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.
A. Congratulations

Congratulations on selecting a Hearth & Home Technologies gas fireplace, an elegant and clean alternative to wood burning fireplaces. The Hearth & Home Technologies 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 Hearth & Home Technologies gas fireplace will give you years of durable use and trouble-free enjoyment. Welcome to the Hearth & Home Technologies family of fireplace products!

---

Homeowner Reference Information

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.

---

Model #: ___________________________

Gas Type: ___________________________ Serial #: ________________________________

Orifice Size: XX/XX DIA. in./mm

Hearth & Home Technologies Inc
1915 W. Saunders Street
Mt. Pleasant, IA 52641

ANSI Standard

GAS MFG. DATE/DATE DE FAB. PROpane 0-2000 2000-4000 FT/Pi XX,XXX XX,XXX BTUH XX,XXX XX,XXX BTUH

ALTITUDE MANIFOLD PRESSURE/PRESSION TUBULAIRE MAX. XX IN. W.C./C. D’EAU XX IN. W.C./C. D’EAU

MIN. XX IN. W.C./C. D’EAU XX IN. W.C./C. D’EAU

MIN. INLET PRESS. FOR THE PURPOSE OF INLET ADJUSTMENT PRESS. MIN. D’ALIMENTATION DIAM. DE L’INJECTEUR XX/XX DIA. in./mm

LESS THAN/MOINS DE 3 AMPÈRES., 115V., 60 Hz

DO NOT REMOVE OR COVER THIS LABEL.
VENTED GAS FIREPLACE - NOT FOR USE WITH SOLID FUEL.
FOYER À GAZ À ÉVACUATION - NE DOIT PAS ÊTRE UTILISÉ AVEC UN COMBUSTIBLE SOLIDE.
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.

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 = Contains updated information.
B. Warranty

Hearth & Home Technologies
LIMITED LIFETIME WARRANTY

Hearth & Home Technologies, on behalf of its hearth brands (“HHT”), extends the following warranty for HHT gas, wood, pellet, coal and electric hearth appliances that are purchased from an HHT authorized dealer.

**WARRANTY COVERAGE:**
HHT warrants to the original owner of the HHT appliance at the site of installation, and to any transferee taking ownership of the appliance at the site of installation within two years following the date of original purchase, that the HHT appliance will be free from defects in materials and workmanship at the time of manufacture. After installation, if covered components manufactured by HHT are found to be defective in materials or workmanship during the applicable warranty period, HHT will, at its option, repair or replace the covered components. HHT, at its own discretion, may fully discharge all of its obligations under such warranties by replacing the product itself or refunding the verified purchase price of the product itself. The maximum amount recoverable under this warranty is limited to the purchase price of the product. This warranty is subject to conditions, exclusions and limitations as described below.

**WARRANTY PERIOD:**
Warranty coverage begins on the date of original purchase. In the case of new home construction, warranty coverage begins on the date of first occupancy of the dwelling or six months after the sale of the product by an independent, authorized HHT dealer/distributor, whichever occurs earlier. The warranty shall commence no later than 24 months following the date of product shipment from HHT, regardless of the installation or occupancy date. The warranty period for parts and labor for covered components is produced in the following table.

The term “Limited Lifetime” in the table below is defined as: 20 years from the beginning date of warranty coverage for gas appliances, and 10 years from the beginning date of warranty coverage for wood, pellet, and coal appliances. These time periods reflect the minimum expected useful lives of the designated components under normal operating conditions.

