



**heatilator®**  
*The first name in fireplaces*

Heatilator Inc.  
1915 W. Saunders Street  
Mt. Pleasant, IA 52641  
a HON INDUSTRIES company

# GC341A HEAT CIRCULATING SERIES GAS APPLIANCE **OWNERS MANUAL** AND INSTALLATION INSTRUCTIONS

MODELS: GC341A, GC341AE

This manual must be used for installation of the GC341A Series Gas Appliance and retained by the homeowner for operation and maintenance instructions.

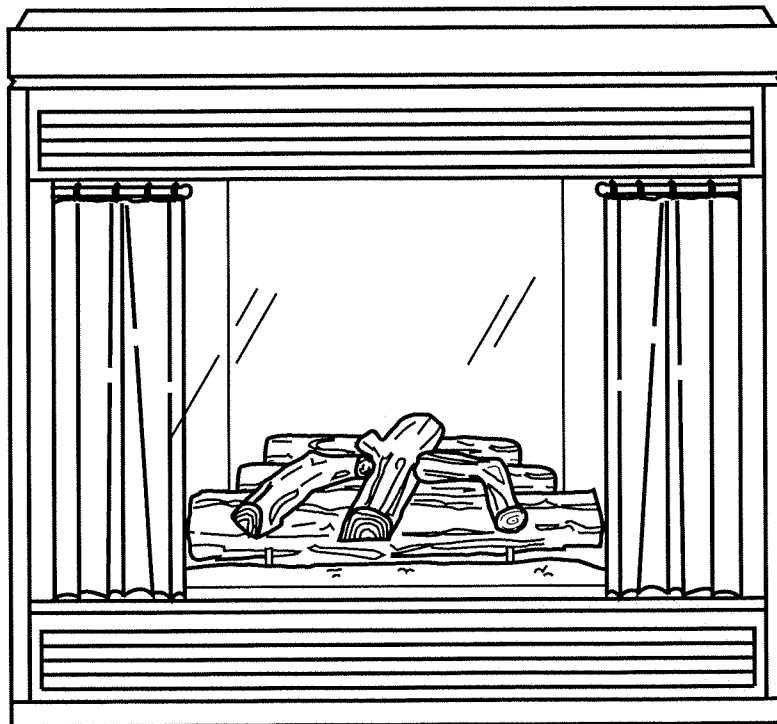
## FOR YOUR SAFETY

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.

## 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.



## FOR YOUR SAFETY

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.



**Electrician:** Please refer to page 12 for wiring instructions.



**Plumber:** Please refer to page 5 and 11 for gas connection information.



**Framer:** Please refer to page 6 for framing specifications.

**PLEASE RETAIN THIS MANUAL FOR FUTURE REFERENCE.**

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## Safety Precautions

1. Please read these installation instructions completely before beginning installation procedures. Failure to follow them could cause a fireplace 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 material, etc. It is imperative that the control compartment, burners and circulating air passage ways of the appliance be kept clean.
4. The GC341A fireplace 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 fireplace.
6. This fireplace must be vented with a minimum 5" B-1 vent system and must terminate above the roof line. Venting must not be connected to a chimney flue servicing a solid fuel burning appliance.
7. NEVER use gasoline, gasoline-type lantern fuel, kerosene, charcoal lighter fluid, or similar liquids in this fireplace. Keep any flammable liquids a safe distance from the fireplace.
8. While servicing this fireplace, always shut off all electricity and gas to the fireplace. This will prevent possible electrical shock or burns. Also, make sure the unit is completely cooled before servicing.
9. During any pressure testing of the gas supply piping system that exceeds test pressures of 1/2 psig, this appliance and its individual shut-off valve must be disconnected from the piping system. If test pressures equal to or less than 1/2 psig are used in pressure testing the gas supply piping system, this appliance must be isolated from the piping system by closing its individual manual shut-off valve during testing.
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.



## I. LISTINGS AND CODE APPROVALS

### U.S. Certification

The GC341A Series Gas Appliance has been tested in accordance with the ANSI standard Z21.50b-1990 and has been listed by Warnock Hersey for installation and operation as described in these Installation and Operating Instructions. All components are A.G.A. or UL safety certified.

### Canada Certification

The GC341A Series Gas Appliance has been tested in accordance with the CAN/CGA-2.22-M92 and has been listed by Warnock Hersey for installation and operation as described in these Installation and Operating Instructions. All components are C.G.A. or C.S.A. safety certified.

**Note: If installed in a bedroom in Canada, this appliance MUST include non-operable doors.**

### 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 CAN1-B149-latest edition, in Canada.

### Optional components

This gas appliance has been tested and listed for use with the optional components given on page 4. Many

optional components may be purchased separately and installed at a later date. However, installation of a remote control or fan kit will require electrical power. To avoid costly reconstruction, a separate source of electrical power should be supplied to the unit at the time of the initial fireplace installation for possible addition of these accessories at a later date.

### Fuel

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

This product is manufactured to use natural gas. It can be converted to use propane, but only if done by a qualified Heatilator distributor and only if the CKP Natural Gas to Propane Gas Conversion Kit is used. In the event your appliance must be converted back to natural gas from propane, you must use a CKN Propane Gas to Natural Gas Conversion Kit.

*wording changed*

If any assistance is required during installation, please contact your local dealer or contact Heatilator Customer Relations Department, 1915 W. Saunders Street, Mt. Pleasant, Iowa 52641.

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## II. DESCRIPTION OF THE FIREPLACE SYSTEM

The GC341A Series is a B-vent decorative gas appliance. While a significant amount of heat is created by the GC341A, it is not intended to be and, therefore, should not be used as a heater.

This HEATILATOR fireplace system consists of:

1. Fireplace
2. Chimney System
3. Termination

Optional components include:

1. Trim kit
2. Fan kit
3. Remote control
4. Outside air kit
5. Glass doors
6. Rheostat control

### Tools and building supplies normally required for installation.

#### Tools

Saw  
Pliers  
Hammer  
Phillips screwdriver  
Tape measure  
Plumb line  
Level  
Electrical drills/bits  
Square

#### Building Supplies

Wall-finishing materials  
Framing material  
Fireplace surround  
Caulking material

**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.**

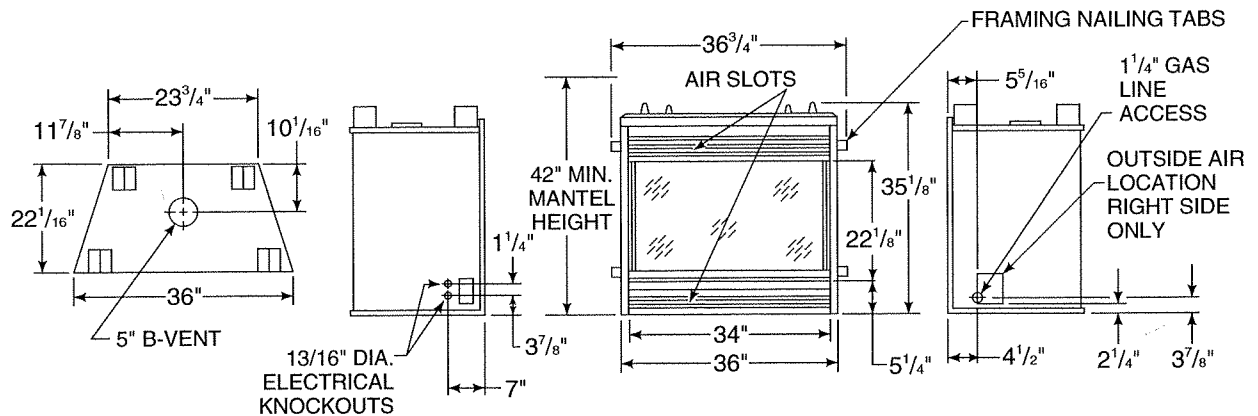
**The illustrations and diagrams used throughout these installation instructions are not drawn to scale.**



### III. FIREPLACE SYSTEM COMPONENTS

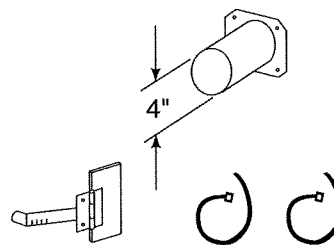
The table below is a list of only those components which may be safely used with this fireplace.

