

# heatilator®

THE WOODBURNING SPECIALISTS

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

## G200 G200L INSTALLATION & OPERATING INSTRUCTIONS FOR RESIDENTIAL USE

### I. LISTINGS AND CODE APPROVALS

These gas fireplaces have been tested in accordance with National Safety Standards, and have been LISTED by the American Gas Association for installation and operation as described in these Installation & Operating Instructions.

Check with your local building code agency before you begin installation to ensure compliance with local codes, including the need for "permits" and follow-up inspections. If any problems are encountered regarding code approvals, or if you wish clarification of any of the instructions contained here, contact: Customer Relations Department, Heatilator Inc., 1915 W. Saunders Street, Mt. Pleasant, Iowa 52641. HEATILATOR® is a registered trademark of Heatilator Inc., Division, HON INDUSTRIES.

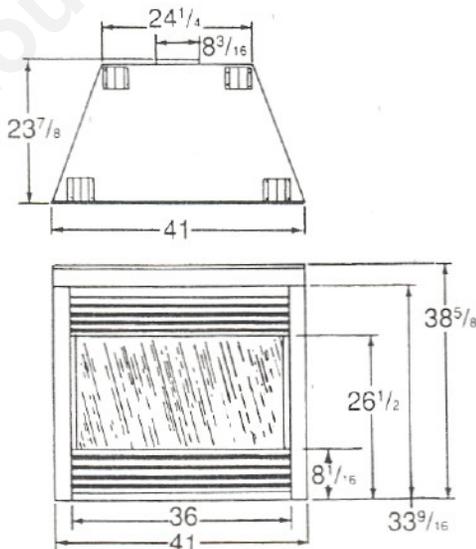
#### FOR YOUR SAFETY

##### IF YOU SMELL GAS:

1. OPEN WINDOWS.
2. DON'T TOUCH ELECTRICAL SWITCHES.
3. EXTINGUISH ANY OPEN FLAMES.
4. IMMEDIATELY CALL YOUR 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.



ALL DIMENSIONS IN INCHES

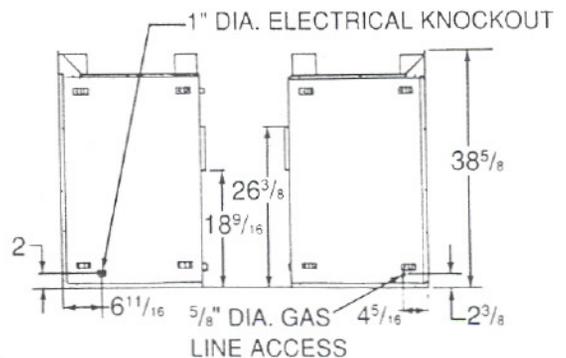


Figure 1

## II. GENERAL INFORMATION

This installation must conform with local codes or, in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1-1984.

**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.**

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

Minimum clearances to combustibles are: Floor 0", Back 0", Sides 0", Ceiling 30".

When the fireplace is installed directly on carpeting, tile or other combustible material other than wood flooring, the appliance shall be installed on a metal or wood panel extending the full width and depth of the fireplace.

Provide for adequate combustion and ventilation air.

For Natural Gas, the minimum inlet gas supply pressure is 4.5 inches water column, for the purpose of input adjustment. Input rate is 28,000 BTU/HR. The maximum inlet gas pressure is 11.0 inches water column. For use with LP, the pressure should be at 11.0 inches water column.

A 1/8" NPT plugged tapping is provided on the gas control, near the outlet to the Main Burner, for a test gage connection.

For high elevation, refer to ANSI Z223.1-1984, Appendix F, for resizing orifice.

