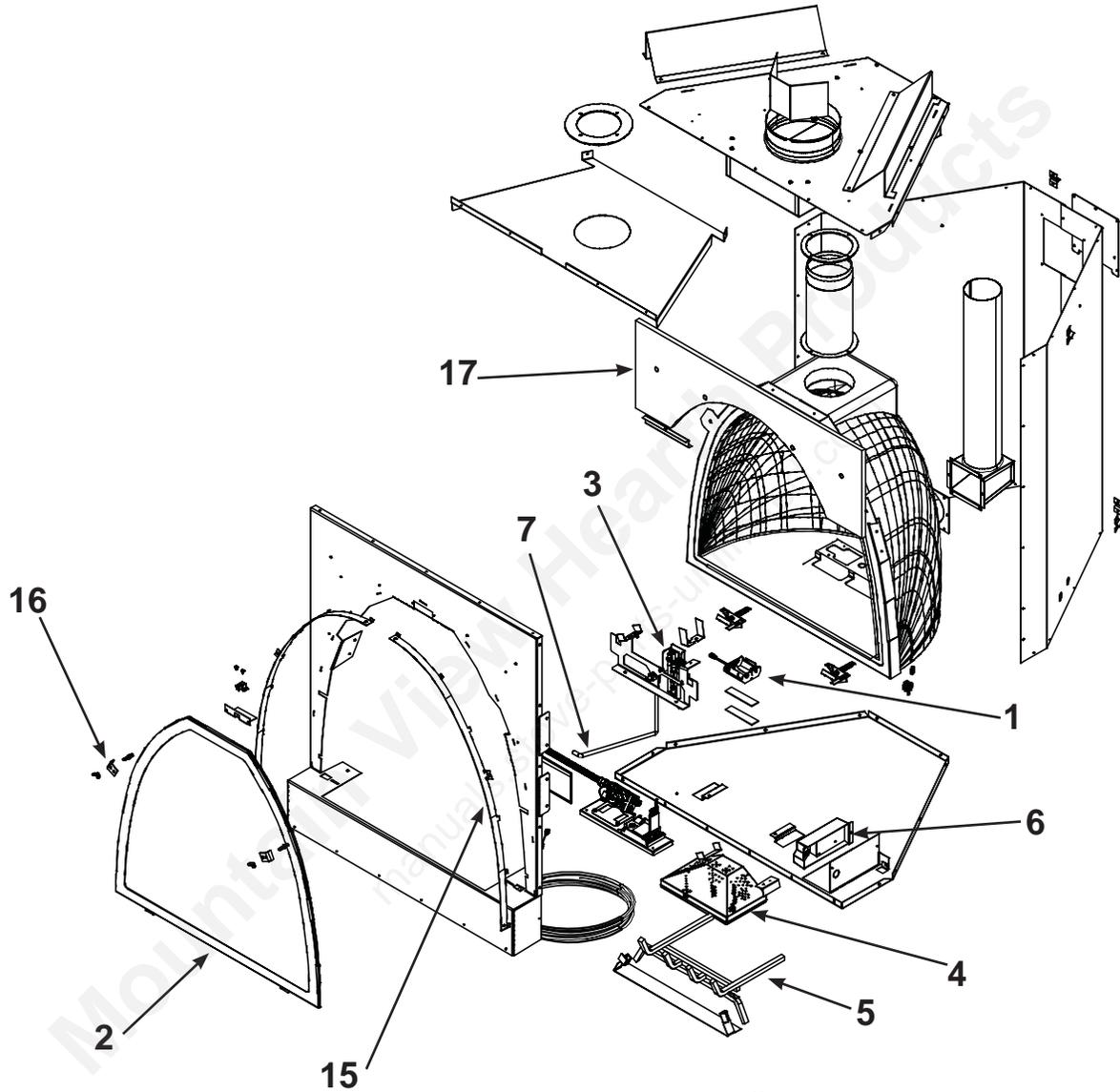
**IMPORTANT:** THIS IS DATED INFORMATION. The most current information is located on your dealer's VIP site. When ordering, supply serial and model numbers to ensure correct service parts.