Catalog Number	Description
GC341A	34" natural gas, standing pilot, heat circulating fireplace
GC341AE	34" natural gas, electronic ignition, heat circulating fireplace
<i>Added</i> CKP	(Natural gas models may be converted to propane gas using the CKP conversion kit)
FK10	Natural gas to propane gas conversion kit
BC10	Fan kit
FS6	Fan motor rheostat control
RC4	Firestop spacer
RC5	Remote control (standing pilot)
TK5	Remote control (electronic ignition)
AK14	Trim kit
	Outside air kit



Fireplace Dimensions

Framing dimensions can be found on page 6.



Outside Air Kit  
AK14



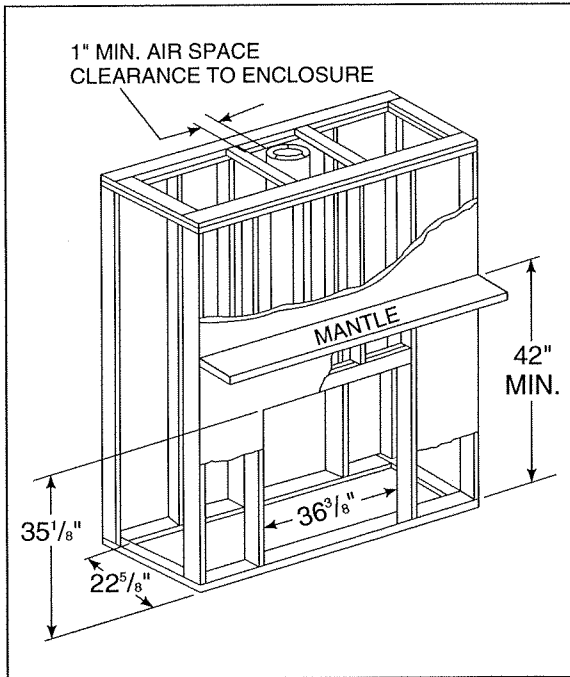


## E. FRAMING THE FIREPLACE

**Note:** If an optional fan (FK10) or hand held remote control (RC4 or RC5) are to be used, wiring must be done prior to finishing to avoid reconstruction.

**Note:** The remote wall switch must be wired prior to applying the finishing material to the wall in order to avoid reconstruction.

The GC341A Series Gas Appliance will fit a framed opening of  $36\frac{3}{8}$ " w X  $22\frac{5}{8}$ " d X  $35\frac{1}{8}$ " h.



**Figure 2**  
**Framing the Fireplace**

Figure 2 shows a typical framing of this fireplace assuming combustible materials are used. All required clearances to combustibles around the fireplace must be adhered to. A  $\frac{1}{2}$ " air space clearance must be maintained at the back and sides of the firebox assembly. Any framing on top of the fireplace must be above the top standoffs. Chimney sections for a horizontal run require a 3" minimum air space clearance on top and a 1" minimum air space clearance on the sides and bottom. Vertical rise sections require a 1" minimum air space clearance completely around the chimney section.

## F. FINISHING MATERIALS

Only non-combustible materials may be used to cover the black fireplace front.

### WARNING

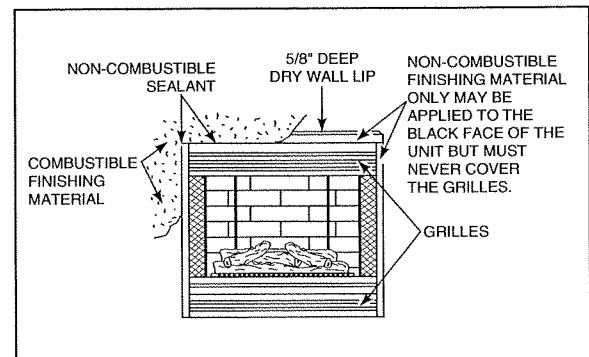
**GRILLS ON THIS APPLIANCE CANNOT, IN ANY WAY, BE COVERED AS IT MAY CREATE A FIRE HAZARD.**

**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.

**Non-combustible Finishing Material.** Material which will not ignite and burn. Such materials are those consisting entirely of steel, iron, brick, tile, concrete, slate, glass or plasters, or combination of the materials.

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

After completing the framing and applying the finishing material (dry wall) over the framing, a non-combustible sealant, one-half inch wide maximum, must be used to close off any gaps at the top and sides between the fireplace and facing to prevent cold air leaks. See Figure 3.



**Figure 3**  
**Finishing Materials**



## V. STEP-BY-STEP INSTALLATION OF THE FIREPLACE 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.

#### STEP 1 - Positioning the Firebox

This fireplace may be placed on a combustible or non-combustible continuous, flat surface. Slide the unit into position and level the fireplace from side-to-side and front-to-back. Shim with non-combustible material, such as sheet metal, as necessary.

Secure the fireplace by bending out the nailing flanges located on each side of the fireplace and nailing the unit to the framing. See Figure 4.

#### STEP 2 - Termination

Common venting of this appliance with other appliances is not allowed in multi-story dwellings. Common venting with other appliances in other types of dwellings is strongly not recommended. However, if you attempt to do so, you MUST follow all guidelines of the B-vent manufacturer.

Possible problems which may occur from common venting are: Usually more costly; It does not prevent possible spillage of flue gas products into other occupied spaces sharing the common vent; Noise is easily communicated by venting from one room to another.

This appliance requires the use of a 5" B-1 vent for operation and must be terminated above the roof line. Never downsize pipe. Follow all B-1 vent requirements and installation instructions.

The minimum height of vent installation must be 9' from the top or 12' from the base of the appliance. Horizontal run must never exceed 50% of the height of the vent system as shown in Figure 5.

The following figures are the maximum distances from the base of the unit, as well as the minimum air space clearances that must be maintained during termination of this appliance: Maximum straight unsupported rise - 25 feet; maximum horizontal unsupported run - 3 feet; air space clearances around vertical rise - 1" on all sides; air space clearances around horizontal run - 3" on top and 1" on sides and bottom; maximum height - 40' from the base of the unit. Every 1' of horizontal run requires at least 2' of vertical rise.

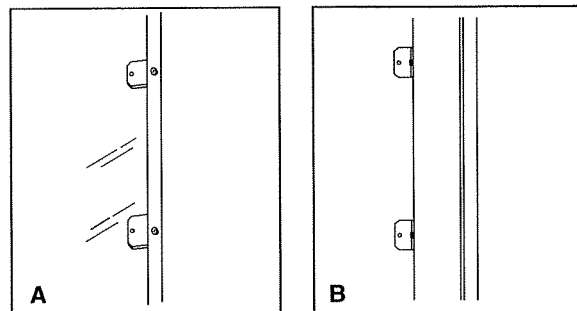


Figure 4  
Nailing Flanges

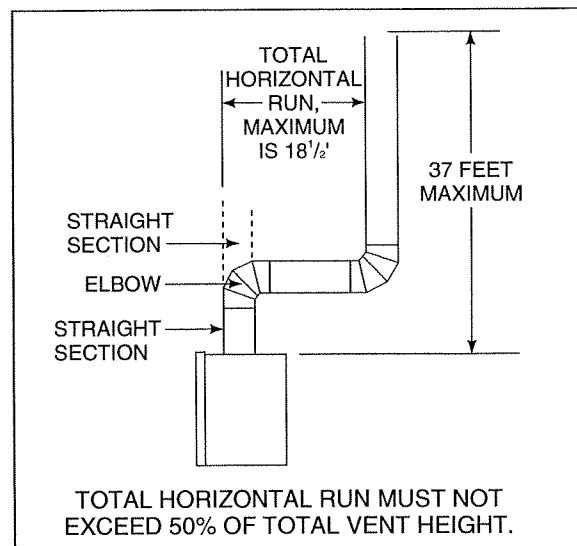


Figure 5  
Venting Off The Top of Appliance

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



**1. Assembling chimney sections.** Attach a straight pipe section to the top of the appliance. Elbows directly off the top of the unit are allowed but are strongly not recommended. This may cause the unit to operate ineffectively. Secure the attached pipe section to the appliance with the three screws supplied. Use only B-vent sections.