**DUE TO HIGH TEMPERATURES, THE APPLIANCE SHOULD BE LOCATED OUT OF TRAFFIC AND AWAY FROM FURNITURE AND DRAPERIES.**

**WARNING: THIS APPLIANCE MAY ONLY USE THE DIRECT VENT CHIMNEY SYSTEM AND MUST NOT BE CONNECTED TO A CHIMNEY FLUE SERVICING A SEPARATE SOLID FUEL BURNING APPLIANCE.**

## III. FIREPLACE LOCATIONS, SPACE AND CONSTRUCTION REQUIREMENTS

The G200 or G200L gas fireplace can be installed in a wide variety of ways and will fit nearly any room layout. It may be installed in a recessed position, framed out into the room, or across a corner. The unit may be installed at a height level with the floor, or it can be raised up from the floor to enhance its visual impact. Figure 2 illustrates a variety of ways the fireplace may be located in a room.

Proper clearances to combustible sidewalls, as illustrated in Figure 2, must be maintained.

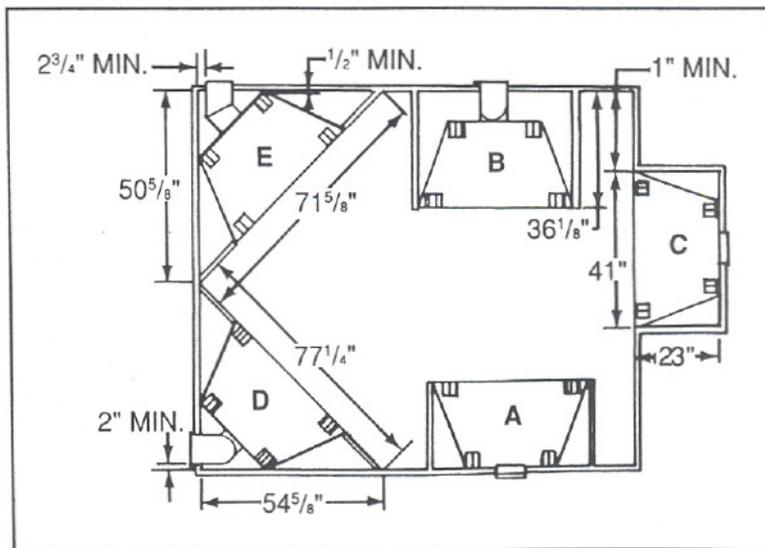


Figure 2

## IV. STEP-BY-STEP INSTALLATION

### 1. FOR STRAIGHT OUT VENTING

#### STEP 1A

The fireplace will fit a framed opening of 41 1/2" wide x 38 5/8" tall. The cavity depth must be no less than 23 1/2".

#### STEP 2A

Install the gas line piping up to the left side of the fireplace. A 1/2" NPT gas connection should be positioned 2 3/8" above the floor and 4 5/16" from the front of the unit. A separate shut-off gas valve (not supplied) should always be installed. Plan ahead for easy access.

#### STEP 3

At the back of the cavity a 10" x 12" hole must be cut and framed in. If the wall is non-combustible, such as masonry block or concrete, a 9" diameter round is acceptable. See Figure 3 for hole location. Proceed to STEPS 1B through 5B for corner installations, or STEPS 1C through 5C for elevated installations.