AVAILABLE  
TO SHIP IN 24  
HOURS

ITEM	DESCRIPTION	SERIAL #	PART NUMBER	↓
1	Battery Pack		593-594A	Y
2	Glass Door Assembly		GLA-BRAVO	Y
3	Pilot Assembly NG (must order whole assembly)	Pre 00241284 Post 00241284	SRV704-178-NG 2090-012	Y
3	Pilot Assembly LP (must order whole assembly)	Pre 00240038 Post 00240038	SRV704-178LP 2090-013	Y
4	Burner NG		704-176A	Y
4	Burner LP		704-175A	Y
5	Log Grate		704-360A	
6	Junction Box	Pre 10-04 Post 10-04	100-250A 4021-013	Y Y
7	18" Flex 3/8" Diameter		567-301A	Y
8	Log Set Assembly		LOGS-AZTEC	Y
9	Log 1 Back Log		SRV703-701	
10	Log 2 Front Right Log		SRV703-702	
11	Log 3 Front Left Log		SRV703-703	
12	Log 4 Front Left Inside Log		SRV750-705	
13	Log 5 Left Side Log		SRV703-704	
14	Log 6 Left Center Front Log		SRV750-706	
15	Log 7 Right Side Log		SRV750-704	
16	Log 8 Right Center Log		SRV703-705	
	3V Adaptor		593-593A	Y
17	Finishing Strips		704-233	
18	Glass Retainer		704-235	
19	Non-Combustible Board		704-192	
	Patch Kit		SRV-PACK-CFX	
	Glass Latch Assembly		386-122A	Y
	Lava Rock Bag		705-420	
	Mineral Wool		050-721	
	Touch-up Paint		TUP-GBK-12	
	Decorative Front (Standard)		DF-AZTEC-BK	
<b>ACCESSORIES</b>				
	Trim Door Mesh		MESH-BRAVO	
	Remote Control Kit		RC-SMART-HTL	
	Remote Control Kit		SMART-STAT-HTL	
	Pewter Mesh Panel Door		DF-Bravo-PWT	
	Conversion Kit LP		DCKP-AZTEC	Y
	Conversion Kit NG		DCKN-AZTEC	Y
	Mystic Embers		Mystic-Embers	

Additional service part numbers may appear on the following page.



**8 Log Set Assembly**



Part number list on following page.

## Service Parts List

**BRAVO**

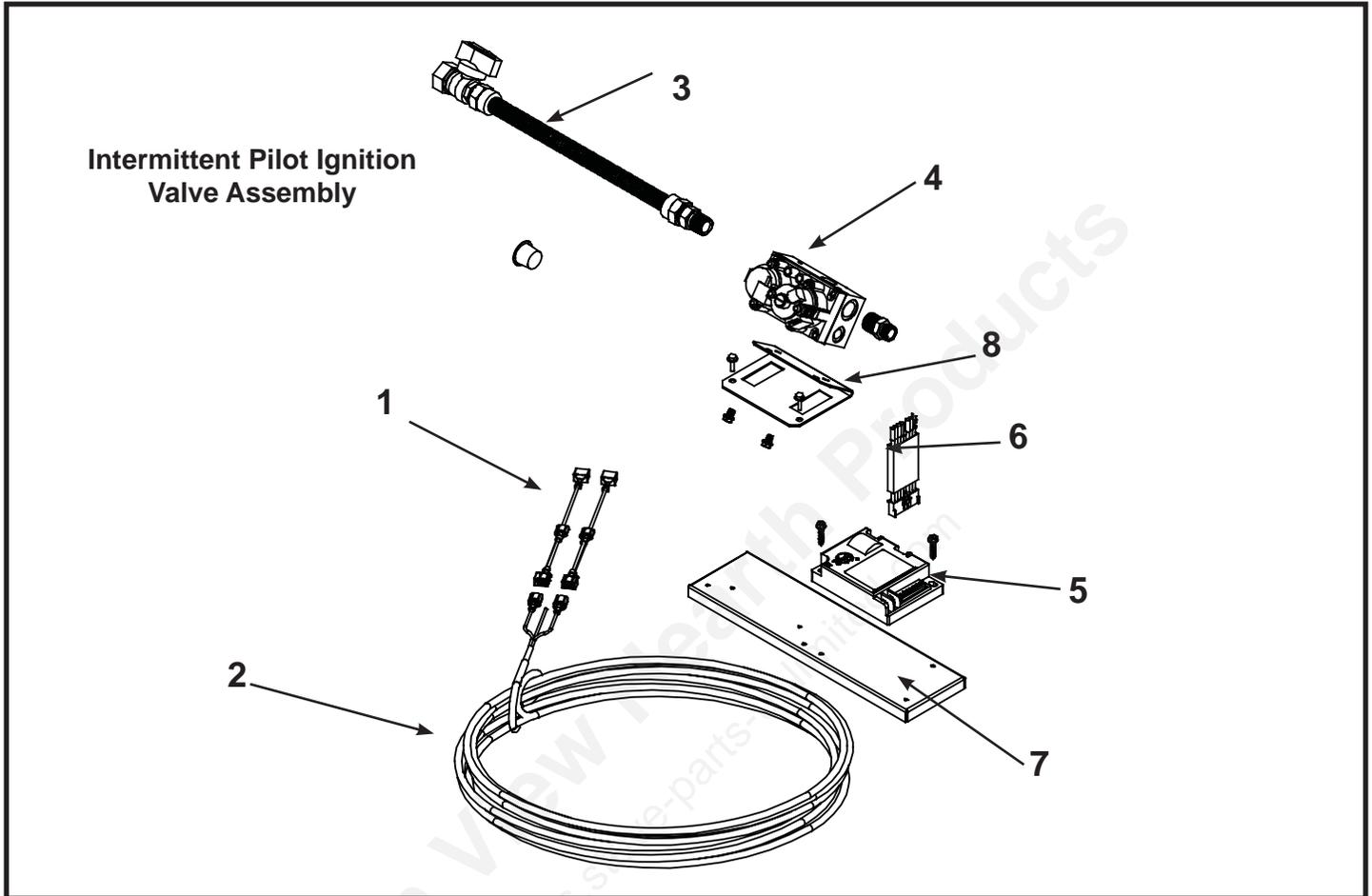
**IMPORTANT:** THIS IS DATED INFORMATION. The most current information is located on your dealer's VIP site. When ordering, supply serial and model numbers to ensure correct service parts.



