

➔ **GAS-FIRED**



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Hearth & Home Technologies Inc.
1915 W. Saunders Street
Mt. Pleasant, Iowa 52641
Division, HON INDUSTRIES
www.heatilator.com

INSTALLATION & OWNER'S MANUAL

GENEVA SERIES B-VENT GAS APPLIANCE

MODELS: GGBR60, GGBR60L, GGBR60I, GGBR60IL
GGBR80, GGBR80L, GGBR80I, GGBR80IL



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.).

This manual must be used for installation of the Geneva Series Gas Appliance and retained by the homeowner for operation and maintenance instructions.

WARNING!

Installation and service must be performed by a qualified installer, service agency or the gas supplier. 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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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.

Safety Precautions

1. Please read these installation instructions completely before beginning installation procedures. Failure to follow them could cause an appliance malfunction resulting in serious injury and/or property damage.
2. Always check your local building codes prior to installation. This installation must comply with all local, regional, state and national codes and regulations.
3. 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 materials, etc. It is imperative that the control compartment, burners and circulating air passageways of the appliance be kept clean.
4. This is a vented decorative gas appliance. Do not burn wood or other material in this appliance.
5. **NEVER** leave children unattended when there is a fire burning in the appliance.
6. This appliance may only use the approved B-vent system shown in these installation instructions. Venting **must not be connected** to chimney flue servicing a solid fuel burning appliance or a gas fuel burning appliance.
7. Use only the fuel gas specified on the rating label of this gas appliance.
8. The appliance area shall be kept clear and free from combustible materials, gasoline and other flammable vapors and liquids.
9. 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 appliance is completely cooled before servicing.
10. 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.
11. Be sure to provide adequate clearances around the air openings into the combustion chamber and adequate accessibility clearances for servicing and proper operation.
12. Provisions shall be made to provide adequate combustion and ventilation air. The flow of combustion and ventilation air should not be obstructed.

DESIGN AND INSTALLATION CONSIDERATION

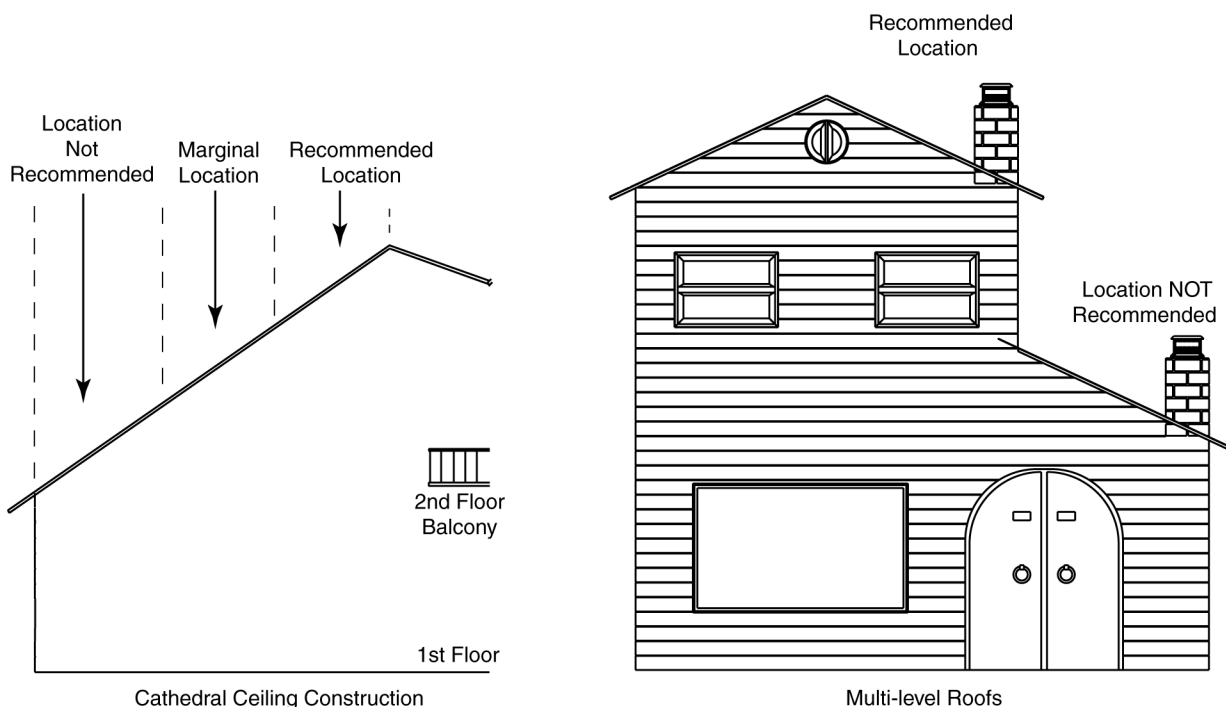
When selecting a location for your B-Vent appliance, it is important to evaluate a number of considerations. Modern construction techniques can create conditions that may not allow your vent to draft properly. This may result in spillage from your B-Vent appliance, as well as cause other combustion appliances to operate incorrectly.

Tightly sealed construction is important for energy efficiency. Unfortunately, a great deal of effort has been directed to tightening up sidewall construction, while considerably less attention has been paid to tightening upper portions of the warm air envelope (insulated ceilings). This has increased the "Stack Effect", a condition that increases the negative pressure generated by the structure. This negative pressure will directly affect the drafting performance of a B-Vent appliance vent. To minimize the negative pressure generated by stack effect, make certain that all ductwork installed in the attic spaces is sealed airtight. Minimize the number of recessed light fixtures installed in the insulated ceiling and use sealed recessed light fixtures. Finally, make certain the whole house fans and attic access panels are tightly sealed. These are important design considerations that must be observed during the design and construction stage of the home.

If you desire to put an appliance in your basement, we recommend that you consider a direct vent gas appliance. Basements always have a significant negative air pressure that causes the B-Vent system to be more susceptible to spillage and cold flue backdrafting. Since direct vent gas appliances are sealed, they are not affected by the negative pressure that exists in basements.

Finally, a B-Vent appliance performs best when the vent (roof termination) is located on the upper half of the roof, especially when cathedral ceilings are present. Vents that are located on the lower half of the roof realize what is known as "lazy flue" and will not draft as well as a vent that is located in the upper portion of the roof. The reason for this is that the stack effect generated by the overall height of the living spaces inside the house will exceed the draft generated by the vent system. If you desire to place an appliance in a location where the termination cap would be located on the lower half of a roof; such as on an outside wall at the base of a cathedral ceiling, we recommend that you consider using a direct vent gas appliance. This will ensure an appliance that operates correctly.

These properties do not affect just your B-Vent appliance. They can cause any woodburning fireplace as well as any conventionally vented (B-Vent) gas appliance to operate improperly. Careful planning at this stage of your project will ensure satisfaction with the operation of your appliance once it is completed.



A. APPLIANCE SPECIFICATIONS

U.S. and Canada Certification

The Geneva Series gas appliances have been tested in accordance with the standards **ANSI Z21.50-1998, CGA 2.22-M98, IR41, P4, and IR55** and have been listed by Underwriters Laboratories Inc. for installation and operation as described in this manual. All components are UL, AGA, CGA or CSA safety certified.

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.

