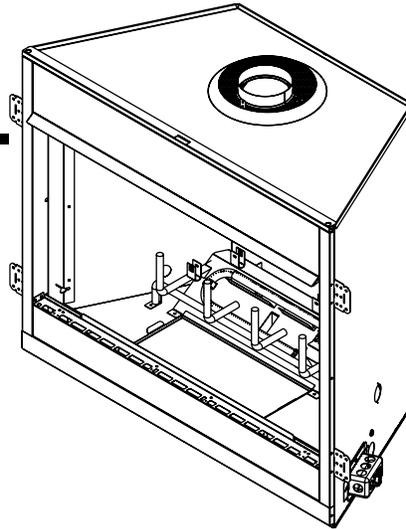


Model(s):  
BCBV36 / BCBV36I  
B-Vent Gas Appliance



GAS-FIRED



**NOTICE**



**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.

**DO NOT DISCARD**

**▲ 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 SURFACES!**

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

**Hot glass will cause burns.**

- **DO NOT** touch glass until it is cooled
  - **NEVER** allow children to touch glass
  - Keep children away
  - **CAREFULLY SUPERVISE** children in same room as fireplace.
  - Alert children and adults to hazards of high temperatures.
- High temperatures may ignite clothing or other flammable materials.**
- Keep clothing, furniture, draperies and other flammable materials away.



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.

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.

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

## A. Congratulations

Congratulations on selecting a Heatilator gas fireplace, an elegant and clean alternative to wood burning fireplaces. The Heatilator gas fireplace you have selected is designed to provide the utmost in safety, reliability, and efficiency.

As the owner of a new fireplace, 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.

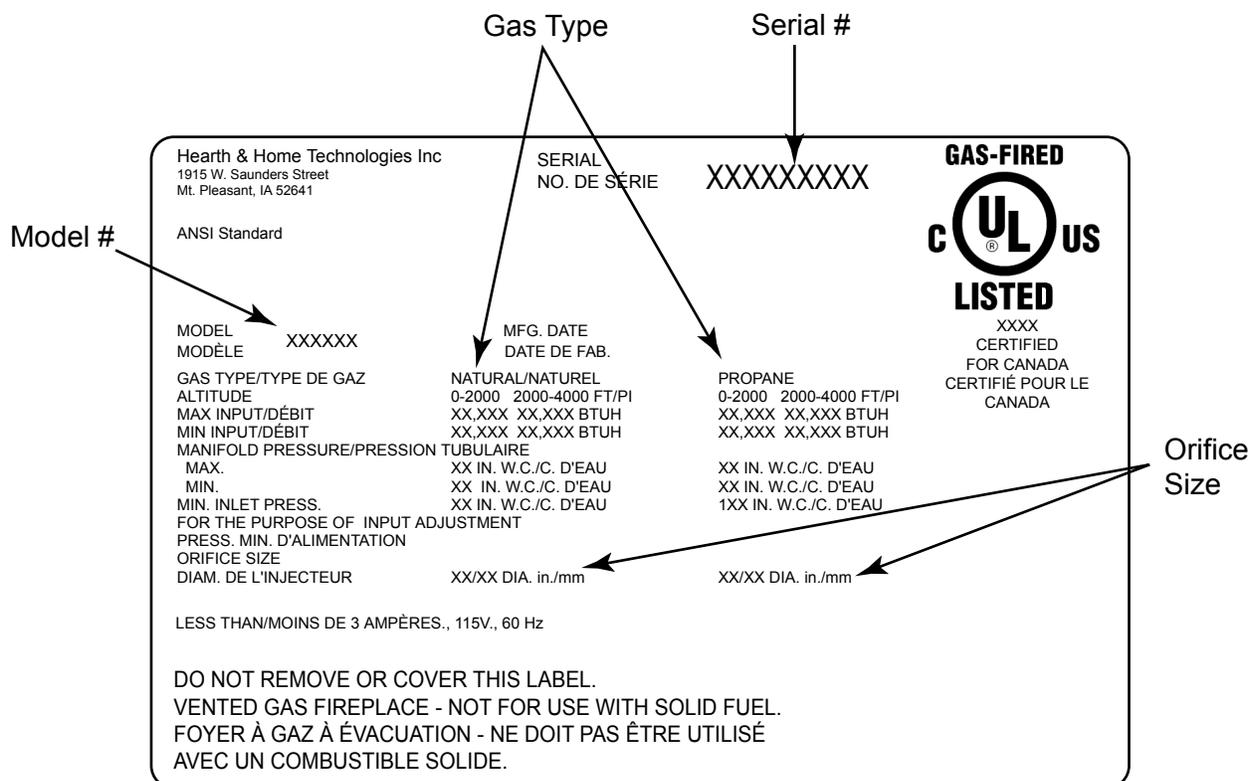
The information contained in this owner's manual, unless noted otherwise, applies to all models and gas control systems.

Your new Heatilator gas fireplace will give you years of durable use and trouble-free enjoyment. Welcome to the Heatilator family of fireplace products!

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

## Listing Label Information/Location

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



## ▲ Safety Alert Key:

- **DANGER!** Indicates a hazardous situation which, if not avoided will result in death or serious injury.
- **WARNING!** Indicates a hazardous situation which, if not avoided could result in death or serious injury.
- **CAUTION!** Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
- **NOTICE:** Used to address practices not related to personal injury.

## Table of Contents

A. Congratulations	2	B. Wall and Ceiling Penetration Framing	22
B. Warranty	4	C. Vertical Penetration Framing	22
<b>1 Listing and Code Approvals</b>		<b>9 Appliance Preparation</b>	
A. Appliance Certification	6	A. Install Outside Air Kit Damper Assembly	23
B. Tempered Glass Specifications	6	B. Gas and Electrical Connections	23
C. BTU Specifications	6	C. Secure and Level the Appliance	23
D. High Altitude Installations	6	<b>10 Installing Vent Pipe</b>	
E. Non-Combustible Materials Specification	6	A. Assembly of Vent Sections	24
F. Combustible Materials Specification	6	B. Attach Vent to Firebox	24
G. Electrical Codes	6	C. Secure Vent Sections	24
		D. Install Attic Insulation Shield	24
		<b>11 Gas Information</b>	
		A. Fuel Conversion	25
		B. Gas Pressure	25
		C. Gas Connection	25
		D. High Altitude Installations	25
		<b>12 Electrical Information</b>	
		A. Wiring Requirements	26
		B. Standing Pilot Ignition System Wiring	26
		C. Intellifire Ignition System Wiring	26
		D. Optional Accessories Requirements	26
		E. Electrical Service and Repair	27
		F. Junction Box Installation	28
		<b>13 Finishing</b>	
		A. Mantel and Wall Projections	29
		B. Facing Material	29
		<b>14 Appliance Setup</b>	
		A. Remove the Shipping Materials	30
		B. Place the Control Access Panel	30
		D. Accessories	30
		E. Install the Refractory	30
		F. Place the Lava Rock	30
		G. Place the Vermiculite	31
		H. Place the Rockwool	31
		I. Log Removal/Replacement	31
		J. Hood	32
		K. Air Shutter Setting	32
		<b>15 Troubleshooting</b>	
		A. Standing Pilot Ignition System	33
		B. Intellifire Ignition System	35
		<b>16 Reference Materials</b>	
		A. Appliance Dimension Diagram	37
		B. Service Parts List	38
		C. Optional Components	42
		D. Contact Information	44

## User Guide

### 2 Operating Instructions

A. Gas Fireplace Safety	7
B. Your Fireplace	7
C. Clear Space	8
D. Decorative Doors and Fronts	8
E. Remote Controls, Wall Controls and Wall Switches	8
F. Outside Air (optional)	8
G. Before Lighting Fireplace	8
H. Lighting Instructions (IPI)	9
I. Lighting Instructions (Standing Pilot)	10
J. After Fireplace is Lit	11
K. Frequently Asked Questions	11

### 3 Maintenance and Service

A. Maintenance Tasks-Homeowner	12
--------------------------------	----

## Installer Guide

### 4 Getting Started

A. Typical Appliance System	14
B. Design and Installation Considerations	15
C. Tools and Supplies Needed	15
D. Inspect Appliance and Components	15
E. Negative Pressure	16

### 5 Framing and Clearances

A. Select Appliance Location	17
B. Construct the Appliance Chase	17
C. Clearances	18
D. Mantel and Wall Projections	19

### 6 Termination Locations

A. Vent Termination Minimum Clearances	20
--	----

### 7 Vent Information and Diagrams

A. Vent Guidelines	21
B. Vent System Configuration	21

### 8 Vent Clearances and Framing

A. Pipe Clearances to Combustibles	22
------------------------------------	----

➔ = Contains updated information.

## B. Warranty

### Hearth & Home Technologies LIMITED WARRANTY

Hearth & Home Technologies (“HHT”) and its respective brands extends the following warranty for HHT gas, wood, pellet and electric appliances purchased from an authorized HHT dealer and installed in the United States of America or Canada. Warranty starts with date of purchase by the original owner (End User) except as noted for replacement parts.

Warranty Period		HHT Manufactured Appliances and Venting						Components Covered
Parts	Labor	Gas	Wood	Pellet	EPA Wood	Electric	Venting	
1 Year		X	X	X	X	X	X	All Parts and Material Except as covered by Conditions, Exclusion, and Limitations listed
2 years				X	X			Igniters, Electronic Components, and Glass
		X	X	X	X			Blowers
			X					Molded Refractory Panels
3 years				X				Firepots
5 years	3 years			X	X			Castings & Baffles
7 years	3 years		X	X	X			Firebox, HHT Chimney, Termination & Heat Exchanger
10 years	1 year	X						Burners, Logs & Refractory
Limited Lifetime	1 year	X						Firebox & Heat Exchanger
90 Days		X	X	X	X	X	X	All Replacement Parts
See Conditions, Exclusions, and limitations. 9-01-08								

### CONDITIONS, EXCLUSIONS & LIMITATION OF LIABILITY

- This warranty applies to the original owner and is transferable up to two years from date of purchase to the new homeowner, provided the purchase was made through an authorized dealer or distributor of HHT, and the appliance remains in its original place of installation.
- The maximum amount recoverable under this warranty is limited to the purchase price of the product.
- In no event shall HHT be liable for any incidental or consequential damages caused by defects in the product.
- Adjustments, regular maintenance, cleaning and temporary repairs, or the failure to duplicate the problem in the home is not covered under this warranty.

## B. Warranty (*continued*)

This limited warranty does not extend to or include surface finish on the appliance or terminations, door gasketing, glass gasketing, glass discoloration, firebrick, pellet logs, kaowool or other ceramic insulating materials. Rust and/or corrosion on any of the metal surfaces, cast iron components, baffles, firepots, doors, or firebox area are not covered by this warranty.

- Noise resulting from minor expansion, contraction, or movement of certain parts is normal and complaints related to this noise are not covered by this warranty.
- 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 or handling devices such as exhaust fans or forced air furnaces or other such 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 does not apply to non-HHT venting components, hearth components or other accessories used in conjunction with the installation of this product.
- This warranty is void if the appliance has been over-fired or operated in atmospheres contaminated by chlorine, fluorine, or other damaging chemicals the appliance is subject to prolonged periods of dampness or condensation, or there is any damage to the appliance or other components due to water or weather damage which is the result of, but not limited to, improper chimney or venting installation.
- HHT's liability under this 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) at HHT's discretion. Shipping costs are not covered under this warranty.
- Some states do not allow exclusions or limitation 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.
- 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.

This Limited Warranty is effective on all HHT appliances sold after September 01, 2008 and supersedes any and all warranties currently in existence.

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

# 1 Listing and Code Approvals

## A. Appliance Certification

**MODELS:** BCBV36, BCBV36I

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

**TYPE:** B-Vent Gas Appliance Heater

**STANDARD:** ANSI 21.50b-2005/CSA 2.22b-2005 and Title

This product is listed to ANSI standards for “Vented Gas Fireplaces” and “Gas Fired Appliances for Use at High Altitudes”.

This model may be installed in a sleeping room when the provisions for combustion, ventilation and dilution air are met per the requirements of **ANSI 223.1/NFPA 54 National Fuel Gas Code**. In Canada, installation in a sleeping room requires installation with a thermostat certified for use with this product. Consult your local authorities having jurisdiction.

**NOTICE:** *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.*

**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.

## B. Tempered 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.

## C. BTU Specifications

BCBV36 Series	Standing Pilot	IPI
Input Rate (NG)	23,000	23,000
Orifice Size (NG)	.089 in./2.26 mm	.089 in./2.26 mm
Input Rate (LP)	23,000	23,000
Orifice Size (LP)	.056 in./1.42 mm	.056 in./1.42 mm

## D. High Altitude Installations

**NOTICE:** *If the heating value of the gas has been reduced, these rules do not apply. Check with your local gas utility or authorities having jurisdiction.*

When installing above 2000 feet elevation:

- In the USA: Reduce input rate 4% for each 1000 feet above 2000 feet.
- In CANADA: Reduce input rate 10% for elevations between 2000 feet and 4500 feet. Above 4500 feet, consult local gas utility.

Check with your local gas utility to determine proper orifice size.

## 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 and UL763 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 plastered or unplastered shall be considered combustible materials.

## G. Electrical Codes

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

- A 110-120 VAC circuit for this product must be protected with ground-fault circuit-interrupter protection, in compliance with the applicable electrical codes, when it is installed in locations such as in bathrooms or near sinks.

# 2 Operating Instructions

# User Guide

## A. Gas Fireplace Safety

### ⚠ WARNING



#### HOT SURFACES!

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

#### Hot glass will cause burns.

- DO NOT touch glass until it is cooled
- NEVER allow children to touch glass
- Keep children away

- CAREFULLY SUPERVISE children in same room as fireplace.
- Alert children and adults to hazards of high temperatures.

#### High temperatures may ignite clothing or other flammable materials.

- Keep clothing, furniture, draperies and other flammable materials away.

If you expect that small children or vulnerable adults may come into contact with this fireplace, the following precautions are recommended:

- Install a physical barrier such as:
  - A decorative firescreen.
  - Adjustable safety gate.
- Install a switch lock or a wall/remote control with child protection lockout feature.
- Keep remote controls out of reach of children.

- Never leave children alone near a hot fireplace, whether operating or cooling down.
- Teach children to NEVER touch the fireplace.
- Consider not using the fireplace when children will be present.

Contact your dealer for more information, or visit: [www.hpba.org/staysafe](http://www.hpba.org/staysafe).

To prevent unintended operation when not using your fireplace for an extended period of time (summer months, vacation, trips, etc):

- Remove batteries from remote controls.
- Turn off wall controls.
- Unplug 3 volt adapter plug and remove batteries on IPI models.
- Turn off gas controls valve on standing pilot models.

When lighting the pilot light on fireplaces with a standing pilot, check for the presence of residual gas build-up. See Standing Pilot Lighting instructions and Maintenance Tasks.

## B. Your Fireplace

**WARNING! DO NOT operate fireplace before reading and understanding operating instructions. Failure to operate fireplace according to operating instructions could cause fire or injury.**

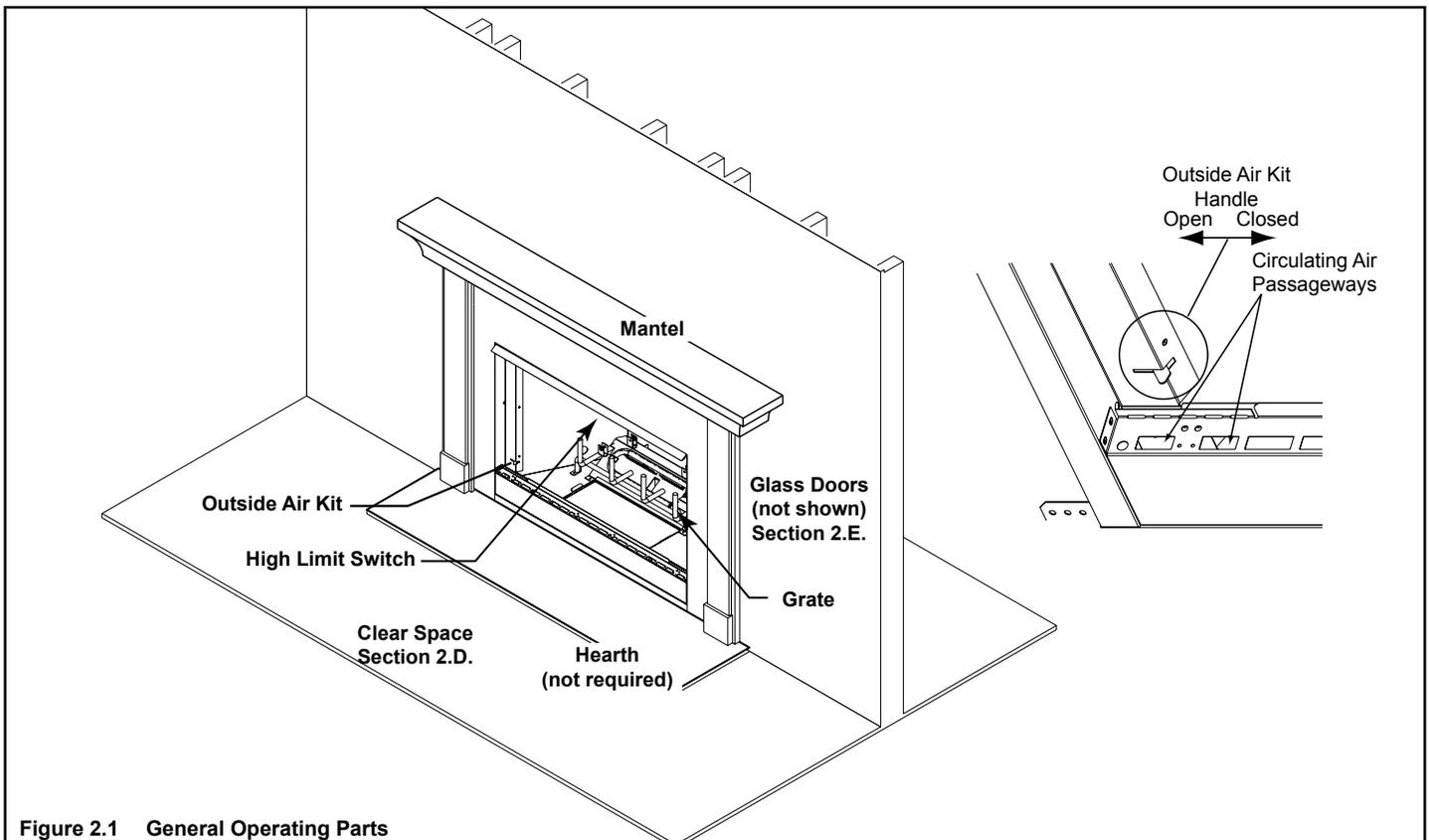
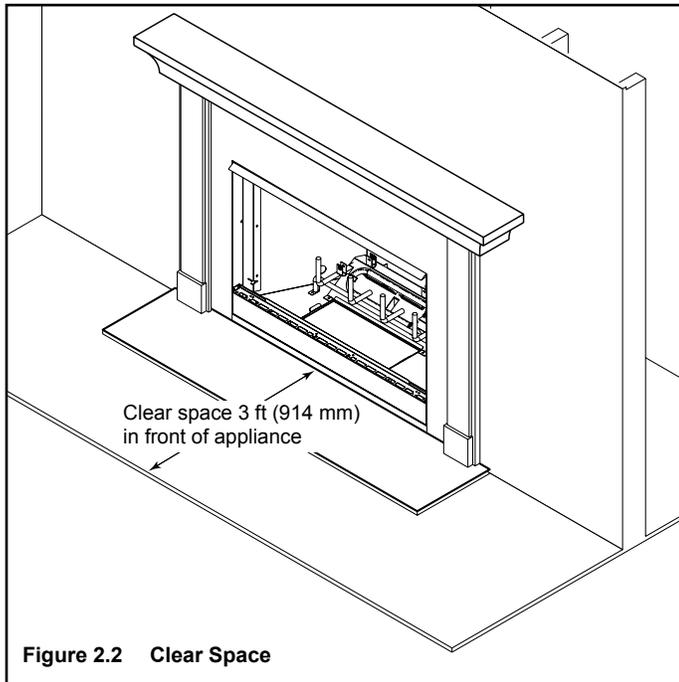


Figure 2.1 General Operating Parts

## C. Clear Space

**WARNING! DO NOT place combustible objects in front of the fireplace or block louvers.** High temperatures may start a fire. See Figure 2.2.

