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Hearth Technologies-Mt. Pleasant
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Mt. Pleasant, Iowa 52641
Division, HON INDUSTRIES
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c UL us LISTED

CALIBER DESIGNER B-VENT SERIES

INSTALLATION & OPERATING INSTRUCTIONS

U.S. Patent 5,613,487

WARNING: If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

— 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.

CAUTION:

Do not expose the appliance to the elements (such as rain, etc.)

WARNING!

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

CONTENTS

A. PREPARATION

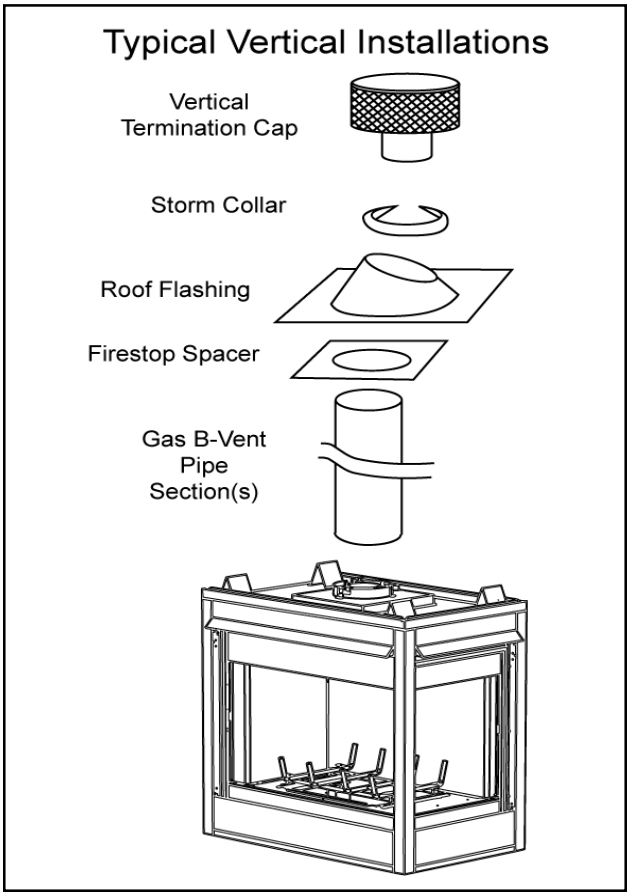
1. U.S. AND CANADA CERTIFICATION

The Caliber Designer B-Vent Series Gas Appliance has been tested in accordance with the ANSI standard Z21.50-1996 (Decorative); in Canada, the current CAN/CGA M2.22-M96, IR41, P4, and IR55 and has been LISTED by Underwriters Laboratories Inc. for installation as described in this manual. All components are UL or AGA safety certified.

2. LOCAL CODES

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

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



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

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

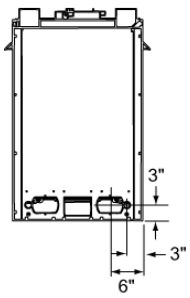
Tools and building supplies normally required for installation:

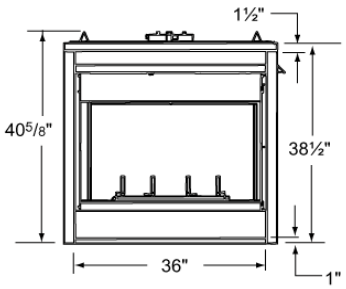
Tools:	Building Supplies:
Saw	Wall-finishing materials
Pliers	Framing material
Hammer	Surround
Phillips Screwdriver	Caulking material
Tape measure	
Plumb Line	
Level	
Electric Drill/Bits	
Framing Square	
Safety Gloves	

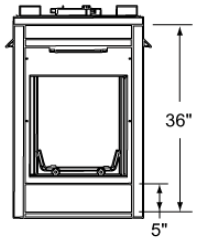
Catalog #	Description
GBST36	See-through, standing pilot, natural gas appliance
GBFL36	Peninsula, standing pilot, natural gas appliance
GBCR36	Corner Right, standing pilot, natural gas appliance
GBCL36	Corner Left, standing pilot, natural gas appliance
GBIS36	Island, standing pilot, natural gas appliance
The following suffixes are defined as follows:	
no suffix	Standing Pilot, Natural Gas
L	Standing Pilot, Propane Gas
E	Electronic Ignition, Natural Gas
LE	Electronic Ignition, Propane Gas
Example:	GBST36LE is a See-Through, electronic ignition, propane gas appliance.

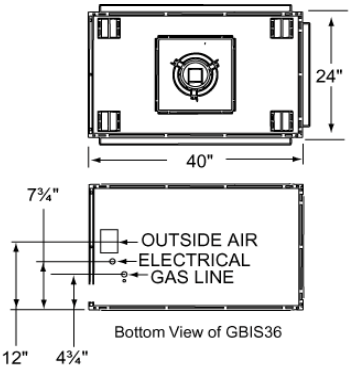
B. LOCATION AND CLEARANCES

Dimensions









WARNING!

Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.

1. APPLIANCE LOCATIONS AND SPACE REQUIREMENTS

Figure 1 illustrates a variety of ways the appliance may be located in a room. The Caliber Designer Series may be installed directly on the floor or raised on a hearth. These appliances are certified for installation in a bedroom, bed/sitting room or bathroom in the U.S. and Canada, provided that the bedroom or bathroom has a volume of at least 1700 cubic feet.

Common venting of this gas appliance with other gas appliances is not allowed in multifamily dwellings.

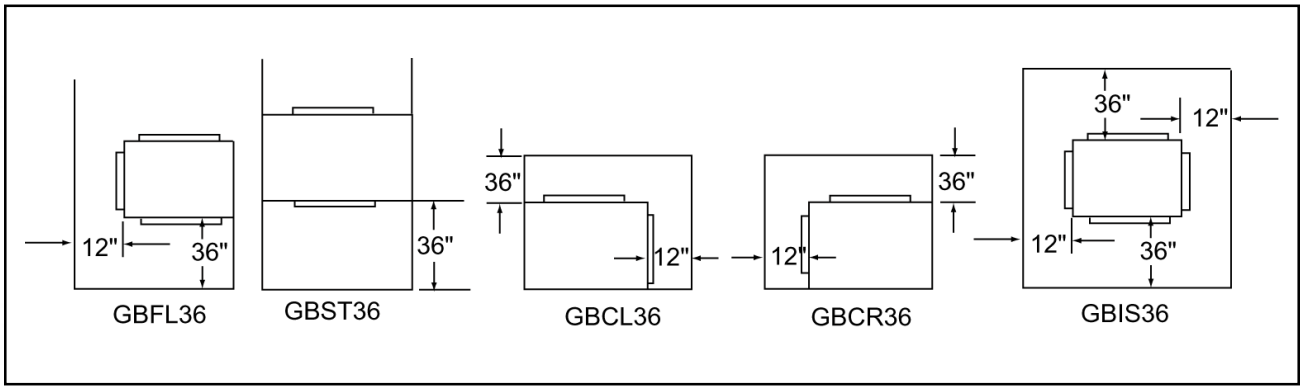


Figure 1
Appliance Locations and Clearances

2. CLEARANCES

Figure 2 shows venting clearances that must be maintained around the appliance.