➡ If you need assistance during installation, please contact your local dealer or Heatilator Technical Services Department, Hearth & Home Technologies Inc., 1915 W. Saunders Street, Mt. Pleasant, Iowa 52641, 1-800-927-6841.

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WARNING!

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

CAUTION:

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

Note: Glass doors are **not** optional in the Commonwealth of Massachusetts. They are required.

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 appliance uses room air for normal operation and could have problems establishing a positive draft in a negative air location. In lieu, we recommend a Direct Vent Gas Appliance.

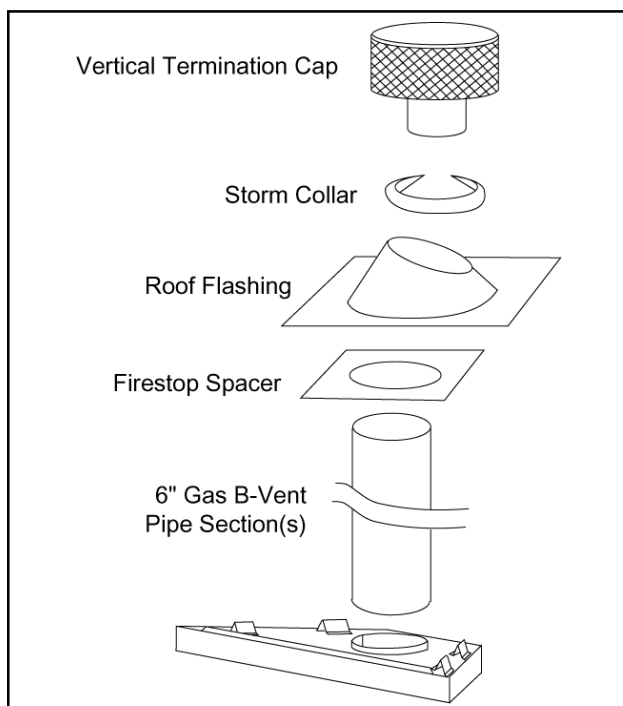
GENEVA Nomenclature

Catalog #	Description
GG	Gas Geneva
B	B-Vent
R	Radiant
60	60 = 36" Appliance 80 = 42" Appliance
IL	No suffix - Natural Gas, Standing Pilot L = Propane Gas, Standing Pilot I = Natural Gas, Intermittent Pilot Ignition IL = Propane Gas, Intermittent Pilot Ignition
GGBR60IL	Appliance Order Code Number with Upgrade Code Number
Example:	
GGBR60IL	Gas Geneva B-Vent, Radiant, 36", Propane Gas, Intermittent Pilot Ignition Appliance

WARNING!

This appliance is tested and listed for use only with the optional accessories listed in these instructions. Use of optional accessories not specifically tested for this appliance could void the appliance warranty and/or result in a safety hazard.

Typical Installation Components



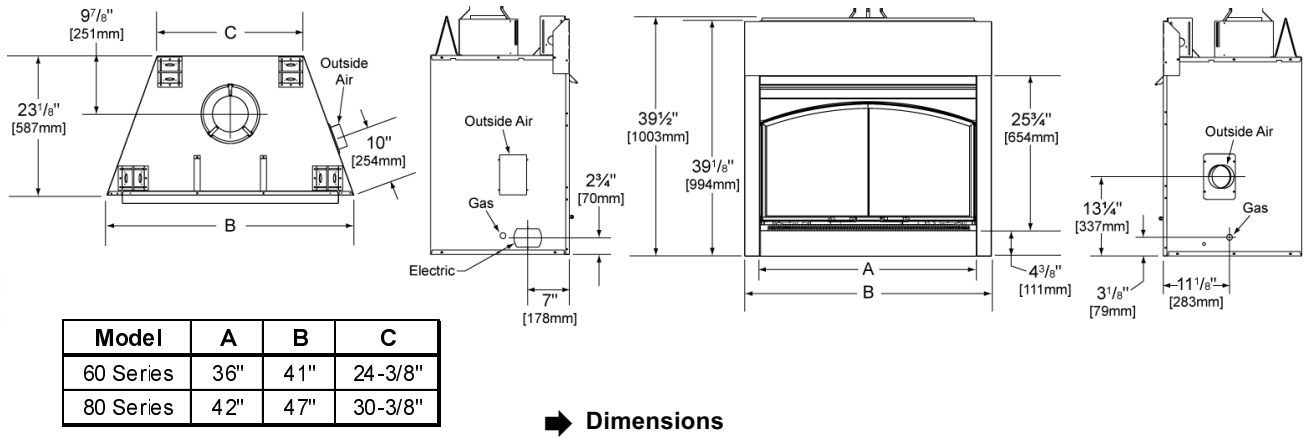
Note: Minimum and maximum clearances must be maintained at all times. Illustrations throughout these instructions reflect typical installations and are for design purposes only. Actual installation may vary slightly due to individual design preferences.

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

Tools and building supplies normally required for installation:

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

B. LOCATION AND CLEARANCES



1. Appliance Locations and Space Requirements

Figure 1 illustrates a variety of ways the appliance may be located in a room. The Geneva Series gas appliances may be installed directly on the floor or raised on a hearth. These appliances are certified for installation in a bedroom or bed/sitting room in the U.S. and Canada, provided that the bedroom or bathroom has a volume of at least 1700 cubic feet for the GGBR60 Series or 1800 cubic feet for the GGBR80 Series.

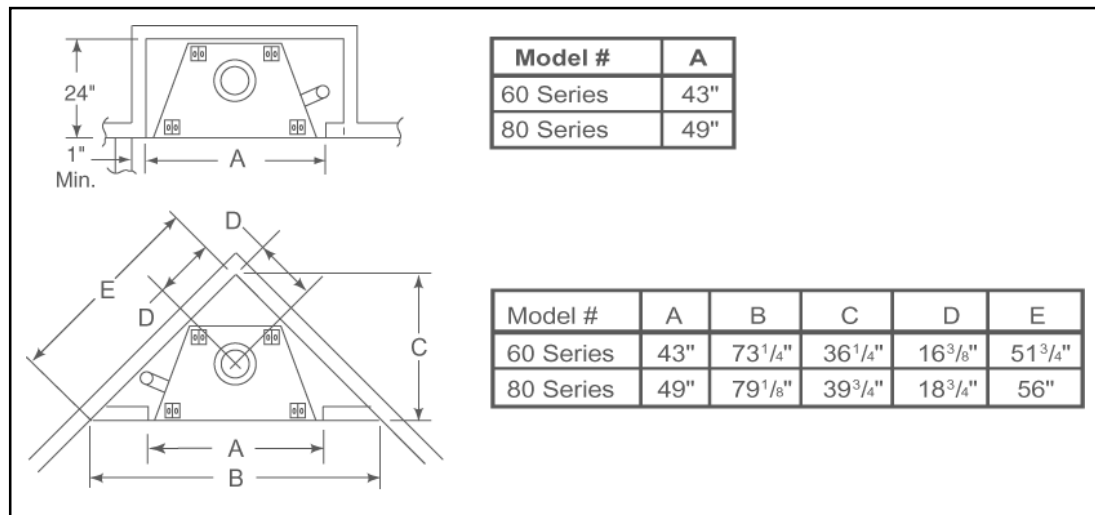


Figure 1 - Appliance Locations

2. Clearances

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

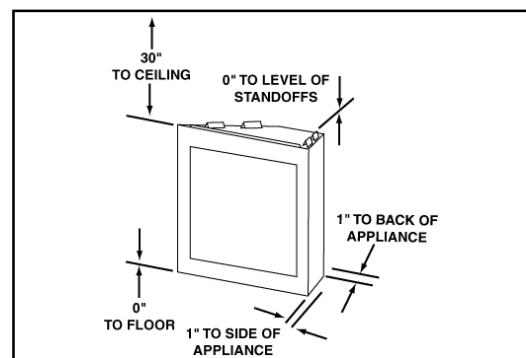


Figure 2 - Appliance Clearances to Combustible Materials

C. FRAMING

Figure 3 shows typical framing of this appliance using combustible materials. Figures 3 and 4 show the minimum mantel height. All required clearances to combustibles must be adhered to.