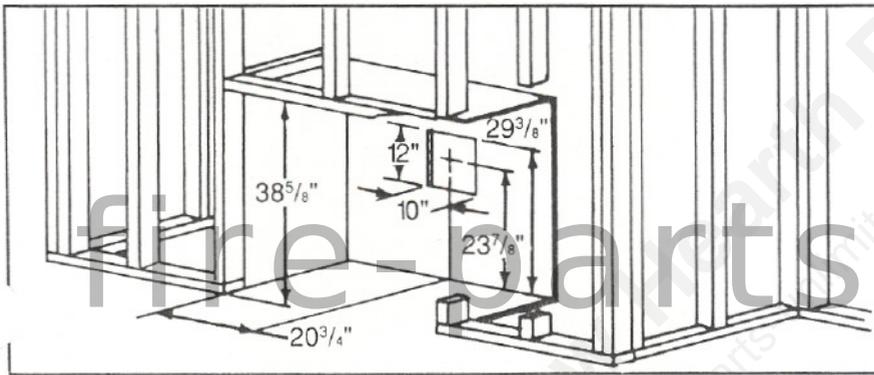


Figure 3

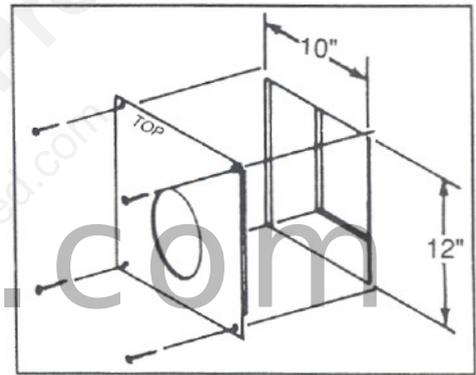


Figure 4

#### STEP 4A

Mount the Vent Kit (VK1) to the back of the unit. This kit will allow installation for a wall thickness from 4 1/2" to 20".

#### STEP 5A

Install the smallest 4" diameter pipe. Slide it all the way over the internal exhaust pipe.

Install the smallest 8" diameter pipe. Slide it over the 8" intake pipe on the unit using (3) screws to secure.

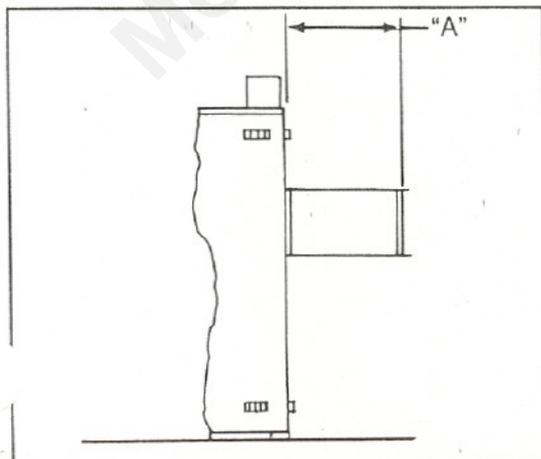


Figure 5

TABLE 1

WALL THICKNESS	EXTENDING FROM UNIT BACK	
	"A" 8" PIPE	"A" 4" PIPE
4 1/2"	5 3/4"	7"
5"	6 1/4"	7 1/2"
6"	7 1/4"	8 1/2"
8"	9 1/4"	10 1/2"
10"	11 1/4"	12 1/2"
12"	13 1/4"	14 1/2"
14"	15 1/4"	16 1/2"
16"	17 1/4"	18 1/2"
18"	19 1/4"	20 1/2"

If the wall thickness is 4 1/2", no other sections are needed. For thicker walls, slide the next section onto the first section until proper length is attained as shown in Figure 5 and Table 1. A 2" overlap must be maintained, and the pipe sections must be drilled and screwed in (3) places. Proceed to STEP 6.

## B. INSTALLATION FOR CORNER VENTING

### STEP 1B

The fireplace MUST set at a 45° angle. The optional VK2 Vent Kit is required. It consists of (1) 4" 45° elbow and (1) 8" 45° elbow.

### STEP 2B

The wall shield opening location and size is shown in Figure 6. Minimum framing dimensions are also shown in Figure 2E.

### STEP 3B

The elbows must first be attached for a left or right installation. See Figure 2E. Use (3) screws per attachment.

### STEP 4B

Mount the Vent Kit (VK1) to the elbows. This will allow installation for a wall thickness from 4 1/2" to 13 1/2".

### STEP 5B

Install the smallest 4" diameter pipe over the inner elbow.

Install the smallest 8" diameter pipe over the outer elbow using (3) screws to secure.

If the wall thickness is 4 1/2", no other sections are required. For thicker walls, slide the next section onto the first section until proper length is attained as shown in Figure 7 and Table 2. A 2" overlap must be maintained, and the pipe sections must be drilled and screwed in (3) places. Proceed to STEP 6.