**2. Using Elbows.** Elbows exceeding 45 degrees from the vertical shall be considered horizontal and therefore adapt horizontal run limitations. Each such elbow shall be considered the equivalent of 2 feet of horizontal run. See Figure 6.

**3. Penetrating the ceiling.** Mark and cut out an opening in the ceiling for the firestop spacer. Frame the opening with the same size lumber used in the ceiling joists.

**4. Installing the firestop spacers.** Firestop spacers must be used whenever the chimney penetrates a ceiling/floor area.

In all situations, firestop spacers are to be nailed to the ceiling joists from the bottom or fireplace side, EXCEPT when the space above is an insulated ceiling or attic space. In this situation, the firestop spacer must be nailed from the top side to prevent loose insulation from falling into the required one inch air space around the chimney.

Install the firestop spacer by positioning and nailing the four sides of the firestop spacer to the joists using a minimum of three nails per side.

**5. Securing chimney system.** Continue assembling the chimney sections up through the firestop spacers as needed. Pipe sections must be locked into position. Elbows and chimney stabilizers have straps for securing these parts to joists or rafters.

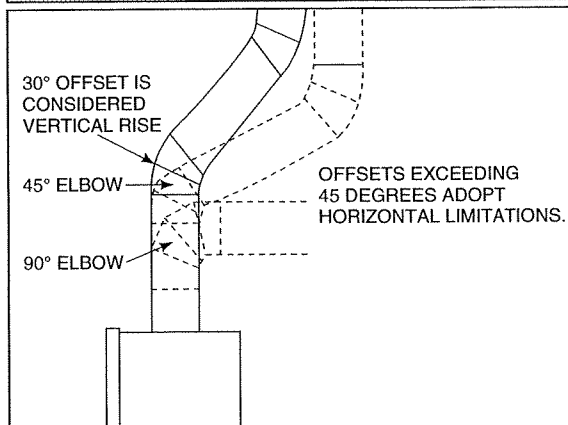
**6. Marking the exit point in the roof.** Locate the point where the chimney will exit the roof by plumbing down to the center of the chimney. Drive a nail up through the roof to mark the center. See Figure 7.

**7. Cutting out the hole in the roof.** Measure to either side of the nail and mark the 7" X 7" opening required. This is measured on the horizontal; actual length may be larger depending on the pitch of the roof. Cut out and frame the opening. See chapter 25 of the Uniform Building Code for Roof Framing details. A one inch minimum air space clearance must be maintained between the chimney section and the roof.

**8. Install roof flashing or site-produced chase top.** Position a roof flashing or a site-produced chase top and secure into place.

**9. Assembling chimney sections.** Continue to add chimney sections through the roof opening, maintaining at least a one inch air space clearance.

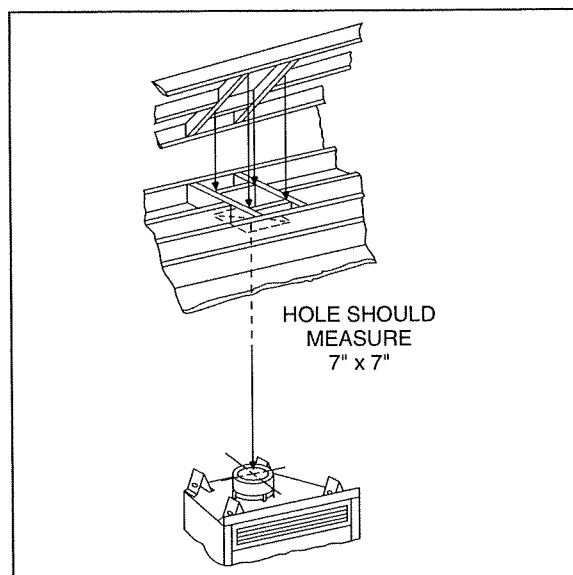
**Note:** Be sure to provide intermediate support for the vent during construction and check to be sure inadvertent loading has not dislodged the vent from the appliance or any vent joint.



**Figure 6**  
Using Elbows

**WARNING**

**WHEN VENT SECTIONS EXCEEDING 3 FEET IN LENGTH ARE INSTALLED BETWEEN AN OFFSET/RETURN, STRUCTURAL SUPPORT MUST BE PROVIDED TO REDUCE OFF-CENTER LOADING AND PREVENT VENT SECTIONS FROM SEPARATING AT THE VENT JOINTS. FOLLOW ALL B-VENT MANUFACTURER GUIDELINES.**



**Figure 7**  
Exiting Through the Roof

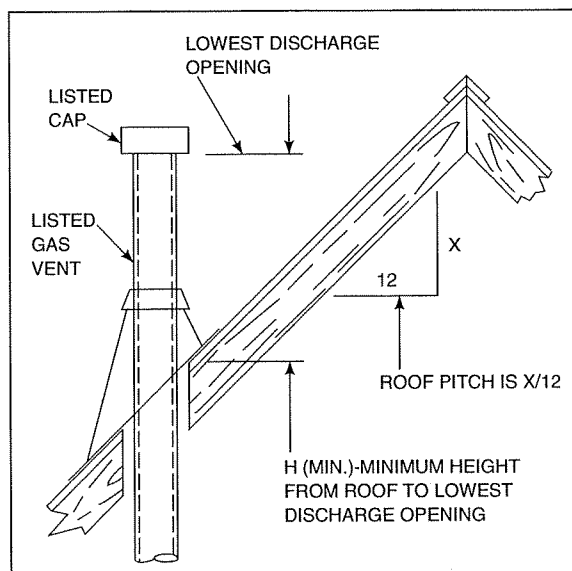


**10. Termination cap.** Major building codes specify a minimum chimney height above the roof top depending on roof pitch.

**Unlisted Cap.** If you are using an unlisted termination cap and your chimney section is at least 8 feet from a vertical wall, follow Figures 8 and 9 to determine the allowable termination height and location.

Measure the roof pitch. (Roof pitch is X/12 as shown in Figure 8.) Find your roof pitch on Chart A to determine the minimum height the termination cap must be located from the point where the chimney pipe penetrates the roof (H in Figure 8).

**Listed Cap.** If you are using a listed termination cap, you must follow the manufacturer's installation instructions for minimum clearances to roof and any obstructions.



**Figure 8**  
**Chimney Height if Termination Location is at Least 8' From a Vertical Wall**

Roof Pitch	H (Min.) feet
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

**Figure 9**  
**Chimney Height**





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

To install the termination cap, slide the cap pipe sections into the vent pipe. Secure the cap using the screws provided.

