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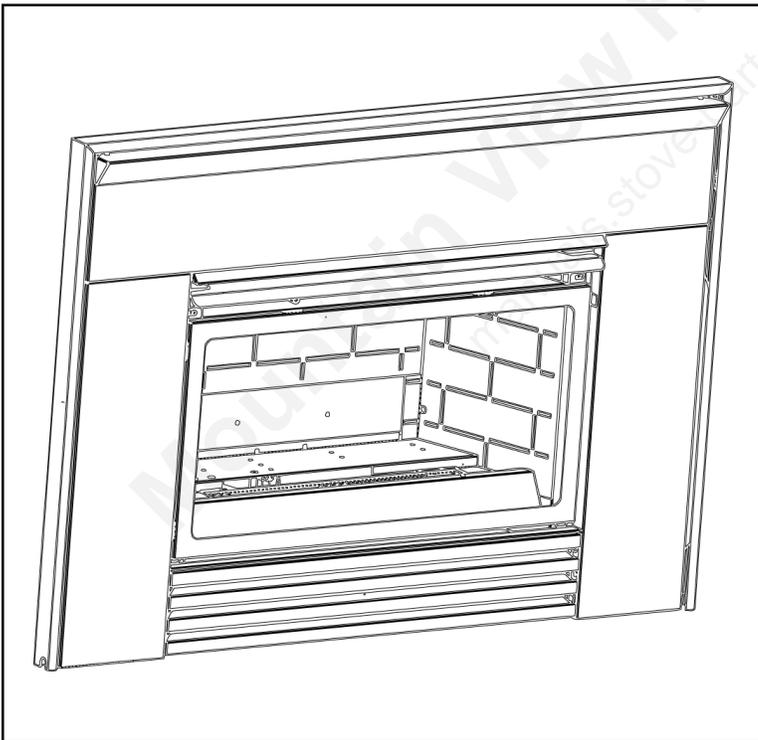
The first name in fireplaces

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THE GBi25 SERIES

B-VENT GAS FIRED FIREPLACE INSERT ROOM HEATER INSTALLATION & OPERATING INSTRUCTIONS

This manual must be used for installation of the GBi25 series B-Vent Gas Fired Fireplace Insert and retained by the homeowner for operation and maintenance instructions.



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.

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.

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

SAFETY PRECAUTIONS

1. Please read these installation instructions completely before beginning installation procedures. Failure to follow them could cause a malfunction resulting in serious injury and/or property damage.
2. Installation and repair should be done by a qualified service person. This appliance should also be inspected annually by a qualified service person. More frequent inspections/cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that the control compartment and burners of the appliance be kept clean.
3. The GBI25 is a vented gas appliance. Do not burn wood or other material in this appliance.
4. NEVER leave children unattended when there is a fire burning in the fireplace.
5. This appliance must be vented with a minimum 4" B-Vent system and must terminate above the roof line. Venting **must not be connected** to a chimney flue servicing a solid fuel burning appliance.
6. Use only the fuel gas specified on the rating label of this gas appliance.
7. The appliance area shall be kept clear and free from combustible materials, gasoline and other flammable vapors and liquids.
8. While servicing this appliance, always shut off all electricity and gas to the appliance. This will prevent possible electrical shock or burns. Also, make sure the fireplace is completely cooled before servicing.
9. 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.
10. Be sure to provide adequate clearances around the air openings into the combustion chamber and adequate accessibility clearances for servicing and proper operation.
11. Provisions shall be made to provide adequate combustion and ventilation air. The flow of combustion and ventilation air should not be obstructed.

A. LISTINGS AND CODE APPROVALS

U.S. AND CANADA CERTIFICATION

This appliance has been tested in accordance with ANSI Z21.11.1-1991, CAN/CGA 1-2.1-MB6 and applicable sections of ANSI Z21.50-1996 CAN/CGA 2.22-M96 and has been LISTED by Underwriters Laboratories Inc. for installation and operation as described in these Installation and Operating Instructions. All components are UL, AGA, CGA or CSA safety certified.

in accordance with local codes; in the absence of local codes, with the current National Electric Code ANSI/FNPA No. 70 (in the U.S.A.) or with the current CSA C2.1 Canadian Electric Code in Canada.

LOCAL CODES

Check with your local building code agency prior to installing this appliance to ensure compliance with local codes, including the need for permits and follow-up inspections. This installation must conform with local codes or, in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1-latest edition in the U.S.A. and the CANI-B149-latest edition in Canada. The appliance, when installed, must be electrically grounded

FUEL

Any additions, changes or conversions required in order for the appliance to satisfactorily meet the application needs, must be made by a qualified service technician using factory specified and approved parts.

If you require assistance during installation, please contact your local dealer or the Heatilator Technical Services Department, Hearth Technologies Inc., 1915 W. Saunders Street, Mt. Pleasant, Iowa 52641 (1-800-843-2848).

HEATILATOR® is a registered trademark of Hearth Technologies Inc. (HTI), a division of HON INDUSTRIES.

B. DESCRIPTION OF THE SYSTEM

The GBI25 Series is a B-vent gas-fired room heater. Combustion air is supplied from inside the house.

This HEATILATOR system must consist of the following:

1. Appliance
2. B-Vent Venting System
3. Termination
4. Surround

We strongly recommend that you DO NOT install B-Vent Gas Appliances in strong negative air locations, such as a basement or a public facility. Living rooms with cathedral ceilings could be susceptible to a negative air situation, but such installations can be overcome through raising the termination, depending on specific installations. This fireplace uses room air for normal operation and could have problems establishing a positive draft in negative air locations. In lieu, we recommend a direct vent appliance.

Tools and building supplies normally required for installation:

Saw	Wall-finishing materials
Pliers	Framing material
Hammer	Surround
Phillips screwdriver	Caulking material
Tape measure	Safety gloves
Plumb line	Electric drill/bits
Level	Framing Square

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

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

HIGH TEMPERATURE SEALANT MATERIAL

Sealants that will withstand high temperatures: General Electric RTV103 (Black), or equivalent. Rutland, Inc. Fireplace Mortar #63 or equivalent; Dow Corning 732 or equivalent.