Avoid placing candles and other heat-sensitive objects on mantel or hearth. Heat may damage these objects.



## D. Decorative Doors and Fronts

**WARNING! Risk of Fire!** Install **ONLY** doors or fronts approved by **Hearth & Home Technologies**. Unapproved doors or fronts may cause fireplace to overheat.

For more information refer to the instructions supplied with your decorative door or front.

## E. Remote Controls, Wall Controls and Wall Switches

Follow the instructions supplied with the control installed to operate your fireplace:

For safety:

- Install a switch lock or a wall/remote control with child protection lockout feature.
- Keep remote controls out of reach of children.

See your dealer if you have questions.

## F. Outside Air (optional)

The outside air kit supplies some fresh combustion air for your fireplace. It may help reduce the effects of negative air pressure. (See Section 9.A.)

- Refer to Figure 2.1 for location of control.
- Close the inlet to prevent cold drafts when the fireplace is not being used.

**CAUTION! Risk of Burns!** The outside air control handle is **HOT** when fireplace is in operation. Adjust **BEFORE** lighting fire.

## G. Before Lighting Fireplace

Before operating this fireplace for the first time, **have a qualified service technician:**

- Verify all shipping materials have been removed from inside and/or underneath the firebox.
- Review proper placement of logs, ember material and/or other decorative materials.
- Check the wiring.
- Check the air shutter adjustment.
- Ensure that there are no gas leaks.
- Determine if this fireplace has a standing pilot or an Intellifire ignition system. Ask your dealer or open control access panel, look at gas valve assembly.
  - A standing pilot ignition will have a red or black ignitor button (refer to Figure 12.1).
  - An Intellifire ignition system will not have a button.

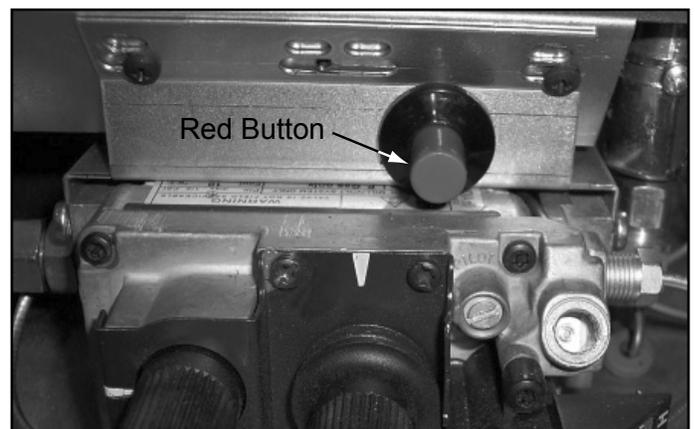


Figure 2.3 Ignitor Button

## H. Lighting Instructions (IPI)

- For normal use, activate/deactivate your fireplace with the wall switch or remote control.
- The IPI system may be operated with two D-cell batteries. When using batteries, unplug the transformer. To prolong battery life, remove them when using the transformer.
- If your fireplace must be deactivated for serviced or an extended period of time, follow the instructions below.

 <h1>FOR YOUR SAFETY READ BEFORE LIGHTING</h1>		<p>This appliance needs fresh air for safe operation and must be installed so there are provisions for adequate combustion and ventilation air.</p>
<p><b>WARNING:</b> If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.</p>		<p>This appliance must be installed in accordance with local codes, if any; if not, follow ANSI Z223.1 or, in Canada, current CAN/CGA-B149.</p>
<p>A. This appliance is equipped with an ignition device which automatically lights the pilot. Do not try to light the pilot by hand.</p> <p>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.</p> <p><b>WHAT TO DO IF YOU SMELL GAS</b></p> <ul style="list-style-type: none"> <li>• Do not try to light any appliance.</li> <li>• Do not touch any electric switch; do not use any phone in your building.</li> <li>• Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.</li> </ul>	<ul style="list-style-type: none"> <li>• If you cannot reach your gas supplier, call the fire department.</li> </ul> <p>C. Use only your hand to push in and move the gas control valve or turn the gas control knob. Never use tools. If the lever or knob will not move by hand, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.</p> <p>D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.</p>	<p>This appliance must be properly connected to a venting system in accordance with the manufacturer's installation instructions.</p>
<h2>LIGHTING INSTRUCTIONS</h2>		<p><b>WARNING:</b> Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the owner's information manual provided with the appliance. For assistance or additional information consult a qualified installer, service agency or the gas supplier.</p>
<ol style="list-style-type: none"> <li>1. STOP! Read the safety information above on this label.</li> <li>2. Turn wall switch to the "OFF" position or thermostat to the lowest setting.</li> <li>3. Turn off all electric power to the appliance.</li> <li>4. This appliance is equipped with an ignition device which automatically lights the pilot. Do NOT try to light the pilot by hand.</li> </ol>	<ol style="list-style-type: none"> <li>5. Wait five minutes to clear out any gas. If you then smell gas, STOP! Follow "B" in the safety information above on this label. If you don't smell gas, go to the next step.</li> <li>6. To turn on the burner, turn on all electric power to this appliance and turn on the wall switch or set the thermostat to the desired setting.</li> <li>7. If the appliance will not operate, follow the instructions "TO TURN OFF GAS TO APPLIANCE" and call your service technician or gas supplier.</li> </ol>	<p><b>CAUTION:</b> Hot while in operation. Do not touch. Keep children, clothing, furniture, gasoline and other liquids having flammable vapors away.</p>
<h2>TO TURN OFF GAS TO APPLIANCE</h2>		<p><b>WARNING RISK OF FIRE</b></p> <p>This appliance is intended to burn a specified gas fuel only. Do not attempt to use with solid wood fuel or another type of fuel. Do not attempt to modify or use any other type of gas burner system.</p>
<ol style="list-style-type: none"> <li>1. Turn off wall switch or set thermostat to lowest setting.</li> <li>2. Turn off all electric power to the appliance if service is to be performed.</li> </ol>	<ol style="list-style-type: none"> <li>3. Push the gas control lever in and move to the "OFF" position or push the gas control lever to the "OFF" position. Do not force.</li> <li>4. Replace the control access panel.</li> </ol>	<p><b>WARNING:</b> Disconnect the electric power before servicing. If for any reason the original wire supplied with the appliance must be replaced, it must be replaced with 105° C or its equivalent.</p>
<p>Due to high surface temperatures, keep children, clothing and furniture away. Keep burner and control compartment clean. See installation and operating instructions accompanying the appliance.</p>		<p>For use with natural gas or propane. A conversion kit as supplied by the manufacturer shall be used to convert this appliance to the alternative fuel.</p>
		<p>* Also certified for installation in a bedroom or a bed-sitting room. * For U.S. only!</p>
		<div style="border: 2px solid black; padding: 10px; display: inline-block;"> <h1>NATURAL GAS</h1> </div>
		33631D

# I. Lighting Instructions (Standing Pilot)

- For normal use, activate/deactivate your fireplace with the wall switch or remote control.
- If your fireplace must be deactivated for service or an extended period of time, follow the instructions below.

## 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.

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

**LIGHTING INSTRUCTIONS**  
Stop! Read the safety information above on this label.

- Turn wall switch to the "OFF" position or thermostat to the lowest setting.
- Remove control access panel.
- Turn manual gas valve to **CLOSED**. Wait five [5] minutes to clear out any gas. If you then smell gas, **STOP!** Follow "B" in the safety information above on this label. If you don't smell gas, go to next step.
- Turn gas line to "OPEN".
- Turn pilot knob clockwise ↻ to "OFF". (Knob may have to be depressed to pass "PILOT" position.)
- Locate pilot assembly inside appliance.
- Locate red ignitor button.
- Turn pilot knob to "PILOT" and push in.
- Continue to hold in pilot knob and push the red ignitor button 12-15 times until small blue pilot flame appears.
- Continue to hold in pilot knob for approximately one minute. Pilot should remain lit. If pilot goes out, wait 5 minutes and repeat Steps 3-9.
- Release and turn knob counterclockwise ↻ to "ON".
- If appliance will not operate, follow the instructions "TO TURN OFF GAS TO APPLIANCE" and call your service technician or gas supplier.

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

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

This appliance must be installed in accordance with local codes, if any; if not, follow ANSI Z223.1 or, in Canada, current CAN/CGA-B149.

This appliance must be properly connected to a venting system in accordance with the manufacturer's installation instructions.

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

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

**WARNING RISK OF FIRE**  
This appliance is intended to burn a specified gas fuel only. Do not attempt to use with solid wood fuel or another type of fuel. Do not attempt to modify or use any other type of gas burner system.

**WARNING:** Disconnect the electric power before servicing. If for any reason the original wire supplied with the appliance must be replaced, it must be replaced with 105° C or its equivalent.

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

\* Also certified for installation in a bedroom or a bed-sitting room.  
\* For U.S. only!

NATURAL GAS

## TO TURN OFF GAS TO APPLIANCE

- Turn off wall switch or set thermostat to lowest setting.
- Remove control access panel.
- Turn manual gas valve to "CLOSED" position. Do not force.
- Replace control access panel.

Due to high surface temperatures, keep children, clothing and furniture away. Keep burner and control compartment clean. See installation and operating instructions accompanying the appliance.

29097D

## J. After Fireplace is Lit

### Initial Break-in Procedure

- The fireplace should be run three to four hours continuously on high.
- Turn the fireplace off and allow it to completely cool.
- Clean glass doors. See Section 3.
- Run continuously on high an additional 12 hours.
- This cures the materials used to manufacture the fireplace.

**NOTICE!** Open windows for air circulation during fireplace break-in.

- Some people may be sensitive to smoke and odors.
- Smoke detectors may activate.

## K. Frequently Asked Questions

ISSUE	SOLUTIONS
Condensation on the glass	This is a result of gas combustion and temperature variations. As the fireplace warms, this condensation will disappear.
Blue flames	This is a result of normal operation and the flames will begin to yellow as the fireplace is allowed to burn for 20 to 40 minutes.
Odor from fireplace	When first operated, this fireplace may release an odor for the first several hours. This is caused by the curing of materials from manufacturing. Odor may also be released from finishing materials and adhesives used near the fireplace. These circumstances may require additional curing related to the installation environment.
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. A non-abrasive cleaner such as gas appliance 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 fireplace.

# 3 Maintenance and Service

Any safety screen or guard removed for servicing must be replaced prior to operating the fireplace.

When properly maintained, your fireplace will give you many years of trouble-free service. We recommend annual service by a qualified service technician.

## A. Maintenance Tasks-Homeowner

Installation and repair should be done by a qualified service technician only. The fireplace should be inspected before use and at least annually by a professional service person.

The following tasks may be performed annually by the homeowner. If you are uncomfortable performing any of the listed tasks, please call your dealer for a service appointment.

More frequent cleaning may be required due to lint from carpeting or other factors. Control compartment, burner and circulating air passageway of the fireplace must be kept clean.

**CAUTION! Risk of Burns!** The fireplace should be turned off and cooled before servicing.

### Glass Cleaning

**Frequency:** Seasonally

**By:** Homeowner

**Tools Needed:** Protective gloves, glass cleaner, drop cloth and a stable work surface.

**CAUTION! Handle glass doors with care. Glass is breakable.**

- Avoid striking, scratching or slamming glass
- Avoid abrasive and ammonia-based cleaners
- **DO NOT** clean glass while it is hot
- Prepare a work area large enough to accommodate glass assembly and door frame by placing a drop cloth on a flat, stable surface.

**Note:** Glass doors and gasketing may have residue that can stain carpeting or floor surfaces.

- Remove door or decorative front from fireplace and set aside on work surface.
- Clean glass with a non-abrasive commercially available cleaner.
  - Light deposits: Use a soft cloth with soap and water
  - Heavy deposits: Use commercial fireplace glass cleaner (consult with your dealer)
- Reinstall door or decorative front.

### Doors, Surrounds, Fronts

**Frequency:** Annually

**By:** Homeowner

**Tools needed:** Protective gloves, stable work surface

- Assess condition of screen and replace as necessary.
- Inspect for scratches, dents or other damage and repair as necessary.
- Check that louvers are not blocked.
- Vacuum and dust surfaces.

### Remote Control

**Frequency:** Seasonally

**By:** Homeowner

**Tools needed:** Replacement batteries and remote control instructions.

- Locate remote control transmitter and receiver.
- Verify operation of remote. Refer to remote control operation instructions for proper calibration and setup procedure.
- Place batteries as needed in remote transmitters and battery-powered receivers.
- Place remote control out of reach of children.

If not using your fireplace for an extended period of time (summer months, vacations/trips, etc), to prevent unintended operation:

- Remove batteries from remote controls.
- Unplug 3 volt adapter plug on IPI models.

### Venting

**Frequency:** Seasonally

**By:** Homeowner

**Tools needed:** Protective gloves and safety glasses.

- Inspect venting and termination cap for blockage or obstruction such plants, bird nests, leaves, snow, debris, etc.
- Verify termination cap clearance to subsequent construction (building additions, decks, fences, or sheds). See Section 6.
- Inspect for corrosion or separation.
- Verify weather stripping, sealing and flashing remains intact.
- Inspect draft shield to verify it is not damaged or missing.

## Logs

**Frequency:** Annually

**By:** Qualified Service Technician

**Tools needed:** Protective gloves.

- Inspect for damaged or missing logs. Replace as necessary. Refer to Section 14.I. for log placement instructions.
- Verify correct log placement and no flame impingement causing sooting. Correct as necessary.

## Firebox

**Frequency:** Annually

**By:** Qualified Service Technician

**Tools needed:** Protective gloves, sandpaper, steel wool, cloths, mineral spirits, primer and touch-up paint.

- Inspect for paint condition, warped surfaces, corrosion or perforation. Sand and repaint as necessary.
- Replace fireplace if firebox has been perforated.

## Control Compartment and Firebox Top

**Frequency:** Annually

**By:** Qualified Service Technician

**Tools needed:** Protective gloves, vacuum cleaner, dust cloths

- 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.
- Remove all foreign objects.
- Verify unobstructed air circulation.

## Burner Ignition and Operation

**Frequency:** Annually

**By:** Qualified Service Technician

**Tools needed:** Protective gloves, vacuum cleaner, whisk broom, flashlight, voltmeter, indexed drill bit set, and a manometer.

- Verify burner is properly secured and aligned with pilot or igniter.
- Clean off burner top, inspect for plugged ports, corrosion or deterioration. Replace burner if necessary.
- Replace ember materials with new dime-size pieces. DO NOT block ports or obstruct lighting paths. Refer to Section 14 for proper ember placement.
- Verify batteries have been removed from battery back-up IPI systems to prevent premature battery failure or leaking.
- Check for smooth lighting and ignition carryover to all ports. Verify that there is no ignition delay.
- Inspect for lifting or other flame problems.