<table>
<thead>
<tr>
<th>Warranty Period</th>
<th>HHT Manufactured Appliances and Venting</th>
<th>Components Covered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parts Labor</td>
<td>Gas Wood Pellet EPA Coal Electric Venting</td>
<td>All parts and material except as covered by Conditions, Exclusions, and Limitations listed</td>
</tr>
<tr>
<td>1 Year</td>
<td>X X X X X X X X</td>
<td>Igniters, electronic components, and glass</td>
</tr>
<tr>
<td>2 years</td>
<td>X X X X X</td>
<td>Factory-installed blowers</td>
</tr>
<tr>
<td></td>
<td>X</td>
<td>Molded refractory panels</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ignition Modules</td>
</tr>
<tr>
<td>3 years</td>
<td></td>
<td>Firepots and burnpots</td>
</tr>
<tr>
<td>5 years 1 year</td>
<td>X</td>
<td>Castings and baffles</td>
</tr>
<tr>
<td>7 years 3 years</td>
<td>X X X X</td>
<td>Manifold tubes, HHT chimney and termination</td>
</tr>
<tr>
<td>10 years 1 year</td>
<td>X</td>
<td>Burners, logs and refractory</td>
</tr>
<tr>
<td>Limited Lifetime</td>
<td>X X X X X X X X X X</td>
<td>Firebox and heat exchanger</td>
</tr>
<tr>
<td>90 Days</td>
<td>X X X X X X X X X X</td>
<td>All replacement parts beyond warranty period</td>
</tr>
</tbody>
</table>

See conditions, exclusions, and limitations on next page.
B. Warranty (continued)

WARRANTY CONDITIONS:
• This warranty only covers HHT appliances that are purchased through an HHT authorized dealer or distributor. A list of HHT authorized dealers is available on the HHT branded websites.
• This warranty is only valid while the HHT appliance remains at the site of original installation.
• This warranty is only valid in the country in which the HHT authorized dealer or distributor that sold the appliance resides.
• Contact your installing dealer for warranty service. If the installing dealer is unable to provide necessary parts, contact the nearest HHT authorized dealer or supplier. Additional service fees may apply if you are seeking warranty service from a dealer other than the dealer from whom you originally purchased the product.
• Check with your dealer in advance for any costs to you when arranging a warranty call. Travel and shipping charges for parts are not covered by this warranty.

WARRANTY EXCLUSIONS:
This warranty does not cover the following:
• Changes in surface finishes as a result of normal use. As a heating appliance, some changes in color of interior and exterior surface finishes may occur. This is not a flaw and is not covered under warranty.
• Damage to printed, plated, or enameled surfaces caused by fingerprints, accidents, misuse, scratches, melted items, or other external sources and residues left on the plated surfaces from the use of abrasive cleaners or polishes.
• Repair or replacement of parts that are subject to normal wear and tear during the warranty period. These parts include: paint, wood, pellet and coal gaskets, firebricks, grates, flame guides, batteries and the discoloration of glass.
• Expansion, contraction, or movement of certain parts causing noise. These conditions are normal and complaints related to this noise are not covered by this warranty.
• Damages resulting from: (1) failure to install, operate, or maintain the appliance in accordance with the installation instructions, operating instructions, and listing agent identification label furnished with the appliance; (2) failure to install the appliance in accordance with local building codes; (3) shipping or improper handling; (4) improper operation, abuse, misuse, continued operation with damaged, corroded or failed components, accident, or improperly/incorrectly performed repairs; (5) environmental conditions, inadequate ventilation, negative pressure, or drafting caused by tightly sealed constructions, insufficient make-up air supply, or handling devices such as exhaust fans or forced air furnaces or other such causes; (6) use of fuels other than those specified in the operating instructions; (7) installation or use of components not supplied with the appliance or any other components not expressly authorized and approved by HHT; (8) modification of the appliance not expressly authorized and approved by HHT in writing; and/or (9) interruptions or fluctuations of electrical power supply to the appliance.
• Non-HHT venting components, hearth components or other accessories used in conjunction with the appliance.
• Any part of a pre-existing fireplace system in which an insert or a decorative gas appliance is installed.
• HHT’s obligation under this warranty does not extend to the appliance’s capability to heat the desired space. Information is provided to assist the consumer and the dealer in selecting the proper appliance for the application. Consideration must be given to appliance location and configuration, environmental conditions, insulation and air tightness of the structure.