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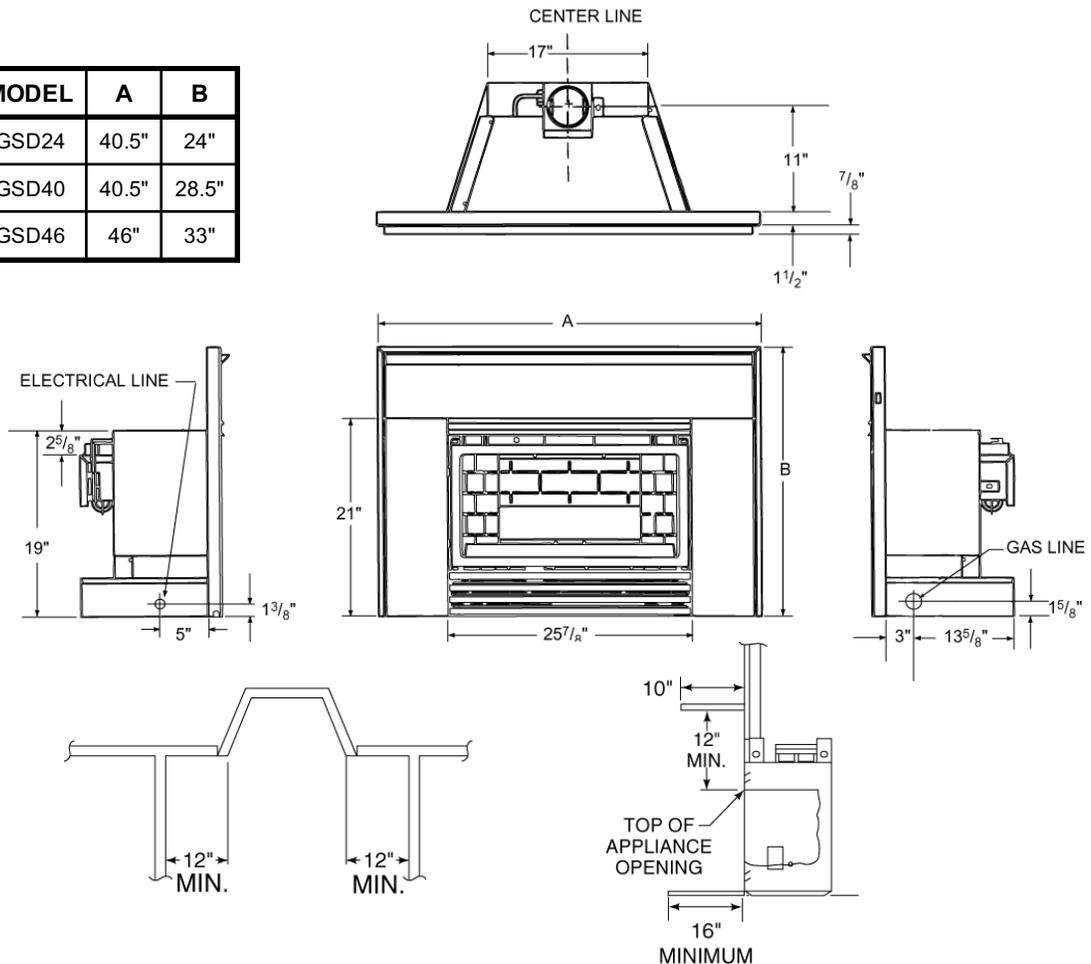
C. SYSTEM COMPONENTS

The table below is a list of only those components which may be safely used with this gas-fired fireplace insert.

Catalog Number	Description
GBi25	B-Vent Gas-Fired Insert - Natural Gas, Standing Pilot
GBi25L	B-Vent Gas-Fired Insert - Propane Gas, Standing Pilot
GSD24	Small Surround (24" H x 40-1/2" W) With Trim
GSD40	Medium Surround (28-1/2" H x 40-1/2" W) With Trim
GSD46	Large Surround (33" H x 46" W) With Trim
CKVP	Conversion Kit to Propane Gas
CKVN	Conversion Kit to Natural Gas

D. DIMENSIONS AND CLEARANCES

MODEL	A	B
GSD24	40.5"	24"
GSD40	40.5"	28.5"
GSD46	46"	33"



MANTEL

A combustible mantel may be positioned no lower than 12" above the top of the appliance opening of the existing fireplace. The combustible mantel may have a maximum depth of 10". Combustible trim materials, such as a surround or mantel support brackets, protruding no more than 1-1/2" from the face of the existing fireplace, can be placed no closer than 6" from any edge of the surround.

E. PRE-INSTALLATION PREPARATION

Installation and repair should be done by a qualified service technician. The appliance should be inspected before use and at least annually by a qualified service technician. 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.

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

WARNING!

This appliance may use the B-vent chimney system only and must not be connected to a chimney flue servicing a separate solid fuel burning appliance.

This appliance must be installed on a noncombustible, flat, solid, continuous surface (i.e. fireplace hearth.)

WARNING!

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

1. GAS PRESSURE

For natural gas, the minimum inlet gas supply pressure is 4.5 inches water column (w.c.), and the maximum inlet gas supply pressure is 7.0 inches w.c. Input rate is 17,000 to 22,000 Btu/hr. For propane gas, the minimum inlet gas supply pressure is 11.0 inches w.c. and a maximum 14.0 inches w.c. Input rate is 15,000 to 22,000 Btu/hr.

Manifold pressure for this appliance is 1.7 - 3.5 inches w.c. for natural gas and 5.4 - 11.0 inches w.c. for propane gas. This appliance has a variable adjust manifold.

Input (line) and output (manifold) pressure taps are located at the front of the gas control valve near the variable regulator for test gauge connection with a 3/8" diameter hose.

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 gauge connection.

When installing this appliance at an elevation above 2000 feet, it may be necessary to decrease the input rating by changing the existing burner orifice to a smaller size. Input should be reduced 4% for each 1000 feet above sea level. Check with the local gas utility for proper orifice size identification and to see if the gas in your area has been deregulated. This appliance is shipped with a .093 in./2.36 mm. orifice size on natural gas versions and a .056 in./1.42 mm. orifice size on propane gas versions.

Canadian Installation: 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.

Consult your local gas company for assistance in determining the proper orifice for your location or refer to ANSI Z23.1-latest edition, Appendix F.

2. HIGH ALTITUDE INSTALLATION

U.S. Installation: Appliances are tested and approved for elevations from 0-2000 feet (0-610m).

3. COMPONENTS

Before installing this appliance, it may be necessary to remove the smoke shield, ash lip, refractory, damper blade, etc. If removed, the label referenced on page 7 MUST be affixed to the existing fireplace prior to installation.

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F. STEP-BY-STEP INSTALLATION OF THE SYSTEM

WARNING!

Before starting, do the following:

1. Wear gloves and safety glasses for protection.
2. Keep hand tools in good condition. Sharpen cutting edges and make sure tool handles are secure.
3. Always maintain the minimum air space required to the enclosure to prevent fire.

WARNING!

This appliance is equipped with a safety control system designed to protect against improper venting of combustion products. Operation of this appliance when not connected to a properly installed and maintained venting system, or tampering with a vent safety shut-off system can result in carbon monoxide (CO) poisoning and possible death.

1. VENTING REQUIREMENTS

A flue liner from the outlet of the draft hood to the roof termination is required. This appliance is required to be connected to a listed 4" diameter, stainless steel or aluminum flexible gas vent liner with a top termination. A 4" B-Vent or listed 4" rigid single wall gas vent may also be used.

Before attempting to run your flue liner, you must make sure that it will pass through the existing damper area; this is best done with a flexible liner. In a zero clearance (factory built) fireplace, the existing damper must be removed or locked out of the way in the open position. For masonry fireplaces, if the damper will not allow the passage or a 4" flex, do not proceed without consulting a local mason on how to remove or alter the damper without risk of structural damage or leakage.

A minimum vertical venting height of 9 feet above the base of the appliance must be maintained. The horizontal run must not exceed 50% of the vertical height. Maximum vertical venting height is 40' above the base of the appliance. The vent termination must be in accordance with its respective listing and manufacturer's instructions.