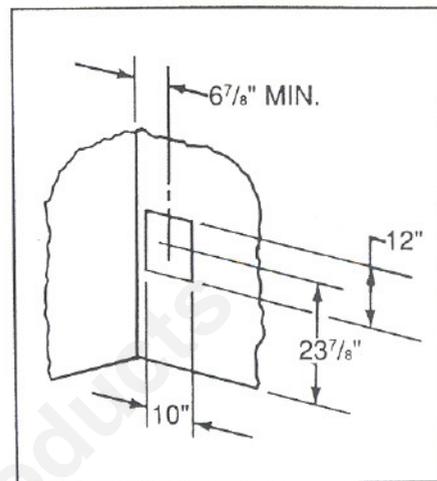


Figure 6

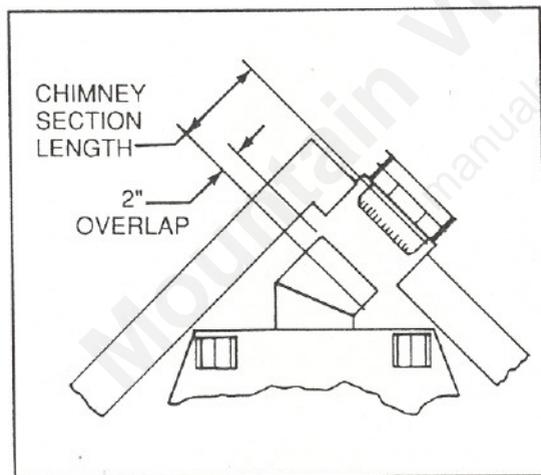


Figure 7

TABLE 2

WALL THICKNESS	CHIMNEY SECTION LENGTH	
	8" PIPE	4" PIPE
4 1/2"	9"	10 1/4"
5"	9 1/2"	10 3/4"
6"	10 1/2"	11 3/4"
8"	12 1/2"	13 3/4"
10"	14 1/2"	15 3/4"
12"	16 1/2"	17 3/4"
14"	18 1/2"	19 3/4"
16"	20 1/2"	21 3/4"
18"	22 1/2"	23 3/4"

## C. ELEVATED CHIMNEY INSTALLATIONS

### STEP 1C

This installation can be done in two configurations, as shown in Figure 2B or 2D. These installations require the use of Vent Kit VK3. This Kit contains (2) 4" 90° elbows, (2) 8" 90° elbows, (1) 4" 3' pipe and (1) 8" 3' pipe.

**STEP 2C**

The wall shield opening location and size is shown in Figure 8. The minimum framing dimensions are also shown in Figures 2B, 2D and 9.

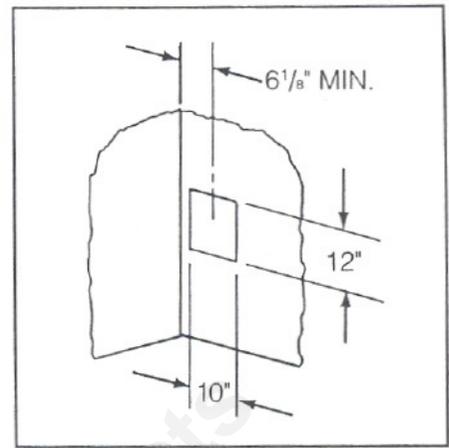


Figure 8

TABLE 3

"X" WALL SHIELD OPENING LOCATION	"Y"—CHIMNEY LOCATION LENGTH	
	8" PIPE	4" PIPE
35 1/2"	4"	4"
39 1/2"	8"	8"
43 1/2"	12"	12"
47 1/2"	16"	16"
51 1/2"	20"	20"
55 1/2"	24"	24"
59 1/2"	28"	28"
63 1/2"	32"	32"
67 1/2"	36"	36"