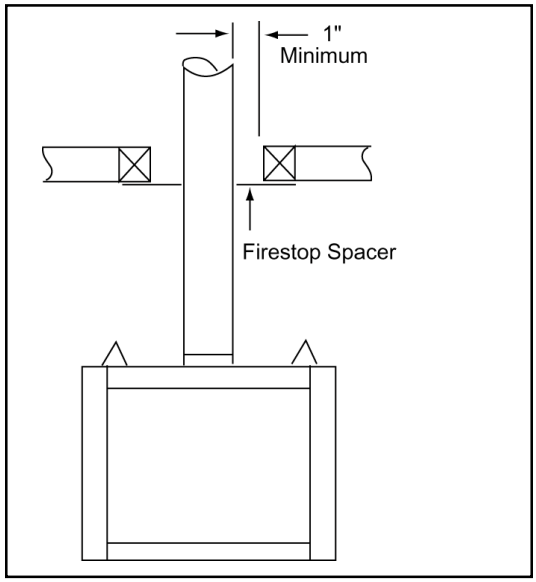


Figure 2
Venting Clearances to Combustible Materials

3. HIGH ALTITUDE INSTALLATION

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

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

CAUTION:

Wear gloves and safety glasses for protection.

C. FRAMING

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

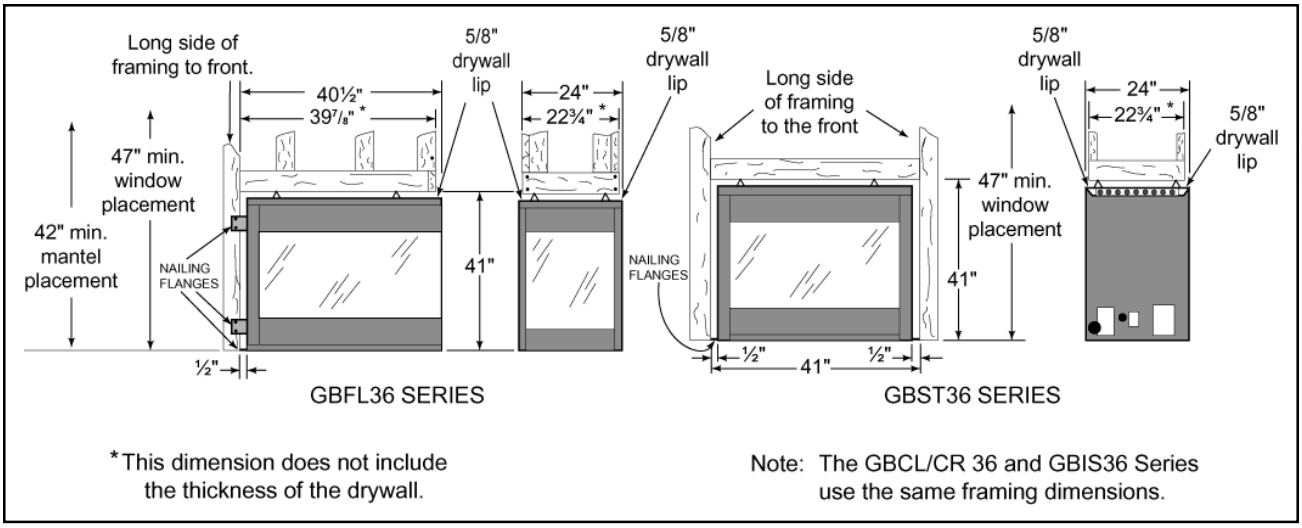


Figure 3 - Framing

WARNING!

To prevent contact with sagging or loose insulation, the appliance must <u>not</u> be installed against vapor barriers or exposed insulation.

D. SETTING THE APPLIANCE

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

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

CAUTION:

Provide adequate clearances around the air openings into the appliance and adequate accessibility clearances for servicing and proper operation.

E. VENTING

VERTICAL TERMINATION

This appliance is designed and tested for use with a listed 5 inch B-Vent vent system.

1. CLEARANCES

Vent clearances are per vent manufacturer's specifications.

2. VENT LENGTHS

Various venting configurations are shown in Figures 4 and 5 from which maximum vent runs can be determined.

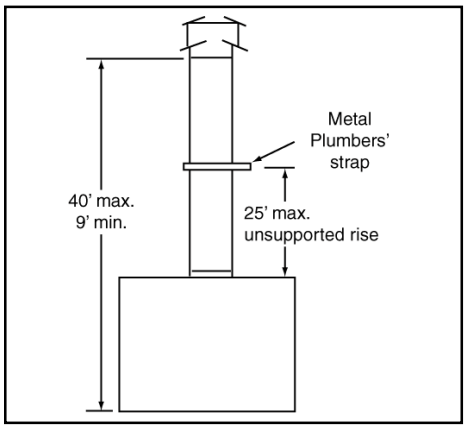


Figure 4 - Vertical Termination Vent Lengths

WARNING - RISK OF FIRE!

Always maintain minimum clearances or greater around the vent system. Do not pack air spaces with insulation or other material.

CAUTION:

Provisions shall be made to provide adequate combustion and ventilation air.

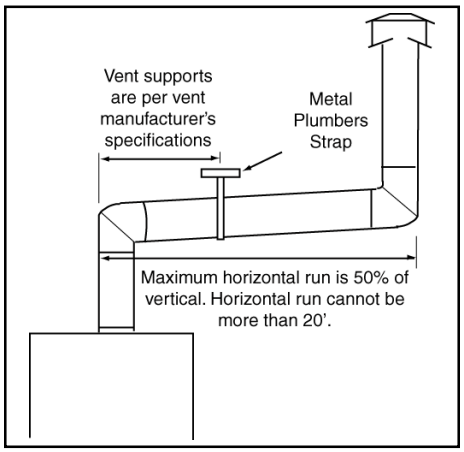


Figure 5 - Vertical Termination Vent Lengths

WARNING!

The horizontal run of vent must have a 1/4" rise for every 1 ft. of run towards the termination. Never allow the vent to run downward. This could cause high temperatures and may present a fire hazard.

3. FIRESTOP SPACER/VENT INSTALLATION

Frame an opening and install a firestop spacer whenever the vent penetrates a ceiling/floor area, as shown in Figure 6. Frame the opening with the same sized lumber as used in the ceiling floor joists. Unless the flue is offset, the hole should be directly above the appliance. DO NOT pack insulation around the vent. Assemble vent sections with three screws per joint.