AVAILABLE  
TO SHIP IN 24  
HOURS

ITEM	DESCRIPTION	SERIAL #	PART NUMBER	↓
1	Battery Pack		593-594A	Y
2	Glass Door Assembly		GLA-BRAVO	Y
3	Pilot Assembly NG (must order whole assembly)	Pre 00241284 Post 00241284	SRV704-178-NG 2090-012	Y Y
3	Pilot Assembly LP (must order whole assembly)	Pre 00240038 Post 00240038	SRV704-178-LP 2090-013	Y Y
4	Burner NG		704-176A	Y
4	Burner LP		704-175A	Y
5	Log Grate		704-360A	
6	Junction Box	Pre 10-04 Post 10-04	100-250A 4021-013	Y Y
7	18" Flex 3/8" Diameter		567-301A	Y
8	Log Set Assembly		LOGS-BRAVO	Y
9	Log 1 Back Log		SRV750-703	
10	Log 2 Right Inside Log		SRV750-705	
11	Log 3 Small Log		SRV750-706	
12	Log 4 Left Inside Log		SRV750-704	
13	Log 5 Right Log		SRV704-702	
14	Log 6 Left Log		SRV704-701	
	3V Adaptor		593-593A	Y
15	Finishing Strips		704-233	
16	Glass Retainer		704-235	
17	Non-combustible board		704-192	
	Battery Pack		593-594A	Y
	Patch Kit		SRV-PACK-CFX	
	Glass Latch Assembly		386-122A	Y
	Lava Rock Bag		705-420	
	Mineral Wool		050-721	
<b>ACCESSORIES</b>				
	Trim Door Mesh		MESH-BRAVO	
	Remote Control Kit		RC-SMART-HNG	
	Remote Control Kit		SMART-STAT-HNG	
	Remote Control Kit		SMART-BATT-HNG	
	Wall Switch Kit, Off-white		WSK-21	
	Wall Switch Kit, White		WSK-21-W	
	Black Mesh Panel Door (Standard)		DF-Bravo-BK	
	Pewter Mesh Panel Door		DF-Bravo-PWT	
	Cabinet Mesh Doors, Black		CDM-Bravo-BK	
	Cabinet Mesh Doors, Pewter		CDM-Bravo-PWT	
	Conversion Kit NG SPI		NGKP-BRAVO	Y
	Conversion Kit LP SPI		LPKP-BRAVO	Y

Additional service part numbers may appear on the following page.