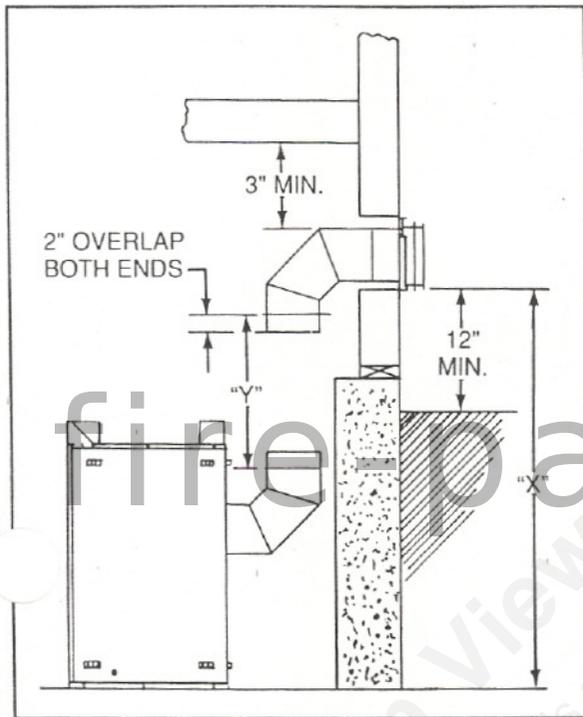


Figure 9

**STEP 4C**

Mount the Vent Kit (VK1) to the elbows. This will allow installation for a wall thickness from 4 1/2 to 13 1/2".

TABLE 4

"A" WALL THICKNESS	CHIMNEY SECTION LENGTH	
	8" PIPE	4" PIPE
4 1/2"	4 1/2"	5 3/4"
5"	5"	6 1/4"
6"	6"	7 1/4"
8"	8"	9 1/4"
10"	10"	11 1/4"
12"	12"	13 1/4"
14"	14"	15 1/4"
16"	16"	17 1/4"
18"	18"	19 1/4"

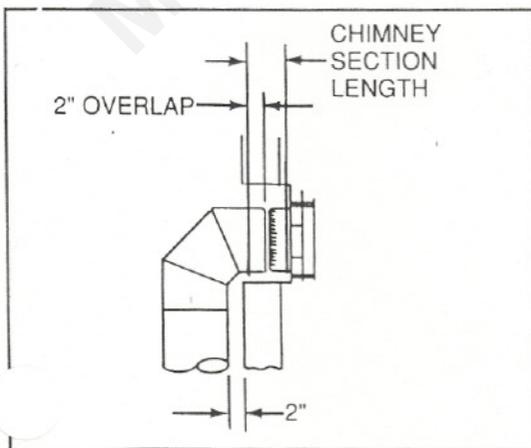


Figure 10

Add the last two sections of pipe to go through the wall. The length can be obtained from Figure 10 and Table 4. Proceed to STEP 6.

**STEP 6**

Position the interior wall shield into position and secure with (4) fasteners, (1) in each corner. See Figure 4.

**STEP 7**

Slide the unit into position. The pipe sections should slide through the interior wall shield and extend past the outside wall  $3/4$ " for the 8" pipe and 2" for the 4" pipe.

**STEP 8**

Secure the unit to the floor using a minimum of (2) fasteners.

**STEP 9**

To install the cap, slide the cap pipe sections into the vent pipes. Secure the cap flush to the wall using (8) fasteners provided. Seal the cap to the wall with a mastic such as silicone caulking.

**STEP 10**

Connect the gas line to the fireplace valve inlet, using  $3/8$ " pipe. Check for gas leaks with a soap and water solution. For a gas line connection of 25' long, it is recommended to use  $1/2$ " pipe, then reduce to  $3/8$ " pipe at the unit.

**NOTE:** 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 the testing.

**STEP 11**

Remote wall switch hook-up should be installed in a convenient location. Run 18 awg millivolt wire (Bell) to the firebox. **NOTE:** Maximum length is 40'. Follow Figure 11A for wiring diagram.