Install 4" flue liner down through the chimney. When using flexible liner, use caution around the offsets so as not to rupture the liner. Measure up 16" from the existing fireplace bottom and leave hanging in fireplace.

2. GAS LINE INSTALLATION

A gas line must run into the existing woodburning fireplace, for either a factory built or masonry fireplace. If it is a factory built fireplace, the gas line should be

brought into the fireplace through the gas knockouts provided.

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 the 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).

It is recommended that 1/2" inside diameter black pipe be run into the fireplace through the right side. If the existing fireplace already has gas run to it, but through the left side, it is recommended that the gas be rerouted to the right side. See Figure 1.

Place an elbow at the end of the black pipe so that it runs perpendicular to the face. A 1/3" flare adapter (not supplied) is necessary to connect the flex line (supplied) to the black pipe.

Check for leaks using a soap and water solution or a leak detector.

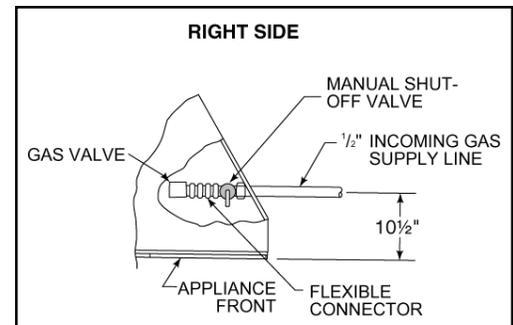


Figure 1 - Gas Line Installation

Seal with high temperature silicone at the point where the gas line enters the existing fireplace to prevent cold air infiltration.

This fireplace has been altered to accommodate an insert and should be inspected by a qualified service technician prior to re-use as a conventional fireplace.

Label

Note: The above label, located in the instruction package, must be affixed to the existing fireplace prior to installation of the GBI25 Gas Fired Fireplace Insert.

3. APPLIANCE INSTALLATION

a. Firebox Entry

To gain access to the draft hood, remove the two screws located in the upper corners of the glass frame. See Figure 2.

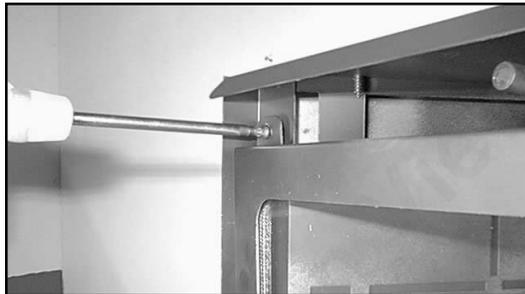


Figure 2 - Firebox Entry

Rotate glass frame forward and lift out. See Figure 3.



Figure 3 - Glass Frame Removal

Handle the glass frame with care to avoid striking or scratching it on hard objects or slamming it shut.

Remove the two screws on the baffle, as shown in Figure 4. To remove the draft hood, unscrew

the four screws located around the exhaust opening. See Figure 5. Slide the draft hood out of the appliance and attach draft hood to flex liner in appliance with a minimum of three sheet metal screws. A 4" diameter hose clamp may also be used. See Figure 6.

The draft hood must be installed so as to be in the same atmospheric pressure zone as the combustion air inlet to the appliance and shall be located so that the relief opening is accessible for checking vent operation.

Pack the area at the damper with noncombustible insulation to prevent cold air infiltration into the fireplace cavity.



Figure 4 - Baffle Removal



Figure 5 - Draft Hood Removal



Figure 6 - Draft Hood Attachment

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b. Installation of Appliance

- 1) The appliance should be set on a level surface. Located on the bottom pan of the appliance are two 5/16-18 nuts. Bolts (provided) may be used for leveling purposes.
- 2) Place appliance on hearth and slide the appliance into the fireplace. Position the draft tube in the hold located on the back. Reach through the exhaust hole and grab the draft hood. See Figure 7. Continue to slide appliance back until draft hood is in position. Reinstall four screws around the exhaust hole.

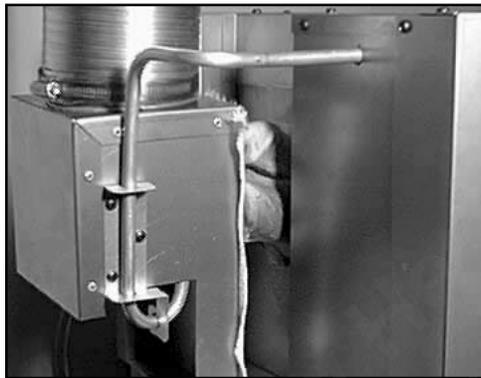


Figure 7

- 3) Place the flex line through the gas line access hole on the right side and connect it to the manual shutoff valve. Turn on the gas and check for leaks with a soap and water solution or a gas leak detector. If a leak is detected, tighten the fitting and recheck all joints.
Reinstall the baffle with two screws.

c. Surround Installation

- 1) Carefully remove the surround parts from the shipping carton. Attach the surround top to each side with two screws provided. See Figure 8. Located on the surrounds is a bend tab used to cover the switch leads. For Model

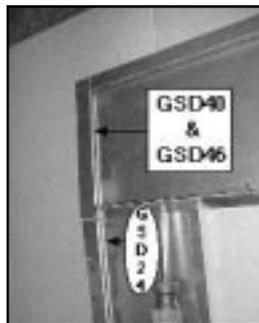


Figure 8 - Attach Surround Top

GSD24, the bend tab is located on the top of the right surround side. For Models GSD40 and GSD46 the bend tab is located on the right side of the top surround. Use a pair of pliers to bend the tab forward. See Figure 8.

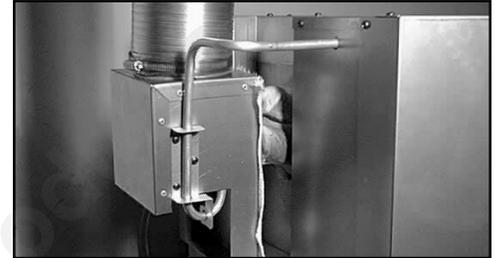


Figure 9 - Installation of Surround Hood



Figure 10 - Installation of Surround Hood

- 2) For zero clearance fireplaces or fireplaces with combustible material within 12 inches of the firebox opening, it is required to use the surround hood (black). This hood is not required for masonry fireplaces. To install the surround hood, bend the tabs down, as shown in Figure 9. Place the tab through the slots in the surround top and bend the small tab over. See Figure 10.
- 3) Place three screws in the surround top and slide the brass hood over the screws. Remove the plastic coating on brass before securing. See Figure 11.
- 4) Assemble the brass trim with brackets provided, as shown in Figure 12. Slide the brass trim on the surround (Figure 13).
- 5) To install the surround, place hooks on the surround side into slots located on the column (Figure 14).
- 6) Locate the electrical cord on the left side of the appliance and route it through the surround and trim. Make sure that the electrical cord is routed away from the appliance.

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WARNING!
ELECTRICAL GROUNDING INSTRUCTIONS

This appliance is equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug.