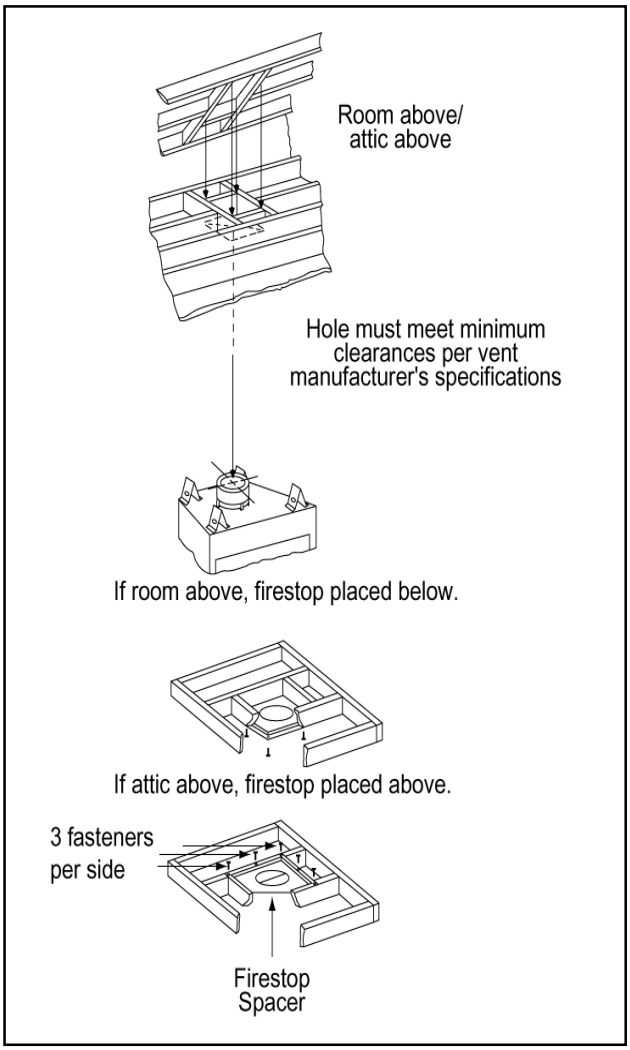


Figure 6
Installing the firestop spacer

4. CHASE/TERMINATION INSTALLATION

Figure 7 and Table 1 specify minimum vent heights for various pitched roofs. Vent sections may have to be cut to a certain length.

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

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

Table 1 - Vent Height

5. CHECK VENTING SYSTEM

Check the venting system to assure proper operation. This can be done with a match while the appliance is operating.

Hold a lighted match at the bottom edge of the draft hood opening. If the flames and smoke remain upright, ventilation is acceptable. If the flames and smoke are drawn into the draft hood, this means ventilation is good. If the flames and smoke are forced away from the draft hood, this may indicate a ventilation blockage or down draft resulting in gas spillage into the home. If this occurs, turn off the appliance and do not burn it until it has been inspected by a qualified service person. See Figure 8.

6. OUTSIDE AIR KIT INSTALLATION

An outside air kit is supplied as an optional feature with this appliance. An outside air kit helps to decrease the amount of room air taken by utilizing outside air for combustion. It is strongly recommended that it be installed.

The outside air kit can **only** be installed on the left side of the GBST, GBFL and GBCR, on the right side of the GBCL, and on the bottom of the GBIS.

To install the outside air kit, refer to the installation instructions provided with the kit.

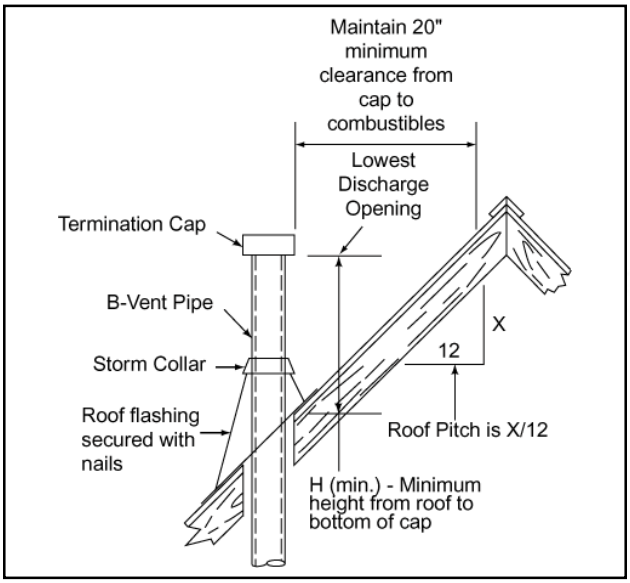


Figure 7 - Vent Height for Vertical Termination

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

Note: The outside air kit can terminate at any level with the exception that it must terminate at least one foot below the vent termination cap.

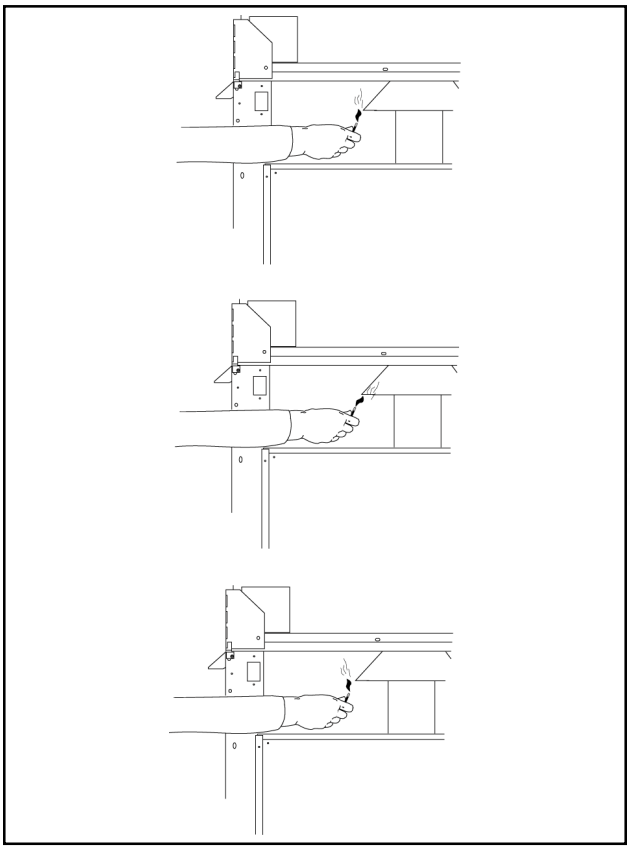


Figure 8 - Testing Ventilation

F. UTILITIES

1. GAS LINE CONNECTION

Open the control access panel as shown in Figures 9 and 10. See Figure 11 to connect gas line.

All connections must be checked for leaks with a soap and water solution or a leak detector.

Bleed the gas line for about 5 seconds to extract any air that may have been trapped inside the pipe.

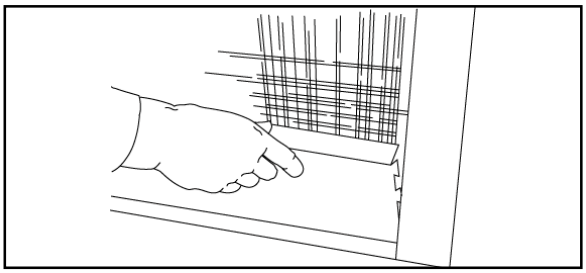


Figure 9 - Control Access Panel Removal

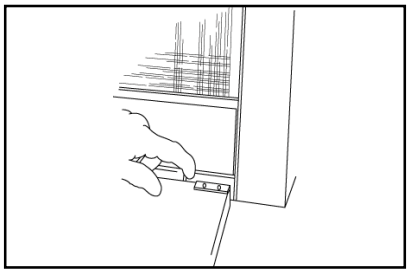


Figure 10 - Control Access Panel Removal

2. GAS PRESSURE

A 1/8" NPT plugged tapping is provided on the gas control valve, near the outlet to the main burner immediately upstream of the gas supply connection to the appliance, accessible for a test gage connection. Pressure taps are located on the top of the valve for both inlet and outlet pressure.

Table 2 shows optimum gas pressure information.