- Verify air shutter setting is correct. See Section 14.K. for required air shutter setting. Verify air shutter is clear of dust and debris.
- Inspect orifice for soot, dirt and corrosion. Verify orifice size is correct. See Service Parts List for proper orifice sizing.
- Verify manifold and inlet pressures. Adjust regulator as required.
- Inspect pilot flame pattern and strength. See Figure 3.1 and 3.2 for proper pilot flame pattern. Clean or replace orifice spud as necessary.
- Inspect thermocouple/thermopile or IPI flame sensing rod for soot, corrosion and deterioration. Clean with emery cloth or replace as required.
- Verify thermocouple/thermopile millivolt output. Replace pilot as necessary. (Standing pilot only)
- Verify that there is not a short in flame sense circuit by checking continuity between pilot hood and flame sense rod. Replace pilot as necessary. (IPI only)

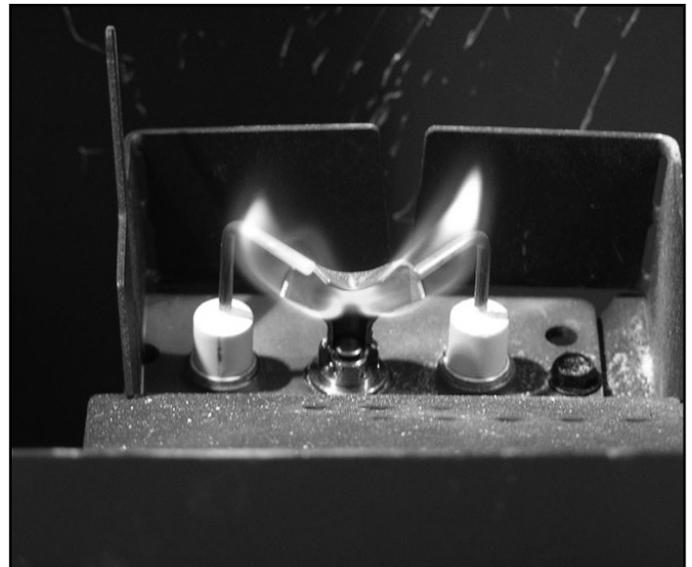


Figure 3.1 IPI Pilot Flame Patterns

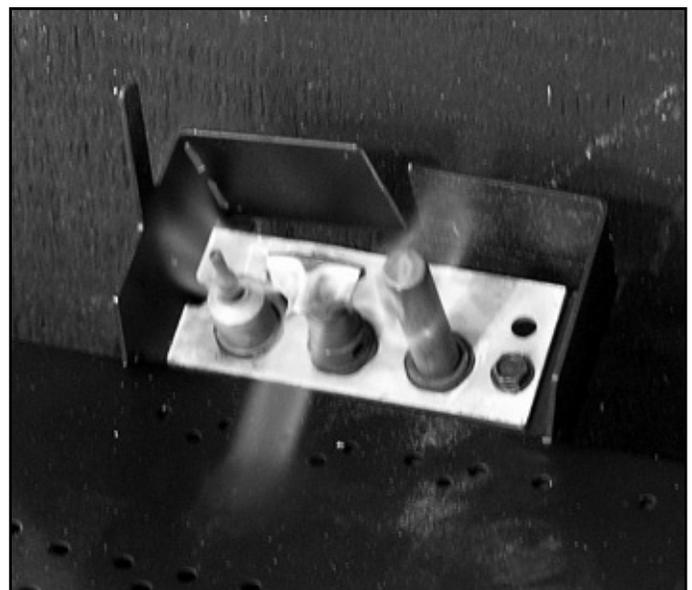


Figure 3.2 Standing Pilot Flame Patterns

# 4 Getting Started

# Installer Guide

## A. Typical Appliance System

**NOTICE:** Illustrations and photos reflect typical installations and are for design purposes only. Illustrations/diagrams are not drawn to scale. Actual product may vary from pictures in manual

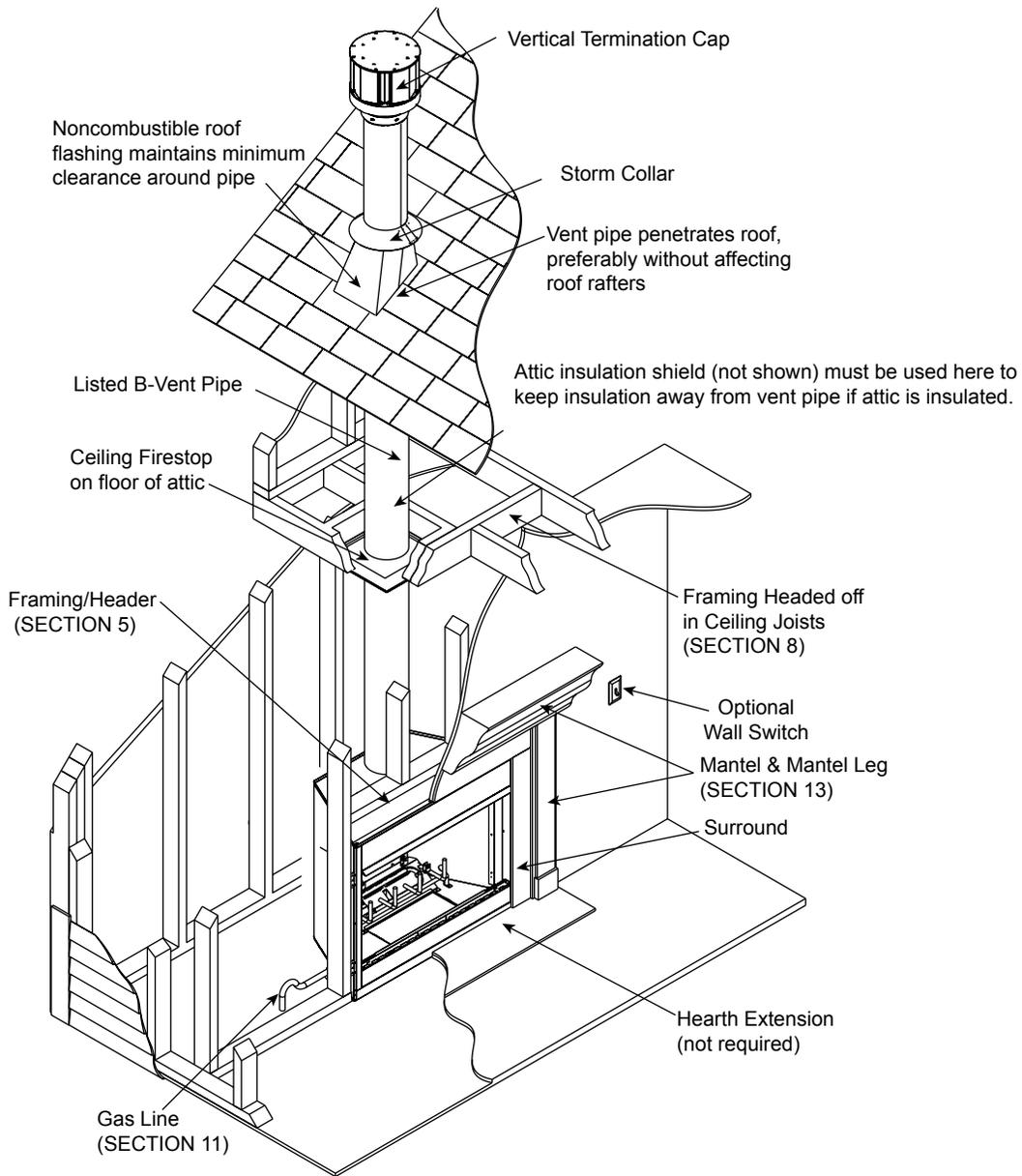


Figure 4.1 Typical System

## B. Design and Installation Considerations

Heatilator B-type vent gas appliances are designed to operate with all exhaust gases expelled to the outside of the building, and combustion air pulled from the room.

Installation MUST comply with local, regional, state and national codes and regulations. Consult insurance carrier, local building inspector, fire officials or authorities having jurisdiction over restrictions, installation inspection and permits.

Before installing, determine the following:

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

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. For assistance or additional information, consult a qualified service technician, service agency or your dealer.

## C. Tools and Supplies Needed

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

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

## D. Inspect Appliance and Components

The following B-vent components are needed for installation.

- Fireplace Box
- Pipe Components
- Firestops
- Attic Insulation Shield
- Elbows
- Strapping
- Roof Flashing or Chase Top
- Termination Cap
- Storm Collar
- Carefully remove the appliance and components from the packaging.
- The vent system components and decorative doors and fronts may be shipped in separate packages.
- If packaged separately, the log set and appliance grate must be 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! Risk of Fire or Explosion! Damaged parts could impair safe operation. DO NOT install damaged, incomplete or substitute components. Keep appliance dry.**

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.**

**WARNING! Risk of Fire, Explosion or Electric Shock! DO NOT use this appliance if any part has been under water. Call a qualified service technician to inspect the appliance and to replace any part of the control system and/or gas control which has been under water.**

## E. Negative Pressure

**WARNING! Asphyxiation Risk!** Negative pressure can cause spillage of combustion fumes and soot. Fireplace needs to draft properly for safety.

Draft is the pressure difference needed to vent fireplaces successfully. Considerations for successful draft include:

- Preventing negative pressure
- Location of fireplace and chimney

**Negative pressure** results from the imbalance of air available for the fireplace to operate properly. Causes for this imbalance include:

- Exhaust fans (kitchen, bath, etc.)
- Range hoods
- Combustion air requirements for furnaces, water heaters and other combustion appliances
- Clothes dryers
- Location of return-air to furnace or air conditioning
- Imbalances of the HVAC air handling system
- Upper level air leaks (recessed lighting, attic hatch opening, duct leaks)

To minimize the effects of negative air pressure, the following must be considered:

- Install the fresh air kit. Install the intake on the side of the house towards prevailing winds during the heating season.
- Ensure adequate outdoor air is supplied for combustion appliances and exhaust equipment.

- Ensure furnace and air conditioning return vents are not located in the immediate vicinity of the fireplace.
- Avoid installing the fireplace near doors, walkways or small isolated spaces.
- Recessed lighting should be of “sealed can” design; attic hatches weather stripped or sealed; and attic mounted ductwork and air handler joints and seams taped or sealed.
- Basement installations should be avoided due to stack effect. Stack effect creates negative pressure in lower levels. Hearth & Home Technologies recommends the use of direct vent fireplaces in basements.

Location of the fireplace and chimney will affect performance. As shown in Figure 4.2, the chimney should:

- Be installed through the warm space enclosed by the building envelope. This helps to produce more draft, especially during lighting and die-down of the fire.
- Penetrate the highest part of the roof. This minimizes the effects of wind turbulence.
- Be located away from trees, adjacent structures, uneven roof lines and other obstructions.

Offsets can restrict draft so their use should be minimized. Consider the fireplace location relative to floor and ceiling and attic joists.

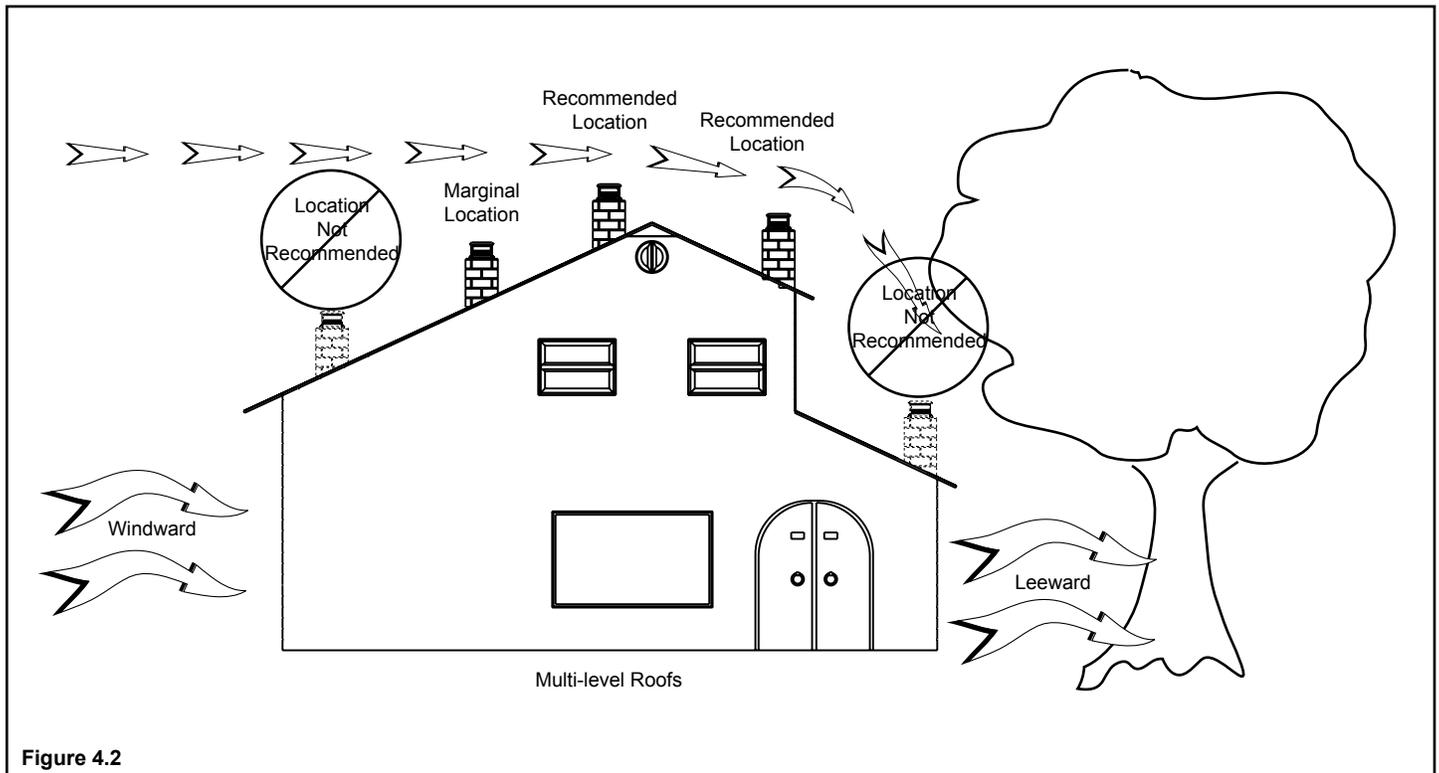


Figure 4.2

# 5 Framing and Clearances

## A. Select Appliance Location

When selecting a location for the appliance it is important to consider the required clearances to walls (see Figure 5.1).

**WARNING! Risk of Fire or Burns!** Provide adequate clearance around air openings and for service access. **Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.**

**NOTICE:** 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.

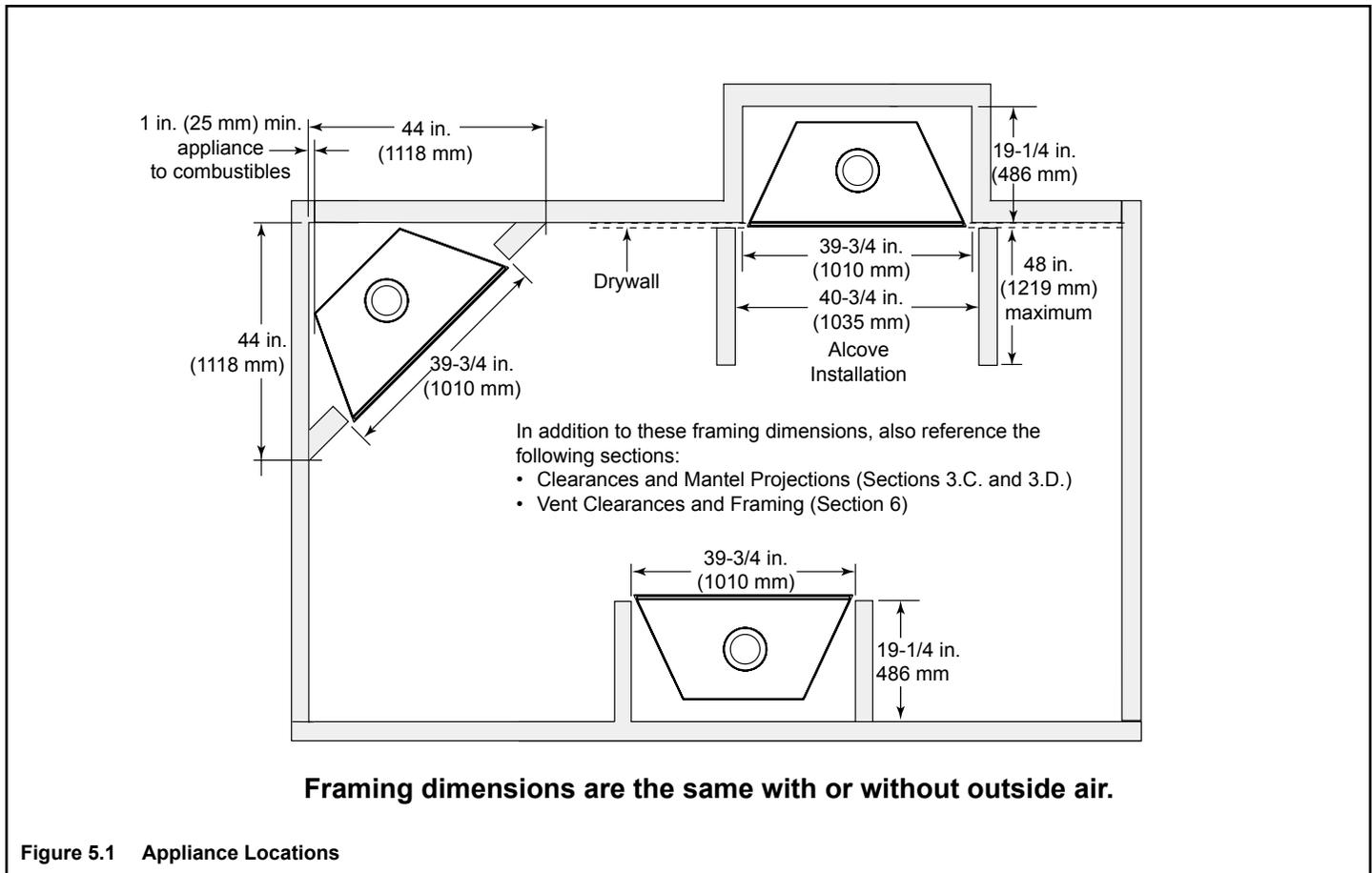


Figure 5.1 Appliance Locations

## B. Construct the Appliance Chase

A chase is a vertical box-like structure built to enclose the gas appliance and/or its vent system. In cooler climates the vent should be enclosed inside the chase.

**NOTICE:** Treatment of ceiling firestops and wall shield firestops and construction of the chase may vary with the type of building. These instructions are not substitutes for the requirements of local building codes. Therefore, you **MUST** check local building codes to determine the requirements to these steps.

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.