Figure 14 - Installation of Surround Hood

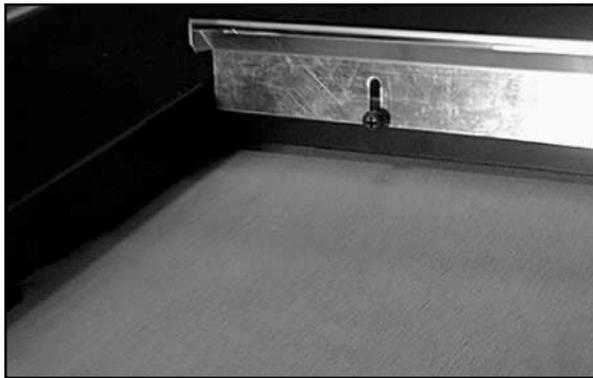


Figure 11 - Installation of Hood

- 7) DO NOT PACK INSULATION INSIDE THE SURROUND.
- 8) Remove the switch from wire assembly and feed wire through the brass trim. See Figure 15. Re-install the switch to the wires and push into place. See Figure 16.

Important: Remove all shipping material, fingerprints and smudges from the brass trim prior to burning the appliance. If this is not done, they will be burned into the trim.

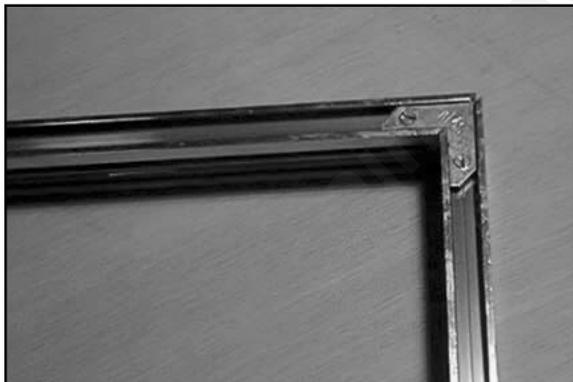


Figure 12 - Assemble Brass Trim



Figure 15 - Installation of ON/OFF Switch



Figure 13 - Installation of Surround Hood



Figure 16 - ON/OFF Switch in Surround Installed

d. Rock Wool Placement

The log set is shipped in place. Tear the rock wool into pieces no larger than 1/2" diameter. Place the rock wool in front of the flange located in the middle of the burner. Do not place the rock wool behind or above the 3/8" flange. This will block the air slot and cause carbon desposits on the log. Place the rock wool on both the left and right sides to complete the burning ember look. It is not necessary to use the entire bag. See Figure 17.

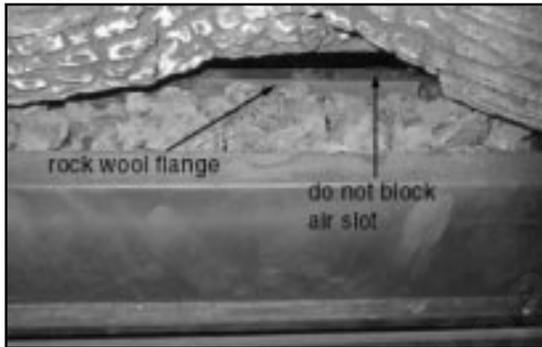


Figure 17 - Rock Wool Placement

Note: Placement of the rock wool should be done with care and time, as this will create the look of the fire when burning.

e. Glass Frame Installation

- 1) When cleaning the glass, use only non-caustic, non-abrasive cleaners. DO NOT ATTEMPT TO CLEAN HOT GLASS. It is dangerous, and the glass is more likely to be stained by the cleaning agent. Stubborn film can often be removed using Brasso® or a non-abrasive cleaner.
- 2) After cleaning the glass, position the tabs on the glass frame into the slots on the column of the appliance. Hold door in place and secure with screws removed earlier. Be careful not to over-tighten.

WARNING!

Never operate this appliance with the glass removed or not sealed.

f. Brass Trim Cleaning

All prints and smudges must be wiped clean from the brass trim prior to initial burn. If this is not done, these prints will be cured into the brass finish and set for the life of the appliance. To keep the finish looking its best, gently wipe with a soft cloth after the appliance has had ample time to cool down. If desired, use a non-abrasive cleaner such as soap and water. **Never** use any solvent, thinner or abrasive cleaner since these will damage the finish.

g. Valve Access

The valve is located behind the control access panel. Lift the panel up and rotate forward. See Figure 18. This will expose the gas valve, variable regulator and fan control, as shown in Figure 19.



Figure 18 - Valve Access

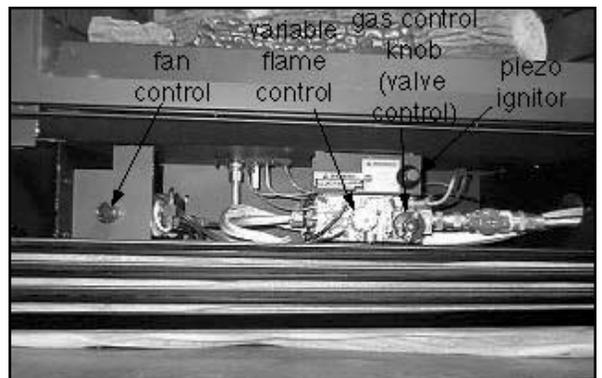


Figure 19 - Gas Valve, Variable Regulator & Fan Control

WARNING!

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

h. Firebox Bottom Removal

- 1) Shut off the gas to the appliance before removing. Remove the glass frame following instructions found in Step 3a. on page 7.
- 2) Remove the two screws on the log assembly (Figure 20). Pull out the log assembly (Figure 21) and place in a safe area. Remove the four screws located around the firebox bottom. See Figure 22.
- 3) To re-install the firebox bottom, reverse the above steps.



Figure 20 - Log Assembly Removal



Figure 21 - Log Assembly Removal

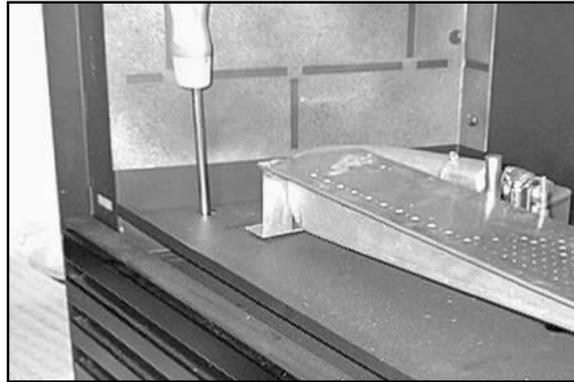


Figure 22 - Firebox Bottom Removal

i. Fan Access

- 1) **Disconnect the power cord or turn off the circuit breaker before removing the fan.** Remove the firebox bottom following directions in Step 3h.
- 2) Remove the four screws located on the fan bracket (Figure 23). Remove two on the fan control. Remove the bushing and unplug the cord from the junction box. Slide the fan bracket out.
- 3) To re-install fan, reverse the above steps.