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

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

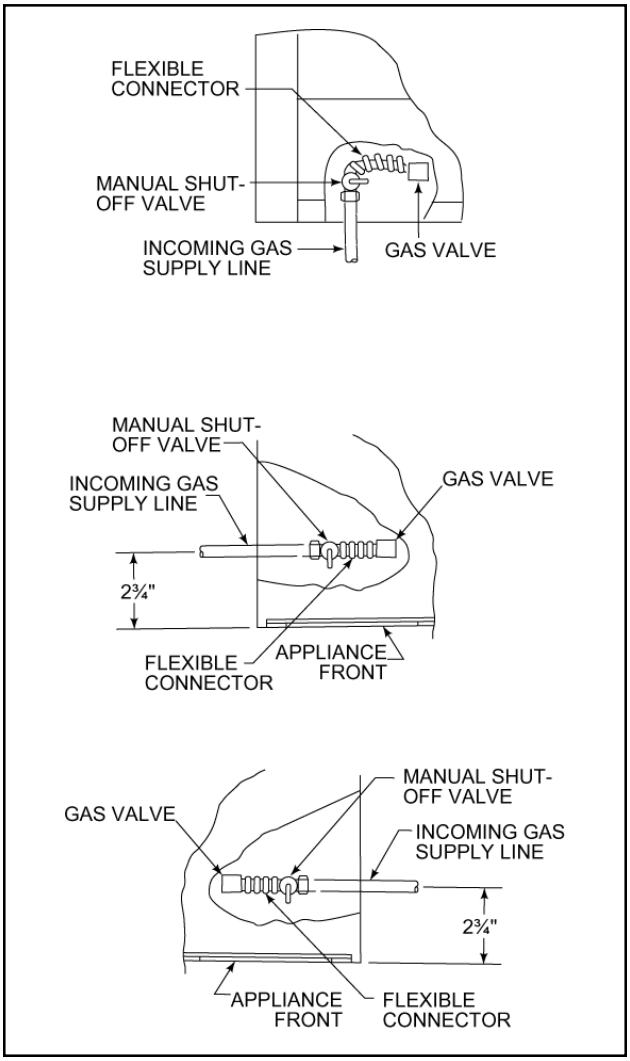


Figure 11 - Gas Line

CALIBER	
Inlet gas supply pressure (natural gas)	4.5 (min.) 7.0 (max.)*
Optimum manifold pressure (natural gas)	3.5*
Inlet gas supply pressure (LP gas)	11.0 (min.) 14.0 (max.)*
Optimum manifold pressure (LP gas)	10.5*
Input rate (natural gas)	34,000 BTU/hr.
Input rate (propane gas)	30,000 BTU/hr.
Natural Gas Orifice size	.115 in./2.92 mm
Propane Gas Orifice Size	.067 in./1.70 mm

* Inches water column

3. WIRING

a. Electronic Ignition

1) **Appliance Requirements:** This appliance requires a 110V AC supply from a wall switch to the appliance junction box for operation. A wiring diagram is shown in Figure 12.

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

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

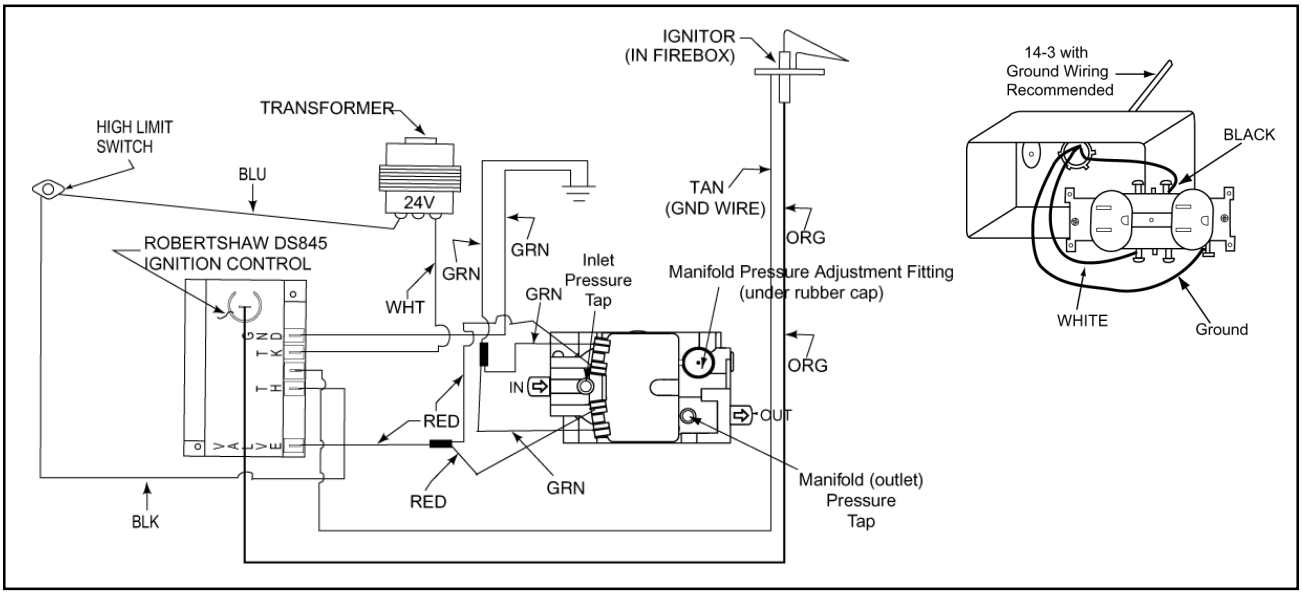


Figure 12
Electronic Ignition Wiring Diagram

b. Standing Pilot Ignition

1) **Appliance requirements:** A wiring diagram is shown in Figure 13.

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

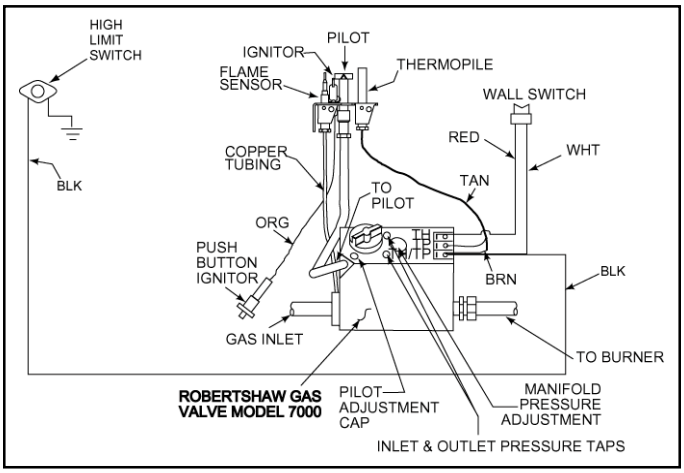


Figure 13
Standing Pilot Ignition Wiring Diagram

WARNING!

This appliance does not require a 110V AC supply for operation. Connecting the appliance/wall switch to a 110V AC supply will cause the appliance to malfunction and destroy the valve and thermopile.

G. FINISHING

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

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

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

A high temperature sealant, 1/8" inch wide minimum, must be used to close off gaps between the appliance and facing to prevent cold air leaks. See Figure 14.

A combustible mantel may be installed at a minimum of 42 inches above the base of the appliance.