WARNING!

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

GGBR60/80 MINIMUM MANTEL HEIGHT

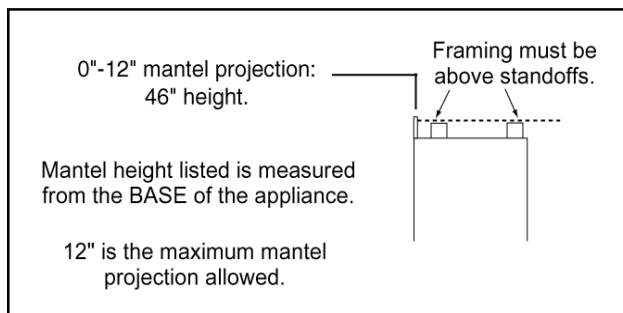


Figure 4
Mantel Heights

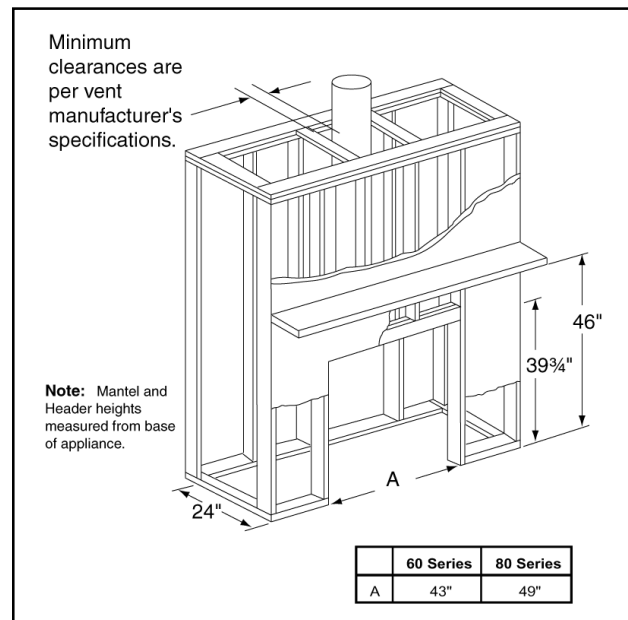


Figure 3 - Framing

CAUTION:

Wear gloves and safety glasses for protection.

CAUTION:

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

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 a 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 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.

E. VENTING

Note: This appliance requires a 6" B-Vent for operation. NEVER DOWNSIZE PIPE.

WARNING!

This appliance may only use an approved B-Vent chimney system. It must not be connected to a chimney flue servicing a separate solid fuel or gas fuel burning appliance.

1. Clearances

Vent clearances are per vent manufacturer's specifications.

2. Vent Lengths

Various venting configurations are shown in Figures 5-7 from which maximum vent runs can be determined.

WARNING - RISK OF FIRE!

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

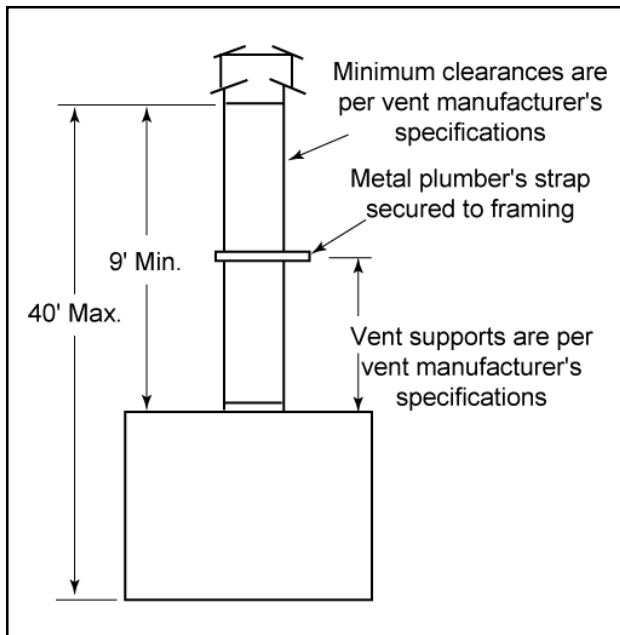


Figure 5
Top Vent - No Elbows

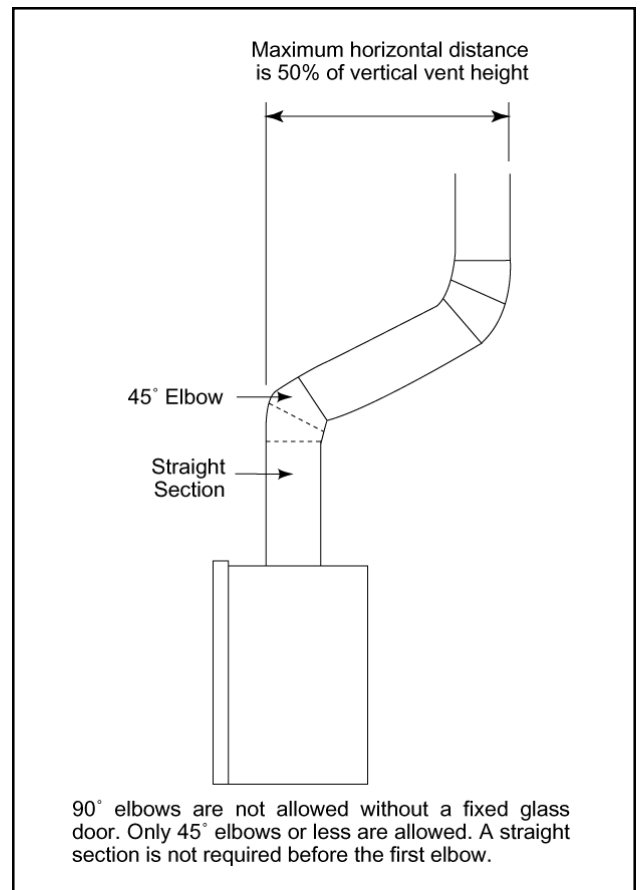


Figure 6
Venting off the Top of the Appliance

3. 90° Elbows

A maximum of four 90° elbows may be used on this appliance when used in conjunction with the fixed glass doors shown below. See Figure 7.

Acceptable fixed glass doors are:

- DF361B/S
- DF421B/S

4. Firestop Spacer/Vent Installation

Frame an opening and install a firestop spacer whenever the vent penetrates a ceiling/floor area, as shown in Figure 8. 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 as per manufacturer's specifications.