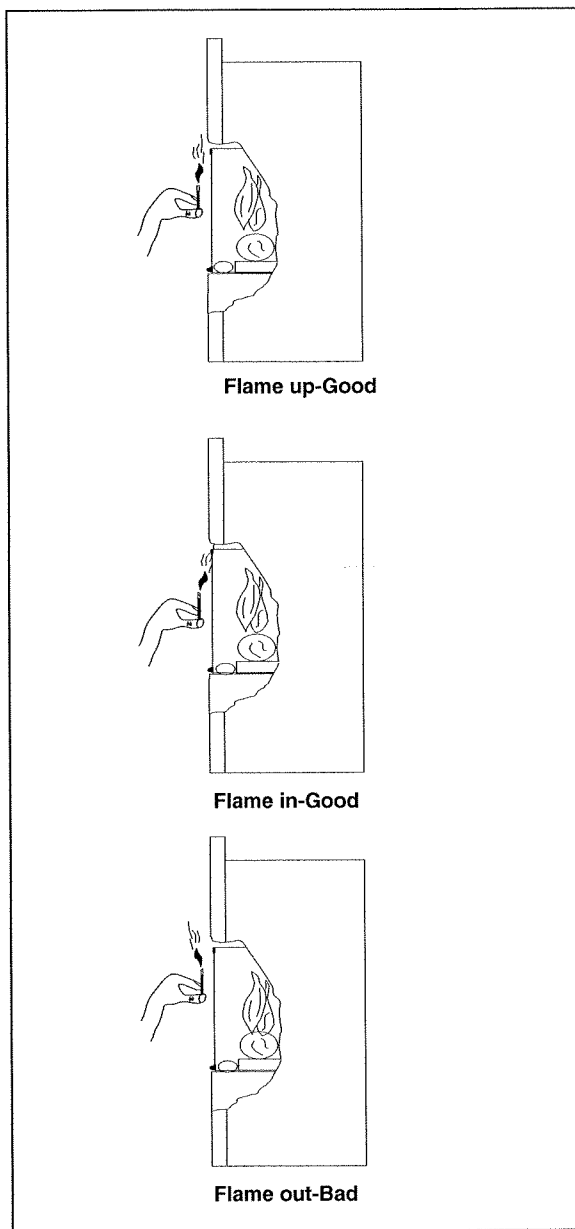
**11. Checking the vent system.** Periodically the venting system should be tested to assure proper operation. This can be done with a match while the unit is operating.

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

### STEP 3 - Double Checking

When construction of the entire chimney system has been completed, double check to make sure all venting pipes and termination caps are unobstructed.



**Figure 10**  
**Testing Ventilation**



### STEP 8 - Installing the Outside Air Kit (Optional)

Many possible locations on either side of the firebox are available for your outside air inlet. Figure 15 demonstrates two possible locations. A 1 foot minimum height difference must be maintained from the top of the uppermost chimney to the outside combustion air inlet (see Figure 15). Be sure to check chimney height requirements for the fireplace before attempting any basement location. The air inlet should be of sufficient height to prevent snow or other materials from blocking it. Ducting must be ordered separately.

#### WARNING

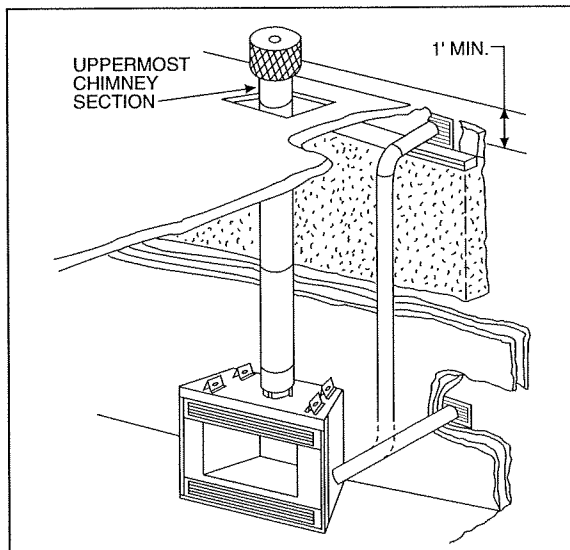
**WHEN LOCATING THE FIREPLACE IN A SPACE PROJECTING INTO A GARAGE, THE OUTSIDE AIR MUST NOT BE TAKEN FROM THE GARAGE SPACE. EXHAUST PRODUCTS OF GASOLINE ENGINES ARE HAZARDOUS. DO NOT INSTALL OUTSIDE AIR DUCTS SUCH THAT THE AIR MAY BE DRAWN FROM ATTIC SPACES, BASEMENTS, OR ABOVE THE ROOFING WHERE OTHER HEATING APPLIANCES OR FANS AND CHIMNEYS, EXHAUST OR UTILIZE AIR.**

**1. Assembling the control arm.** Connect the control arm onto the damper hinge using the provided screws. See Figure 16. Remove the access panel on the side of the fireplace you intend to install the air kit. Then pry out the semi-perforated piece of insulation.

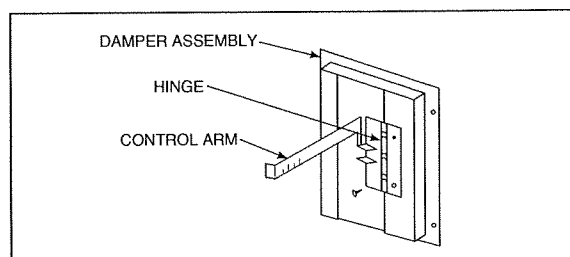
**2. Installing the damper.** Insert the control arm through the rectangular opening in the side of the fireplace. The notches on the control arm should be placed downward. **The hinge on the damper should face toward the front of the fireplace.** If the hinge and the control arm are not positioned in this manner, the damper will not function correctly. Figure 17 demonstrates the correct order in which the air kit assembly should take place.

#### WARNING

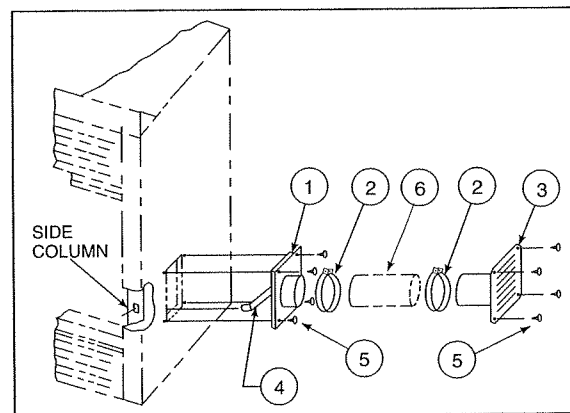
**SIGNIFICANT COLD AIR MAY INFILTRATE THROUGH THE DUCT OR OTHER PARTS OF THIS SYSTEM. TO GUARD AGAINST THIS, CHECK FOR LIGHT LEAKS WITH A FLASHLIGHT AND SEAL THESE WITH DUCT TAPE AND/OR INSULATION.**



**Figure 15**  
**Outside Air Kit Installation**



**Figure 16**  
**Connecting the Control Arm**



**Figure 17**  
**Installing the Outside Air Kit**

Item	Description	Qty.
1	Damper Assembly	1
2	Clamp Band	2
3	Tube Assembly	1
4	Control Arm	1
5	Fastener Package	1
6	Flexible Connector	1



Attach the damper assembly to the fireplace using the screws provided in the fastener package.

Check the operation of the air kit damper by pulling the control arm out to a fully open position, catching the last notch of the control arm to lock it in place. Push the control arm inward to fully close the damper. Intermediate notches in the control arm can be used to adjust incoming air.

**3. Cutting the exterior hole.** Mark and cut out a 4" diameter hole in the exterior wall for air entry. This hole should allow framing (minimum of 2 sides) so the 4" tube assembly may be nailed into position, flush with the exterior wall of the building.

**6. Attaching the flexible duct.** Assemble the flexible duct between the damper assembly and the tube assembly. Secure it into position with the provided clamp bands and screws.

### STEP 9 - Finishing

When finishing the face of the appliance, combustible material may be brought up to the sides of the appliance, but must never overlap onto the black metal. The black metal may be covered with non-combustible material only.

**NOTE:** You cannot cover any of the grilles on this appliance, as this may create a fire hazard. See Figure 18 for grille locations.

After applying the finishing material, a non-combustible sealant, one-half inch wide maximum, must be used to close off any gaps at the top and sides between the fireplace and finishing to prevent cold air leaks. See Figure 18.

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

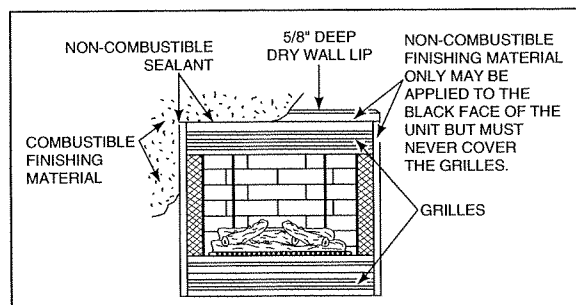
### STEP 10 - Glass Removal

Do not attempt while hot. Remove the top glass closure by pressing up over the glass. Tilt the glass out and lift to remove. To install the glass, reverse the procedure. See Figure 19. Do not operate this appliance without the glass properly positioned and secured.