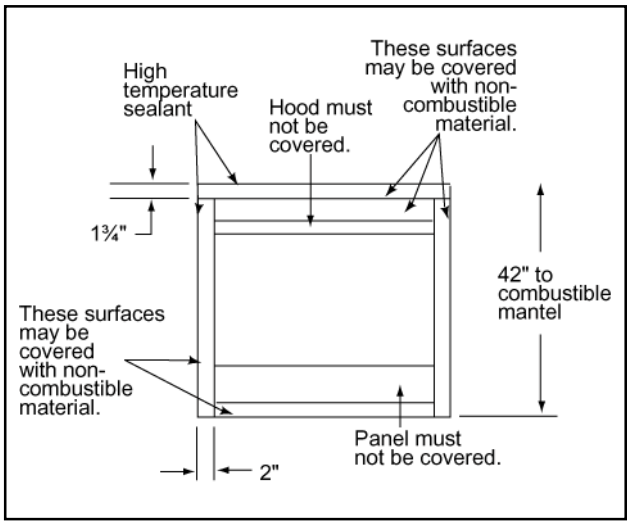


Figure 14
Finishing Materials

WARNING!

Lower grille on this appliance cannot, in any way, be covered as it may create a fire hazard.

H. APPLIANCE PREPARATION

1. ATTACHING THE HOOD

The hood is to be located above the glass panel. The hood must be attached or a fire hazard may result. Locate the three tabs just inside the upper section of the appliance. Position the hood and slide into position. See Figure 15.

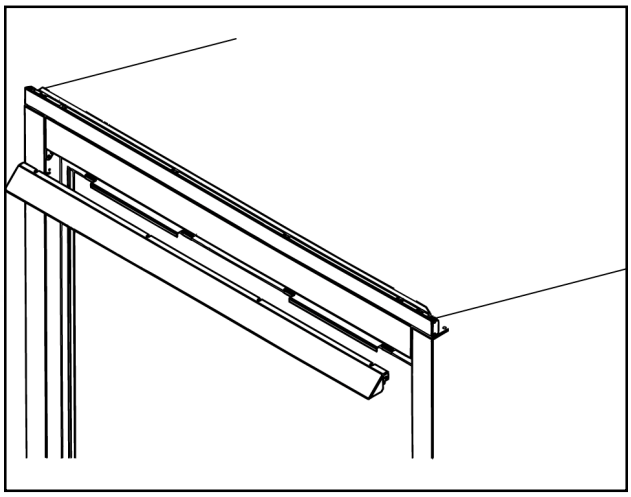


Figure 15
Hood Replacement

2. GLASS AND SCREEN REMOVAL

See page 17 of this manual.

3. APPLIANCE PREPARATION

Remove the straps from the screws on the hearth pan. Remove the foam material. The log set should look similar to that in Figure 16.

Figure 16
Caliber Log Set
(GBCR36 shown)

4. PLACING THE VERMICULITE AND LAVA ROCK

Place the vermiculite and lava rock around but not on the burner. See Figure 17.

5. PLACING THE ROCK WOOL

Place a small amount of 1/2" diameter pieces (dime-size) of rock wool on the burner pan so that the rock wool touches but does not cover the holes in the burner pan. This will provide the "glowing embers" look. See Figure 17.

6. GLASS AND SCREEN REPLACEMENT

See page 17 of this manual.

WARNING - RISK OF CARBON MONOXIDE!
Never operate this appliance with the glass removed.

WARNING - RISK OF CARBON MONOXIDE!
Do not hit or strike glass. Do not operate this appliance if the glass is broken or cracked.

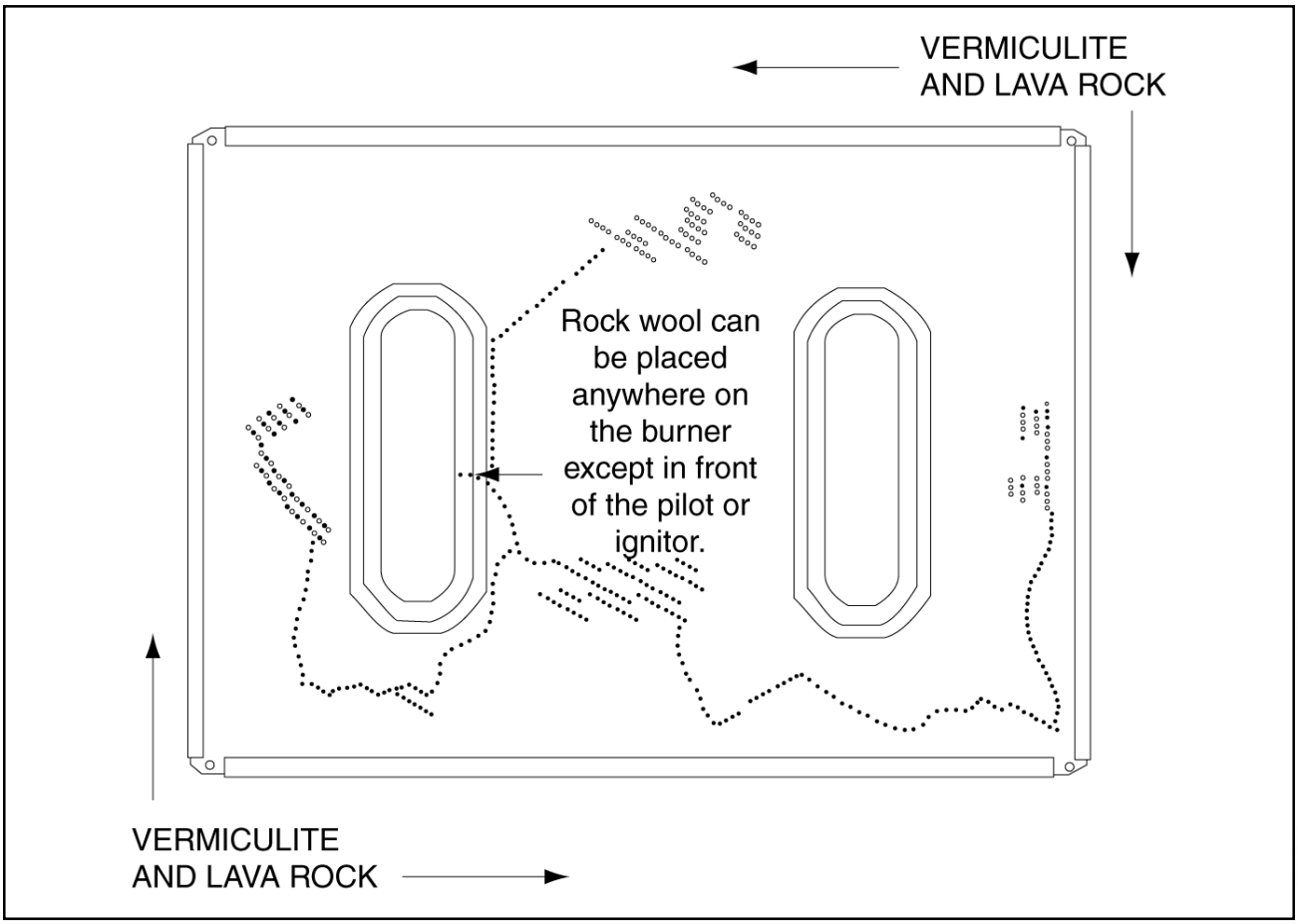


Figure 17
Placing the Vermiculite and Lava Rock
(Logs are removed for clarity).

INSTALLATION IS COMPLETE.