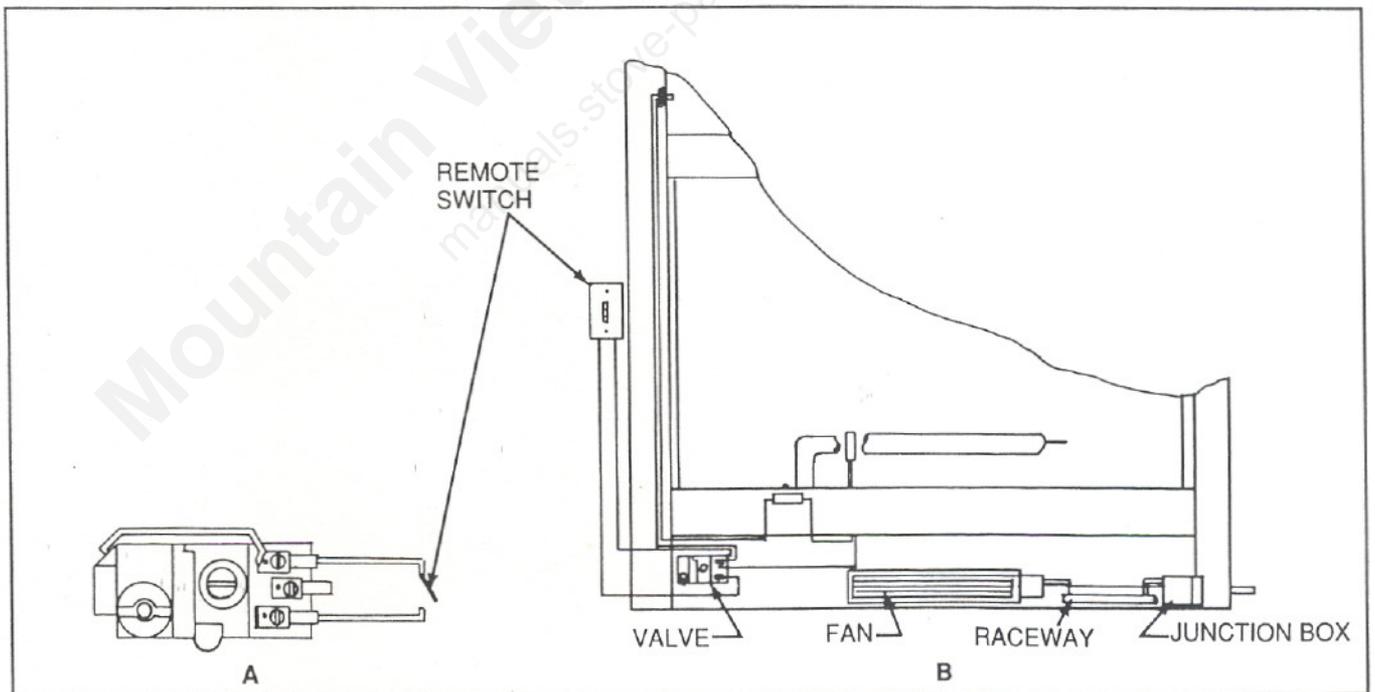


Figure 11

## □ STEP 12

For installations with optional fan package, or if a fan is ever intended to be installed, the wiring should be done at this time. See Figure 11B. The appliance must be electrically grounded in accordance with local codes, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70-1984.

## □ STEP 13

**Before Operation.** The hood must be installed by removing the upper grille and securing it with the fasteners supplied with the unit.

## □ STEP 14

**Finishing the Unit.** When finishing the face of the unit, combustible material may be brought up to the sides of the unit, 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 air slots in the unit, as this may create a fire hazard.

## V. OPERATING INSTRUCTIONS

This gas fireplace uses a low voltage (millivolt) control system, consisting of a Pilot Burner, Thermopile, Gas Control Valve, Limit Switch and an On/Off Switch.

### LIGHTING PROCEDURE (See Figure 12).

1. Turn the wall switch to the "Off" position.
2. Turn the gas knob to the "Off" position.
3. Wait five minutes to allow gas, that may have accumulated in the main burner compartment, to escape.
4. Turn the gas knob to the "Pilot" position. Depress and hold the gas knob while pressing the ignitor button. Allow the pilot to burn 1 1/2 minutes before releasing the gas knob.
6. Turn the gas knob to the "On" position.
7. Turn on the main burner by using the wall switch.