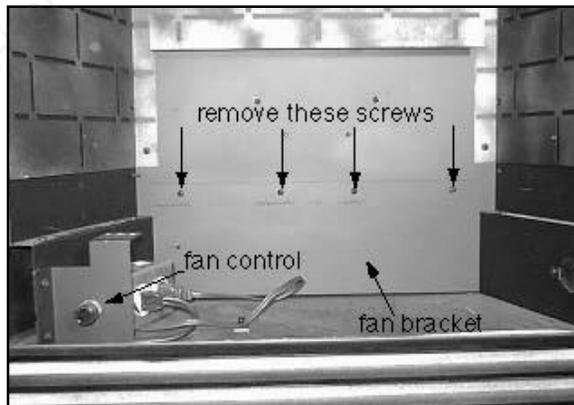


Figure 23 - Fan Removal

WARNING!

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.

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4. WIRING

- a. A 110V AC outlet should be located close to the lower left side of the appliance to allow the fan to be plugged in. See Figure 24.

Note: This appliance **REQUIRES** a 110V AC supply for operation of the fan.

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. This appliance can be used with a thermostat.

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

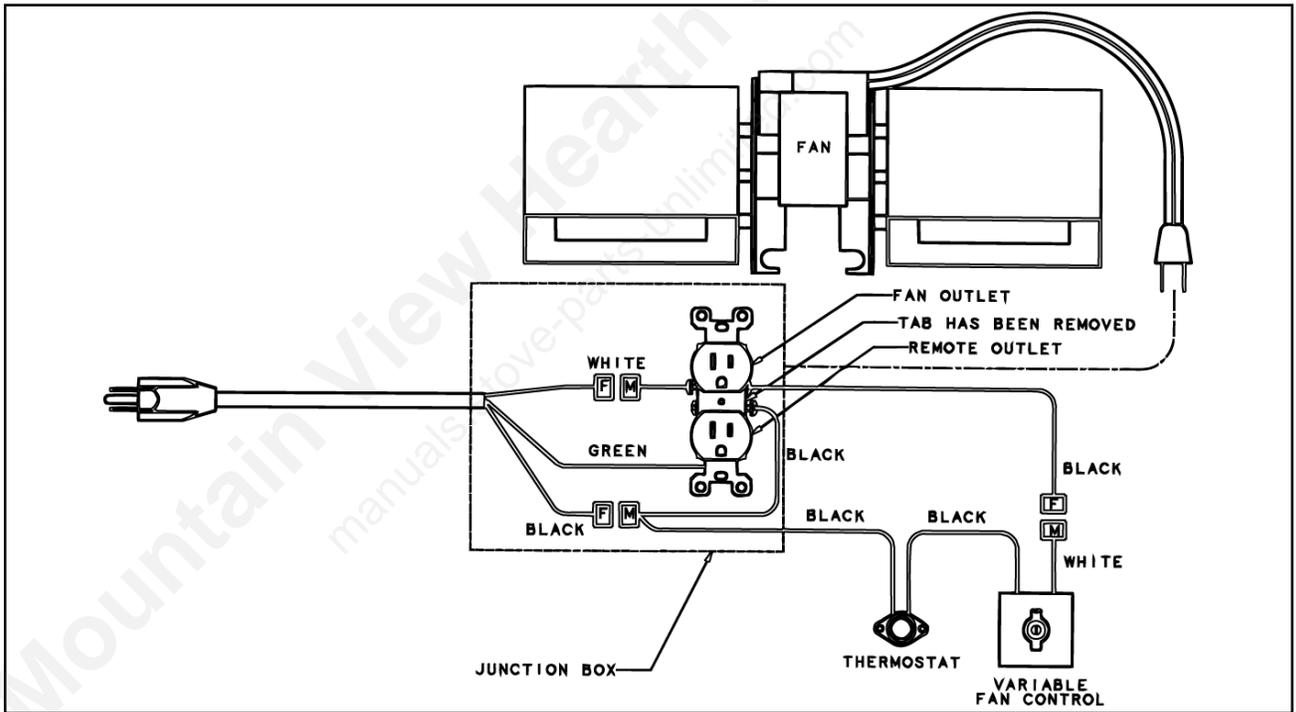


Figure 24 - Wiring Diagram

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

b. Optional Wall Thermostat

The use of a millivolt thermostat is allowed. It must be located within 20 feet of the appliance. Figure 25 shows how to connect the thermostat.

Remove ON/OFF switch wires from valve. Place thermostat wires to the posts marked TH and TH/TP.

Note: The ON/OFF switch now becomes inoperable.

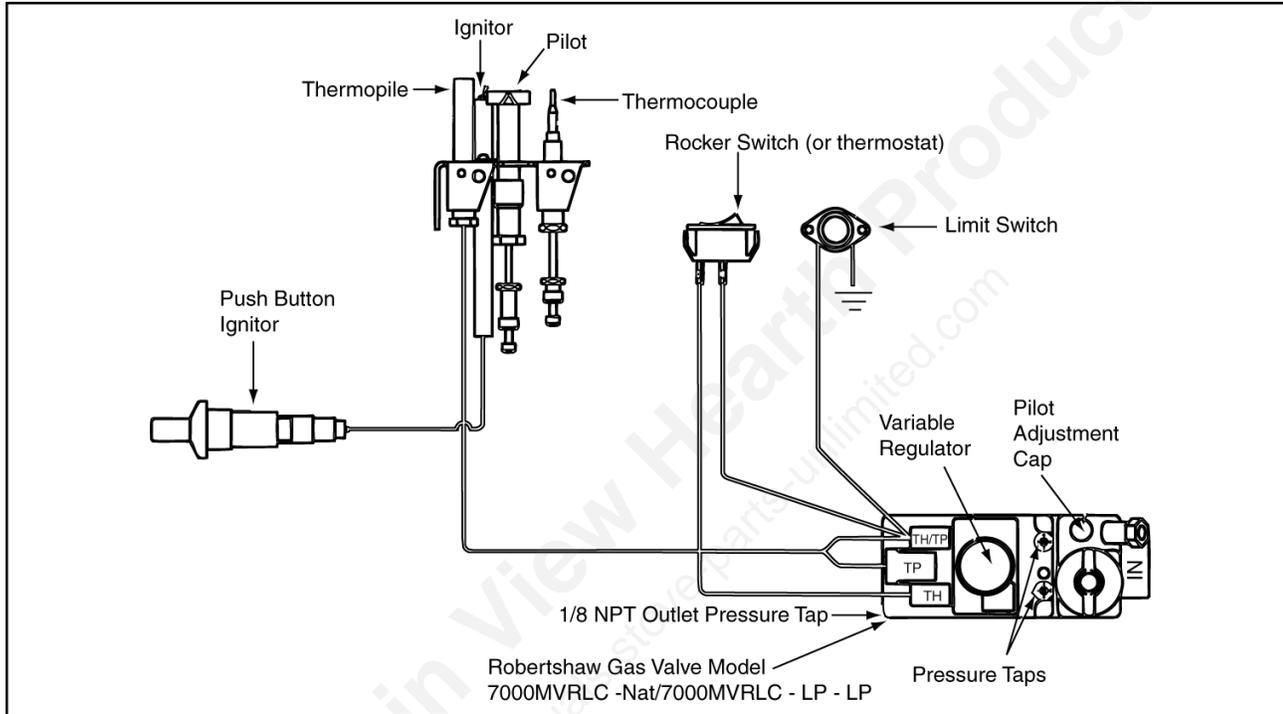


Figure 25 - Wiring Diagram

5. PRE-USE CHECKLIST

Use the following checklist as a guide to be sure your installation is correct and complete

- Operating instructions have been read and understood.
- All safety warnings have been read and followed.
- Flex liners and termination cap are properly installed
- Logs and rock wool have been placed correctly.
- All fittings are tight and there are no gas leaks.
- Glass is in proper position and sealed.
- Prints and smudges are wiped from brass trim.
- Check air shutter adjustment.