I. DETERMINING THE IGNITION TYPE

To determine whether your appliance is an electronic ignition or a standing pilot ignition, open the control access panel to examine the wiring system. If your system has a red ignitor button, as shown in Figure 18, you own a standing pilot ignition appliance. If no red ignitor button is present, you own an electronic ignition appliance.

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

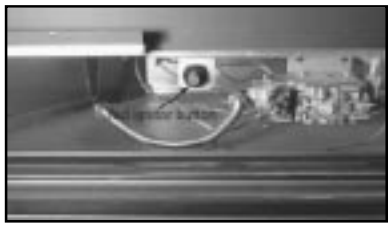


Figure 18
Standing Pilot Ignition

J. LIGHTING INSTRUCTIONS

1. ELECTRONIC IGNITION OPERATION

FOR YOUR SAFETY READ BEFORE OPERATING

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

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

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

WHAT TO DO IF YOU SMELL GAS

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

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

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

LIGHTING INSTRUCTIONS

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

TO TURN OFF GAS TO APPLIANCE

1. Turn off the wall switch.
2. Push gas control lever in and move to the "OFF" position or push gas control lever to the "OFF" position. Do not force.
3. Close the control access panel.

2. STANDING PILOT OPERATION

FOR YOUR SAFETY READ BEFORE LIGHTING THE STANDING PILOT

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

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

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

WHAT TO DO IF YOU SMELL GAS

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

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

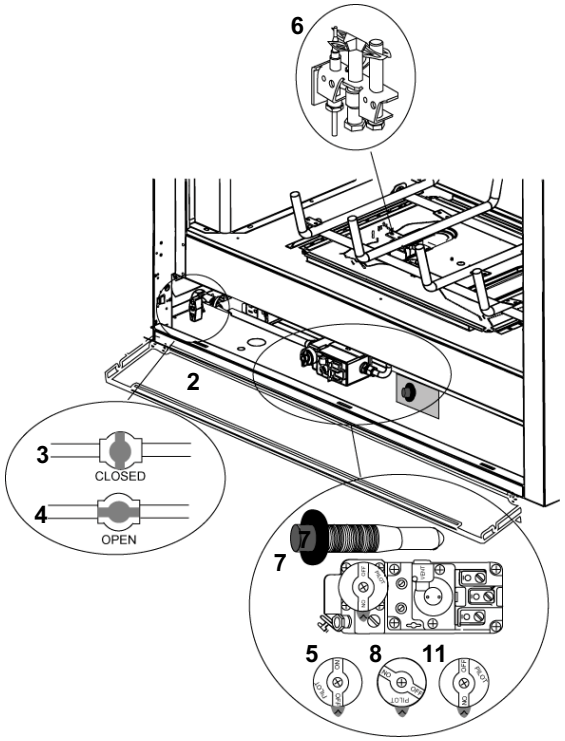
D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which as been under water.

LIGHTING INSTRUCTIONS

STOP! Read the safety information above on this label!

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

Note: To light main burner, turn the Wall Switch to "ON". Do not light by hand.



TO TURN OFF THE GAS TO THE APPLIANCE

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

K. SEASONAL CHECKLIST

WARNING!

Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns or clothing ignition. Young children should be carefully supervised when they are in the same room as the appliance.

CAUTION:

Any safety screen or guard removed for servicing an appliance must be replaced prior to operating this appliance.

Clothing or other flammable material should not be placed on or near the appliance.

Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a qualified service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean.

Before operating this appliance, have a qualified technician:

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

WARNING!

Keep the area near the appliance clear and free from combustible materials, Gasoline and other flammable vapors and liquids.

WARNING!

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

OPERATING THE OUTSIDE AIR KIT

The outside air kit is supplied as an optional feature with this fireplace. The outside air kit helps to decrease the amount of room air taken, by utilizing outside air for combustion. It is strongly recommended that it be installed.

To operate the outside air kit and before starting the appliance, open the control access panel. Locate the outside air door handle and rotate to the open position. See Figure 19).

When you are through burning the appliance, open the control access panel, grasp the handle and rotate to the closed position. Close the control access panel.

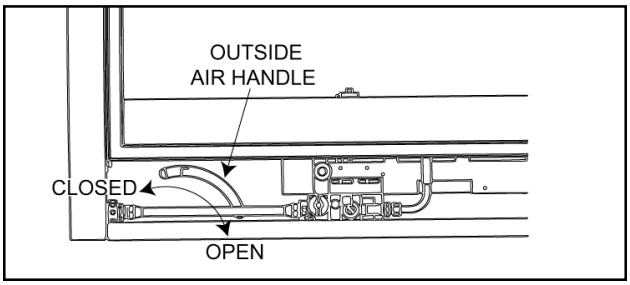


Figure 19 - Operating the Outside Air Door

L. START-UP ISSUES

1. STANDING PILOT OPERATION

Hearth Technologies Inc. (HTI) recommends you leave the pilot on year round.

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

a. Turn all wall switches to “OFF”.

b. Turn pilot knob on valve to “OFF”.

c. Turn the gas line to “CLOSED”.

2. ELECTRONIC IGNITION OPERATION

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

a. Turn all wall switches to “OFF”.

b. Turn the gas line to “CLOSED”.

Lighting the Appliance during Regular Use: Turn the wall switch to “ON”.

Shutdown During Regular Use: Turn the wall switch to “OFF”.

3. FUEL

Do not burn wood or other material in this appliance.

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

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

WARNING!

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

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

WARNING!

Never use gasoline, gasoline-type lantern fuel, kerosene, charcoal lighter fluid or similar liquids in this appliance. Keep any flammable liquids a safe distance from the appliance.

M. MAINTENANCE INSTRUCTIONS

1. CLEANING THE BURNER AND CONTROL COMPARTMENT

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

2. CHECKING THE VENT SYSTEM

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

3. CHECKING FLAME PATTERNS

Check the flame of the burner periodically, making sure the flames are steady, not lifting or floating. The flame color should be blue with yellow tips. See Figure 23. The ignitor (electronic) or thermopile and thermocouple (standing pilot) tips should be covered with flame. See Figures 20 through 22.

If the vent configuration is installed incorrectly, the vent may cause the flames inside the appliance to lift or "ghost" - a dangerous situation. Inspect the flames after installation to ensure proper performance. See Figure 23. If the vent configuration is correct, yet the flames are lifting or ghosting, shut off gas to the appliance and contact the dealer.