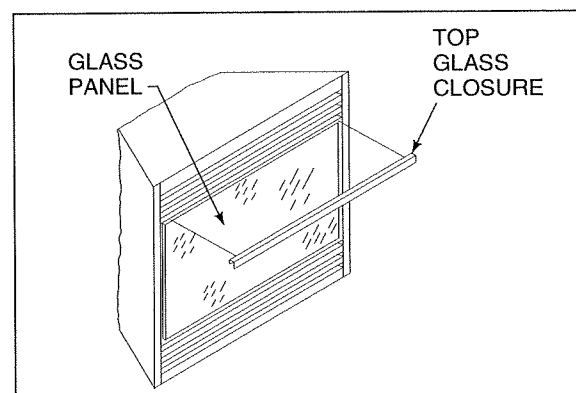
### STEP 11 - Positioning the Logs

Place the shortest sized log on the rear log support. Place the medium sized log in the middle with the notches in the log resting on the log support brackets. Place the longest log in front. See Figure 20.

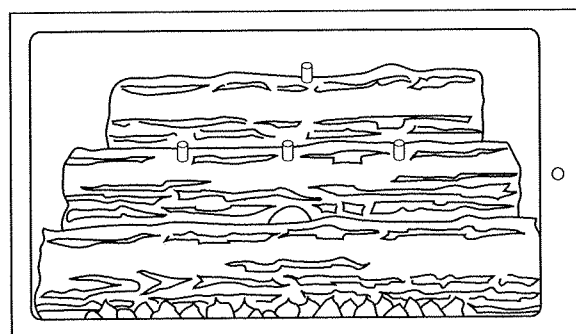
Position the (3) top logs on the bottom logs making sure the pins on the bottom logs fit into the holes on the underside of the top logs. See Figure 21.



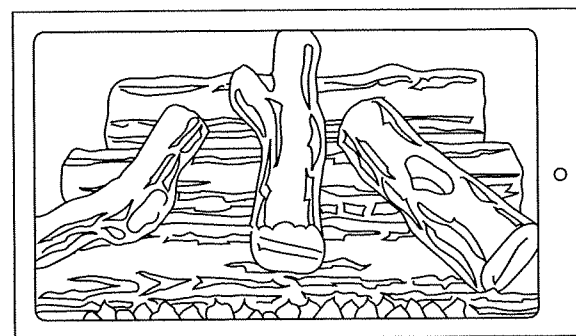
**Figure 18**  
**Finishing Materials**



**Figure 19**  
**Glass Removal**



**Figure 20**  
**Positioning the Bottom Logs**

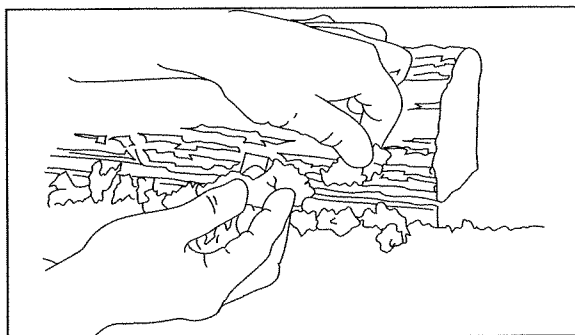


**Figure 21**  
**Positioning the Top Logs**



**STEP 12 - Placing the Rock Wool**

Tear the rock wool into pieces, no bigger than 1/2" diameter, and place them over the front gas ports so that the flame can touch the rock wool. This creates the glowing ember look. Be sure not to pack the rock wool against the gas ports. See Figure 22.



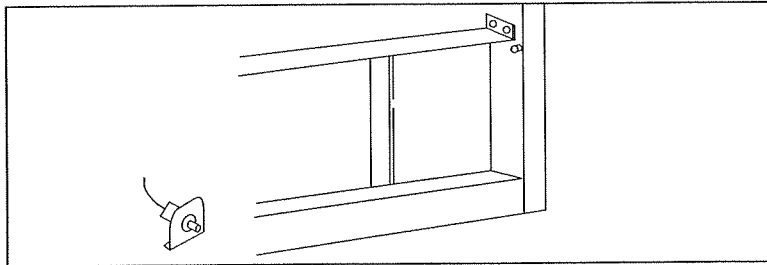
**Figure 22**  
**Placing the Rock Wool**



## VI. OPERATING INSTRUCTIONS

**TO THE CONSUMER:** To determine whether your appliance is an electronic ignition or a standing pilot ignition, remove the lower grille panel (Step 1 on page 18) to examine the wiring system. If your system has a red push button (as shown in Figure 23 below), you own a standing pilot ignition fireplace. If no red button is present, you own an electronic ignition appliance.

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



**Figure 23**  
Standing Pilot Ignition

### FOR YOUR SAFETY READ BEFORE LIGHTING

#### WARNING

**IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.**

#### STANDING PILOT (GC341A)

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

##### WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
  - Do not touch any electric switch; do not use any phone in your building.
  - Immediately call your gas supplier from a neighbor's phone. Follow the supplier's instructions.
  - If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to push in or turn knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it; call a qualified service technician. Forced 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.

#### ELECTRONIC IGNITION (GC341AE)

- A. This appliance (electronic ignition version) does not have a pilot. It is equipped with an ignition device which automatically lights the burner. Do not try to light the burner by hand.
- B. **BEFORE OPERATING** smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

##### WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
  - Do not touch any electric switch; do not use any phone in your building.
  - Immediately call your gas supplier from a neighbor's phone.
  - If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to push in and move the gas control lever. Never use tools. If the lever will not push in or move by hand, do not 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.



**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**

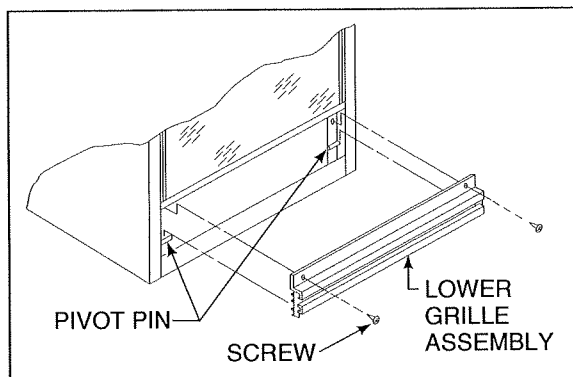
**CLOTHING OR OTHER FLAMMABLE MATERIAL SHOULD NOT BE PLACED ON OR NEAR THE APPLIANCE.**

Before operating this appliance, please review the safety precautions given on page 2 as well as the items listed below:

1. Check to make sure the logs and rock wool have all been placed correctly. (Refer to Steps 11, 12, and 13 on pages 15 and 16).
2. Check to see that all wiring is correct and enclosed to prevent possible shock. This is done by removing the lower grille (follow Step 1 below) to access the control area.
3. Check to ensure there are no gas leaks. This may be done with a soap and water solution.
4. Verify that all venting and caps are unobstructed.
5. Read and understand these instructions thoroughly before attempting to operate this appliance.

**STEP 1- Lower Grille Panel Removal**

Remove the (2) phillips screws. Lift the panel to disengage the pivot pins and pull the panel forward. See Figure 24. The glass panel does not require removal for this.



**Figure 24**  
**Lower Grille Panel Removal**



## A. STANDING PILOT OPERATION

### 1. Initial and Seasonal Lighting Procedure.

Initial lighting constitutes the first time the appliance has been lit after installation. Seasonal lighting refers to lighting the appliance after it has been unused and the gas valve has been turned to OFF.

Be sure the remote wall switch and the gas knob (located inside the lower grille) have been turned to the OFF position. See Figure 25. If they are not, do so and allow the appliance to sit for five minutes so any gas that may have accumulated in the main burner compartment escapes.