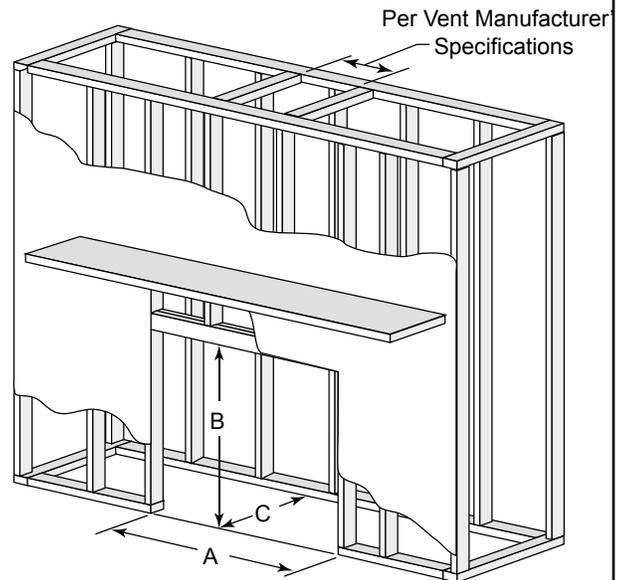
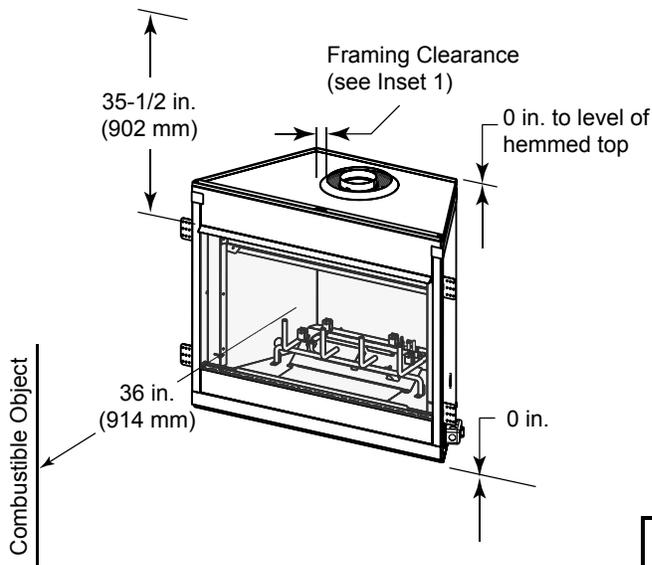
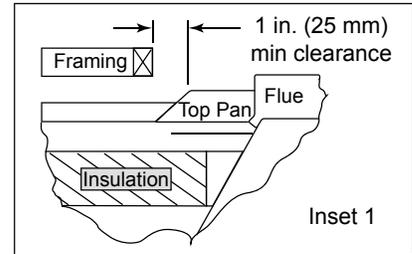
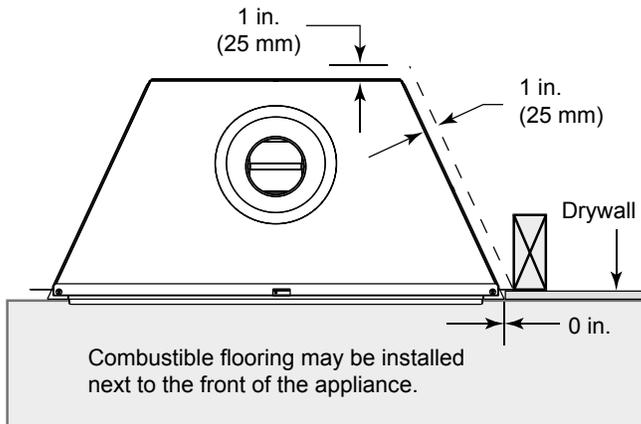
## C. Clearances

**NOTICE:** Install appliance on hard metal or wood surfaces extending full width and depth. **DO NOT** install directly on carpeting, vinyl, tile or any combustible material other than wood.

**WARNING! Risk of Fire!** Maintain specified air space clearances to appliance and vent pipe:

- Insulation and other materials must be secured to prevent accidental contact.
- The chase must be properly blocked to prevent blown insulation or other combustibles from entering and making contact with fireplace or chimney.
- Failure to maintain airspace may cause overheating and a fire.

**Note:** If the inside of the framed cavity is to be finished, the framing dimensions must include the finished surface. Example: If drywall is to be attached to the rear wall, the depth must be measured from the drywall surface.



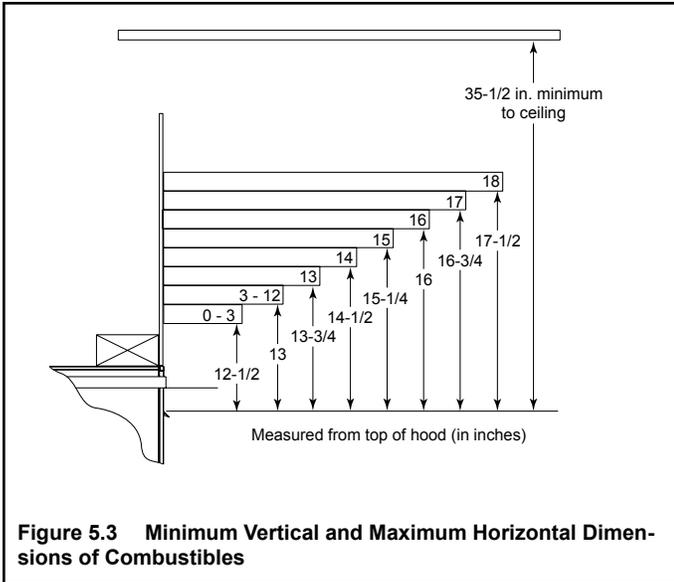
Model	A Rough Opening (Width)	B Rough Opening (Height)	C Rough Openi (Depth)
BCBV36	39-3/4 in. (1010 mm)	33-7/8 in. (860 mm)	19-1/4 in. (489 mm)

Figure 5.2 Clearances to Combustibles

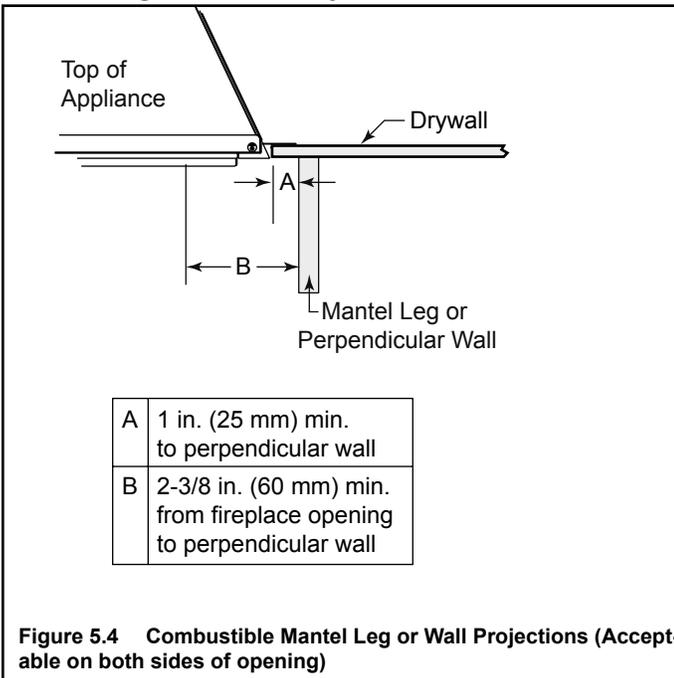
## D. Mantel and Wall Projections

**WARNING! Risk of Fire!** Comply with all minimum clearances as specified. Framing or finishing material closer than the minimums listed must be constructed entirely of noncombustible materials (i.e., steel studs, concrete board, etc).

### Mantels



### Mantel Legs or Wall Projections



# 6 Termination Locations

## A. Vent Termination Minimum Clearances

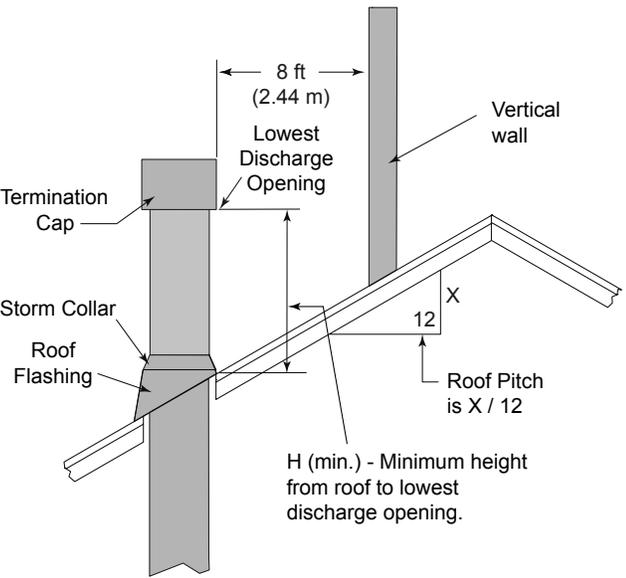
**⚠ WARNING**



**Fire 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 overheating and fire.



8 ft (2.44 m)  
Vertical wall  
Lowest Discharge Opening

Termination Cap  
Storm Collar  
Roof Flashing

X  
12  
Roof Pitch is X / 12

H (min.) - Minimum height from roof to lowest discharge opening.

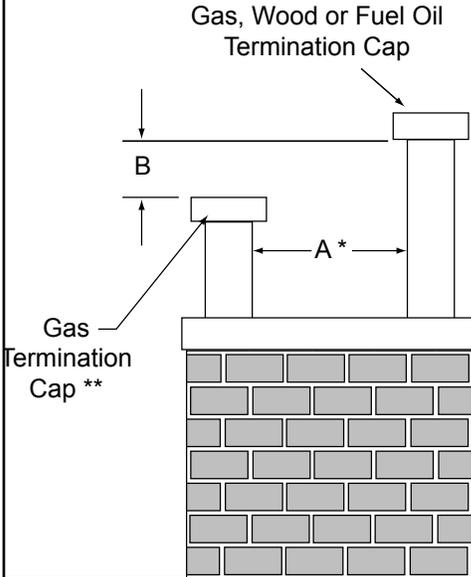
Roof Pitch	H (Min.) Ft.	Roof Pitch	H (Min.) Ft.
Flat to 6/12	1.0*	Over 11/12 to 12/12	4.0
Over 6/12 to 7/12	1.25*	Over 12/12 to 14/12	5.0
Over 7/12 to 8/12	1.5*	Over 14/12 to 16/12	6.0
Over 8/12 to 9/12	2.0*	Over 16/12 to 18/12	7.0
Over 9/12 to 10/12	2.5	Over 18/12 to 20/12	7.5
Over 10/12 to 11/12	3.25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

\* 3 ft. minimum in snow regions

**Figure 6.1 Minimum Height From Roof To Lowest Discharge Opening**

A	B
6 in. (minimum) up to 20 in. 152 mm/508 mm	18 in. minimum 457 mm
20 in. and over	0 in. minimum

Gas, Wood or Fuel Oil Termination Cap



Gas Termination Cap \*\*

\* If using decorative cap cover(s), this distance may need to be increased. Refer to the installation instructions supplied with the decorative cap cover.

\*\* In a staggered installation with both gas and wood terminations, the wood termination cap must be higher than the gas termination cap.

➔ **Figure 6.2 Multiple Termination Caps**

# 7 Vent Information and Diagrams

## A. Vent Guidelines

**WARNING! Fire Risk/Asphyxiation!** This appliance requires the specified pipe for operation. Incorrect pipe may cause spillage, condensation and overheating.

The BCBV36 models require 5 in. (127 mm) B-vent double wall vent pipe.

- Follow pipe manufacturer's installation guidelines when installing the appliance.

**WARNING! Fire Risk/Explosion/Asphyxiation! 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. Vent System Configuration

**CAUTION! Risk of Fire!** 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.

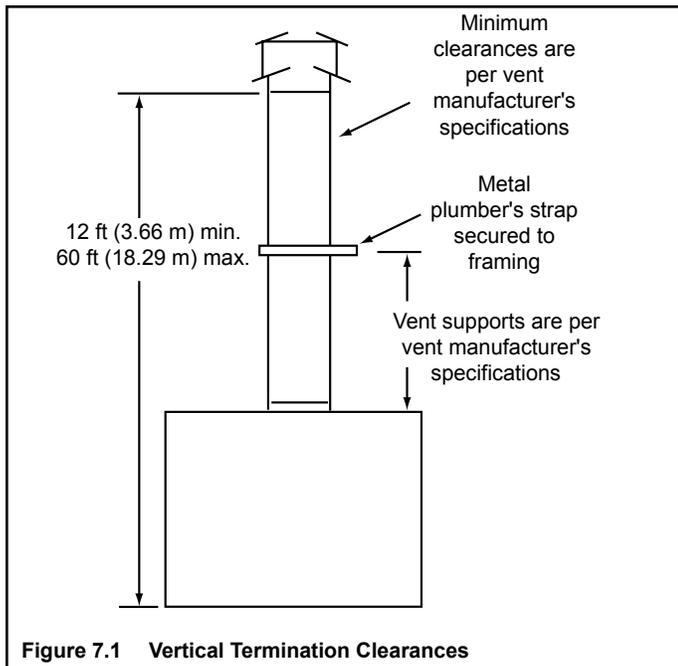
Rise to Run Ratio = 2:1

Maximum Total Horizontal Run = 30 Feet

Minimum Total Vertical Rise = 12 Feet

Maximum Total Vertical Rise = 60 Feet

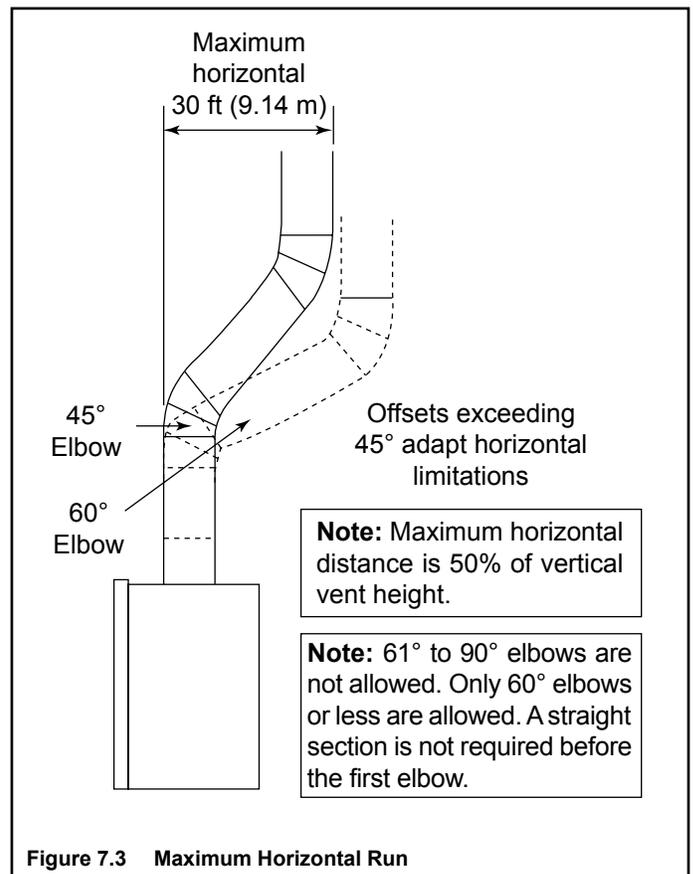
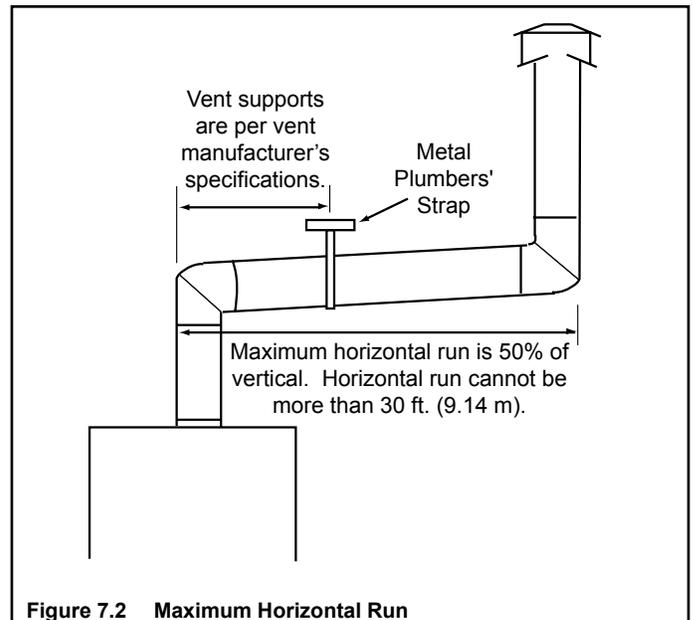
Maximum Number of Elbows: Four 60° or Eight 45°



**WARNING! Risk of Fire or Explosion!** Insulation and other combustibles must not infringe on clearances.

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

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



# 8 Vent Clearances and Framing

---

## A. Pipe Clearances to Combustibles

Vent clearances are per vent manufacturer's specifications. The vent MUST be Listed B-Vent pipe.

**WARNING! Risk of Fire! MAINTAIN AIR space clearance to vent. DO NOT pack insulation or other combustibles:**

- Between ceiling firestops
- Between wall shield firestops
- Around vent system

*Failure to keep insulation or other material away from vent pipe may cause over heating and fire.*

## B. Wall and Ceiling Penetration Framing

For a wall or ceiling penetration consult B-vent pipe manufacturer's instructions to provide adequate clearances. Use same size framing materials as those used in the wall or ceiling construction. Firestop spacers must be used in wall and ceiling penetrations per the B-Vent pipe manufacturer's specifications and national, regional and local codes.

**Note:** MUST terminate vertically.

## C. Vertical Penetration Framing

**WARNING! Fire Risk. DO NOT allow loose materials or insulation to touch vent. Hearth & Home Technologies Inc. requires the use of an attic shield.**

The National Fuel Gas Code ANSI Z223.1 and NFPA 54 requires an attic shield constructed of 26 gauge minimum metal that extends at least 2 in. (51 mm) above insulation.

Attic shields must meet specified clearance and be secured in place.

Use B-vent manufacturer's firestops to provide adequate clearances.

# 9 Appliance Preparation

## A. Install Outside Air Kit Damper Assembly

**CAUTION! Risk of Cuts/Abrasions/Flying Debris.**  
Wear protective gloves and safety glasses during installation. Sheet metal edges are sharp.

**WARNING! Risk of Fire/Asphyxiation. DO NOT** draw outside combustion air from:

- Wall, floor or ceiling cavity.
- Enclosed space such as an attic or garage.
- Close proximity to exhaust vents or chimneys.

Fumes or odor may result.

- The outside air kit can only be installed on the left side of the appliance.
- Refer to the installation instructions provided with the kit.

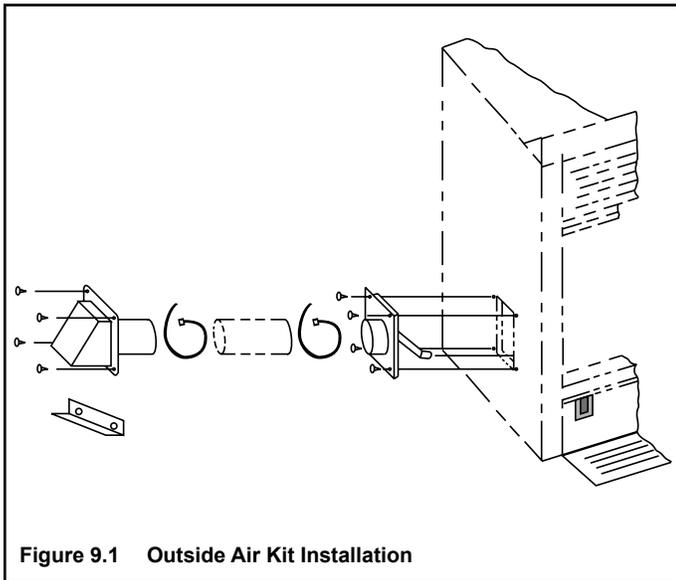


Figure 9.1 Outside Air Kit Installation

## B. Gas and Electrical Connections

If applicable, ensure that gas and electrical connections are installed at this time. Refer to Sections 11 (Gas Information) and 12 (Electrical Information).