Note: The fan will not turn on until the appliance has reached its proper operating temperature. This is determined by a thermal disc in the fan assembly. Also, the fan will continue to run until the appliance has cooled sufficiently after shutdown.

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

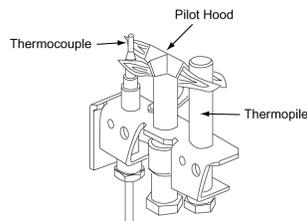
G. OPERATING INSTRUCTIONS

FOR YOUR SAFETY READ BEFORE LIGHTING

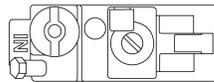
1. This gas appliance has a manual ignition device that lights the pilot. When lighting the pilot, follow these instructions exactly.
2. **STOP! BEFORE READING FURTHER**, smell around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle to the floor.
3. **WHAT TO DO IF YOU SMELL GAS:**
 - Do not try to light the appliance.
 - Do not touch any electrical switch; do not use any telephone in your building.
 - Immediately call your gas supplier from a neighbor's telephone. Follow the instructions of your utility.
- If you cannot reach your utility, call the fire department.
4. If the pilot light and burner went out during use, you must take the glass off the appliance and wait to clear out any gas. Follow the lighting instructions below.
5. Use only your hand to push in or turn the gas control knob to light the pilot. Never use tools. If the knob will not push in or turn by hand, do not try to repair it; call a qualified service technician. Using a tool or attempting repairs may result in a fire or explosion.
6. 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 that has been under water.

LIGHTING INSTRUCTIONS

1. **STOP!** Read the safety information above.
2. Turn off all electric power to the appliance. If your appliance has a thermostat, set to lowest setting.
3. Open control access panel.
4. Find the pilot. The pilot is inside the combustion chamber next to the main burner.
5. If the gas control knob is at the "OFF" position, go to step 7. If the gas control knob is at the "ON" position, go to step 6.



6. If the pilot light went out during normal use with the gas control knob at the "ON" position, turn the gas



control knob to the "OFF" position. **REMOVE THE FIXED GLASS PANEL.** Wait ten minutes to clear out any gas.

7. Smell for gas, including near the floor. If you don't smell gas, go to the next step. If you smell gas, wait

another five minutes or until the gas odor is no longer present before continuing. If the odor of gas does not disappear after fifteen minutes, **STOP!** Follow "B" in the safety information above.

8. Replace glass panel if it has been removed.
9. Turn gas control knob counterclockwise to the "PILOT" position.
10. Push the gas control knob in all the way and hold. At the same time, push in the red ignition button repeatedly until the pilot lights. Never hold the gas control knob in for more than ten seconds if the pilot does not light. Once the pilot lights, continue to hold the gas control knob in for 15 seconds. Release the gas control knob and it will pop back up. If pilot does not remain lit, repeat steps 6 through 9.

If gas control knob does not pop back up when released, turn the knob to "OFF" and call your service technician or gas supplier.

If the pilot will not stay on after two attempts, turn the gas control knob to "OFF" and call your service technician or gas supplier.

11. Turn gas control knob counterclockwise to the "ON" position. The knob can be turned to the "ON" position only if it is popped out.
12. Close the access panel.
13. Turn on electrical power to the appliance. If equipped with a thermostat, set to the desired setting.

TO TURN OFF GAS TO APPLIANCE

1. Turn rocker switch to "OFF" or the wall thermostat to lowest setting if your appliance is so equipped.
2. Turn off all electric power to the appliance if service is to be performed.
3. Open control access panel.
4. Turn gas control clockwise to "OFF".
5. Close control access panel.

1. OPERATION PROCEDURE DURING REGULAR USE

Turn the switch/thermostat to the ON position. This will ignite the main burner.

2. SHUTDOWN DURING REGULAR USE

Simply turn the switch/thermostat to OFF. This will disengage the burner and the flames will extinguish.

3. SEASONAL SHUTDOWN

When the burning season comes to an end, the entire system should be shut down to prevent gas running to the appliance while it is not in use.

4. FAN OPERATION

The fan control is located behind the control access panel. Lift the panel up and rotate forward. Locate the fan control knob and turn. See Figure 18. Close the control access panel.

5. CHECKING FLAME PATTERNS

Check the flame pattern of the burner periodically, making sure the flames are steady, not lifting or floating. The flame color should be blue with yellow tips. The thermopile tip should be covered with flame. See Figures 26 and 27.

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. If the vent configuration is correct, yet the flames are lifting or ghosting, shut off gas to the appliance and contact the dealer for information on remedying the problem.

Note: If the air shutter is open all the way and the flames remain sooty, shut off gas to the appliance and contact a qualified service technician.

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.