Turn the gas knob to PILOT, as shown in Figure 26, and press in. While holding it in, light the pilot by pressing the red ignitor button several times until the pilot ignites. Continue to hold in the gas knob for about one minute after the pilot is lit. Release the gas knob. The pilot should remain lit. If it goes out, turn everything to the OFF position, let it sit for five minutes and repeat this step again.

When the pilot remains lit, turn the gas knob to the ON position. See Figure 27. You may now turn the remote wall switch to the ON position which will turn on the main burner. Watch your appliance display beautiful, dancing flames. Initially, the flames may resemble more of a blue color but after the first 20 minutes of operation, they will become more yellow.

**2. Seasonal Shutdown.** When the burning season comes to an end, the entire system should be shut down. This way, no gas will be running to the appliance while it is not in use.

To shut down the appliance for a long period of time, you must first shut off the main burner by moving the remote wall switch to the OFF position.

Next step, remove the lower grille panel to expose the wiring system. (Follow Step 1 on page 18.) Locate the gas knob and turn it to the PILOT position. Press in and continue turning to the OFF position. Your entire system is now shut down.

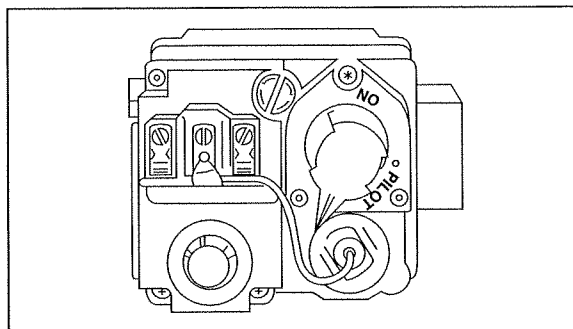
### 3. Lighting Procedure During Regular Use.

Simply turn the wall switch to the ON position. This will ignite the main burner.

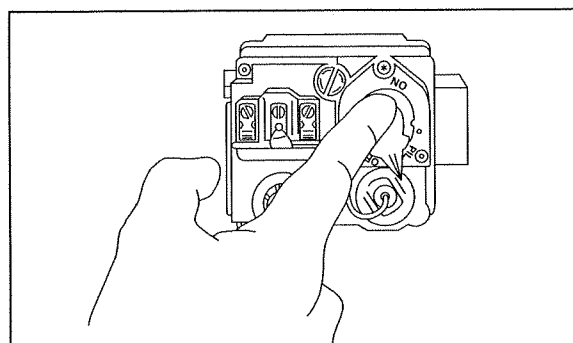
**4. Shutdown During Regular Use.** Simply turn the remote wall switch to OFF. This will disengage the burner and the flames will extinguish. The pilot light will continue to burn.

When first operated, this unit 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.

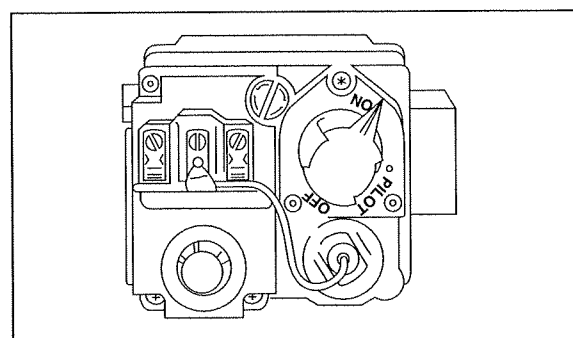
**Note:** Keep the area near the appliance clear and free from combustible materials, gasoline and other flammable vapors and liquids.



**Figure 25**  
Standing Pilot Ignition Valve "OFF"



**Figure 26**  
Standing Pilot Ignition Valve to "PILOT"



**Figure 27**  
Standing Pilot Ignition to "ON"

If you own a standing pilot ignition, skip section B and continue with Step 2.



## B. ELECTRONIC IGNITION OPERATION

### 1. Initial and Seasonal Lighting Procedure.

Initial lighting constitutes the very first time the appliance has been lit after installation. Seasonal lighting refers to lighting the unit after it has been unused and the gas valve has been turned to OFF.

Be sure the remote wall switch and the gas knob (located inside the lower grille) have been turned to the OFF position. See Figure 28. If it is not, do so and allow the appliance to sit for five minutes so any gas that may have accumulated in the main burner compartment escapes.

Locate the gas valve knob inside the lower grille panel and turn it to the ON position. See Figure 29. Then, turn the remote wall switch to ON. This will activate an electronic spark. Watch your appliance display beautiful dancing flames. Initially, the flames may resemble more of a blue color but after the first 20 minutes of operation, they will become more yellow.

**2. Seasonal Shutdown.** When the burning season comes to an end, the entire system should be shut down. **Note: There is a rocker switch on a column in the control area, as well as a wall switch. Both have to be off for the unit to be off.** In this way, no gas will be running to the appliance while it is not in use.

To shut down the appliance for an extended period of time, you must first shut off the main burner by moving the remote wall switch to the OFF position.

The next step is to remove the lower grille panel (Step 1 on page 18) to expose the wiring system. Locate the gas valve knob and turn it to the OFF position. Your entire system is now shut down.

### 3. Lighting Procedure During Regular Use.

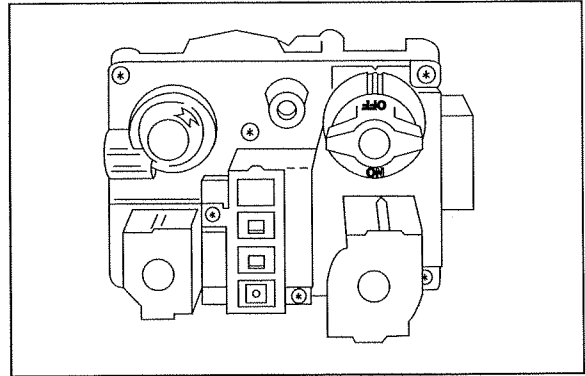
Simply turn the wall switch to the ON position. This will activate the ignitor and the main burner will light.

**4. Shutdown During Regular Use.** Simply turn the remote wall switch to the OFF position. This will disengage the ignitor and the main burner will extinguish.

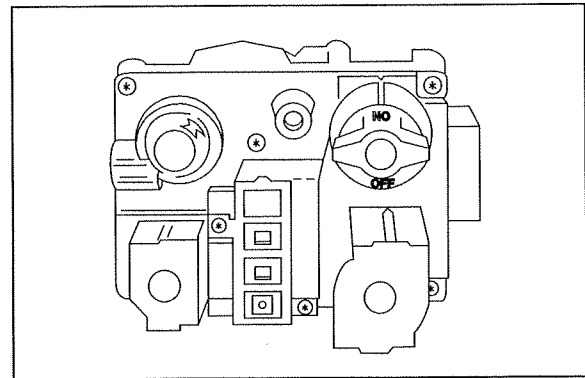
When first operated, this unit may release an odor for the first several hours. This is caused by the curing of the paint and the burning off of any oils remaining from manufacturing.

## STEP 2 - Replacing the Lower Grille Panel

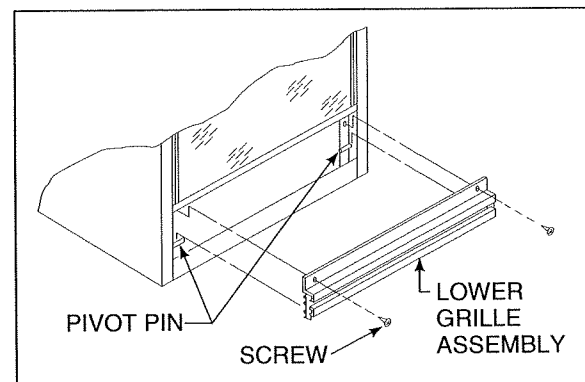
To replace the panel, position it over the pivot pins and return the screws to their original position. The panel does not need screws to stay in place. See Figure 30.