This warranty is void if:
• The appliance has been over-fired or operated in atmospheres contaminated by chlorine, fluorine, or other damaging chemicals. Over-firing can be identified by, but not limited to, warped plates or tubes, rust colored cast iron, bubbling, cracking and discoloration of steel or enamel finishes.
• The appliance is subjected to prolonged periods of dampness or condensation.
• 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.

LIMITATIONS OF LIABILITY:
• The owner’s exclusive remedy and HHT’s sole obligation under this warranty, under any other warranty, express or implied, or in contract, tort or otherwise, shall be limited to replacement, repair, or refund, as specified above. In no event will HHT be liable for any incidental or consequential damages caused by defects in the appliance. Some states do not allow exclusions or limitation of incidental or consequential damages, so these 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 EXPRESSED WARRANTY SPECIFIED ABOVE.
A. Appliance Certification

**MODELS:** BCBV36, BCBV36I

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

**TYPE:** Vented Gas Fireplace

**STANDARD:** ANSI 21.501a-2008/CSA 2.22a-2008

**NOTICE:** This installation must conform with local codes, or in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1/NFPA 54, or the Natural Gas and Propane Installation Code, CSA B149.1.

---

**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**

<table>
<thead>
<tr>
<th>BCBV36Series</th>
<th>StandingPilot</th>
<th>IPI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Rate (NG)</td>
<td>23,000</td>
<td>23,000</td>
</tr>
<tr>
<td>Orifice Size (NG)</td>
<td>.089in./2.26mm</td>
<td>.089in./2.26mm</td>
</tr>
<tr>
<td>Input Rate (LP)</td>
<td>23,000</td>
<td>23,000</td>
</tr>
<tr>
<td>Orifice Size (LP)</td>
<td>.056in./1.42mm</td>
<td>.056in./1.42mm</td>
</tr>
</tbody>
</table>

---

**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

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.

![Figure 2.2 Clear Space](image)

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](image)
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.

**FOR YOUR SAFETY READ BEFORE LIGHTING**

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

A. This appliance is equipped with an ignition device which automatically lights the pilot. Do not try to light the pilot by hand.

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

WHAT TO DO IF YOU SMELL GAS
- Do not try to light any appliance.
- Do not touch any electric switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.

**LIGHTING INSTRUCTIONS**

1. STOP! Read the safety information above on this label.
2. Turn wall switch to the “OFF” position or thermostat to the lowest setting.
3. Turn off all electric power to the appliance.
4. This appliance is equipped with an ignition device which automatically lights the pilot. Do NOT try to light the pilot by hand.
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.
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.
7. If the appliance will not operate, follow the instructions “TO TURN OFF GAS TO APPLIANCE” and call your service technician or gas supplier.

**TO TURN OFF GAS TO APPLIANCE**

1. Turn off wall switch or set thermostat to lowest setting.
2. Turn off all electric power to the appliance if service is to be performed.
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.
4. Replace the 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.

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

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**
FOR YOUR SAFETY READ BEFORE LIGHTING

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

A. Before lighting the pilot, follow these instructions exactly.
   B. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

TO TURN OFF GAS TO APPLIANCE
1. Turn off wall switch or set thermostat to lowest setting.
2. Remove control access panel.
3. Turn manual gas valve to "CLOSED" position. Do not force.
4. Replace control access panel.

TO TURN OFF GAS TO APPLIANCE
1. Turn off wall switch or set thermostat to lowest setting.
2. Remove control access panel.
3. Turn manual gas valve to "CLOSED" position. Do not force.
4. Replace control access panel.

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

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.

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
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. Flame Adjustment Control
Some appliances come equipped with a high/low flame adjustment control.
• Open control access panel
• Compare your valve to Figures 2.4 & 2.5.
• Adjust the flame by turning knob as indicated in the photo matching your valve.