## C. Secure and Level the Appliance

**WARNING! Risk of Fire! Prevent contact with:**

- Sagging or loose insulation
- Insulation backing or plastic
- Framing and other combustible materials

Block openings into the chase to prevent entry of blown-in insulation. Make sure insulation and other materials are secured.

**DO NOT** notch the framing around the appliance standoffs.

Failure to maintain air space clearance may cause overheating and fire.

The diagram shows how to properly position, level, and secure the appliance (see Figure 9.2). Nailing tabs are provided to secure the appliance to the framing members.

- Bend out nailing tabs on each side.
- Place the appliance into position.
- Keep nailing tabs flush with the framing.
- Level the appliance from side to side and front to back.
- Shim the appliance as necessary. It is acceptable to use wood shims underneath the appliance.
- Secure the appliance to the framing by using nails or screws through the nailing tabs.
- Secure the appliance to the floor by inserting two screws through the bottom front of the appliance.

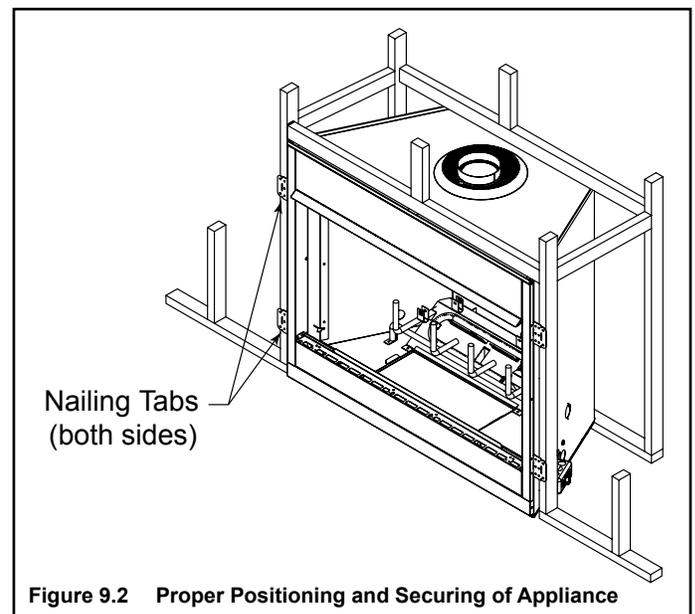


Figure 9.2 Proper Positioning and Securing of Appliance

# 10 Installing Vent Pipe

## A. Assembly of Vent Sections

This B-Vent appliance requires 5 in. B-vent double-wall pipe. Follow the pipe manufacturer's installation guidelines when installing the unit. This will ensure proper operation and prevent safety hazards.

**WARNING! Risk of Fire/Exhaust Fumes!** Assemble pipe sections per B-vent manufacturer's instructions. Use support tabs for screws. Pipe may separate if not properly joined.

## B. Attach Vent to Firebox

Three tabs extend from appliance collar shield. Attach tabs to first section of B-vent pipe using self-tapping 1/4 in. screws supplied with appliance. See Figure 10.1.

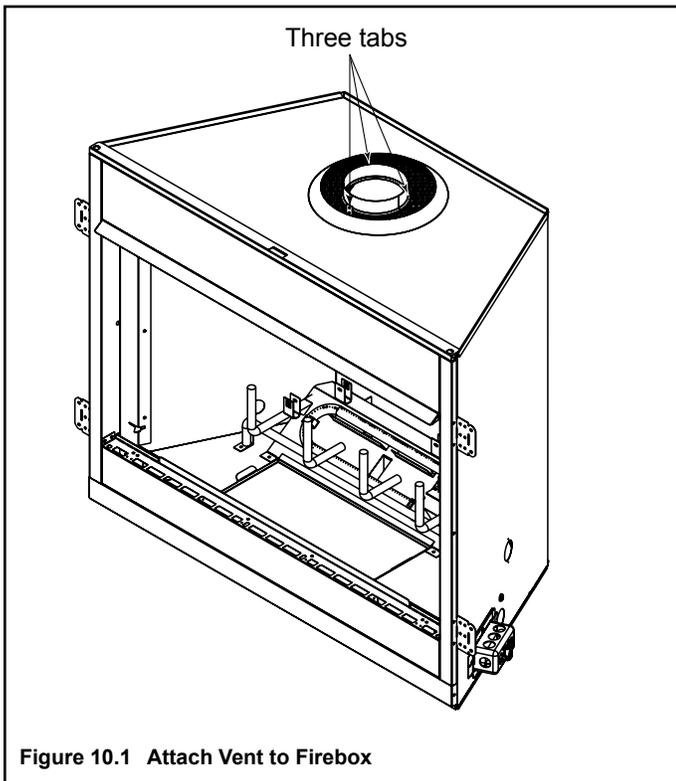


Figure 10.1 Attach Vent to Firebox

## C. Secure Vent Sections

Secure vent sections with vent supports following B-vent manufacturer's instructions.

**WARNING! Risk of Fire or Explosion!** Use vent run supports per vent manufacturer's installation instructions.

- Connect vent sections per vent manufacturer's installation instructions.
- Maintain all clearances to combustibles. Maintain specified slope (if required).
- Improper support may allow vent to sag or separate.

## D. Install Attic Insulation Shield

**WARNING! Fire Risk. DO NOT** allow loose materials or insulation to touch vent. Hearth & Home Technologies Inc. requires the use of an attic shield.

The National Fuel Gas Code ANSI Z223.1 and NFPA 54 requires an attic shield constructed of 26 gauge minimum metal that extends at least 2 in. (51 mm) above insulation.

Attic shields must meet vent manufacturer's specified clearance and be secured in place per vent manufacturer's instructions.

# 11 Gas Information

## A. Fuel Conversion

- Make sure the appliance is compatible with available gas types.
- Conversions must be made by a qualified service technician using Hearth & Home Technologies specified and approved parts.

## B. Gas Pressure

- Optimum appliance performance requires proper input pressures.
- Gas line sizing requirements will be determined in ANSI Z221.3 National Fuel Gas Code in the USA and CAN/CGA B149 in Canada.
- Pressure requirements are:

Gas Pressure	Natural Gas	Propane
Minimum inlet pressure	5.0 in. w.c.	11.0 in. w.c.
Maximum inlet pressure	7.0 in. w.c.	14.0 in. w.c.
Manifold pressure	3.5 in. w.c.	10.0 in. w.c.

**WARNING! Risk of Fire or Explosion!** High pressure will damage valve. Low pressure may cause explosion.

- Verify inlet pressures. Verify minimum pressures when other household gas appliances are operating.
- Install regulator upstream of valve if line pressure is greater than 1/2 psig.

**▲ 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.



**Note:** Have the gas supply line installed in accordance with local 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 in. (13 mm) T-handle manual shut-off valve and flexible gas connector are connected to the 1/2 in. (13 mm) control valve inlet.

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

## C. Gas Connection

- Refer to Reference Section 16.A. for location of gas line access in appliance.
- Gas line may be run through knockout(s) provided.
- 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.
- Ensure that gas line does not come in contact with outer wrap of the appliance. Follow local codes.
- Pipe incoming gas line into valve compartment.
- Connect incoming gas line to the 1/2 in. (13 mm) connection on manual shutoff valve.

**WARNING! Risk of Fire or Explosion!** Support control when attaching pipe to prevent bending gas line.

- A small amount of air will be in the gas supply lines.

**WARNING! Risk of Fire or Explosion!** Gas build-up during line purge could ignite.

- Purge should be performed by qualified service technician.
- Ensure adequate ventilation.
- Ensure there are no ignition sources such as sparks or open flames.

Light the appliance. It will take a short time for air to purge from lines. When purging is complete the appliance will light and operate normally.

**WARNING! Risk of Fire, Explosion or Asphyxiation!**

Check all fittings and connections with a non-corrosive commercially available leak-check solution. **DO NOT** use open flame. Fittings and connections could have loosened during shipping and handling.

**WARNING! Risk of Fire! DO NOT** change valve settings. This valve has been preset at the factory.

## D. High Altitude Installations

**NOTICE:** If the heating value of the gas has been reduced, these rules do not apply. Check with your local gas utility or authorities having jurisdiction.

When installing above 2000 feet elevation:

- In the USA: Reduce burner orifice 4% for each 1000 feet above 2000 feet.
- In CANADA: Reduce burner orifice 10% for elevations between 2000 feet and 4500 feet. Above 4500 feet, consult local gas utility.

# 12 Electrical Information

## A. Wiring Requirements

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

- Wire the appliance junction box to 110-120 VAC. This is required for use of optional accessories (standing pilot ignition) or proper operation of the appliance (Intellifire ignition).
- A 110-120 VAC circuit for this product must be protected with ground-fault circuit-interrupter protection, in compliance with the applicable electrical codes, when it is installed in locations such as in bathrooms or near sinks.
- Low voltage and 110 VAC voltage cannot be shared within the same wall box.

**WARNING! Risk of Shock or Explosion! DO NOT** wire 110V to the valve or to the appliance wall switch. Incorrect wiring will damage controls.

Determine if the appliance uses an Intellifire ignition system or standing pilot ignition system:

- Open the control access panel.
- A red or black ignitor button (as shown in Figure 12.1) indicates this appliance is standing pilot ignition.

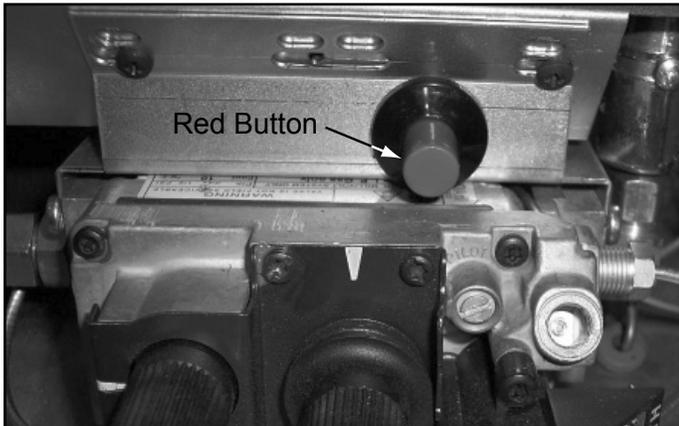


Figure 12.1 Ignitor Button

## B. Standing Pilot Ignition System Wiring

- The standing pilot ignition system wiring does not require a 110 VAC supply to operate.
- A 110 VAC junction box **MUST** be installed for use with a fan or remote control. Keep wire lengths short as possible.

**NOTICE: DO NOT** wire 110 VAC to the millivolt valve! This will damage the valve.

- If using a thermostat use one compatible with a millivolt gas valve system:
  - Install the thermostat in the location as indicated in the 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 as short as possible.

## C. Intellifire Ignition System Wiring

- Wire the appliance junction box to 110 VAC for proper operation of the appliance.

**WARNING! Risk of Shock or Explosion! DO NOT** wire IPI controlled appliance junction box to a switched circuit. Incorrect wiring will override IPI safety lockout.

- Refer to Figure 12.3, Intellifire Pilot Ignition (IPI) Wiring Diagram.
- This appliance is equipped with an Intellifire control valve which operates on a 3 volt system.
- Plug the 3-volt AC transformer into the appliance junction box to supply power to the unit OR install two D cell batteries (not included) into the battery pack before use.

**NOTICE:** Batteries should not be placed in the battery pack while using the transformer. Remove batteries before using the transformer, and unplug the transformer before installing the batteries. Battery polarity must be correct or module damage will occur.

## D. Optional Accessories Requirements

- This appliance may be used with a wall switch, wall mounted thermostat and/or a remote control.
- Wiring for optional Hearth & Home Technologies approved accessories should be done now to avoid reconstruction. Follow instructions that come with those accessories.

## E. Electrical Service and Repair

**WARNING! Risk of Shock!** Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

**WARNING! Risk of Shock!** Replace damaged wire with type 105° C rated wire. Wire must have high temperature insulation.

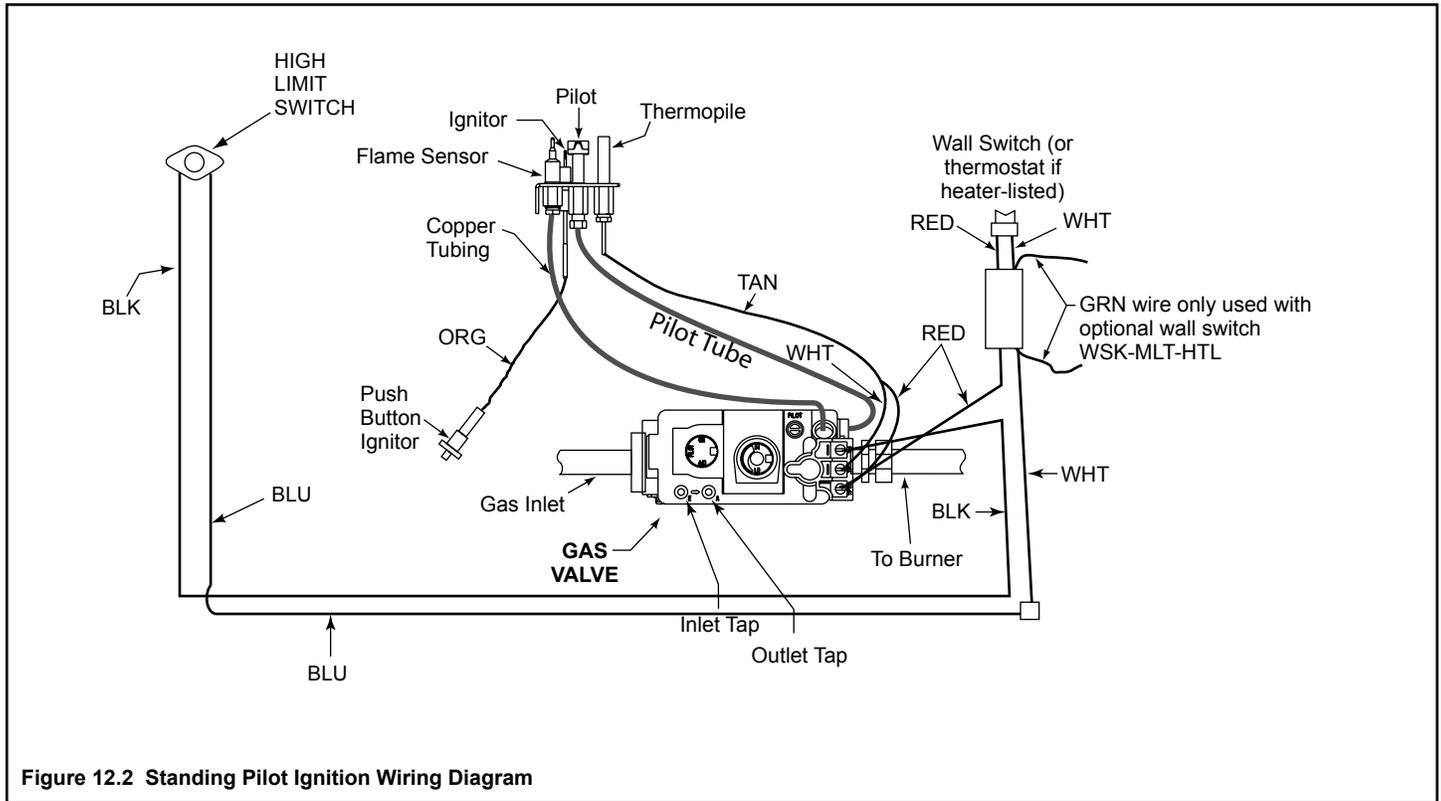
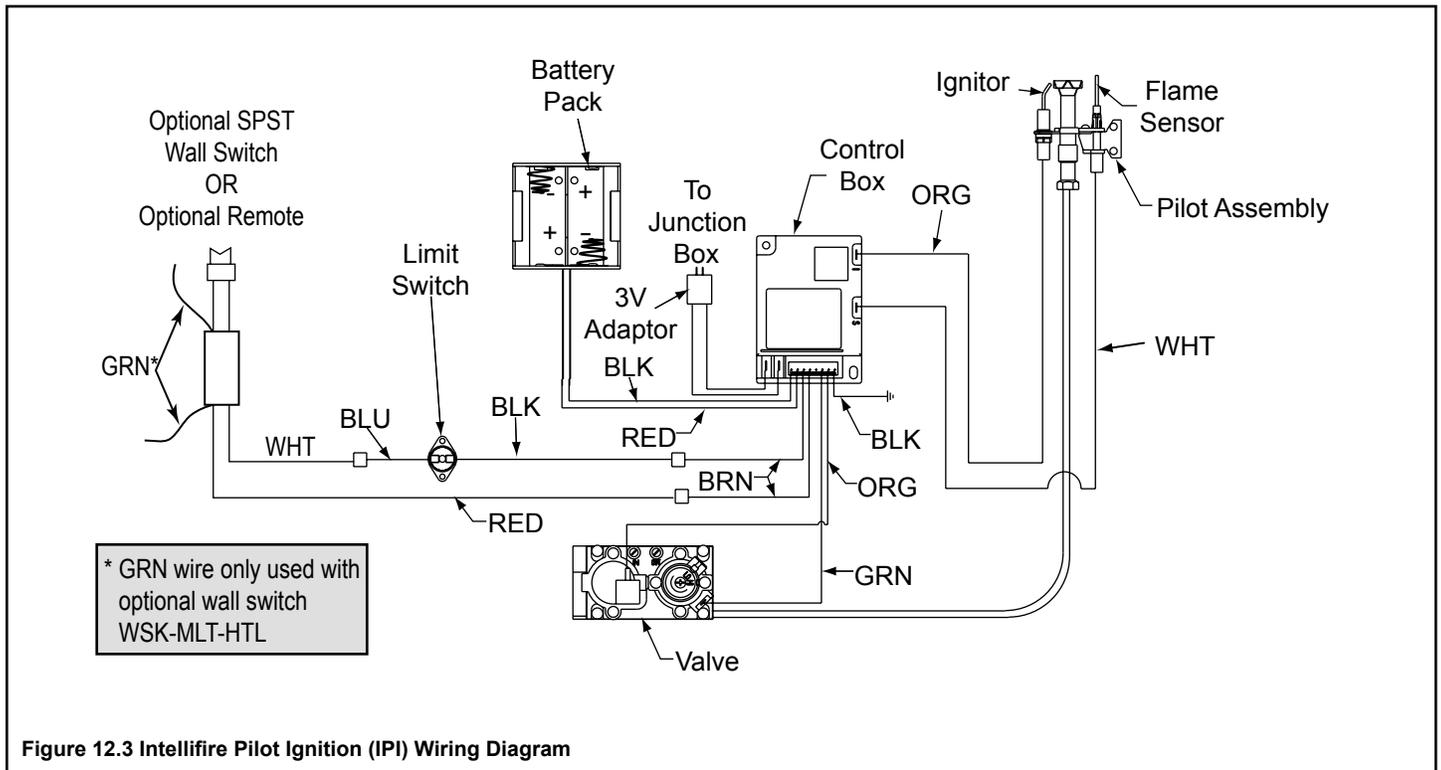