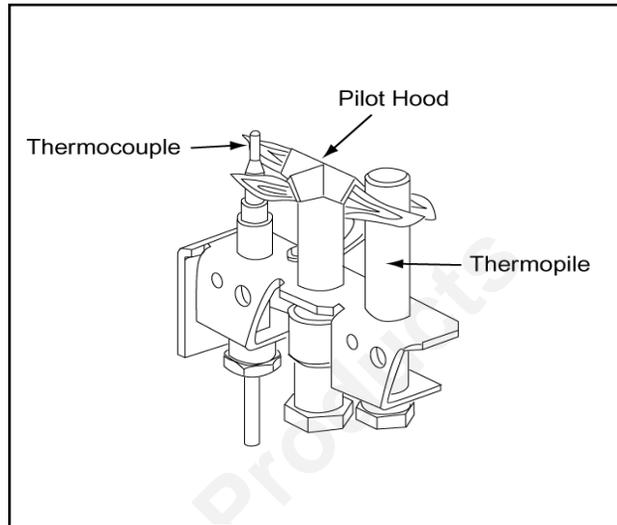


Figure 26 - Standing Pilot

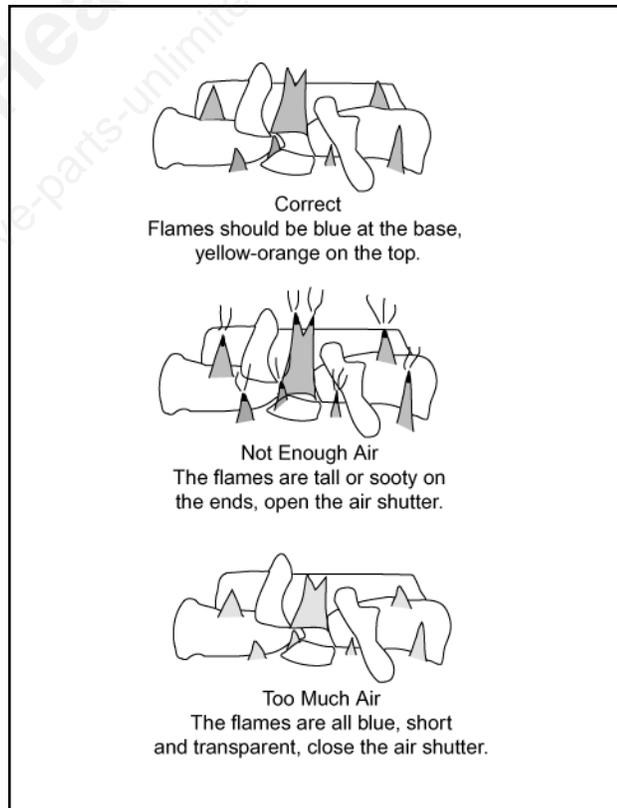


Figure 27 - Flame Patterns

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H. MAINTENANCE INSTRUCTIONS

1. CLEANING THE BURNER AND CONTROL COMPARTMENT

Keep the burner and control compartment clean by using a clean, dry paint brush and vacuum at least once a year. Always turn off the gas valve and the switch before cleaning. (See Step 1 on the bottom of page 14.)

2. VENTING SYSTEM INSPECTION

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

3. CLEANING THE GLASS

- It is recommended to wear gloves while handling or removing the glass. **DO NOT REMOVE THE GLASS WHEN HOT.**
- To remove the glass frame for cleaning, follow Step 3a. on page 7.
- To clean the glass, use a nonabrasive, mild cleaning solution. (For example, a glass cleaner or an oven cleaner for stubborn film.) Apply an adequate amount to the glass and wipe off with a damp cloth. Be sure all cleaner is thoroughly rinsed from the glass.
- Never operate this appliance without the glass properly secured in place or if the glass is broken.
- In the event of glass breakage, follow glass removal instructions. 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 only with the correct HTI part ordered direct or through your local distributor. Never use substitute material. Only ceramic glass may be used on this appliance.

4. LOG CLEANING

Logs can be easily lifted out of position. Carbon buildup can be removed with a vacuum cleaner.

5. CHECKING THE VENT SYSTEM

- The venting system should be tested periodically to ensure proper operation. This can be done with a match while the appliance is operating. Locate the draft tube between the glass frame and top. See Figure 28.
- Hold the match in front of the tube. If the flame and smoke are drawn into the tube, the appliance has good ventilation. If the flames and smoke are forced away from the draft tube, this may indicate a ventilation blockage or downdraft resulting in exhaust spillage into your 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 29.

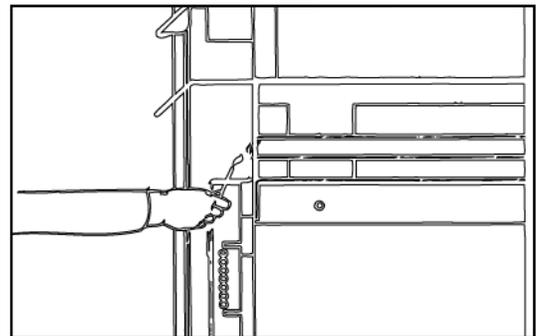


Figure 28
Flame in - Acceptable Ventilation

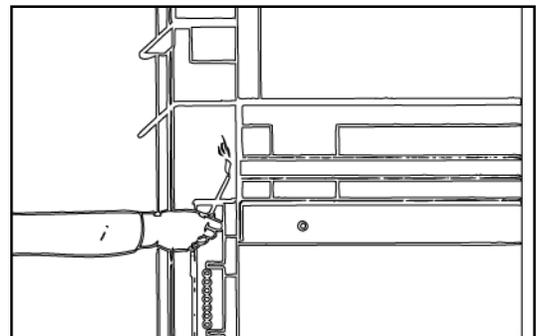


Figure 29
Flame out - Unacceptable Ventilation

I. TROUBLESHOOTING

Problem	Cause	Corrective Action
1. Spark ignitor will not light pilot after repeated pressing of red button.	A. Defective ignitor. B. Misaligned electrode. C. No gas to pilot/plugged orifice. D. Ignitor wire grounding out. E. Loose ignitor wiring.	Replace ignitor. Spark should be approximately 1/8" to bottom of pilot hood. Adjust gap to give proper spark. Remove hands from electrode before pressing red button. Check valve knob position and any shutoff valves. If propane, check for empty tank. Check pilot orifice; remove any blockage. Replace pilot assembly. Check for spark. If electrode connection is correct and no spark, replace ignitor.
2. Pilot will not stay lit.	A. Pilot flame not in constant contact with pilot sensor. B. Pilot sensor not tightened/seated in valve properly. C. Defective pilot sensor thermocouple. D. Faulty valve.	Check log placement. Check pilot flame: adjust flame if necessary. Check that pilot sensor connector is tight in valve. Replace pilot sensor thermocouple. Replace valve.
3. With pilot lit, valve and ON/OFF switch in "ON" position, burner will not light.	A. 110 volts of electricity has burned out valve. B. ON/OFF wall switch defective. C. Plugged burner orifice. D. Defective thermopile. E. Burner not on orifice. F. Loose or faulty wiring. G. Faulty valve. H. Faulty high limit switch/microswitch.	Remove voltage and replace valve. Check ON/OFF switch for proper connections. Connect wires across terminal at ON/OFF switch. If burner comes on, replace ON/OFF switch. If burner doesn't come on, connect to ON/OFF switch junctions at valve. If burner comes on, replace wires. Check burner orifice, remove blockage. Replace thermopile. Check burner; place on orifice. Check for loose connections; verify wiring (See Figure 25). Replace valve. Replace high limit switch or microswitch.
4. Appliance turns itself off after a period of time, but pilot stays lit.	A. High limit safety switch is activated. B. Intermittent short in ON/OFF wiring system. C. Defective thermopile.	Have a qualified service technician check venting system for blockage (i.e. bird nests, damage). Ensure proper venting condition. High limit switch will reset automatically as appliance cools. Check/replace ON/OFF wiring system. Replace thermopile.
5. Appliance turns itself off after a period of time, pilot no longer lit.	A. Pilot flame not in constant contact with pilot sensor. B. Defective pilot sensor thermocouple.	Check log placement; check pilot flame, adjust flame if necessary. Replace pilot sensor thermocouple.
6. Glass doors fog up.	A. Normal result of gas combustion.	No action necessary - glass will clear as appliance warms.
7. Blue flames.	A. Normal result during first 20 minutes of burning.	No action necessary - flames will turn more yellow after about 20 minutes.
8. Glass has film on it.	A. Normal result during initial few hours of operation. B. Improper log placement causing soot. C. Dark yellow tipped flame.	Clean glass with Brasso or silver polish. Check log placement: reposition if necessary. Open air shutter to increase air to gas ratio.

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J. REPLACEMENT PARTS

Replacement parts are available from your distributor/dealer, or through Heatilator Technical Services Department, Hearth Technologies Inc., 1915 W. Saunders Street, Mt. Pleasant, Iowa 52641 (1-800-843-2848)
See Figure A for the burner replacement parts diagram.