L. Frequently Asked Questions

<table>
<thead>
<tr>
<th>ISSUE</th>
<th>SOLUTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Condensation on the glass</td>
<td>This is a result of gas combustion and temperature variations. As the appliance warms, this condensation will disappear.</td>
</tr>
<tr>
<td>Blue flames</td>
<td>This is a result of normal operation and the flames will begin to yellow as the appliance is allowed to burn for 20 to 40 minutes.</td>
</tr>
<tr>
<td>Odor from appliance</td>
<td>When first operated, this appliance 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 appliance. These circumstances may require additional curing related to the installation environment.</td>
</tr>
<tr>
<td>Film on the glass</td>
<td>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.</td>
</tr>
<tr>
<td>Metallic noise</td>
<td>Noise is caused by metal expanding and contracting as it heats up and cools down, similar to the sound produced by a furnace or heating duct. This noise does not affect the operation or longevity of the appliance.</td>
</tr>
<tr>
<td>Is it normal to see the pilot flame burn continually?</td>
<td>In an IntelliFire ignition system (IPI), the pilot flame should turn off when appliance is turned off. Some optional control systems available with IPI models may allow pilot flame to remain lit. In a standing pilot system the pilot will always stay on.</td>
</tr>
</tbody>
</table>
3 Maintenance and Service

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)
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
B. Design and Installation Considerations

Hearth & Home Technologies 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.

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 underwater. 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.

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 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.

![Diagram showing clearances and dimensions](image)

<table>
<thead>
<tr>
<th>Model</th>
<th>A Rough Opening (Width)</th>
<th>B Rough Opening (Height)</th>
<th>C Rough Opening (Depth)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCBV36</td>
<td>39-3/4 in. (1010 mm)</td>
<td>33-7/8 in. (860 mm)</td>
<td>19-1/4 in. (489 mm)</td>
</tr>
</tbody>
</table>

![Figure 5.2 Clearances to Combustibles](image)
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**

![Diagram of Mantel and Wall Projections]

Figure 5.3  Minimum Vertical and Maximum Horizontal Dimensions of Combustibles

**Mantel Legs or Wall Projections**

![Diagram of Mantle Leg or Wall Projections]

- **A** 1 in. (25 mm) min. to perpendicular wall
- **B** 2-3/8 in. (60 mm) min. from fireplace opening to perpendicular wall

Figure 5.4  Combustible Mantel Leg or Wall Projections (Acceptable on both sides of opening)
A. Vent Termination Minimum Clearances

<table>
<thead>
<tr>
<th>Roof Pitch</th>
<th>H (Min.) Ft.</th>
<th>Roof Pitch</th>
<th>H (Min.) Ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat to 6/12</td>
<td>1.0&quot;</td>
<td>Over 11/12 to 12/12</td>
<td>4.0</td>
</tr>
<tr>
<td>Over 6/12 to 7/12</td>
<td>1.25&quot;</td>
<td>Over 12/12 to 14/12</td>
<td>5.0</td>
</tr>
<tr>
<td>Over 7/12 to 8/12</td>
<td>1.5&quot;</td>
<td>Over 14/12 to 16/12</td>
<td>6.0</td>
</tr>
<tr>
<td>Over 8/12 to 9/12</td>
<td>2.0&quot;</td>
<td>Over 16/12 to 18/12</td>
<td>7.0</td>
</tr>
<tr>
<td>Over 9/12 to 10/12</td>
<td>2.5</td>
<td>Over 18/12 to 20/12</td>
<td>7.5</td>
</tr>
<tr>
<td>Over 10/12 to 11/12</td>
<td>3.25</td>
<td>Over 20/12 to 21/12</td>
<td>8.0</td>
</tr>
</tbody>
</table>

* 3 ft. minimum in snow regions

** 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 6.1 Minimum Height From Roof To Lowest Discharge Opening

Table:

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 in. (minimum) up to 20 in.</td>
<td>6 in. (minimum) up to 20 in.</td>
<td>6 in. (minimum) up to 20 in.</td>
</tr>
<tr>
<td>152 mm/508 mm</td>
<td>152 mm/508 mm</td>
<td>152 mm/508 mm</td>
</tr>
<tr>
<td>20 in. and over</td>
<td>20 in. and over</td>
<td>20 in. and over</td>
</tr>
<tr>
<td>457 mm</td>
<td>457 mm</td>
<td>457 mm</td>
</tr>
<tr>
<td>0 in. minimum</td>
<td>0 in. minimum</td>
<td>0 in. minimum</td>
</tr>
</tbody>
</table>

Figure 6.2 Multiple Termination Caps

* 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.
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 60º or Eight 45º

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.

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.

Figure 7.1 Vertical Termination Clearances

Minimum clearances are per vent manufacturer's specifications

Metal plumber's strap secured to framing

Vent supports are per vent manufacturer's specifications

Figure 7.2 Maximum Horizontal Run

Maximum horizontal 30 ft (9.14 m)
Offsets exceeding 45º adapt horizontal limitations

Note: Maximum horizontal distance is 50% of vertical vent height.

Note: 61º to 90º elbows are not allowed. Only 60º elbows or less are allowed. A straight section is not required before the first elbow.
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.
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](image)

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](image)
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.

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:

<table>
<thead>
<tr>
<th>Gas Pressure</th>
<th>Natural Gas</th>
<th>Propane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum inlet pressure</td>
<td>5.0 in. w.c.</td>
<td>11.0 in. w.c.</td>
</tr>
<tr>
<td>Maximum inlet pressure</td>
<td>10.0 in. w.c.</td>
<td>13.0 in. w.c.</td>
</tr>
<tr>
<td>Manifold pressure</td>
<td>3.5 in. w.c.</td>
<td>10.0 in. w.c.</td>
</tr>
</tbody>
</table>

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.

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.

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.
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.

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

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.

**Figure 12.4 Prepare Junction Box Bracket**

**Figure 12.5 Position Bracket on Junction Box**

**Figure 12.6 Secure Bracket to Junction Box**

**Figure 12.7 Attach the Heat Shield**

**Figure 12.8 Attach the Junction Box**

**Note:** Do NOT wire 110 VAC to wall switch.
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

![Figure 13.1 Minimum Vertical and Maximum Horizontal Dimensions of Combustibles](image)

**Mantel Legs or Wall Projections**

![Figure 13.2 Combustible Mantel Leg or Wall Projections (Acceptable on both sides of opening)](image)

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.

![Figure 13.3 Noncombustible Facing Diagram](image)
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.

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

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.

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.
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.
A. Standing Pilot Ignition System

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Causes</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>. 1 After repeated triggering of the red or black piezo ignitor button, the spark ignitor will not light the pilot. Check for spark.</td>
<td>A. No gas or low gas pressure.</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>B. No LP in tank.</td>
<td>Check the LP (propane) tank. You may be out of fuel.</td>
</tr>
<tr>
<td></td>
<td>C. Ignitor.</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>D. Pilot or misaligned electrode (spark at electrode).</td>
<td>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.</td>
</tr>
<tr>
<td>. 2 The pilot will not stay lit after carefully following the lighting instructions.</td>
<td>A. Thermocouple.</td>
<td>Check that the pilot flame impinges on the thermocouple. Adjust the pilot for proper flame impingement.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ensure that the thermocouple connection at the gas valve is fully inserted and tight (hand tighten plus 1/4 turn).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>B. Improper gas inlet pressure.</td>
<td>Natural gas should be 5-7 in. w.c. LP should be 11-14 in. w.c. Verify pressure with manometer.</td>
</tr>
<tr>
<td></td>
<td>C. Valve.</td>
<td>If the thermocouple is producing 8-16 millivolts, replace control valve.</td>
</tr>
<tr>
<td>. 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.</td>
<td>A. On/off switch or wires defective.</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>B. Thermopile may not be generating sufficient millivoltage.</td>
<td>Check that the pilot flame impinges thermopile properly.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Check the thermopile with a millivolt meter. Take the reading at TH-TP&amp;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.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>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.</td>
</tr>
</tbody>
</table>
### A. Standing Pilot Ignition System (continued)