**Figure 28**  
Electronic Ignition Valve to "OFF"



**Figure 29**  
Electronic Ignition Valve to "ON"



**Figure 30**  
Lower Grille Panel Replacement

**NOTE: Keep the area near the appliance clear and free from combustible materials, gasoline and other flammable vapors and liquids.**



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## VII. MAINTENANCE INSTRUCTIONS

### 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 gas valve and the remote wall switch before cleaning.

### Checking flame patterns

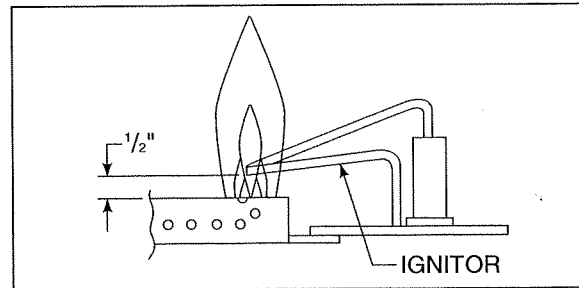
Visually check the flame of the burner periodically, making sure the flames are steady; not lifting or floating. The flame color should be blue with yellow tips. The ignitor (electronic) or thermopile (standing pilot) tips should be covered with flame. See Figures 31 through 34.

### Venting system inspection

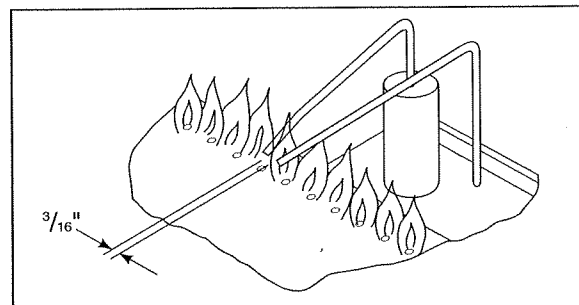
The appliance and venting system should be inspected before use, and at least annually, by a qualified field service person, to ensure that the flow of combustion and ventilation air is not obstructed.

### Log cleaning

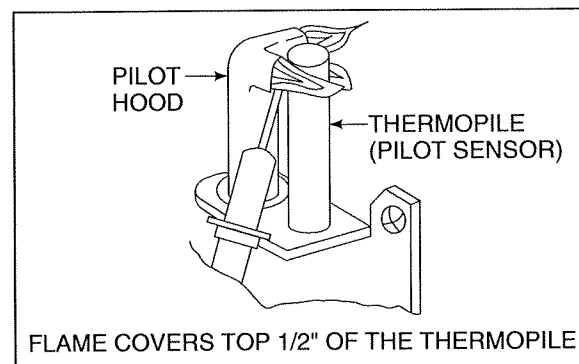
Logs can be easily lifted out of position. Carbon build-up can be removed with a vacuum cleaner.



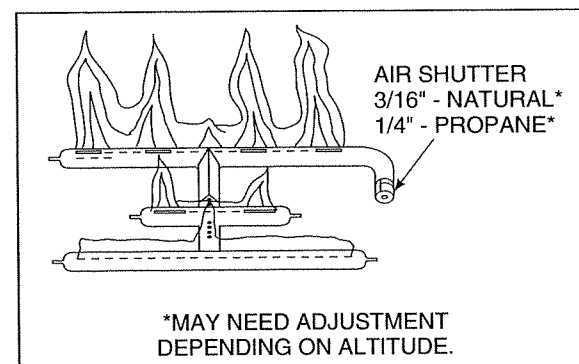
**Figure 31**  
**Electronic Ignition**



**Figure 32**  
**Electronic Ignition**



**Figure 33**  
**Standing Pilot**



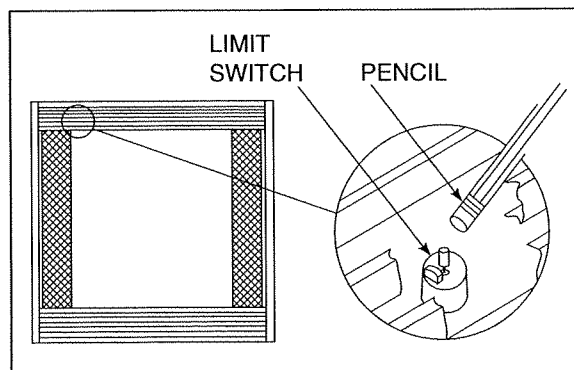
**Figure 34**  
**Both Ignitions**



### High Limit Safety Switch

A limit switch has been installed on the GC341A. This switch automatically turns off the unit if the unit becomes too hot. If this happens, do not attempt to operate the unit until it has been examined by a qualified service technician.

The reset switch for the high limit safety switch is located behind the upper grille panel on the right hand side, behind the decorative screen. See Figure 35.



**Figure 35**  
**Limit Switch Location**



## VIII. TROUBLE SHOOTING

### ELECTRONIC IGNITION (GC341AE)

Problem	Cause	Corrective Action
1. Spark ignitor will not light burner after repeated attempts.	A. Defective ignitor; loose wire.  B. Misaligned electrode at pilot.	Check for loose connections on electrode and ignitor. Refer to the wiring diagram on page 12 for assistance.  Check for spark. If electrode connection is correct and there is no spark, replace ignitor.  Spark should be extending approx. 3/16" to ground wire. See Figure 32. Adjust gap to give proper spark. Remove hands from electrode before attempting.
2. Burner will not stay lit.	A. Defective flame sensor.  B. No ground.	Check burner flame. See Figure 32. Adjust sensor if necessary.  Be sure sensor is secured tight into bracket and bracket is secured tightly to the unit.  Be sure wiring connections are tight throughout system, including high limit switch.  Check that wiring is grounded as shown in Figure 13.
3. With valve and wall switch in "ON" position, no gas to burner.	A. Gas valve(s) shut off.  B. Plugged burner orifice.  C. Wall switch defective.	Check all gas valves leading to appliance. Turn to the "ON" position. Check wall switch for proper connections. Check for 24 volt power off secondary on the transformer.  Check burner orifice; remove blockage.  Check power source (fuses).
4. Glass doors fog up.	A. A normal result of gas combustion.	No action is necessary. After the fireplace has warmed up, the glass will clear.
5. Blue flames.	A. A normal result during the first 20 minutes of burning.  B. Improper air mixture.	No action is necessary. Flames will begin to turn more yellowish after about 20 minutes of burning. If blue flames persist, check air shutter setting and check log and embers are positioned correctly.  Check air shutter setting.
6. Appliance turns itself off after a period of time.	A. High limit safety switch is activated.	Have a qualified service technician check venting system for blockage, e.g., bird nests, damage. Ensure proper venting condition and reset limit switch located behind the upper grill panel on the right hand side. To reset limit switch, insert a long, narrow object such as a pencil through the hole provided, and <del>press in the button on the back of the limit switch.</del> (Refer to Figure 35 on page 22.)