### SHUTDOWN PROCEDURE

1. To shut off the main burner, move the wall switch to the "Off" position.
2. Turn the gas knob to "Pilot" to turn off the gas to the main burner.
3. Depress and turn the gas knob to "Off" to shut off the pilot.

### PILOT BURNER ADJUSTMENT

1. Remove the pilot adjustment cap.
2. Adjust the pilot key to provide properly sized flame. See Figure 13.
3. Replace the pilot adjustment cap.

### MAINTENANCE INSTRUCTIONS

Keep the burner and control compartment clean by brushing and vacuuming at least once a year. Always turn off the pilot before cleaning.

Periodically visually check the flame of the pilot and burner, making sure the flames are steady; not lifting or floating. The flame color should be blue with yellow tips. The top 3/8" of the pilot thermopile should be covered with flame. See Figures 13 and 14.

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

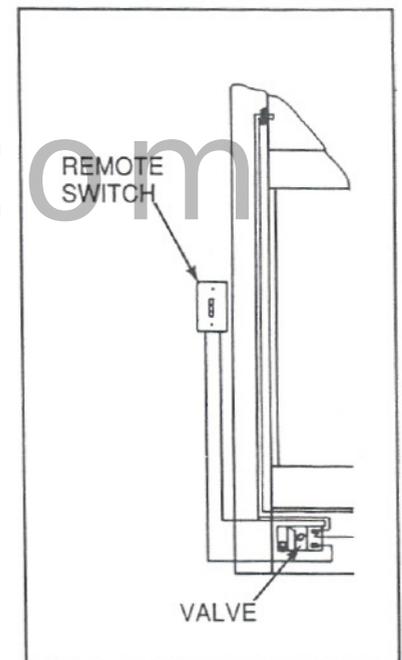


Figure 12

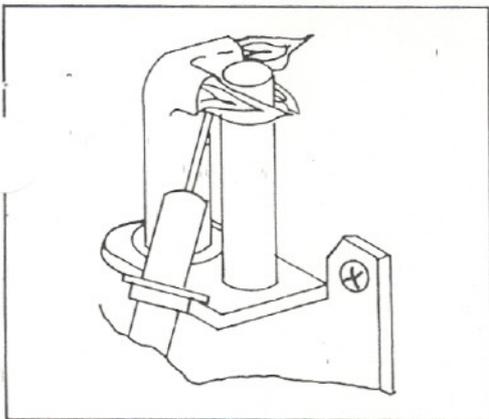


Figure 13

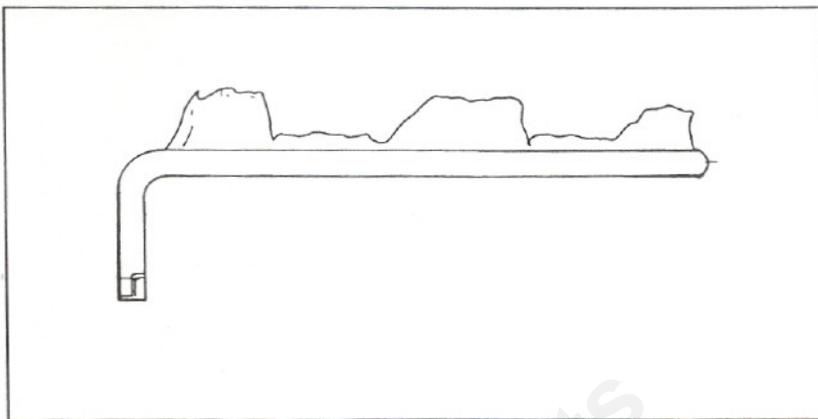


Figure 14

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

NOTE: When first operated, the unit will release an odor for about an hour. This is caused by the curing of the paint and the burning off of any oils remaining from manufacturing. The glass panel will require removal and cleaning after the unit has cooled down. **DO NOT ATTEMPT TO REMOVE THE GLASS WHILE IT IS HOT.**

#### WARNING

**CHILDREN AND ADULTS SHOULD BE ALERTED TO THE HAZARDS OF HIGH SURFACE TEMPERATURE 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 THE APPLIANCE.**

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

NOTE: Each time the appliance is lit, it may cause condensation and fog the glass. This condensation and fog will disappear in a few minutes.