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>. 3 (continued)</td>
<td>. C Valve.</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>. D Plugged burner orifice.</td>
<td>Check the burner orifice for stoppage. Remove stoppage.</td>
</tr>
<tr>
<td></td>
<td>. E Wall switch or wires.</td>
<td>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.</td>
</tr>
<tr>
<td>. 4 Frequent pilot outage problem.</td>
<td>. A Pilot flame may be too high or too low, or blowing out (high pressure), causing pilot safety to drop out.</td>
<td>Clean thermocouple and adjust the pilot flame for proper flame impingement. Follow lighting instructions carefully.</td>
</tr>
<tr>
<td>. 5 The pilot and main burner extinguish while in operation.</td>
<td>. A No LP in tank.</td>
<td>Check the LP (propane) tank. Refill the fuel tank.</td>
</tr>
<tr>
<td></td>
<td>. B Improper gas inlet pressure.</td>
<td>Verify with manometer. NG should read 5-14 inches w.c. LP should read 10-14 inches w.c.</td>
</tr>
<tr>
<td></td>
<td>. C Inner vent pipe leaking exhaust gases back into the system.</td>
<td>Check venting system for damage. Replace/repair improperly assembled pipe sections.</td>
</tr>
<tr>
<td></td>
<td>. D Glass installed improperly.</td>
<td>Check to ensure glass is installed properly. Replace glass panel assembly.</td>
</tr>
<tr>
<td></td>
<td>. E Thermopile or thermocouple.</td>
<td>Replace pilot if necessary.</td>
</tr>
<tr>
<td></td>
<td>. F Improper vent cap installation.</td>
<td>Check for proper installation and freedom from debris or blockage.</td>
</tr>
<tr>
<td></td>
<td>. G High limit switch has been automatically activated.</td>
<td>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.</td>
</tr>
<tr>
<td>. 6 Glass soots.</td>
<td>. A Flame impingement.</td>
<td>Adjust the log set so that the flame does not excessively impinge on it. Refer to log instructions.</td>
</tr>
<tr>
<td></td>
<td>. B Improper air shutter setting.</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>. C Debris around air shutter.</td>
<td>Inspect the opening at the base of the burner. NO MATERIAL SHOULD BE PLACED IN THIS OPENING.</td>
</tr>
<tr>
<td>. 7 Flame burns blue and lifts off burner.</td>
<td>. A Insufficient oxygen being supplied.</td>
<td>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.</td>
</tr>
</tbody>
</table>
### B. Intellifire Ignition System