Figure 12.2 Standing Pilot Ignition Wiring Diagram



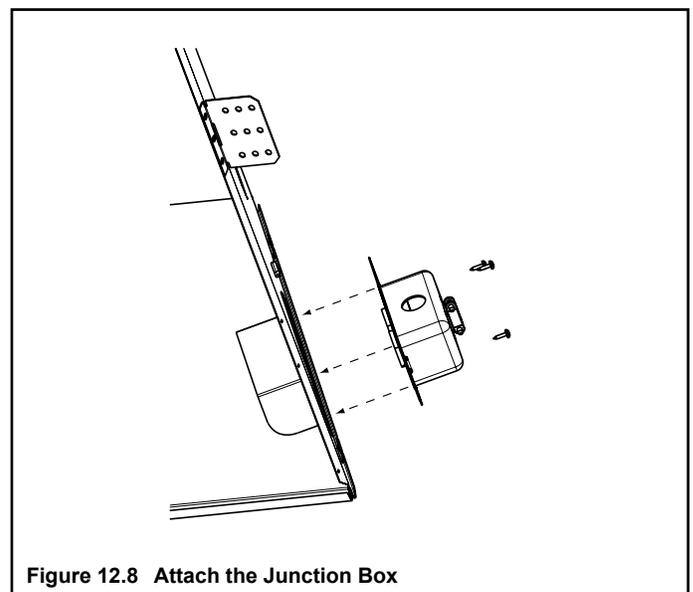
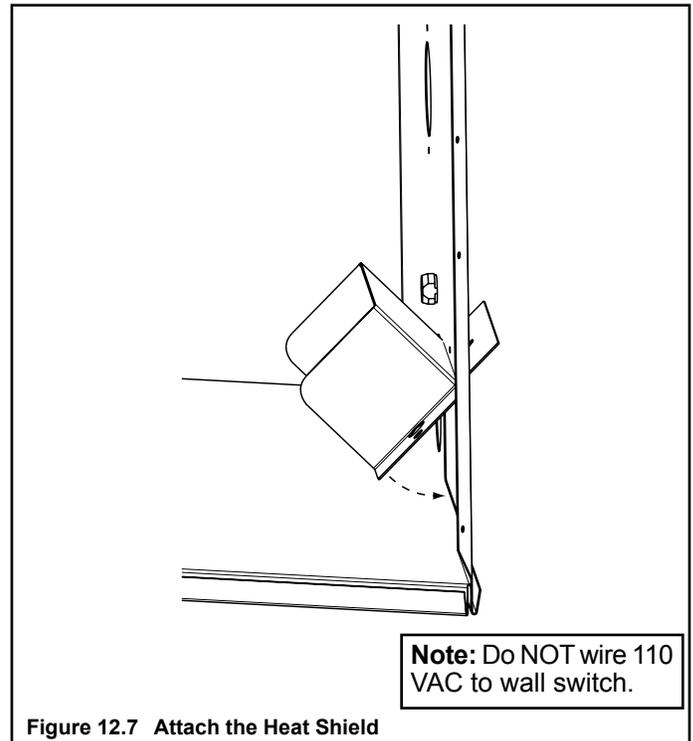
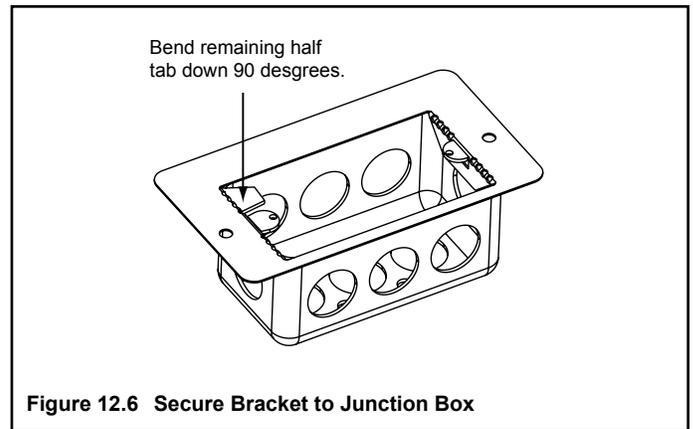
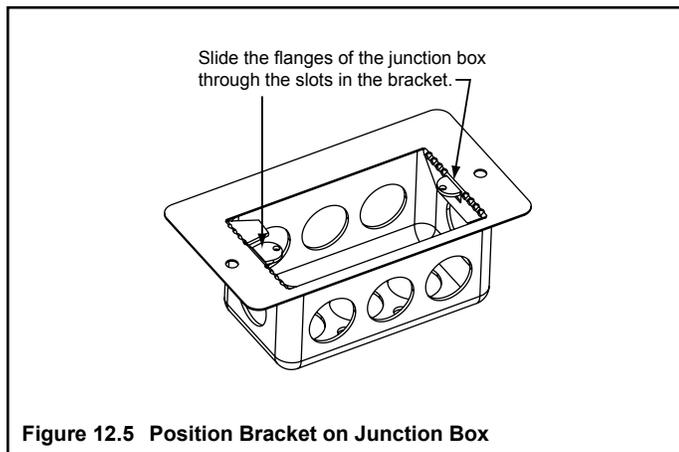
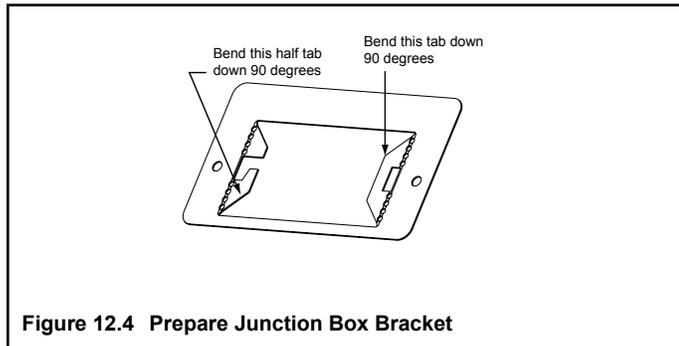
\* GRN wire only used with optional wall switch WSK-MLT-HTL

Figure 12.3 Intellifire Pilot Ignition (IPI) Wiring Diagram

## F. Junction Box Installation

Your appliance is supplied with a Junction Box Kit. To operate the appliance with the supplied 3VAC transformer and/or remote control option, it is recommended that the junction box be installed and wired at this time to avoid reconstruction.

- The Junction Box Kit is to be installed on the right side of the appliance; remove and discard the metal knockout.
- Attach the junction box bracket to the junction box as shown in Figures 12.4-12.6.
- Bring the electrical wires to the inside of the junction box and secure in place with the Romex connector.
- Install the duplex receptacle in the junction box and attach the cover plate.
- Prior to attaching the junction box to the appliance, the heat shield supplied with your appliance must be installed. Insert the top flange of the heat shield through the electrical knockout hole from the inside (Figure 12.7).
- Attach the junction box bracket to the side of the appliance. See Figure 12.8. Secure with the screws provided in the fastener package.
- Install the fan kit (if desired). See instructions supplied with the kit for details.
- Wire the junction box per the diagram in Figure 12.2.

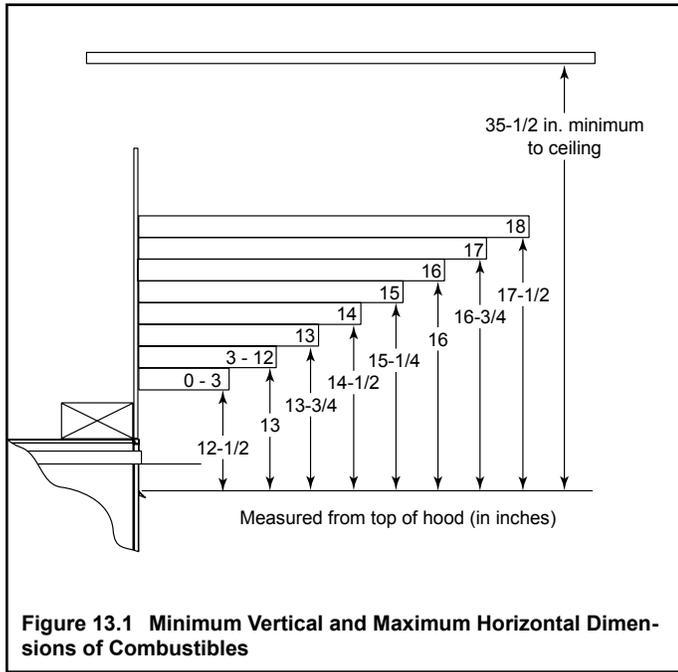


# 13 Finishing

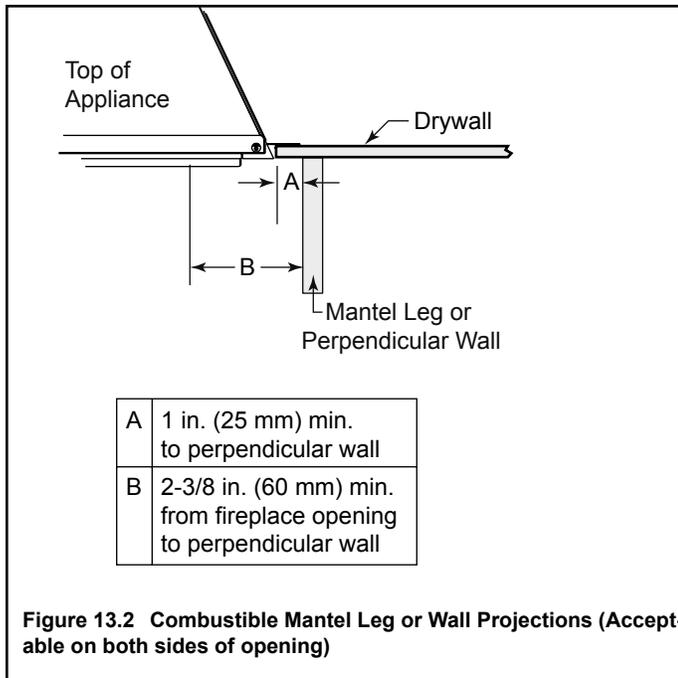
## A. Mantel and Wall Projections

**WARNING! Risk of Fire!** Comply with all minimum clearances as specified. Framing closer than the minimums listed must be constructed entirely of noncombustible materials (i.e., steel studs, concrete board, etc.) Failure to comply could cause fire.

### Mantels



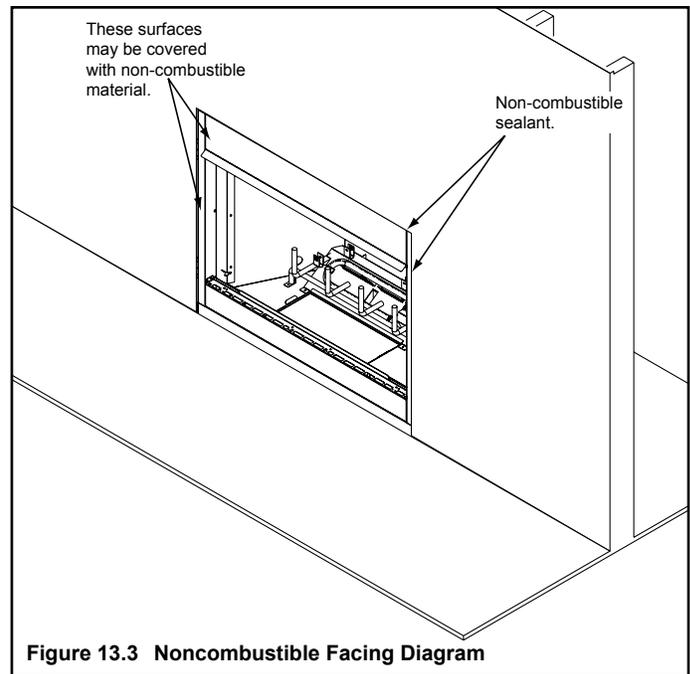
### Mantel Legs or Wall Projections



## B. Facing Material

- Metal front faces may be covered with non-combustible materials only.
- Facing and/or finishing materials must not interfere with air flow through louvers, operation of louvers or doors, or access for service.
- Facing and/or finishing materials must never overhang into the glass opening.
- Observe all clearances when applying combustible materials.
- Seal joints between the finished wall and appliance top and sides using a 300 °F minimum sealant. Refer to Figure 13.3.

**WARNING! Risk of Fire! DO NOT** apply combustible materials beyond the minimum clearances. Comply with all minimum clearances to combustibles as specified in this manual. Overlapping materials could ignite and will interfere with proper operation of doors and louvers.



# 14 Appliance Setup

## A. Remove the Shipping Materials

Remove shipping materials from inside or underneath the firebox.

## B. Place the Control Access Panel

- Remove the control access panel from its shipping location (Figure 14.1) by removing two screws holding it in place.
- Replace the two screws.
- Place the panel (painted side up, angle flange to the back) into the compartment opening. See Figure 14.2.



Figure 14.1 Control Access Panel Shipping Location

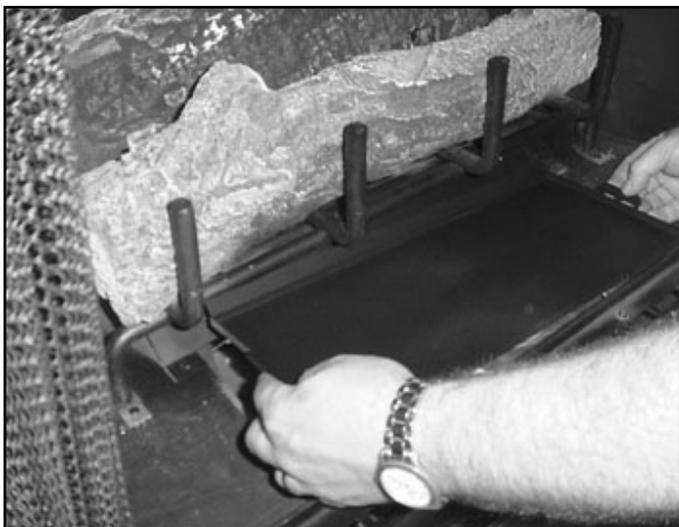


Figure 14.2 Control Access Panel Installation/Removal

## C. Clean the Appliance

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

## D. Accessories

Install approved accessories per instructions included with accessories. Refer to Section 16.

## E. Install the Refractory

The refractory is an optional component. Refer to the installation instructions included with the refractory.

## F. Place the Lava Rock

- Place lava rock on top of control access panel in front of, under and around the burner. See Figure 14.3.



Figure 14.3 Placing the Lava Rock

## G. Place the Vermiculite

- Sprinkle vermiculite evenly over the areas covered by lava rock. See Figure 14.4.



Figure 14.4 Placing the Vermiculite

## H. Place the Rockwool

**WARNING! Risk of Explosion!** Follow rockwool placement instructions. **DO NOT** place rockwool directly over burner ports. Replace rockwool material annually. Improperly placed rockwool interferes with proper burner operation.

- Rockwool is shipped with this gas appliance.
- Place 1/2 in. (13 mm) diameter pieces of rockwool under front log, on lower portion of burner tube.
- Place rockwool the full length of the burner.
- Do not pack tightly against the burner.

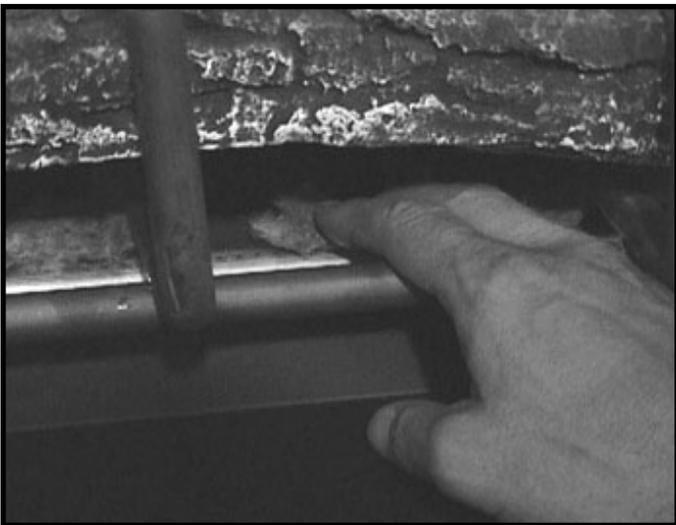


Figure 14.5 Placing the Rockwool

## I. Log Removal/Replacement

- Remove the lava rock from the appliance and save.
- Remove the top log which sits in the indents in the front log.
- Remove the two screws holding the front grate/log assembly in place (one per side from the hearth pan). See Figure 14.6.
- Pull forward on the assembly to remove it from the appliance and set aside. See Figure 14.7.
- Remove the two screws holding the back log in place. Carefully lift off and set aside. See Figure 14.8.
- Reverse the order of the steps above to reinstall the logs.



Figure 14.6 Remove Two Screws Holding Front Grate/Log Assy.



Figure 14.7 Remove Grate/Log Assy.

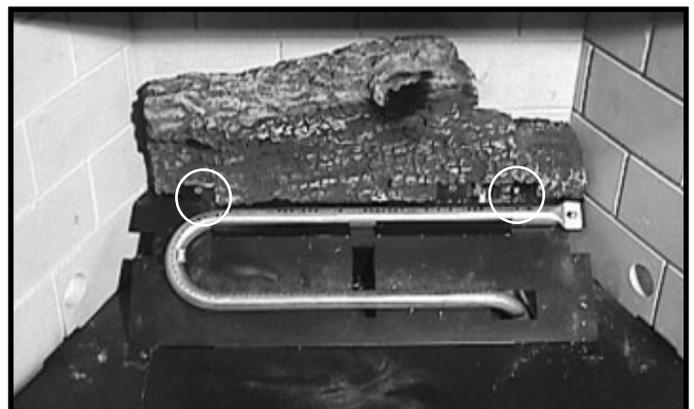
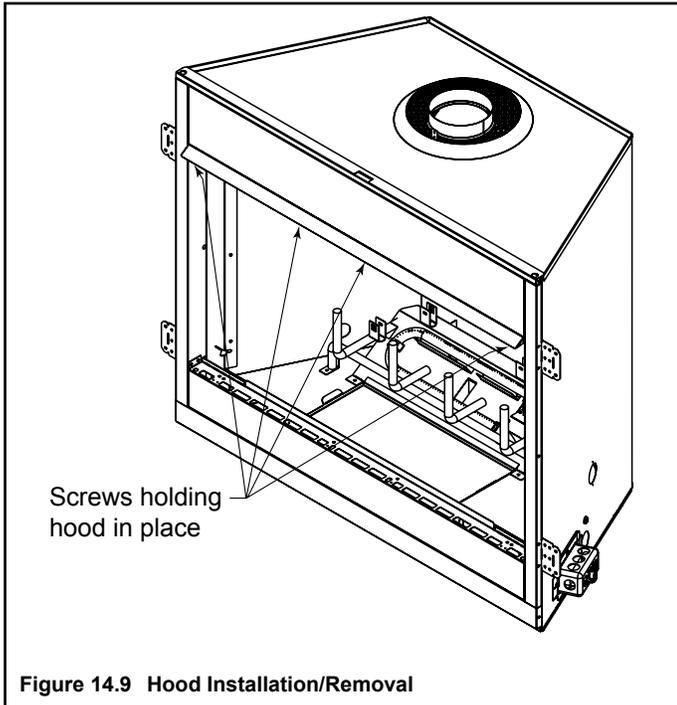


Figure 14.8 Remove Screws Holding Back Log

## J. Hood

The hood is located above the fireplace opening. The hood must be attached or a fire hazard may result. See Figure 14.9 to locate four screws holding the hood in place.