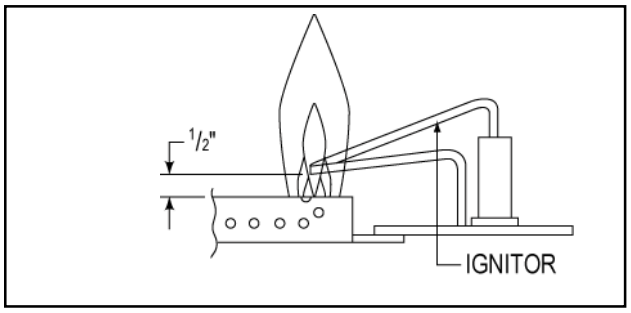


Figure 20 - Electronic Ignition

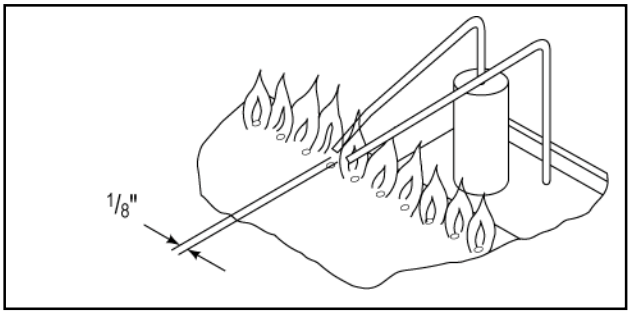


Figure 21 - Electronic Ignition

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

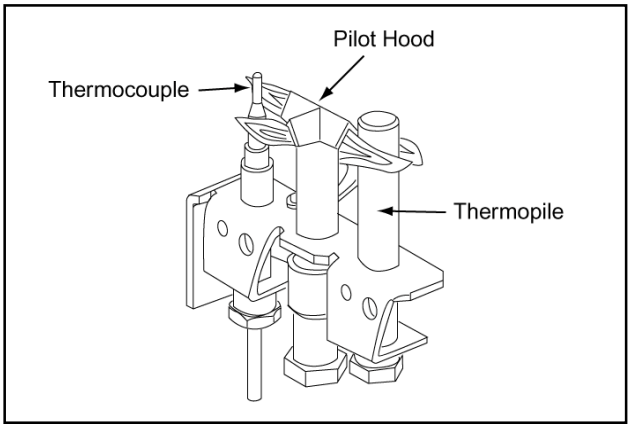


Figure 22 - Standing Pilot

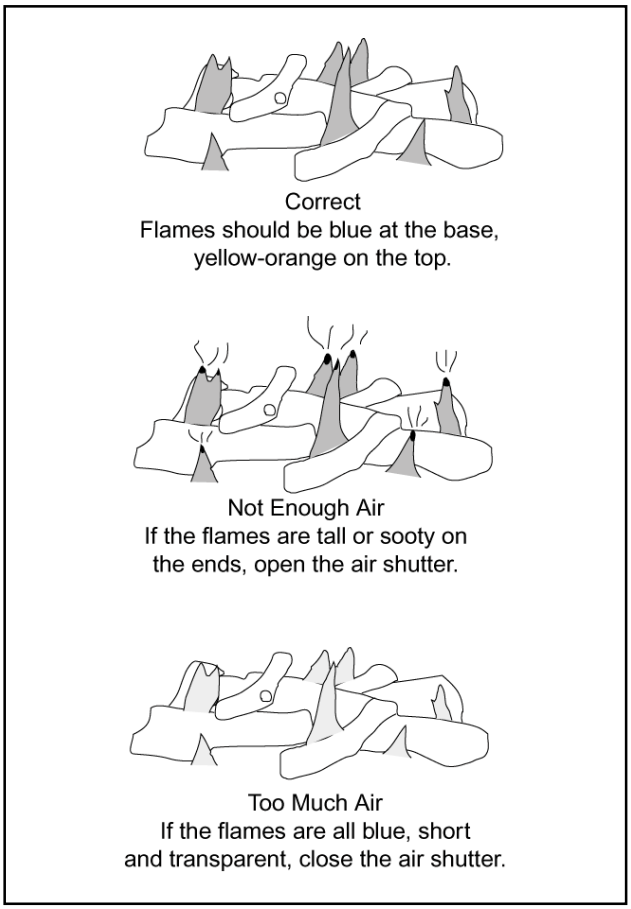


Figure 23 - Flame Patterns

4. CLEANING THE GLASS

See Figure 24.

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

In the event of glass breakage, carefully remove the glass frame. This will allow the removal of all glass fragments and sheet metal edge protection strips. Vacuum all remaining glass pieces with a shop vac.

DO NOT VACUUM IF PIECES ARE HOT! Replace glass with an HTI glass panel assembly only, ordered direct or through your local distributor. Never use substitute material. Only fully tempered soda lime safety glass or ceramic glass may be used on this appliance.

Safety Note:

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

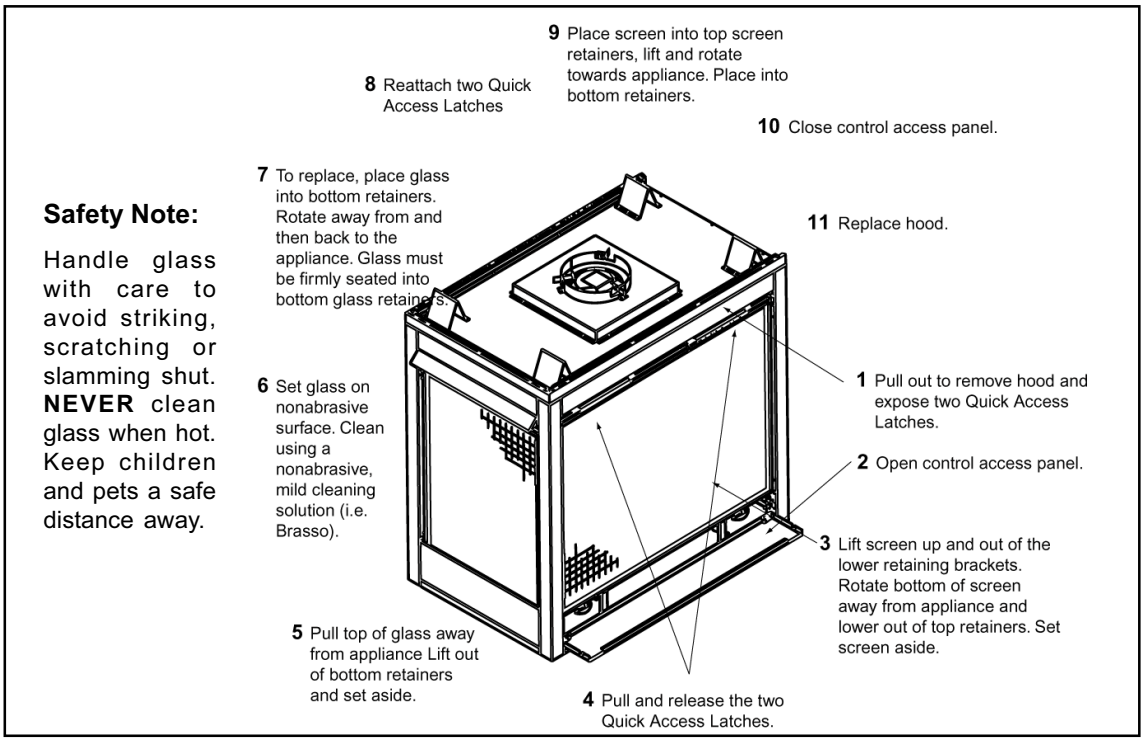


Figure 24 - Glass Cleaning

5. LOG REMOVAL/REPLACEMENT

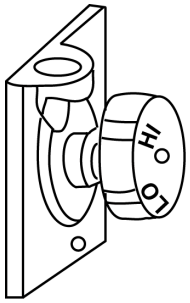
If removal of the logs becomes necessary, remove the four screws at each end of the grate. Grasp the grate as shown. Pull the log up and off the burner. See Figure 25.

To replace the logs, grasp the grate as shown. Lower the log set onto the burner pan, making sure the grate bars drop into holes provided. Attach the four screws at the end of the grate.