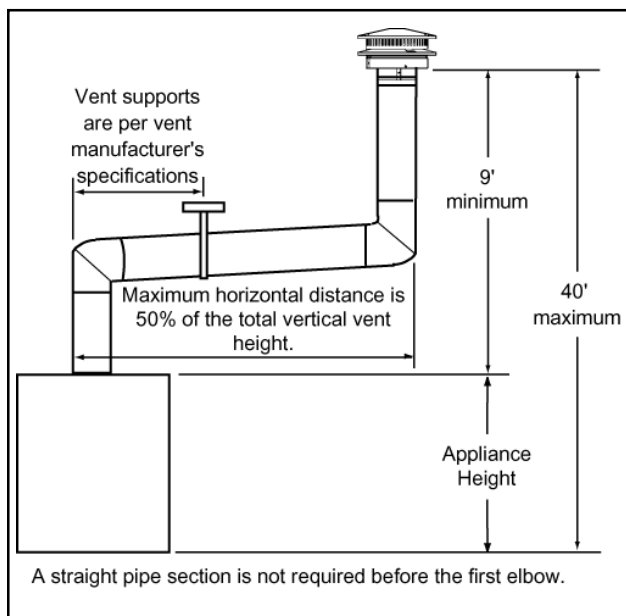


Figure 7 - 90° Elbows

5. Chase/Termination Installation

Figure 9 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.

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

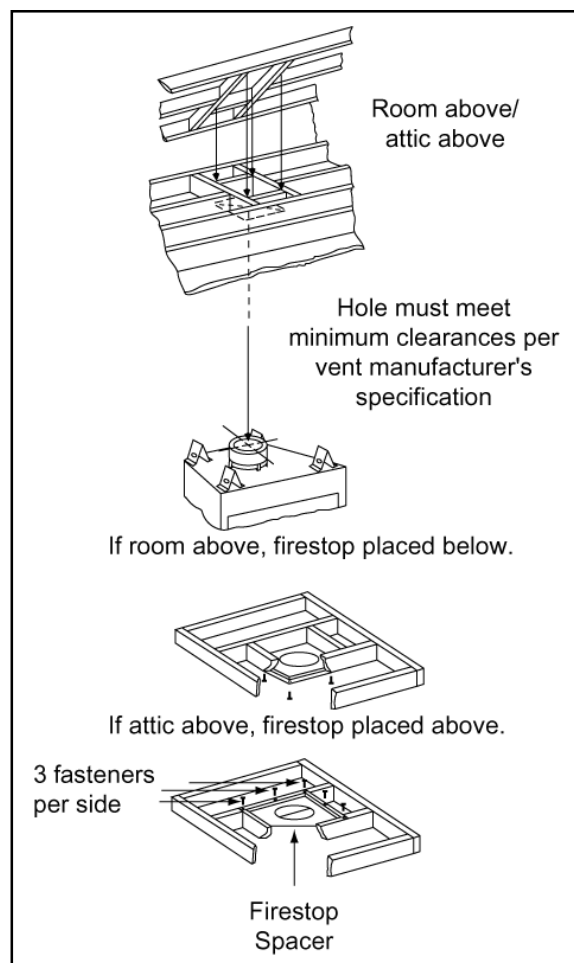


Figure 8 - Installing the Firestop Spacer

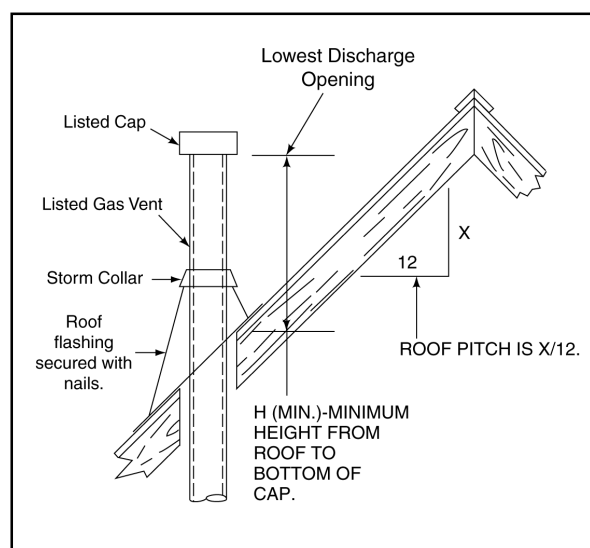


Figure 9 - Vent Height for Vertical Termination

<u>Roof Pitch</u>	<u>H (Min.) Ft.</u>
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

6. Checking the Vent System

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

Hold a lighted match at the top edge of the appliance opening. If the flames and smoke remain upright, ventilation is acceptable. If the flames and smoke are drawn into the appliance, this means ventilation is good. If the flames and smoke are forced away from the appliance, this may indicate a ventilation blockage or down draft resulting in gas 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.

If you have installed optional doors, close the doors and conduct the test following the same instructions above. See Figure 10.

7. Outside Air Kit Installation

An outside air kit is available 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 be installed on either side of the appliance.

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

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. The outside air kit inlet thimble should be positioned at least four feet above the ground level, in a manner that will not allow snow, leaves, etc. to block the inlet.

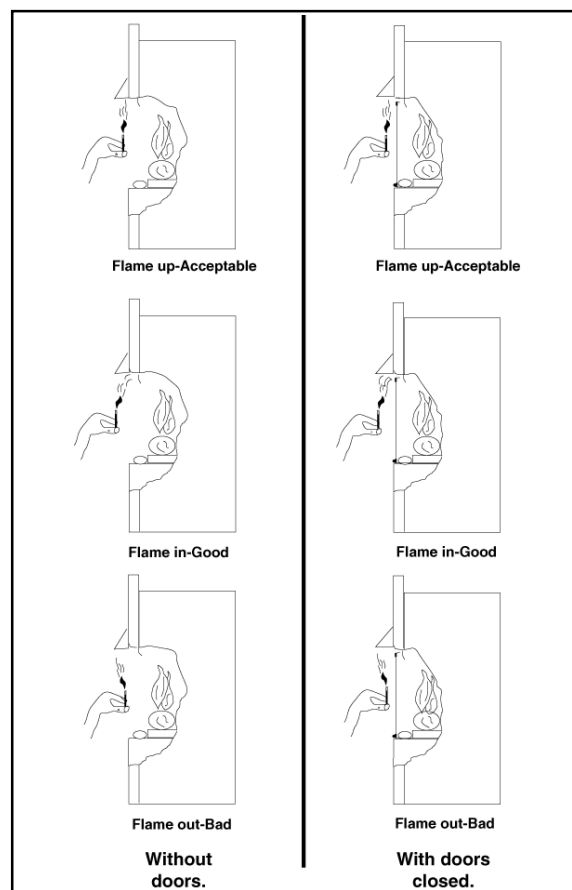


Figure 10 - Testing Ventilation

WARNING!

Exhaust products of gasoline engines are hazardous. The outside air must not be taken from a garage space, attic spaces, basements, or above the roofing where other heating appliances, fans, or chimneys exhaust or utilize air.

F. UTILITIES

1. 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, National Fuel Gas 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. The correct orifice is available from your Heatilator distributor.

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.

2. Gas Line Connection

Remove/open the control access panel as shown in Figures 11 and 12.

The appliance is provided with a stainless steel flexible connector and a listed (and Commonwealth of Massachusetts approved) T-handle manual shutoff valve. The incoming gas line should be piped into the valve compartment and connected to the 1/2" FIP connection provided on the manual shutoff valve. See Figure 13 to connect the gas line.