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Cause</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>.1 Pilot won’t light. The ignitor/module makes noise, but no spark.</td>
<td>.A Incorrect wiring.</td>
<td>Verify “S” wire (white) for sensor and “I” wire (orange) for ignitor are connected to correct terminals on module and pilot assembly.</td>
</tr>
<tr>
<td></td>
<td>.B Loose connections or electrical shorts in the wiring.</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>.C Ignitor gap is too large.</td>
<td>Verify gap of igniter to right side of pilot hood. The gap should be approximately .17 inch or 1/8 in. (3 mm).</td>
</tr>
<tr>
<td></td>
<td>.D Module.</td>
<td>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.</td>
</tr>
<tr>
<td>.2 Pilot won’t light. There is noise or spark.</td>
<td>.A No power or transformer installed incorrectly.</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>.B shortsed or loose connection in wiring configuration or wiring harness.</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>.C Improper wall switch wiring.</td>
<td>Verify that 110/VAC power is “ON” to junction box.</td>
</tr>
<tr>
<td></td>
<td>.D Module not grounded.</td>
<td>Verify black ground wire from module wire harness is grounded to metal chassis of appliance.</td>
</tr>
<tr>
<td></td>
<td>.E Module.</td>
<td>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.</td>
</tr>
<tr>
<td>.3 Pilot sparks, but Pilot will not light.</td>
<td>.A Gas supply.</td>
<td>Verify that incoming gas line ball valve is “open”. Verify that inlet pressure reading is within acceptable limits.</td>
</tr>
<tr>
<td></td>
<td>.B Ignitor gap is incorrect.</td>
<td>Verify that spark gap from ignitor to pilot hood is .17 in. or 1/8 in (3 mm).</td>
</tr>
<tr>
<td></td>
<td>.C Module is not grounded.</td>
<td>Verify module is securely grounded to metal chassis of appliance.</td>
</tr>
<tr>
<td></td>
<td>.D Module voltage output/Valve/ Pilot solenoid ohms readings.</td>
<td>Verify battery voltage is at least 2.7 volts. Replace batteries if voltage is below 2.7.</td>
</tr>
</tbody>
</table>
### B. Intellifire Ignition System (continued)

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>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.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>A</td>
<td>Ashorted 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.</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>Module is not grounded. Verify module is securely grounded to metal chassis of appliance. Verify that wire harness is firmly connected to the module.</td>
</tr>
<tr>
<td></td>
<td>D</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>E</td>
<td>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.</td>
</tr>
<tr>
<td>5</td>
<td>The pilot and main burner extinguish while in operation.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A</td>
<td>No LP in tank. Check the LP (propane) tank. Refill the fuel tank.</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>Improper gas inlet pressure. Verify with manometer. NG should read 5-14 inches w.c. LP should read 10-14 inches w.c.</td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>Inner vent pipe leaking exhaust gases back into the system. Check venting system for damage. Replace/repair improperly assembled pipe sections.</td>
</tr>
<tr>
<td></td>
<td>D</td>
<td>Glass installed improperly. Check to ensure glass is installed properly. Replace glass panel assembly.</td>
</tr>
<tr>
<td></td>
<td>E</td>
<td>Improper vent cap installation. Check for proper installation and freedom from debris or blockage.</td>
</tr>
<tr>
<td></td>
<td>F</td>
<td>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.</td>
</tr>
</tbody>
</table>
A. 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. 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.

---

A. Appliance Dimension Diagram

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

![Appliance Dimensions Diagram]

Figure 16.1 Appliance Dimensions
## Service Parts

### BCBV36I

**36” Gas Fireplace - BV**

Beginning Manufacturing Date: June 2003
Ending Manufacturing Date: Active

---

**Log Set Assembly**

![Log Set Assembly Image]  

**IMPORTANT:** THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. **Hearth and Home Technologies does not sell directly to consumers.** Provide model number and serial number when requesting service parts from your dealer or distributor.