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

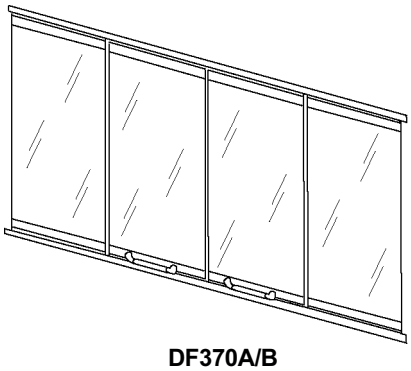
Figure 25 - Log Removal

N. OPTIONAL COMPONENTS



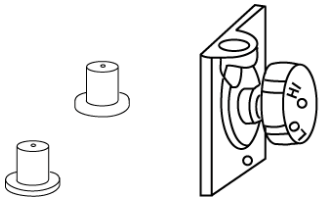
MF1
Adjustable Flame Head
(Natural Gas Standing Pilot)

MF2
Adjustable Flame Head
(Propane Gas Standing Pilot)



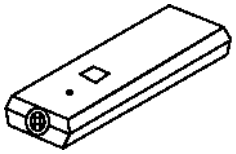
DF370A/B
(Fixed End Panel - Antique or Bright Brass)

DF318A/B
(Fixed Doors - Antique or Bright Brass)



CKVP
Natural Gas to Propane
Standing Pilot Conversion Kit

CKVN
Propane to Natural Gas
Standing Pilot Conversion Kit



RC-SMART-HTL
Remote Control (standing pilot)

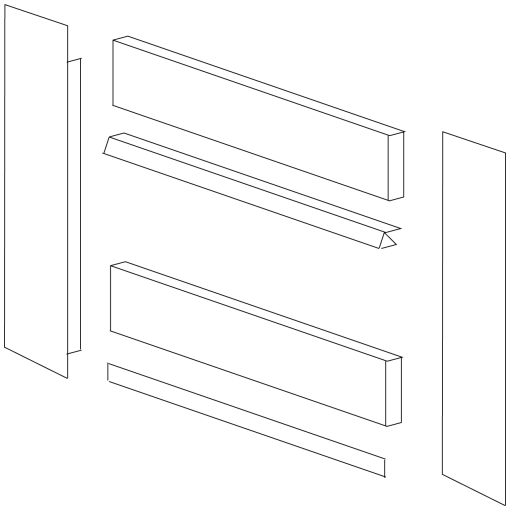
RC-ELEC-HTL
Remote Control (electronic ignition)

RC-BATT-HTL
Battery-operated remote control (standing pilot)

RCT-MLT-HTL
Multi-Function Remote Control

SMART-STAT-HTL
Remote Control with Thermostat Control

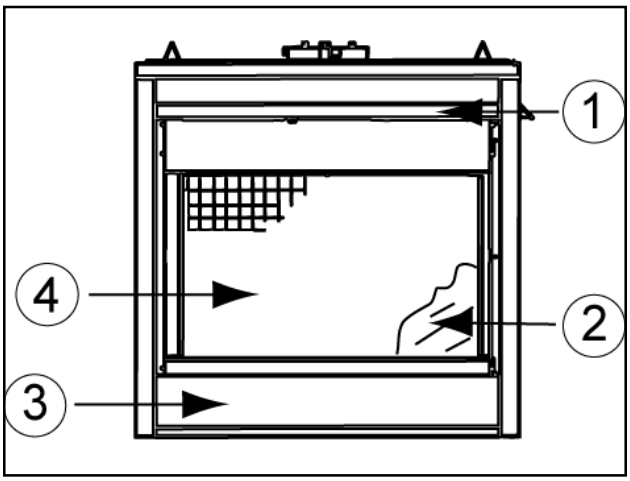
SMART-BATT-HTL
Battery-operated Remote Control with Thermostat Control

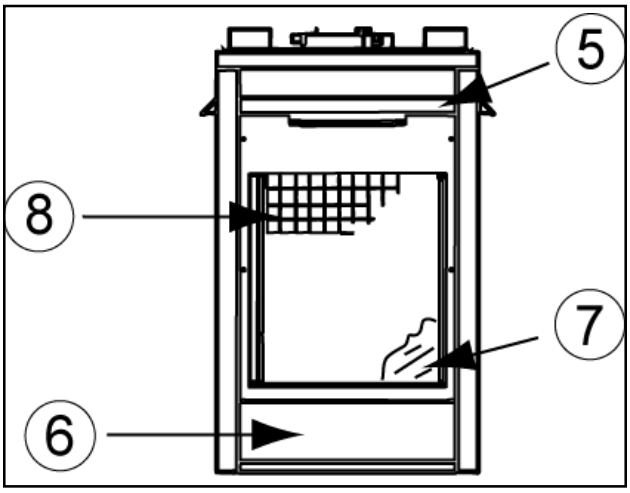


TKS3A/B, TKFL3A/B, TKCR3A/B,
TKCL3A/B, TKIS3A/B
TKD5A/B
Brass Trim Kits

O. REPLACEMENT PARTS

Replacement parts are available from you distributor/dealer.





ITEM	PART #	DESCRIPTION
1	27658	Front Hood
2	26155	Front Glass Assembly
3	25893	Control Access Door
4	26161	Front Screen Assembly
5	27659	Side Hood
6	25913	Lower End Face
7	26158	End Glass Assembly
8	26164	End Screen Assembly
9	27066	Quick Access Latches (not shown)
10	27793	Grate/Log Assembly
11	25912	Lower Rear Panel (not shown)

#10 - Grate/Gas Log Assembly

Homeowner's Notes

Homeowner's Notes

Homeowner's Notes

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The first name in fireplaces

heatilator®
The first name in fireplaces

Gas Appliance (Fireplace)
Limited Lifetime Warranty

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

Limited Lifetime Warranty.

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

1 Year Limited Warranty.

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

Conditions, Exclusions, & Limitations of Liability.

A. Both the Limited Lifetime and 1 Year Limited Warranties supplied by HTI apply only while the Appliance is in its location of original installation. HTI's obligation under this warranty does not extend to damages resulting from (1) installation, operation or maintenance of the Appliance not in accordance with the Installation Instructions, Operating Instructions, and the Listing Agent Identification Label furnished with the Appliance; (2) installation which does not comply with local building codes; (3) shipping, improper handling, improper operation, abuse, misuse, accident or unworkmanlike repairs; (4) environmental conditions, inadequate ventilation or drafting caused by tight sealing construction of the structure, air handling devices such as exhaust fans or forced air furnaces, or other causes; (5) use of fuels other than those specified in the Operating Instructions; (6) installation or use of components not supplied with the Appliance or any other components not expressly authorized and approved by HTI; and/or (7) modification of the Appliance not expressly authorized and approved by HTI in writing. This warranty is limited to only the component parts manufactured or supplied by HTI.

B. HTI's liability under both the Limited Lifetime Warranty and the 1 Year Limited Warranty is limited to the replacement and repair of defective components or workmanship during the applicable period. HTI may fully discharge all of its obligations under such warranties by repairing the defective component(s) or at HTI's discretion, providing replacement parts at no charge and paying reasonable labor and freight costs.

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

D. Some states do not allow exclusions or limitations of incidental or consequential damages, so those limitations may not apply to you. This warranty gives you specific rights; you may also have other rights which vary from state to state.

How to Obtain Service.

To obtain service under this warranty you must:

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

ADDITIONAL INFORMATION. If you would like information on current HEATILATOR products or want to locate a dealer in your area, call 1-800-843-2848.