Optional: Seal around the gas line to prevent cold air leakage.

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

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

Note: Have the gas supply line installed in accordance with building codes 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.



Figure 11 - Control Access Panel Removal



Figure 12 - Control Access Panel Removal

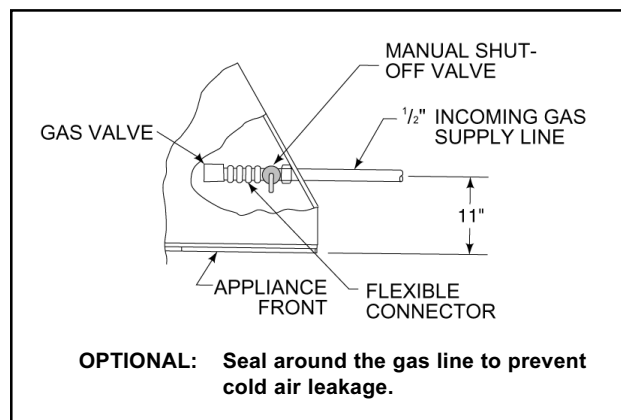


Figure 13 - Gas Line

Note: This 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).

3. Gas Pressure

A pressure tap is included on the front face of the valve for the standing pilot and intermittent pilot gas control valve. Pressure taps are immediately upstream of the gas supply connection and accessible for test gauge connection. See Table 2.

➔ 4. Gas Conversions

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

Use Table 4 to determine the conversion kit you will need to convert your appliance.

WARNING!

This valve has been preset at the factory. Altering settings may result in fire hazard or bodily injury.

Table 2

GENEVA 60 and 80	
Inlet Gas Supply Pressure (NG)	4.5 (min.) - 7.0 (max.) in. w.c.
Optimal Manifold Press (NG)	3.5 in. w.c.
Inlet Gas Supply Pressure (LP)	11.0 (min.) - 14.0 (max.) in. w.c.
Optimum Manifold Pressure (LP)	10 in. w.c.

➔ Table 3

GENEVA	60	80
Input Rate (NG)	34,000 BTU/hr.	36,000 BTU/hr.
Input Rate (LP)	34,000 BTU/hr.	36,000 BTU/hr.
Orifice Size (LP)	.067	.070
Orifice Size (NG)	.110	.115

Gas Information for Intermittent and Standing Pilot Appliances

➔ Table 4

Model	Convert to LP	Convert to Natural Gas
GGBR60/80	CKP	
GGBR60/80(L)		CKN
GGBR60/80(I)	DCKP	
GGBR60/80(IL)		DCKN

5. Junction Box Installation

- a. Remove the junction box assembly from the valve compartment.
- b. If the box is being wired from the OUTSIDE of the appliance;
 - 1) Loosen two screws on the Romex connector, feed the necessary length of wire through the connector and tighten the screws.
 - 2) Make all necessary wire connections to the receptacle and assemble the receptacle and cover to the junction box.
 - 3) Attach the junction box assembly to the outside of the appliance with the two screws provided.
- c. If the box is being wired from the INSIDE of the appliance;
 - 1) Pull the electrical wires from outside the appliance through this opening into the valve compartment.
 - 2) Loosen the two screws on the Romex connector, feed the necessary length of wire through the connector and tighten the screws.
 - 3) Make all necessary wire connections to the receptacle and assemble the receptacle and cover to the junction box.
 - 4) Attach the junction box assembly to the inside of the appliance with the two screws provided.
- d. If the box is not to be wired at the time of appliance installation, assemble the receptacle and cover to the box and install on the inside of the appliance.

G. FINISHING

1. 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).

2. 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 any combination thereof, or have a UL fire rating of zero (0).

3. 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" wide minimum bead, must be used to close off gaps between the appliance and facing to prevent cold air leaks. See Figure 16.

A combustible mantel may be installed. Please refer to Figure 4, page 7.

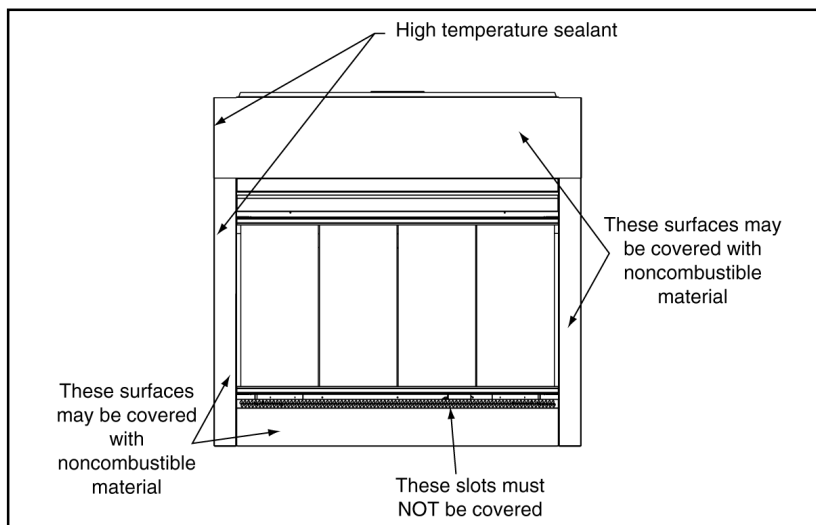


Figure 16 - Finishing Materials

WARNING!
Air slots on this appliance cannot, in any way, be covered as it may create a fire hazard.

H. APPLIANCE PREPARATION

1. Log Set

The log set should look similar to that in Figure 17.

2. Placing the Lava Rock and Vermiculite

Place lava rock on top of the control access panel, in front of, under and around burner. When placing vermiculite, sprinkle it evenly over the area covered by the lava rock. See Figures 18 and 19. It is not necessary to use all of the lava rock or vermiculite. Save the remainders for future use.

3. Placing the Rock Wool

Place approximately 1/2" diameter pieces of rock wool under the front logs, on the bottom hearth log. Place the rock wool the full length of the burner. Do not pack the wool tightly against the burner. This appliance is supplied with two bags of rock wool. It is not necessary to use all the wool. Save the remaining amount for future use. See Figure 20.

4. Placing the Fire Glow

Fire glow (FIRE98) is a flame colorant material that also adds to the realism of the gas appliance flame. After placing the rock wool in the appliance, sprinkle some of the fire glow on top of the hearth log and rock wool. As with the lava rock, vermiculite, and rock wool, it is not necessary to use the entire bag. Save the remainder for future use. See Figure 21.



Figure 17
GENEVA Log Set (Geneva 60 shown)



Figure 20
Placing the Rock Wool

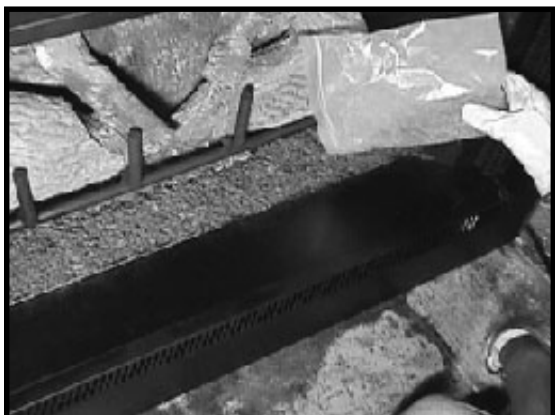


Figure 18
Placing the Lava Rock



Figure 21
Placing the Fire Glow



Figure 19
Placing the Vermiculite

The first name in fireplaces

I. DETERMINING THE IGNITION

To determine whether your appliance is an intermittent pilot ignition or a standing pilot ignition system, remove/open the control access panel to examine the wiring system. If your appliance has a red ignitor button, as shown in Figure 22, you own a standing pilot ignition appliance. If no red ignitor button is present, you own an intermittent pilot ignition appliance.