AVAILABLE  
TO SHIP IN 24  
HOURS

ITEM	DESCRIPTION	SERIAL #	PART NUMBER	↓
1	Jumper Wire		2012-206	Y
2	Wire Assembly Thermostat Wire Assembly	PRE 10-04	593-596A	Y
		POST 10-04	2045-024	Y
3	Flex Ball Valve Assembly		302-320A	Y
4	Valve NG		593-500	Y
4	Valve LP		593-501	Y
5	Module		593-592	Y
6	Wire Assembly		593-590A	Y
7	Valve Bracket		704-146	
8	Valve Bracket Plate		704-246	
	Orifice NG (#42A)		060-800	Y
	Orifice LP (#53A)		060-801	Y

## D. Limited Lifetime Warranty

### LIMITED LIFETIME WARRANTY BRAVO GAS APPLIANCE PRODUCTS



**BASIC ONE-YEAR WARRANTY.** HEAT & GLO, a brand of HEARTH & HOME TECHNOLOGIES INC., located at 20802 Kensington Boulevard, Lakeville, MN 55044, ("HEAT & GLO") warrants to the original owner that your new HEAT & GLO Gas Appliance (the "Product") will be free from defects in materials and workmanship for a period of one year from the date of installation. During the first year, HEAT & GLO will replace or repair, at its discretion, any defective components at its sole cost and expense, including payment of all reasonable labor costs incurred in replacing or repairing such components. This basic warranty is subject to the conditions, exclusions and limitations described below.

**EXTENDED LIFETIME COVERAGE.** HEAT & GLO warrants that the firebox, heat exchanger, log(s), and burner will not be defective in material or workmanship during the period the Product is owned by the original owner, subject to the following conditions, exclusions and limitations described below.

**CONDITIONS, EXCLUSIONS AND LIMITATIONS:**

1. This warranty applies to the original owner only and is nontransferable.
2. This warranty applies only to Products installed in the United States of America or Canada.
3. This warranty is limited to the replacement or repair of defective components or workmanship and HEAT & GLO may fully discharge all obligations under this warranty by repairing or replacing, at its discretion, the defective components. The maximum amount recoverable under this warranty is limited to the purchase price of the Product and, if HEAT & GLO is unable to provide replacement or repair in an expedient and cost-effective manner, HEAT & GLO may discharge all obligations under this warranty by refunding the purchase price of the Product. **IN NO EVENT SHALL HEAT & GLO BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES CAUSED BY DEFECTS IN THE PRODUCT.**
4. Any labor and related repair charges relating to the costs and expenses of replacing or repairing defective components under the Limited Lifetime Warranty are not covered by this warranty, except as provided for under the Basic One-Year Warranty.
5. Components and parts made by other manufacturers, whether sold with the Product or added thereafter, are NOT covered by this warranty unless expressly authorized and approved by HEARTH & HOME TECHNOLOGIES, INC. in writing.
6. Any damages caused by environmental conditions, inadequate ventilation or drafting caused by tight sealing construction of the structure, air handling devices such as exhaust fans or forced air furnaces, or other such causes are not covered by this warranty.
7. This warranty will be void if:
  - a) The Product is not installed, operated and maintained in compliance with local building codes and with the instructions in the Installer's Guide, Owner's Guide and Listing Agent Identification Label furnished with the Product.
  - b) Any parts or components made by other manufacturers are added or used in the Product, unless expressly authorized and approved by HEAT & GLO in writing.
  - c) Any service work is performed on the Product by anyone other than an authorized HEAT & GLO representative.
  - d) The Product is damaged due to shipping, improper handling, accident, abuse or misuse.
  - e) Fuels other than those specified in the Installer's Guide and Owner's Guide are used.
  - f) Modification was made to the Product which was not expressly authorized and approved by HEARTH & HOME TECHNOLOGIES, INC. in writing.

**EXCEPT TO THE EXTENT PROVIDED BY LAW, HEAT & GLO MAKES NO EXPRESS WARRANTIES OTHER THAN THE WARRANTY SPECIFIED HEREIN. THE DURATION OF ANY IMPLIED WARRANTY IS LIMITED TO THE DURATION OF THE WARRANTY SPECIFIED ABOVE.**

Some states do not allow limitations on how long an implied warranty lasts, or do not allow exclusion or limitation of incidental or consequential damages, so those limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.

If warranty service is needed you should contact your installing dealer and if the installing dealer is unable to provide necessary parts or components, contact the nearest authorized HEAT & GLO dealer or supplier.