## K. Air Shutter Setting

The air shutter is provided in the closed position for natural gas and 1/8 in. open for propane. See Figure 14.10 for location of air shutter.

- Loosen the set screw.
- Rotate the air shutter to the right to open.
- Rotate the air shutter to the left to close.
- Tighten the set screw.

**NOTICE:** If sooting occurs, provide more air by opening the air shutter.

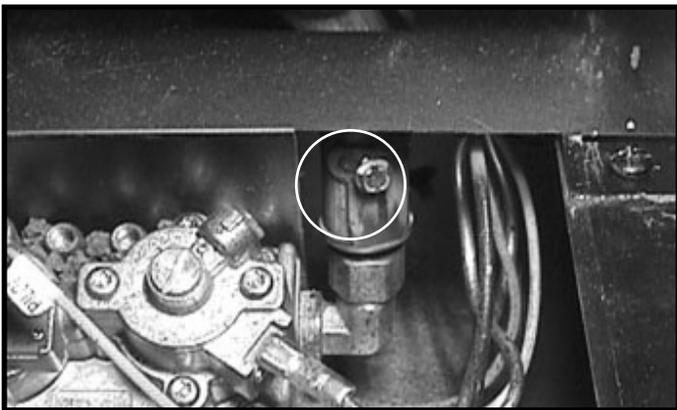


Figure 14.10 Air Shutter Location

# 15 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 technician 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. Contact your dealer to arrange a service call by a qualified service technician.

## A. Standing Pilot Ignition System

Symptom	Possible Causes	Corrective Action
1. After repeated triggering of the red or black piezo ignitor button, the spark ignitor will not light the pilot. Check for spark.	A. No gas or low gas pressure.	Check the remote shut-off valves from the appliance. Usually, there is a valve near the gas main. There can be more than one valve between the appliance and the main.
	B. No LP in tank.	Check the LP (propane) tank. You may be out of fuel.
	C. Ignitor.	Check the spark at the electrode and pilot. If no spark and electrode wire is properly connected, replace the ignitor. Verify that there is no short in electrode wire.
	D. Pilot or misaligned electrode (spark at electrode).	Using match, light the pilot. If the pilot lights, turn off the pilot and trigger the piezo ignitor button again. If the pilot lights, an improper gas/air mixture caused the bad lighting and a longer purge period is recommended. If the pilot will not light, ensure the gap at the electrode and pilot is one-eighth inch to have a strong spark. If the gap is OK, replace the pilot.
2. The pilot will not stay lit after carefully following the lighting instructions.	A. Thermocouple.	Check that the pilot flame impinges on the thermocouple. Adjust the pilot for proper flame impingement.  Ensure that the thermocouple connection at the gas valve is fully inserted and tight (hand tighten plus 1/4 turn).  Verify proper voltage output from the thermocouple to the valve. Place one millivolt meter lead wire on the thermocouple copper lead. Place the second lead wire on the solder button on the back of the valve (blue wire). Start the pilot and hold the valve knob in. The millivolt reading should read 8-16 millivolts. If millivolt reading is less than 8 millivolts, replace thermocouple.
	B. Improper gas inlet pressure.	Natural gas should be 5-7 in. w.c. LP should be 11-14 in. w.c. Verify pressure with manometer.
	C. Valve.	If the thermocouple is producing 8-16 millivolts, replace control valve.
3. The pilot is burning, there is no burner flame, the valve knob is in the ON position, and the ON/OFF switch is in the ON position.	A. On/off switch or wires defective.	Check the ON/OFF switch and wires for proper connections. Place the jumper wires across the terminals at the ON/OFF switch. If the burner comes on, replace the ON/OFF switch. If the switch is OK, place the jumper wires across the ON/OFF switch wires at the gas valve. If the burner comes on, the wires are faulty or connections are bad.
	B. Thermopile may not be generating sufficient millivoltage.	Check that the pilot flame impinges thermopile properly.  Be sure the wire connections from the thermopile at the gas valve terminals are tight and that the thermopile is fully inserted into the pilot bracket.  Check the thermopile with a millivolt meter. Take the reading at TH-TP&TP terminals of the gas valve. The meter should read 350 millivolts minimum, while holding the valve knob depressed in the pilot position, with the pilot lit, and the ON/OFF switch in the OFF position. Replace the thermopile if the reading is below the specified minimum.  With the pilot in the ON position, disconnect the thermopile leads from the valve. Take a reading at the thermopile leads. The reading should be 350 millivolts minimum. Replace the thermopile if the reading is below the minimum.

## A. Standing Pilot Ignition System *(continued)*

3. <i>(continued)</i>	C. Valve.	Turn the valve knob to the ON position. Place the ON/OFF switch in the ON position. Check the millivolt meter at the thermopile terminals. The millivolt meter should read greater than 125mV. If the reading is acceptable, and if the burner does not come on, replace the gas valve.
	D. Plugged burner orifice.	Check the burner orifice for stoppage. Remove stoppage.
	E. Wall switch or wires.	Check the wall switch and wires for proper connections. Place the jumper wires across the terminals at the wall switch. If the burner comes on, replace the wall switch. If the wall switch is OK, place the jumper wires across the wall switch wires at the gas valve. If the burner comes on, the wires are faulty or connections are bad.
4. Frequent pilot outage problem.	A. Pilot flame may be too high or too low, or blowing out (high pressure), causing pilot safety to drop out.	Clean thermocouple and adjust the pilot flame for proper flame impingement. Follow lighting instructions carefully.
5. The pilot and main burner extinguish while in operation.	A. No LP in tank.	Check the LP (propane) tank. Refill the fuel tank.
	B. Improper gas inlet pressure.	Verify with manometer. NG should read 5-14 inches w.c. LP should read 10-14 inches w.c.
	C. Inner vent pipe leaking exhaust gases back into the system.	Check venting system for damage. Replace/repair improperly assembled pipe sections.
	D. Glass installed improperly.	Check to ensure glass is installed properly. Replace glass panel assembly.
	E. Thermopile or thermocouple.	Replace pilot if necessary.
	F. Improper vent cap installation.	Check for proper installation and freedom from debris or blockage.
	G. High limit switch has been automatically activated.	This appliance is equipped with an auto reset high limit switch which will shut down the appliance if it spills under flue blockage or excessive negative pressure conditions. Shut off the appliance and the gas supply. Do not attempt to operate the appliance until it has been examined by a qualified service technician.
6. Glass soots.	A. Flame impingement.	Adjust the log set so that the flame does not excessively impinge on it. Refer to log instructions.
	B. Improper air shutter setting.	Refer to manual for shutter set points. Ensure that set point is correct for appliance/gas type. If unit has adjustable shutter, it may be necessary to increase shutter opening.
	C. Debris around air shutter.	Inspect the opening at the base of the burner. <b>NO MATERIAL SHOULD BE PLACED IN THIS OPENING.</b>
7. Flame burns blue and lifts off burner.	A. Insufficient oxygen being supplied.	Ensure that the vent cap is installed properly and free of debris. Ensure that the vent system joints are tight and have no leaks.  Ensure that no debris has been placed at the base of, or in the area of the air holes in the center of the base pan beneath the burner.  Ensure that the glass is tightened properly on the unit, particularly on top corners.

## B. Intellifire Ignition System

Symptom	Possible Cause	Corrective Action
1. Pilot won't light. 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.
	B. Loose connections or electrical shorts in the wiring.	Verify no loose connections or electrical shorts in wiring from module to pilot assembly. 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 ignitor to right side of pilot hood. The gap should be approximately .17 inch or 1/8 in. (3 mm).
	D. Module.	Turn ON/OFF rocker switch or wall switch to OFF position. Remove ignitor wire "I" from module. Place a grounded wire about 3/16 in. (5 mm) away from "I" terminal on module. Place ON/OFF rocker switch or wall switch in ON position. 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. Replace pilot if necessary.
2. Pilot won't light, there is no noise or spark.	A. No power or transformer installed incorrectly.	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. Replace any damaged components.
	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. 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. 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 sparks, but Pilot will not light.	A. 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 incorrect.	Verify that spark gap from ignitor to pilot hood is .17 in. or 1/8 in (3 mm).
	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.

## B. Intellifire Ignition System *(continued)*

4. 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 flame sensing 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.
	B. Poor flame rectification or contaminated flame sensing rod.	With fixed glass assembly in place, verify that flame is engulfing flame sensing rod on left side of pilot hood. Flame sensing rod should glow shortly after ignition. Verify correct pilot orifice is installed and gas inlet is set to pressure specifications. Clean flame sensing rod with emery cloth to remove any contaminants that may have accumulated on flame sensing rod.
	C. Module is not grounded.	Verify module is securely grounded to metal chassis of appliance. Verify that wire harness is firmly connected to the module.
	D. Damaged pilot assembly or contaminated flame sensing rod.	Verify that ceramic insulator around the flame sensing rod is not cracked, damaged, or loose. Verify connection from flame sensing rod to white sensor wire. Clean flame sensing rod with emery cloth to remove any contaminants that may have accumulated on flame sensing rod. Verify continuity with a multimeter with ohms set at lowest range. Replace pilot if any damage is detected.
	E. 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. If there is no spark at "I" terminal module must be replaced. If there is a spark at "I" terminal, module is fine.
5. The pilot and main burner extinguish while in operation.	A. No LP in tank.	Check the LP (propane) tank. Refill the fuel tank.
	B. Improper gas inlet pressure.	Verify with manometer. NG should read 5-14 inches w.c. LP should read 10-14 inches w.c.
	C. Inner vent pipe leaking exhaust gases back into the system.	Check venting system for damage. Replace/repair improperly assembled pipe sections.
	D. Glass installed improperly.	Check to ensure glass is installed properly. Replace glass panel assembly.
	E. Improper vent cap installation.	Check for proper installation and freedom from debris or blockage.
	F. High limit switch has been automatically activated.	This appliance is equipped with an auto reset high limit switch which will shut down the appliance if it spills under flue blockage or excessive negative pressure conditions. Shut off the appliance and the gas supply. Do not attempt to operate the appliance until it has been examined by a qualified service technician.

# 16 Reference Materials

## A. Appliance Dimension Diagram

Dimensions are actual appliance dimensions. Use for reference only. For framing dimensions and clearances refer to Section 5.

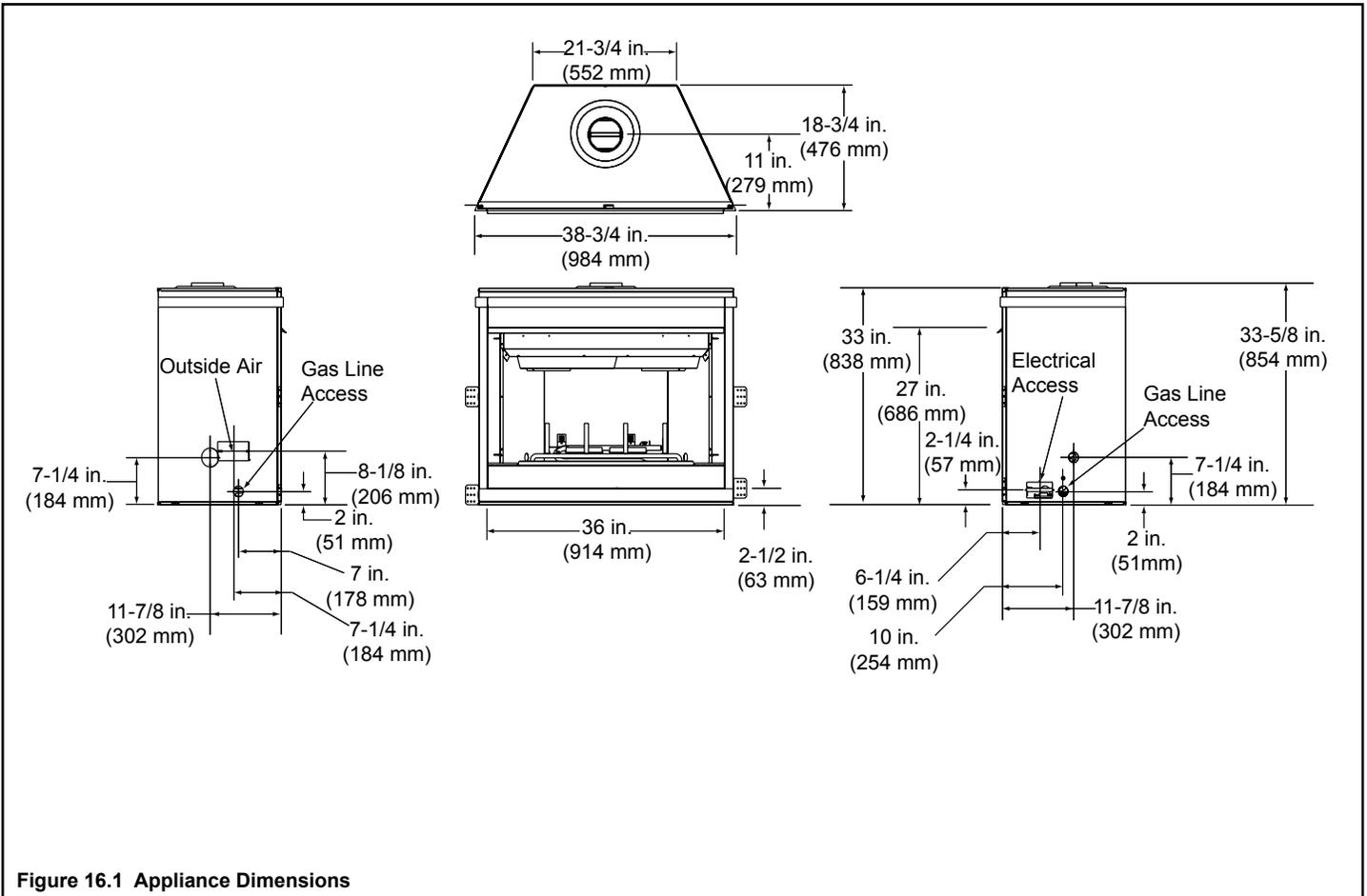


Figure 16.1 Appliance Dimensions

# B. Service Parts List

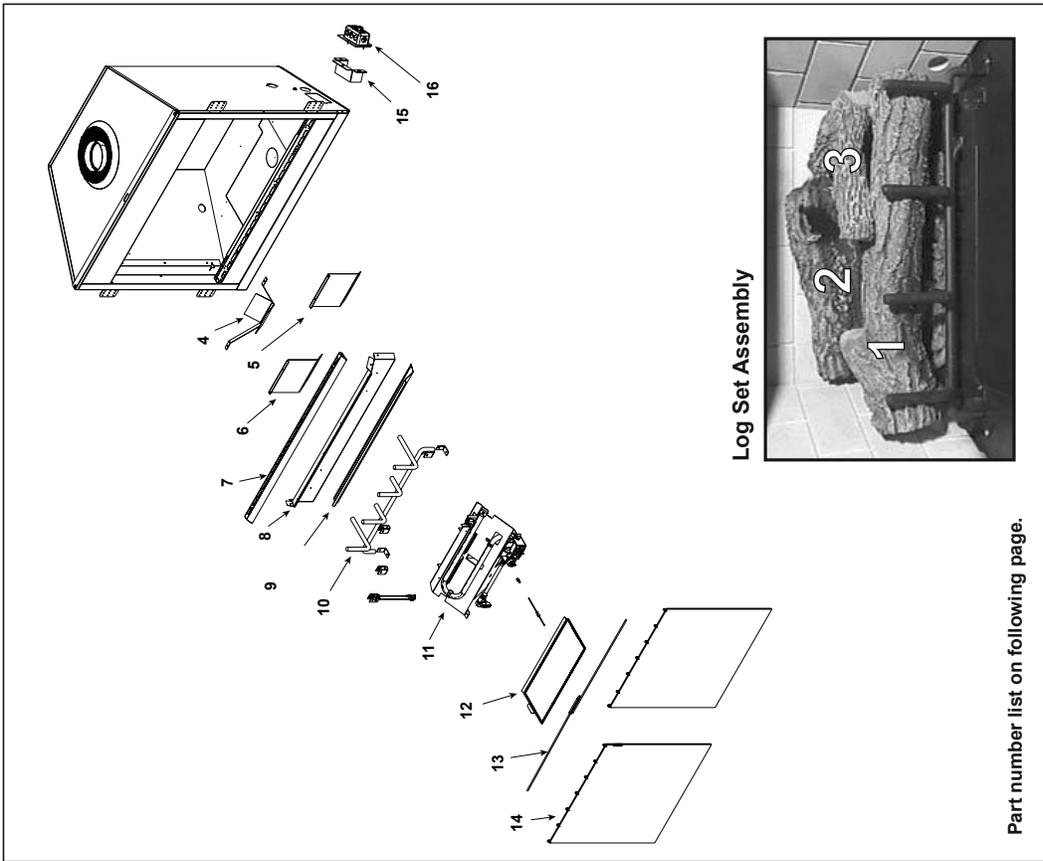
**IMPORTANT: THIS IS DATED INFORMATION.** When requesting service or replacement parts for your appliance please provide model number and serial number. All parts listed in this manual may be ordered from an authorized dealer.