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

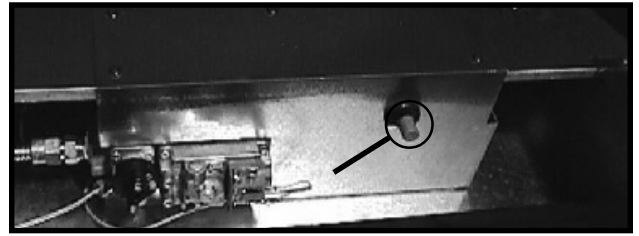


Figure 22 - Standing Pilot Ignition Identification

J. LIGHTING INSTRUCTIONS

1. Intermittent Pilot Ignition

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.

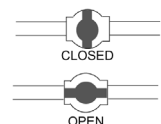
- A.** This appliance is equipped with an ignition device which automatically lights the pilot. **Do not** try to light the pilot by hand.
- B. BEFORE LIGHTING** smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the 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 supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- C.** Use only your hand to close the gas line. 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 has been under water.

INTERMITTENT PILOT IGNITION LIGHTING INSTRUCTIONS

1. Turn wall switch to the OFF position.
2. This appliance is equipped with an ignition device which automatically lights the pilot. **Do not** try to light the pilot by hand.
3. 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 do not smell gas, go on to the next step.
4. Turn the wall switch to the ON position.
5. If the appliance will not operate, follow the instructions "TO TURN OFF THE GAS TO THE APPLIANCE" and call your service technician or gas supplier.
6. If using the battery pack and the appliance will not operate, check the batteries for sufficient charge and replace if necessary.

TO TURN OFF THE GAS TO THE APPLIANCE

1. Turn off the wall switch.
2. Open control access panel. Turn manual shutoff valve to the CLOSED position. Do NOT force.
3. Close control access panel.



2. Standing Pilot Ignition

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.

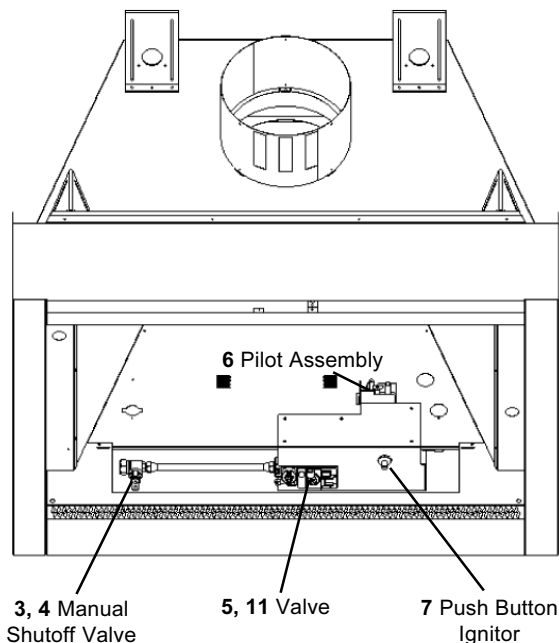
- A. This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.
- B. **BEFORE LIGHTING** smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

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 turn the manual shutoff valve. 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 has been under water.

STANDING PILOT LIGHTING INSTRUCTIONS

1. Turn the wall switch to the appliance to the OFF position.
2. Remove/open control access panel.
3. Turn manual shutoff valve 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 manual shutoff valve 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 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. To light the main burner, release and turn the knob counterclockwise to ON. If the appliance is connected to a wall switch, turn it to ON. **Do not** light by hand.
12. If the appliance will not operate, follow the instructions "TO TURN OFF THE GAS TO THE APPLIANCE" and call your service technician or gas supplier.



To Turn off the Gas to the Appliance

1. Turn off the wall switch.
2. Remove/open control access panel.
3. Turn manual shutoff valve to CLOSED position. Do not force.
4. Replace/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 air shutter adjustment.
4. Ensure there are no gas leaks.
5. 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.

1. Standing Pilot Operation

- a. Hearth & Home Technologies recommends you leave the pilot on year round.
- b. **Lighting the appliance during regular use:** Turn the wall switch to "ON".
- c. **Shutdown during regular use:** Turn the wall switch to "OFF".
- d. **To shut down the appliance for a long period of time:**
 - 1) Turn all wall switches to "OFF".
 - 2) Turn pilot knob on valve to "OFF".
 - 3) Turn the manual shutoff valve to "CLOSED".
 - 4) To relight the pilot and appliance, see page 17.

2. Intermittent Pilot Ignition Operation

- a. **Lighting the appliance during regular use:** Turn the wall switch to "ON".
- b. **Shutdown during regular use:** Turn the wall switch to "OFF".
- c. **To shut down the appliance for a long period of time:**
 - 1) Turn all wall switches to "OFF".
 - 2) Turn the manual shutoff valve to "CLOSED".
 - 3) To relight the appliance, see page 16.

3. Fuel Conversion Instructions

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 Hearth & Home Technologies specified and approved parts.

In the event your appliance must be converted to natural gas or propane, refer to Table 4, page 12.

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.

CAUTION:

The air handle may get hot while you are burning the appliance. Use care when operating the handle.

4. Operating the Outside Air Kit

The outside air kit is supplied as an optional feature with this appliance. The outside air kit helps 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, before starting the appliance: Grasp the small, black handle located on the side of the appliance. See Figure 23. Lift the handle and pull towards the front. The outside air door should open. Place the handle in the slot on the bracket (so the outside air door remains open). When through burning the appliance, grasp the handle and push the outside air door closed.



Figure 23 - Operating the Outside Air Kit

L. START-UP ISSUES

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 disappear.
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 manual shutoff valve before cleaning.

2. Checking the Flame Patterns

Inspect the flame of the burner periodically, making sure the flames are steady, not lifting or floating. See Figure 26. The flame color should be blue with yellow tips. The sensor (intermittent pilot) or thermopile and thermocouple (standing pilot) tips should be covered with flame. See Figures 24-25.

Note: After extended periods of burning, film may build up on the flame sensor (intermittent pilot ignition). The flame sensor should be cleaned annually with emery cloth to remove this build up.

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 26.

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

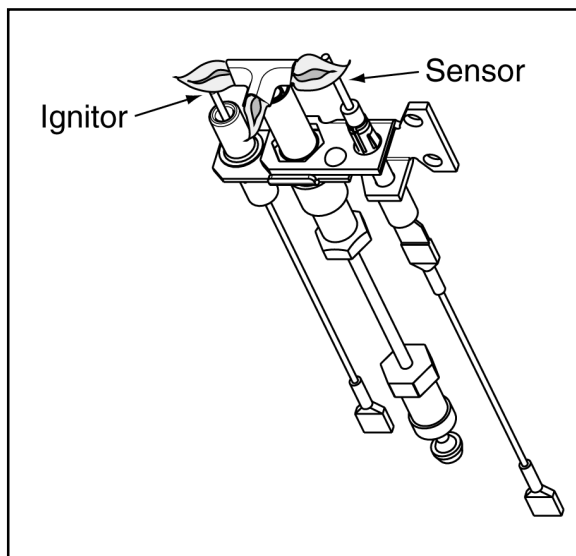


Figure 24 - Intermittent Pilot Ignition Assembly

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

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

To reduce the possibility of soot, we have equipped your appliance with an adjustable air shutter (there are two burners and two air shutters on the propane version). See Figure 27. Your air shutter is provided in the closed position for natural gas and in the open position for propane.