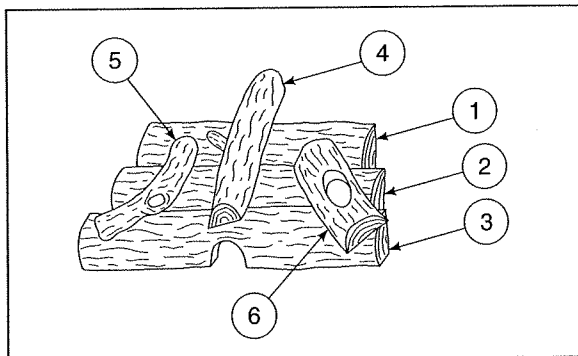
**STANDING PILOT (GC341A)**

Problem	Cause	Corrective Action
1. Burner will not ignite.	A. 110 volts of electrical current has burned out the valve.	Remove voltage and replace valve and thermopile.
2. Spark ignitor will not light the pilot after repeated pressing of red button.	A. Defective ignitor.  B. Misaligned electrode.  C. No gas.	Check for loose connections on electrode and ignitor.  Check for spark. If electrode connection is correct and no spark, replace ignitor.  Spark should be extending approx. 1/8" to the bottom of the pilot hood. Adjust gap to give proper spark. Remove hands from electrode before pressing red button.  Check valve knob position and any shut-off valves — if propane, check for an empty tank.
3. Pilot light will not stay lit.	A. Defective pilot thermopile.	Check pilot flame. See Figure 33. Adjust flame if necessary.  Be sure thermopile is secured tight into pilot bracket.  Be sure wiring connections are tight throughout system, including high limit switch.  Check thermopile voltage with millivolt meter. Depress valve knob and light pilot. Meter should read min. of 325 millivolt. If not, replace the thermopile.
4. With pilot lit, valve and on/off switch in "On" position, no gas to burner.	A. On/off switch defective.  B. Plugged burner orifice.	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 does not come on, connect to on/off switch junctions at valve. If burner comes on, replace wires.  Check burner orifice; remove blockage.
5. Appliance turns itself off after a period of time.	A. High limit safety switch is activated.	Have a qualified service technician check venting system for blockage, e.g., bird nests, damage. Ensure proper venting condition and reset limit switch located on draft hood. To reset limit switch, insert a long narrow object such as a pencil through the hole provided, and press in the button on the back of the limit switch.
6. Glass doors fog up.	A. A normal result of gas combustion.	No action is necessary. After the appliance has warmed up, the glass will clear.
7. Blue flames.	A. A normal result during the first 20 minutes of burning.  B. Improper air mixture.	No action is necessary. Flames will begin to turn more yellowish after about 20 minutes of burning. <i>Removed a sentence here.</i>  Check air shutter setting.

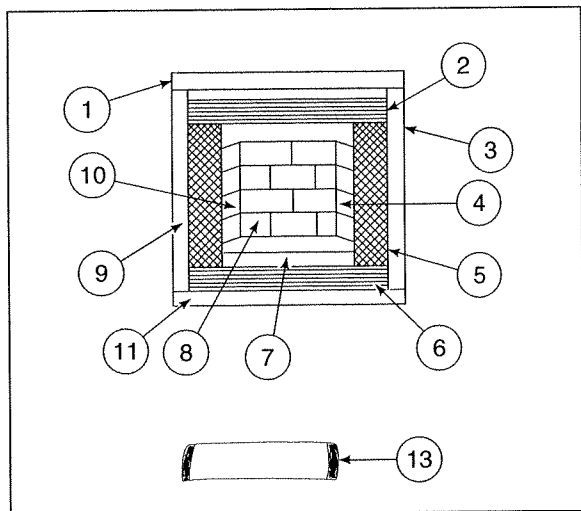


## IX. REPLACEMENT PARTS

Replacement parts are available from your distributor/dealer, or through Heatilator Inc., 1915 W. Saunders Street, Mt. Pleasant, Iowa 52641.



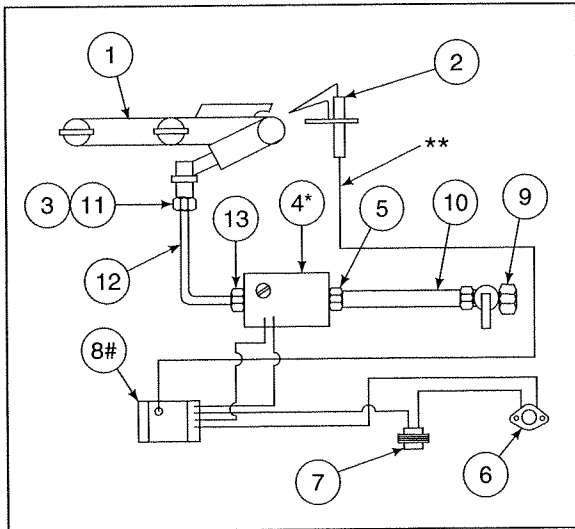
ITEM	PART NO.	DESCRIPTION
1	18758	Rear Log
2	18757	Middle Log
3	19744	Front Log
4	18781	Top Middle Log
5	19743	Top Left Log
6	18780	Top Right Log



ITEM	PART NO.	DESCRIPTION
1	14027	Top Front
2	16172	Upper Grille
3	16305	Right Column
4	13958	Right Refractory
5	16141	Screen
6	16633	Lower Grille
7	13957	Ash Lip
8	12329	Back Refractory
9	16305	Left Column
10	13959	Left Refractory
11	16632	Lower Face
12	16146	Glass Panel (Not Shown)
13	14333	Rock Wool

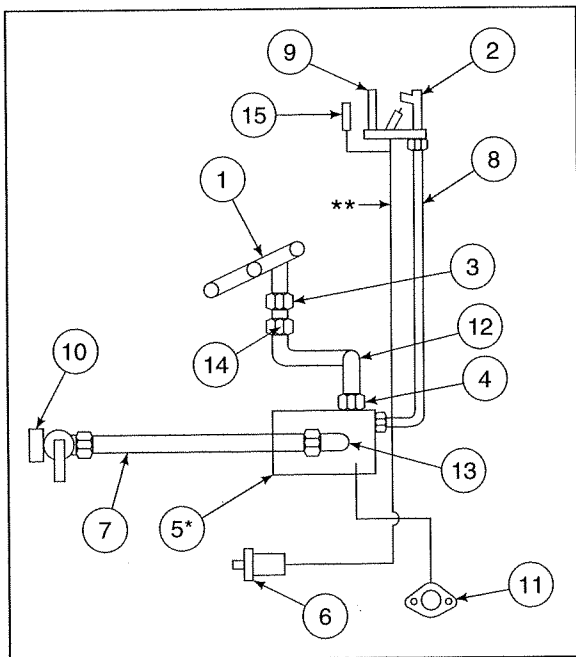


**ELECTRONIC IGNITION - GC341AE**



ITEM	PART NO.	DESCRIPTION
1	18736	Burner
2	15689	Ignitor
3	14046	Orifice - Natural
4*	71515 71516	Valve - Natural (White-Rodgers) Valve - Natural (Robertshaw)
5	15821	90° Elbow - Brass
6	13595	High Limit Switch
7	17836	Transformer
8#	15695	Ignition Control (Channel Products) Ignition Control (Fenwal)
9	15697	On/Off Valve
10	17245	Flexible Line
11	17237	90° Bulkhead
12	19891	3/8" Gas Tubing
13	13425	Male Connector - Brass
<b>IF CONVERTED TO PROPANE</b>		
3	14047	Orifice - Propane
4*	71517 71518	Valve - Propane (White-Rodgers) Valve - Propane (Robertshaw)

**STANDING PILOT - GC341A**



ITEM	PART NO.	DESCRIPTION
1	18736	Burner
2	13406	Pilot Assembly - Natural
3	16752	Orifice - Natural
4	13425	Male Connector - Brass
5*	71491 71492	Valve - Natural (Robertshaw) Valve - Natural (White-Rodgers)
6	13416	Push Button Ignitor
7	17245	Flexible Line
8	19892 19893	1/4" Pilot Tubing (Robertshaw) 1/4" Pilot Tubing (White-Rodgers)
9	13411	Thermopile (Pilot Sensor)
10	15697	On/Off Valve
11	13595	High Limit Switch
12	19891	3/8" Gas Tubing
13	14326	90° Elbow - Brass
14	17237	90° Bulkhead
15	18555	Flame Sensor (Canadian models only)
<b>IF CONVERTED TO PROPANE</b>		
2	13444	Pilot Assembly - Propane
3	14047	Orifice - Propane
5*	71485 71486	Valve - Propane (White-Rodgers) Valve - Propane (Robertshaw)

\* Ignition control identification must be made. They are marked Channel Products or Fenwal.

#\* Valve identification must be made. They are marked "White-Rodgers" or "Robertshaw".

\*\*\* If any of the original wiring as supplied with the appliance must be replaced, it must be replaced with Type 18 ga., 105C wire, or its equivalent.



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# **Attention**

## **APPLIANCE INSTALLER**

***Please return these  
Operating & Installation  
Instructions to the  
Appliance  
for Consumer Use***

**heatilator®**  
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Mt. Pleasant, IA 52641  
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