ITEM	DESCRIPTION	COMMENTS	PART NUMBER	Stocked at Depot
	Log Assembly	Pre wk 14/04	34945	X
		Post wk 14/04	4008-017	X
1	Front Log	Pre wk 14/04	34946	
		Post wk 14/04	4008-018	
2	Back Log	Pre wk 14/04	34947	
		Post wk 14/04	4008-019	
3	Top Log		34948	
4	Flue Baffle Assembly		34856	
5	Baffle - Right		35229	
6	Baffle - Left		35228	
7	Hood/Door Track		34635	
8	Smoke Shield		25690	
9	Smoke Shield Extension		35223	
10	Grate Assembly	Pre wk 14/04	34865	
		Post wk 14/04	4008-011	
		Pre wk 14/04	4008-002	
		Between wk 14/04 and wk 25/05	4008-012	
11	Valve Assembly - SP	Between wk 25/05 and SN GA1551065	4008-024	
		Post SN GA1551065	4008-028	
12	Cover	Post wk 26/03	33397	
		Pre wk 14/04	4008-015	X
13	Screen Rod	<b>Qty. 2 required</b>	4008-020	X
14	Firescreen Assembly (standard & shipped with unit)		28395	
15	Junction Box Heat Shield		JK9	X
16	Junction Box Kit			
	Junction Box Cover Plate		26548	
	Nailing Flange	<b>Qty. 4 required</b>	31190	
	Top & Bottom Face	<b>Qty. 2 required</b>	34891	
	Touch Up Paint		71749	

Additional service part numbers appear on following page.

09/08



Part number list on following page.

09/08

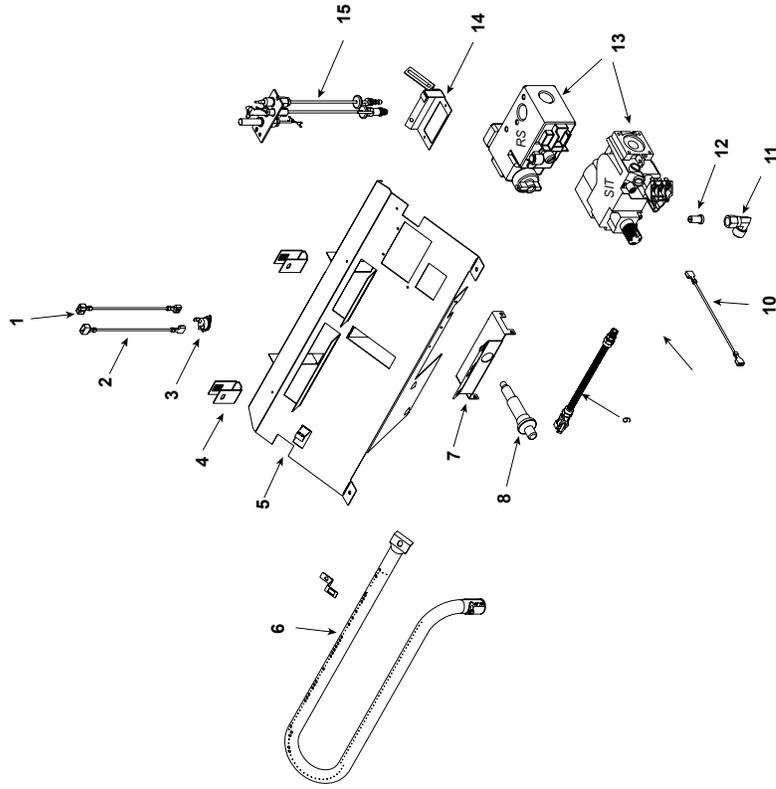
# B. Service Parts List (continued)

IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number. All parts listed in this manual may be ordered from an authorized dealer.

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	Stocked at Depot
1	Wire Assembly - HIBIK60FM		34869	X
2	Wire Assembly - HIBLU60FM		4008-036	X
3	Limit Switch w/Auto Reset	Pre GA1551065	34816	X
		Post GA1551065	4021-383	X
4	Log Retainer Brackets	Post wk 03/04	4031-223	
		Pre Week 13/04	4008-003	
5	Valve Plate	Week 13/04 Thru Week 25/05	4008-014	
		Week 25/05 Thru SN# GA1661065	4008-026	
		Post GA1551065	4008-031	
6	Burner Tube		34032	
7	Valve Bracket	Pre GA1551065	4008-004	
		Post GA1551065	4008-030	
8	Push Button Ignitor		291-513	X
9	Flex Ball Valve Assembly		302-320A	X
10	Wire Assy HIBIK6FF		26360	X
11	Brass Elbow		17524	
12	Orifice (.089) - NG		14046	X
13	Valve w/T/C NG (RS)	Pre GA1551065	23363	X
		Post GA1551065	30494	X
14	Pilot Bracket	Pre GA1551065	4008-023	
		Post GA1551065	4008-032	
15	Pilot Assembly	Pre GA1551065	485-510A	X
		Post GA1551065	2103-010	X
	Install Assembly		4008-009	
	Installation Instructions		4008-006	
	JK9 Installation Instructions		31166	
	Wool, Rock, Vermiculite		4040-094	
	Lava Rock (3 lb. Bag)		4021-297	
	Mineral Wool		14333B	
	Vermiculite		28746	
	Conversion Kit - LP to NG	Pre GA1551065	CKN	X
		Post GA1551065	SCKN-B	X
	Conversion Kit - NG to LP	Pre GA1551065	CKP	X
		Post GA1551065	SCKP-B	X

09/08

Standing Pilot Valve Assembly



09/08

# B. Service Parts List (continued)

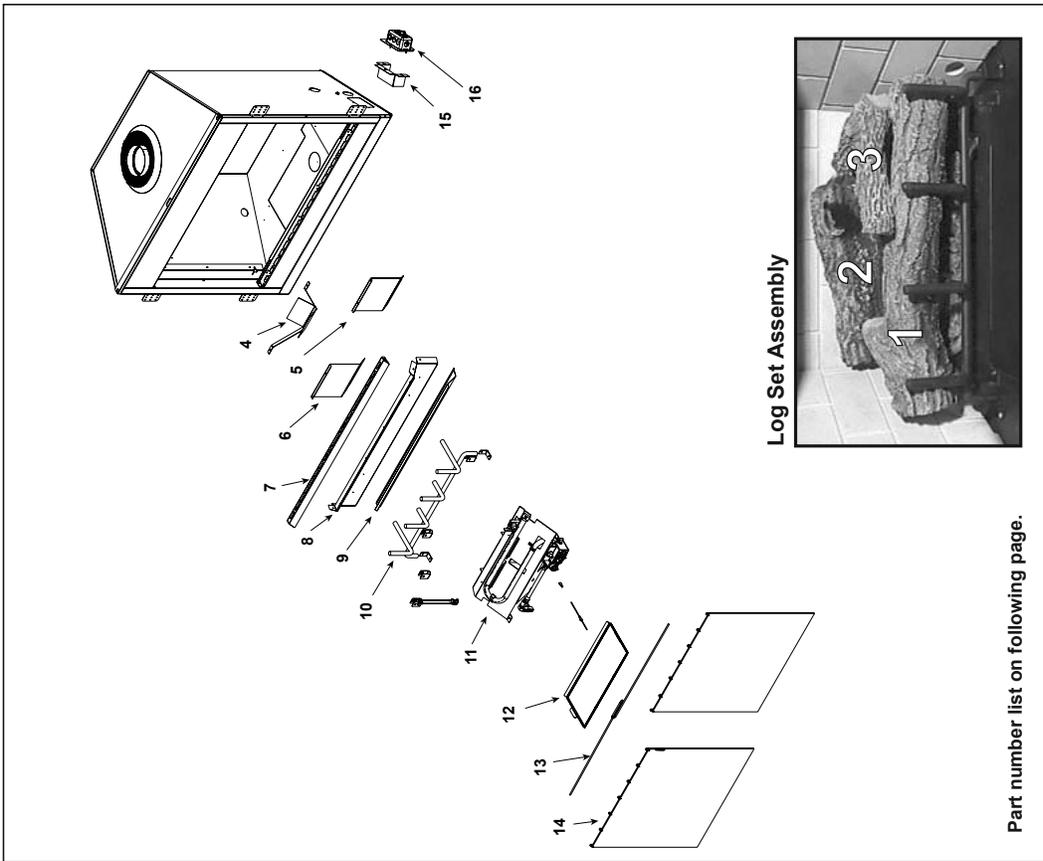
IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number. All parts listed in this manual may be ordered from an authorized dealer.



ITEM	DESCRIPTION	COMMENTS	PART NUMBER	Stocked at Depot
	Log Assembly	Pre wk 14/04	34945	X
		Post wk 14/04	4008-017	X
1	Front Log	Pre wk 14/04	34946	
		Post wk 14/04	4008-018	
2	Back Log	Pre wk 14/04	34947	
		Post wk 14/04	4008-019	
3	Top Log		34948	
4	Flue Baffle Assembly		34856	
5	Baffle - Right		35229	
6	Baffle - Left		35228	
7	Hood/Door Track		34635	
8	Smoke Shield		25690	
9	Smoke Shield Extension		35223	
10	Grate Assembly	Pre wk 14/04	34865	
		Post wk 14/04	4008-011	
		Pre wk 14/04	4008-005	
11	Valve Assembly - IPI	Between wk 14/04 and wk 25/05	4008-013	
		Between wk 25/05 and SN GA1551065	4008-025	
		Post SN GA1551065	4008-029	
12	Cover	Post wk 26/03	33397	
		Pre wk 14/04	4008-015	
13	Screen Rod		23305	X
14	Firescreen Assembly (standard & shipped with unit)	Qty. 2 required	4008-020	X
15	Junction Box Heat Shield		28395	
16	Junction Box Kit		JK9	X
	Junction Box Cover Plate		26548	
	Nailing Flange	Qty. 4 required	31190	
	Top & Bottom Face	Qty. 2 required	34891	
	Touch Up Paint		71749	

Additional service part numbers appear on following page.

09/08



Part number list on following page.

09/08

# B. Service Parts List (continued)

**BCBV361**

**Service Parts**  
HEARTH & HOME technologies  
Service Parts List  
Builders Choice

Beginning Manufacturing Date: June 2003  
Ending Manufacturing Date: Active

**IMPORTANT:** THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number. All parts listed in this manual may be ordered from an authorized dealer.



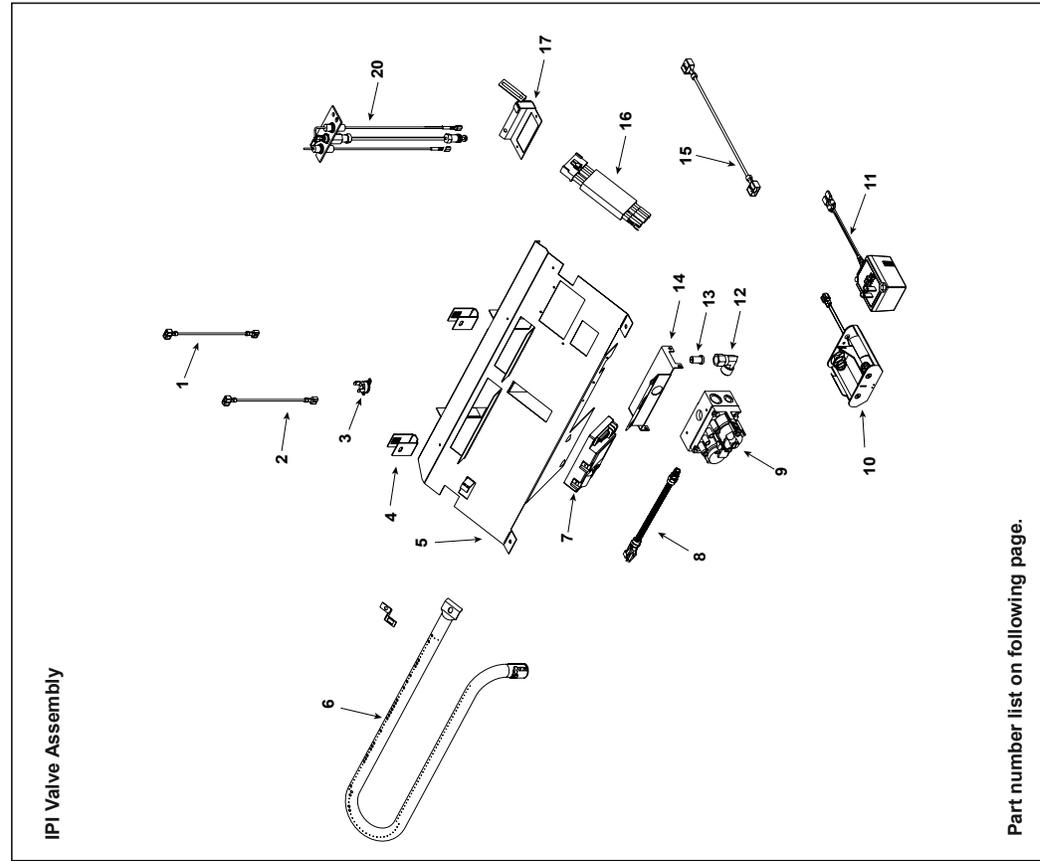
ITEM	DESCRIPTION	COMMENTS	PART NUMBER	Stocked at Depot
1	Wire Assembly - HIBlk60FM		4018-019	X
2	Wire Assembly - HIBlu60FM		34937	X
3	Limit Switch w/Auto Reset	Pre GA1551065	34816	X
4	Log Retainer Brackets Qty 2 required	Post GA1551065	4021-383	X
		Post wk 03/04	4031-223	
		Pre Week 13/04	4008-003	
		Week 13/04 Thru Week 25/05	4008-014	
5	Valve Plate	Week 25/05 Thru SN# GA1661065	4008-026	
		Post GA1551065	4008-031	
			34032	
6	Burner Tube		593-592	X
7	Control Module		302-320A	X
8	Flex Ball Valve Assembly		593-500	X
9	Valve		593-594A	X
10	Battery Pack		593-593A	X
11	3V Adapter Plug		17524	X
12	Brass Elbow		14046	X
13	Orifice (.089) - NG		4008-004	
14	Valve Bracket	Pre GA1551065	4008-030	
15	Wire Assembly - HIBlk8MM	Post GA1551065	35031	X
			593-590A	X
16	Wire Assembly	Pre GA1551065	4008-023	
		Post GA1551065	4008-032	
17	Pilot Bracket	Pre GA1551065	4021-025	X
18	Pilot Assembly	Post GA1551065	2090-012	X
	Install Assembly		4008-021	
	Installation Instructions		4008-006	
	JK9 Installation Instructions		31166	
	Wool, Rock, Vermiculite		4040-094	
	Lava Rock (3 lb. Bag)		4021-297	
	Mineral Wool		14333B	
	Vermiculite		28746	
	Wall Switch Wire Assembly		4018-018	X
	Conversion Kit - LP to NG		DCKN	X
	Conversion Kit - NG to LP		DCKP	X

09/08

**BCBV361**

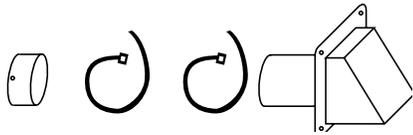
**Service Parts**  
HEARTH & HOME technologies  
Service Parts List  
Builders Choice

Beginning Manufacturing Date: June 2003  
Ending Manufacturing Date: Active

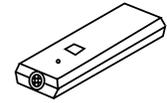
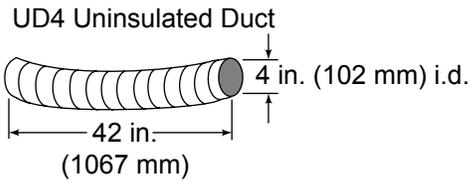
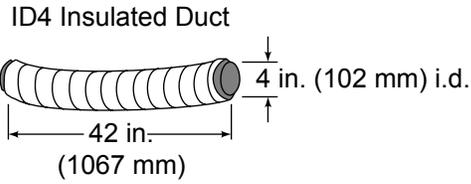


09/08

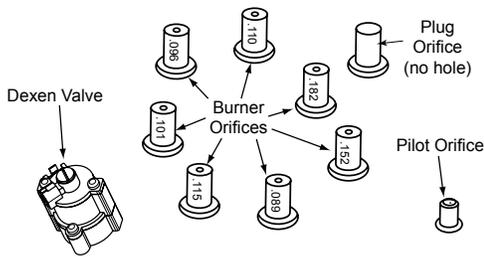
## C. Optional Components



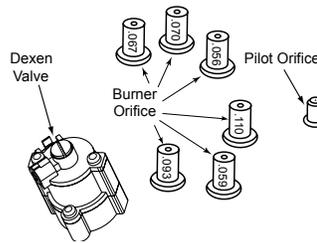
**AK22 - Air Kit**



**RC-SMART-HTL Remote Control**  
**RC-BATT-HTL Battery-Operated Remote Control (Standing Pilot)**  
**SMART-STAT-HTL Remote Control with Thermostat Control**  
**SMART-BATT-HTL Battery-Operated Remote Control with Thermostat Control**



**DCKN Propane to Natural Gas Conversion Kit**



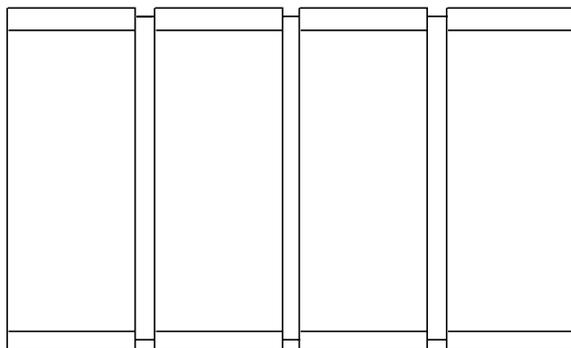
**DCKP Natural to Propane Gas Conversion Kit**



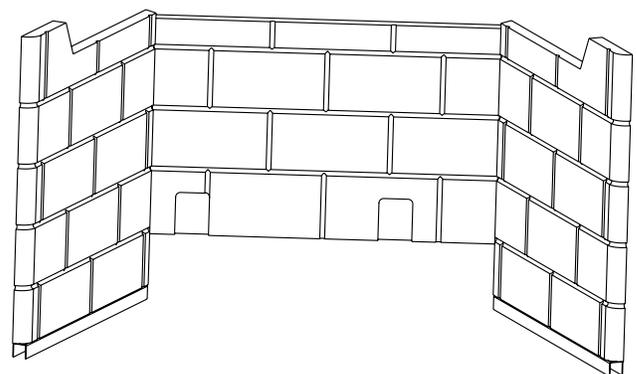
**WSK-MLT-HTL Wall Switch Kit**

**SCKN-B Propane to Natural Gas Conversion Kit**

**SCKP-B Natural to Propane Gas Conversion Kit**



**Bifold Doors DM1036/DM1036B/DM1036S**



**BCRK36 Refractory**

***This page intentionally left blank.***