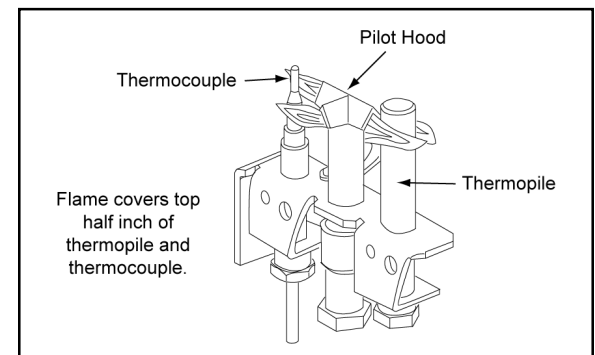


Figure 25 - Standing Pilot



Figure 26 - Flame Patterns (60 Series shown)

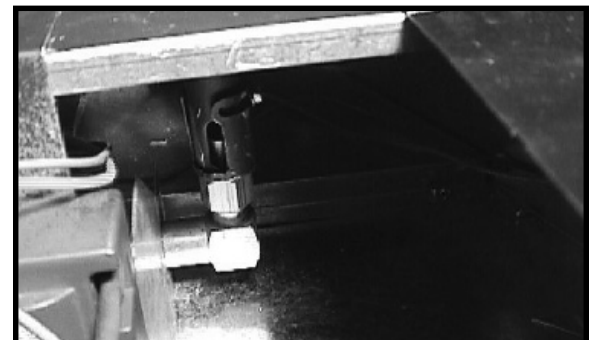


Figure 27 - Air Shutter

3. Proper Operation of Optional Glass Doors

If you have decided to install optional doors on your appliance, please note the correct way to operate them. While operating your appliance, you should either have the doors completely open or completely closed, but never partially open. See Figure 28.

Note: Glass doors are **not** optional in the Commonwealth of Massachusetts. They are required.

WARNING!

Decorative gas appliances equipped with doors should be operated only with doors fully open or doors fully closed. If doors are left partially open, gas and flame may be drawn out of the appliance opening, creating risks of both fire and spillage.

4. High Limit Safety Switch

A high limit switch has been installed on the appliance. This switch automatically turns off the appliance if it becomes too hot. If this happens, do not attempt to operate the appliance until it has been examined by a qualified service technician. For the high limit switch location, see Figures 29-31.

Note to Qualified Service Technician:

The intermittent pilot ignition version of the Geneva Series requires that the limit switch be manually reset if it has shut the appliance off. This is done by first removing the hood to expose the high limit switch. See Figure 29. Push the red button in until you hear a click. The appliance should now be operable. Replace the hood.

5. Glass Breakage/Cleaning

It is recommended to wear gloves while handling or removing glass. **DO NOT REMOVE THE GLASS WHEN IT IS HOT.**

Note: When cleaning the glass, NEVER use abrasive materials. NEVER clean glass when it is hot. Keep pets and children a safe distance away.

- Clean glass after initial one hour burn. This is to remove any film that develops from oils and log burn-in time. After initial cleaning, clean as needed.
- Handle glass panel with care to avoid striking or scratching it on hard objects.

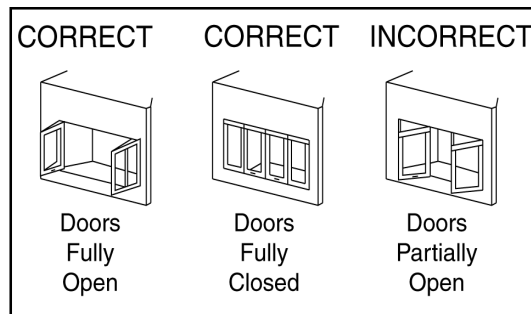


Figure 28 - Correct Operation of Doors

- To clean the glass, use a nonabrasive, mild cleaning solution (i.e. Brasso). Apply an adequate amount to the glass and wipe off per manufacturer's instructions. Contact your local stove shop or fireplace accessories store for further recommendations.
- 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 only a Heatilator glass panel assembly ordered through your local distributor. Never use substitute material. Only fully tempered soda lime safety glass may be used on this appliance.



Figure 29 - Remove Hood



Figure 30 - Limit Switch Location



Figure 31 - Limit Switch Location

N. LOG REMOVAL/REPLACEMENT

1. Remove/open the control access panel as shown in Figures 11 and 12 on page 11.
2. For removal of the grate/log assembly remove two screws (one per side) from the hearth pan. See Figure 32.
3. Lift up on the assembly to remove it from the appliance and set it aside, being careful not to damage any of the logs. See Figure 33.
4. Reverse the order to reinstall the logs.

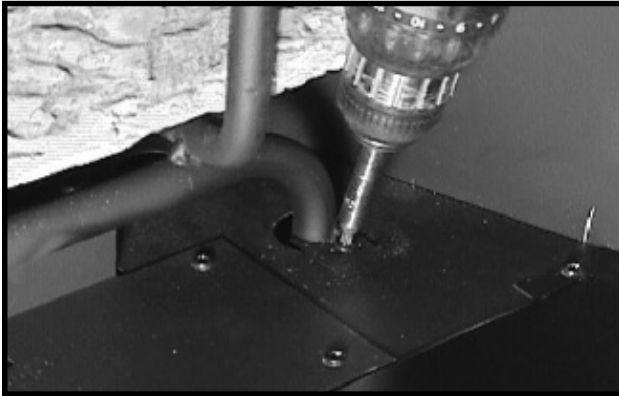
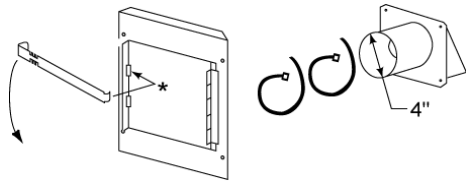


Figure 32
Unscrewing the Log/Grate Assembly
from the Hearth Pan

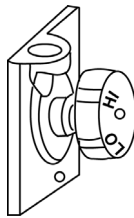
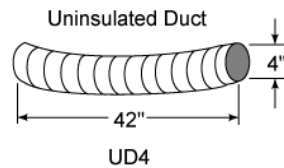
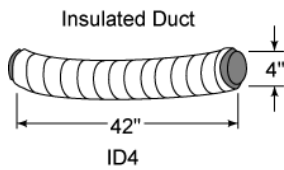


Figure 33
Log/Grate Assembly Removal

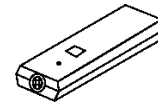
O. OPTIONAL COMPONENTS



AK14 - Air Kit



MF1
Adjustable Flame Head
(Natural Gas Standing Pilot)
MF2
Adjustable Flame Head
(Propane Gas Standing Pilot)