**NOTES TO CUSTOMER:**

1. In order to insure proper installation, operation and maintenance HEAT & GLO strongly recommends annual servicing by an authorized HEAT & GLO dealer.
2. Please complete this information and retain this warranty in a safe place for future reference: Installation Date: \_\_\_\_\_  
Model #: \_\_\_\_\_ Serial #: \_\_\_\_\_ Installing Contractor: \_\_\_\_\_
3. HEAT & GLO reserves the right to make changes at any time, without notice, in design, material, specifications and prices of the Product. HEAT & GLO also reserves the right to discontinue styles and products.

# Aztec Gas Appliance (Fireplace) Limited Lifetime Warranty

**HEARTH & HOME TECHNOLOGIES INC.** ("HHT") extends the following warranty for HEATILATOR® gas appliances installed in the United States of America or Canada (the "Appliance"). Dealers and employees of HHT have no authority to make any warranty or authorize any remedies in addition to or inconsistent with the terms of this warranty.

### Limited Lifetime Warranty

HHT warrants the Appliance for component failure due to a manufacturing defect of any of the following components: combustion chamber, burner pan, and logs. The Limited Lifetime Warranty specified above is subject to the conditions, exclusions and limitations listed below, is for the period the Appliance is owned by the original homeowner only, and is nontransferable.

### 1 Year Limited Warranty

HHT warrants the Appliance to be free from failure of any of the following components for a period of one year after installation: valve, flexible gas line connector, glass panel, fan, direct vent chimney components, factory paint, gasket, piezo ignitor, thermopile, thermocouple, junction box, pilot assembly, shutoff valve, high limit switch, refractory liners, transformer, and control box. If the Heatilator Appliance is found to be defective in either material or workmanship within one year of the date of original installation, HHT will provide replacement parts at no charge and pay reasonable labor and freight costs, and is for the period of one year following the date of original installation of the Appliance.

### Conditions, Exclusions, & Limitations of Liability

- A. Both the Limited Lifetime and 1 Year Limited Warranties supplied by HHT apply only while the Appliance is in its location of original installation. HHT's obligation under this warranty does not extend to damages resulting from (1) installation, operation or maintenance of the Appliance not in accordance with the Installation Instructions, Operating Instructions, and the Listing Agent Identification Label furnished with the Appliance; (2) installation which does not comply with local building codes; (3) shipping, improper handling, improper operation, abuse, misuse, accident or unworkmanlike repairs; (4) environmental conditions, inadequate ventilation or drafting caused by tight sealing construction of the structure, air handling devices such as exhaust fans or forced air furnaces, or other causes; (5) use of fuels other than those specified in the Operating Instructions; (6) installation or use of components not supplied with the Appliance or any other components not expressly authorized and approved by HHT; and/or (7) modification of the Appliance not expressly authorized and approved by HHT in writing. This warranty is limited to only the component parts manufactured or supplied by HHT.
- B. HHT's liability under both the Limited Lifetime Warranty and the 1 Year Limited Warranty is limited to the replacement and repair of defective components or workmanship during the applicable period. HHT may fully discharge all of its obligations under such warranties by repairing the defective component(s) or at HHT's discretion, providing replacement parts at no charge and paying reasonable labor and freight costs.
- C. **EXCEPT TO THE EXTENT PROVIDED BY LAW, HHT MAKES NO EXPRESS WARRANTIES OTHER THAN THE WARRANTY SPECIFIED HEREIN. THE DURATION OF ANY IMPLIED WARRANTY IS LIMITED TO DURATION OF THE WARRANTY SPECIFIED ABOVE.**
- D. Some states do not allow exclusions or limitations of incidental or consequential damages, so those limitations may not apply to you. This warranty gives you specific rights; you may also have other rights which vary from state to state.

### How to Obtain Service

To obtain service under this warranty you must:

1. Send written notice of the claimed condition to Heatilator Technical Service Department, Hearth & Home Technologies, 1915 W. Saunders Street, Mt. Pleasant, Iowa 52641-1563. You may also register your claim online at [www.heatilator.com](http://www.heatilator.com).
2. Provide proof of purchase, model number, serial number, and manufacturing date code to HHT.
3. Provide HHT reasonable opportunity to investigate the claim, including reasonable opportunity to inspect the Appliance prior to any repair or replacement work and before the Appliance or any component of the Appliance has been removed from the place of original installation.
4. Obtain HHT's consent to any warranty work before the work is done.

### ADDITIONAL INFORMATION:

If you would like information on current HEATILATOR products or want to locate a dealer in your area, call 1-800-927-6841.

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