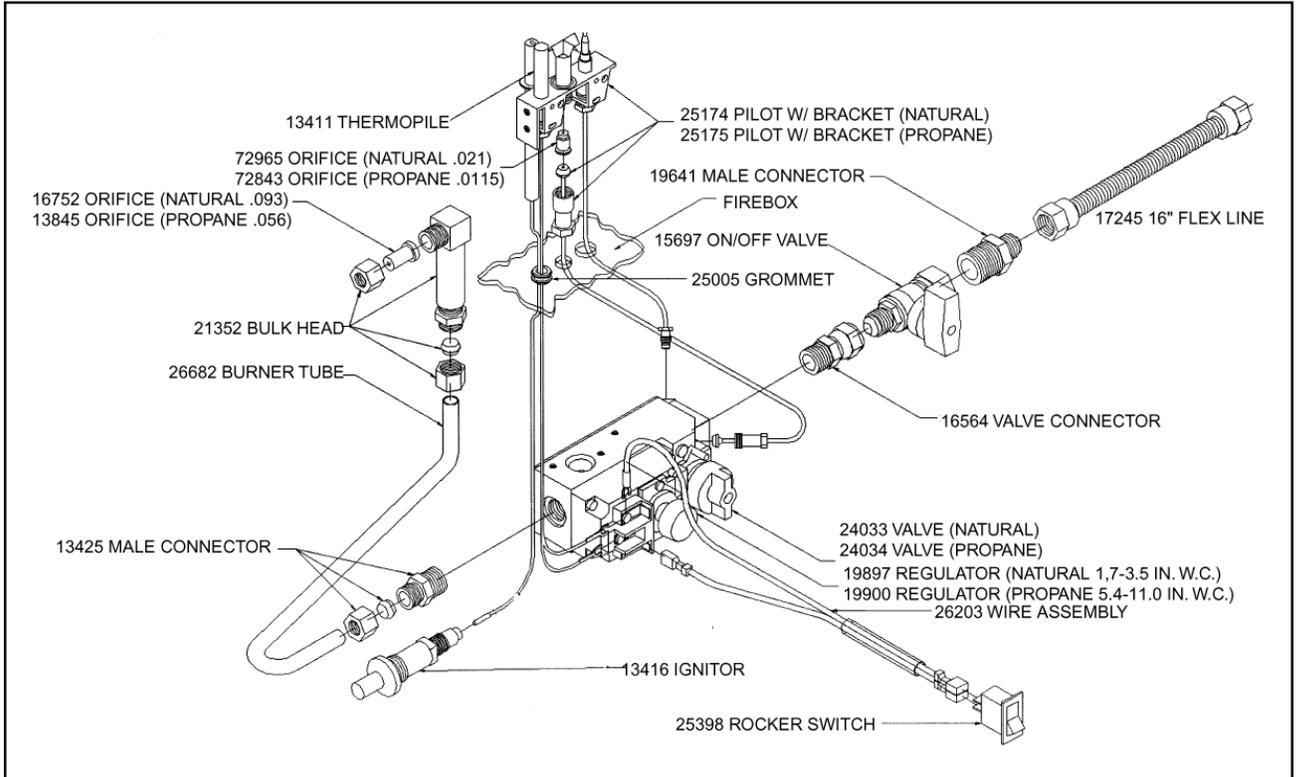


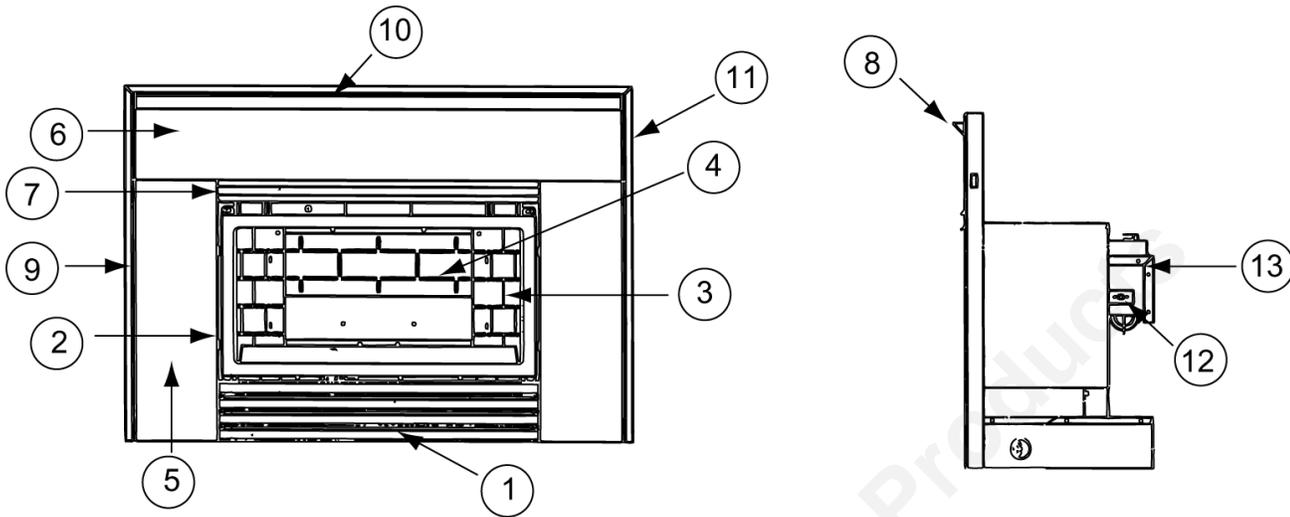
Figure A - Replacement Parts

ITEM	PART #	DESCRIPTION
1	26675	Burner
2	20613	Variable Speed Switch for Blower
3	26671	Blower Assembly
4	23998	Thermostat

ITEM	PART #	DESCRIPTION
1	26657	GBi25 Log Assembly
2	26357	Top Right Log
3	26358	Top Left Log
4	26521	Back Log
5	26522	Front Log
6	26516	Twig
7	26741	Ash Lip
8	26506	Log Support
9	14333	Mineral Wool



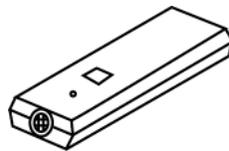
GBi25 Log Assembly



ITEM	PART #	DESCRIPTION
1	26653	Grille
2	26523 26509 26672	Glass Frame Assembly Frame Glass Assembly
3	26684	Side Refractory (RH & LH)
4	26674	Back Refractory
5	28734 28735	GSD24/40 Right and Left Sides GSD46 Right and Left Sides
6	28736 28737 28738	GSD24 Top GSD40 Top GSD46 Top
7	26560	Hood

ITEM	PART #	DESCRIPTION
8	26510 26511	GSD24/40 Surround Hood GSD46 Surround Hood
9	21765 21766 21767	GSD24 Left Trim GSD40 Left Trim GSD46 Left Trim
10	19177 19179	GSD24/40 Top Trim GSD46 Top Trip
11	26549 25869 26338	GSD24 Right Trim GSD40 Right Trim GSD46 Right Trim
12	24968	High Limit Switch
13	26508	Draft Hood Assembly

K. OPTIONAL COMPONENTS



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

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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.

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