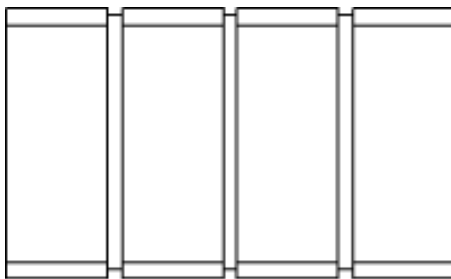
RC-SMART-HTL
Remote Control

RCT-MLT-HLT
Multifunctional Remote

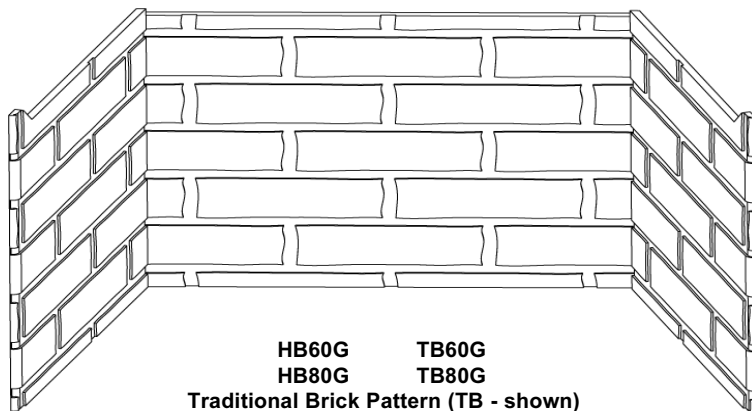
RC-BATT-HTL
Battery Operated Remote Control
(Standing Pilot)

SMART-STAT-HTL
Remote control with Thermostat Control

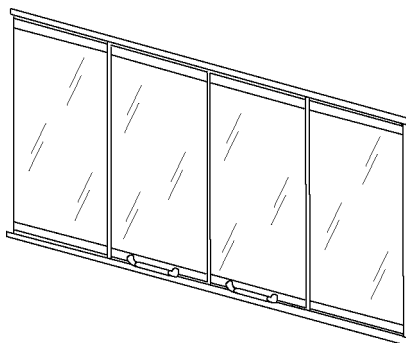
SMART-BATT-HTL
Battery-operated Remote Control
with Thermostat Control



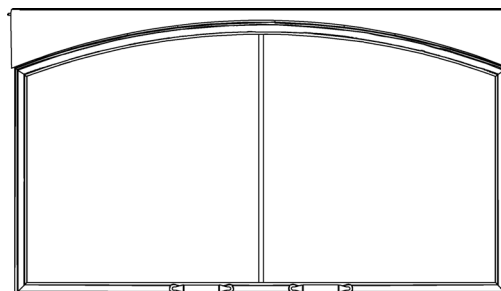
DM1036, DM1036B, DM1036S
DM1042, DM1042B, DM1042S
Bifold Doors



HB60G TB60G
HB80G TB80G
Traditional Brick Pattern (TB - shown)
Herringbone Pattern (HB)
Refractory



DF361B/S
DF421B/S
Fixed Glass Doors



DMA1036B
DMA1042B
Arched Door

The first name in fireplaces

P. REPLACEMENT PARTS

Replacement parts are available from your distributor/dealer.

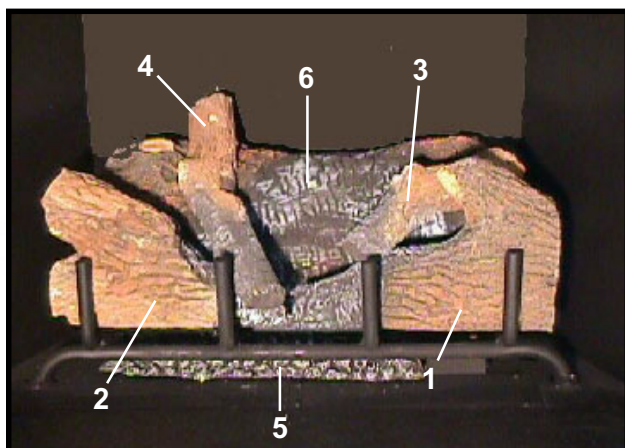


Figure A - Log/Grate Assembly

ITEM	PART #	DESCRIPTION	QTY.
Fig. A	4003-053	Log/Grate Assembly (60)	1
	4003-054	Log/Grate Assembly (80)	1
1	32657	Bottom Right Log (60)	1
	32951	Bottom Right Log (80)	1
2	32653	Bottom Left Log (60)	1
	33238	Bottom Left Log (80)	1
3	32656	Top Right Log	1
4	32654	Top Left Log	1
5	32913	Hearth Log	1
6	32655	Back Log (60)	1
	33228	Back Log (80)	1
	Fire 98	Fire Glow	1
	14333	Rock Wool	1
	28746	Vermiculite	1
	28911	Lava Rock	1

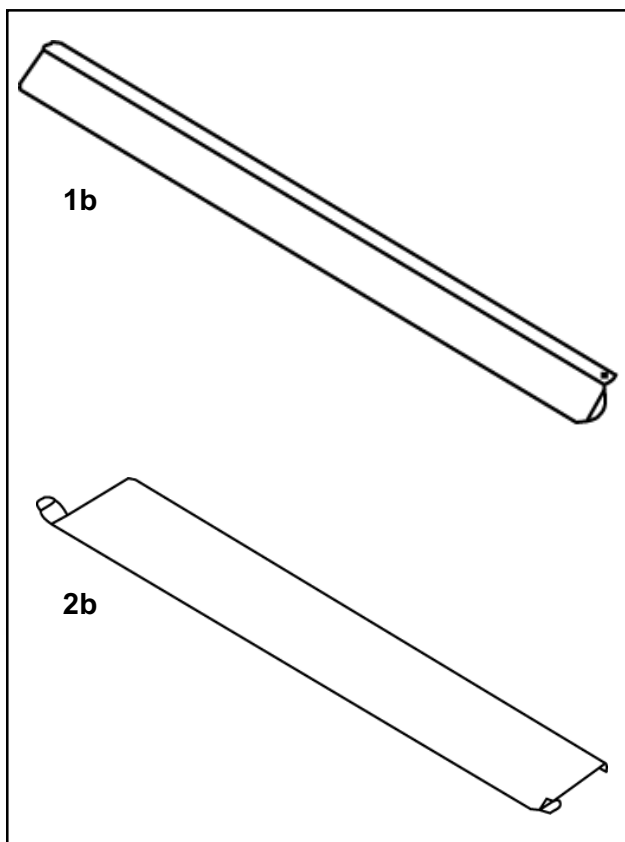


Figure B - Panels, etc.

ITEM	PART #	DESCRIPTION	QTY.
Fig. B		Panels, etc.	
1b	32736	Hood (60)	1
	32520	Hood (80)	1
2b	32446	Control Access Panel (60)	1
	32454	Control Access Panel (80)	1

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Homeowner's Notes

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Homeowner's Notes

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1915 W. Saunders Street
Mt. Pleasant, Iowa 52641
Division, HON INDUSTRIES
www.heatilator.com

GAS APPLIANCE (FIREPLACE) LIMITED LIFETIME WARRANTY

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

Limited Lifetime Warranty

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

1 Year Limited Warranty

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

Conditions, Exclusions, & Limitations of Liability

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

How to Obtain Service

To obtain service under this warranty you must:

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

ADDITIONAL INFORMATION:

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

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