**Stocked at Depot**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>COMMENTS</th>
<th>PART NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Front Log</td>
<td>Pre wk 14/04</td>
<td>SRV34945</td>
</tr>
<tr>
<td>1</td>
<td>Front Log</td>
<td>Post wk 14/04</td>
<td>SRV4008-017</td>
</tr>
<tr>
<td>2</td>
<td>Back Log</td>
<td>Pre 5/15/16, Must order complete assembly</td>
<td>SRV34947</td>
</tr>
<tr>
<td>3</td>
<td>Top Log</td>
<td></td>
<td>SRV34948</td>
</tr>
<tr>
<td>4</td>
<td>Flue Baffle Assembly</td>
<td>34856</td>
<td>Y</td>
</tr>
<tr>
<td>5</td>
<td>Baffle - Right</td>
<td>35229</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Baffle - Left</td>
<td>35228</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Hood/Door Track</td>
<td>34635</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Smoke Shield</td>
<td>25690</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Smoke Shield Extension</td>
<td>35223</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Grate Assembly</td>
<td>Pre wk 14/04</td>
<td>34865</td>
</tr>
<tr>
<td>10</td>
<td>Grate Assembly</td>
<td>Post wk 14/04</td>
<td>4008-011</td>
</tr>
<tr>
<td>11</td>
<td>Valve Assembly - IPI</td>
<td></td>
<td>Refer to valve page</td>
</tr>
<tr>
<td>12</td>
<td>Cover</td>
<td></td>
<td>4008-015</td>
</tr>
<tr>
<td>13</td>
<td>Screen Rod</td>
<td>23305</td>
<td>Y</td>
</tr>
<tr>
<td>14</td>
<td>Firescreen Assembly (standard &amp; shipped with unit)</td>
<td>Qty. 2 req</td>
<td>4008-020</td>
</tr>
<tr>
<td>15</td>
<td>Junction Box Heat Shield</td>
<td>28395</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Junction Box Kit</td>
<td>JK9</td>
<td>Y</td>
</tr>
<tr>
<td></td>
<td>Face, Top &amp; bottom</td>
<td>Qty. 2 req</td>
<td>34891</td>
</tr>
</tbody>
</table>

Additional service part numbers appear on following page. 5/16
#11 Valve Assembly

Part number list on following page.
**Hearth & Home Technologies**

**Service Parts**

**BCBV36I**

Beginning Manufacturing Date: June 2003
Ending Manufacturing Date: Active

**IMPORTANT:** THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. Hearth and Home Technologies does not sell directly to consumers. Provide model number and serial number when requesting service parts from your dealer or distributor.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>COMMENTS</th>
<th>PART NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.1</td>
<td>Wire Assembly - HiBlu60FM</td>
<td></td>
<td>34937</td>
</tr>
<tr>
<td>11.2</td>
<td>Limit Switch w/Auto Reset</td>
<td>Pre GA1551065</td>
<td>34816</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Post GA1551065</td>
<td>4021-383</td>
</tr>
<tr>
<td>11.3</td>
<td>Burner Tube</td>
<td></td>
<td>34032</td>
</tr>
<tr>
<td>11.4</td>
<td>Log Retainer Brackets</td>
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**Stocked at Depot**

**Junction Box Cover Plate 26548**

**Nailing Flange Qty 4 req 31190**

**Installation Instructions 4008-033**

**Wool, Rock, Vermiculite 4040-094**

**Lava Rock 4021-296**

**Mineral Wool 14333B**

**Vermiculite 28746**

**Touch Up Paint 71479**

**Wall Switch Wire Assembly 4018-046**

**Wire Assembly - HiBlk8MM No longer available 35031**

**Wire Assembly - HiBlk60FM Pre GA1551065 4018-022**

**Conversion Kit - LP to NG DCKN**

**Conversion Kit - NG to LP DCKP**
C. Optional Components

ID4 Insulated Duct

UD4 Uninsulated Duct

DCKN
Propane to Natural Gas Conversion Kit

DCKP
Natural to Propane Gas Conversion Kit

SCKN-B
Propane to Natural Gas Conversion Kit

SCKP-B
Natural to Propane Gas Conversion 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

SCKP-B
Natural to Propane Gas Conversion Kit

BCRK36 Refractory

Bifold Doors
DM1036/DM1036B/DM1036S
C. Optional Components (continued)

See your Hearth & Home Technologies dealer for a complete listing of optional components.
D. Contact Information

Please contact your Hearth & Home Technologies dealer with any questions or concerns. For the location of your nearest Hearth & Home Technologies dealer, please visit www.fireplaces.com.

- NOTES -

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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.

This product may be covered by one or more of the following patents: (United States) 5613487, 5647340, 5890485, 5941237, 6006743, 6019099, 6053165, 6145502, 6374822, 6484712, 6601579, 6769426, 6863064, 7077122, 7098269, 7258116, 7470729, 8147240 or other U.S. and foreign patents pending.

2000-945C

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