To remove glass for cleaning of burner area **(DO NOT REMOVE WHEN HOT)**:

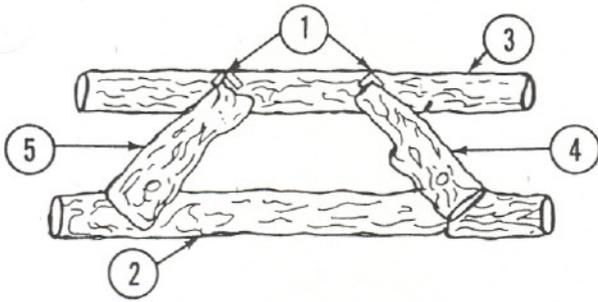
1. Remove top louver set by lifting about 1/4" and sliding it off the keyways.
2. Remove the (5) screws at the top of the glass; hold the glass to ensure it doesn't fall.
3. Remove the top bracket; tilt the glass out and lift it out of the bottom channel.

To replace glass, reverse the process.

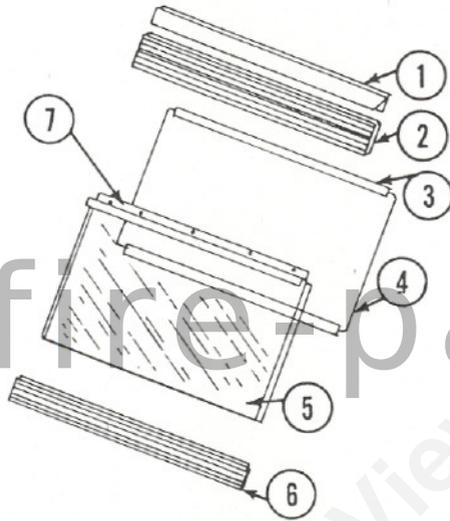
Never operate the appliance without glass properly secured in place.

**Log replacement.** After removing glass, logs can be lifted out of position. If for any reason one should need replacement, you must use the proper replacement log. The position of these logs must be as shown in the diagram or Replacement Parts. The top two logs must be locked into position by the rods and support brackets built into the unit. Note: Improper positioning of logs may create carbon build-up and will alter the unit's performance.

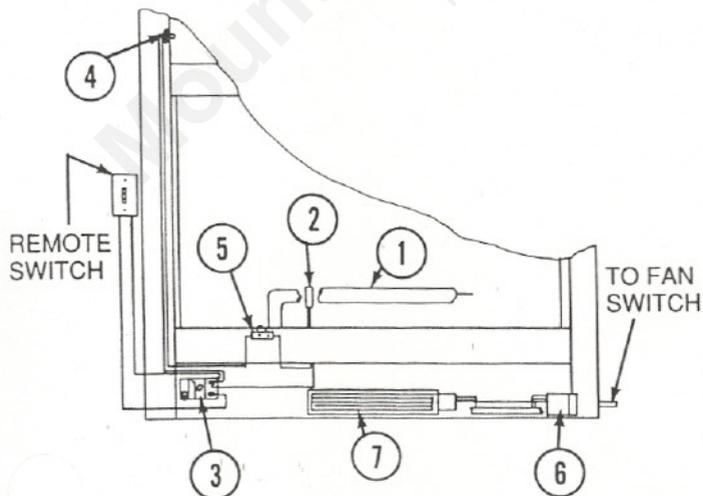
## REPLACEMENT PARTS



ITEM NO.	PART NO.	DESCRIPTION
1	13392	Log Bracket
2	13421	Front Log
3	13422	Back Log
4	13423	Right Log
5	13424	Left Log

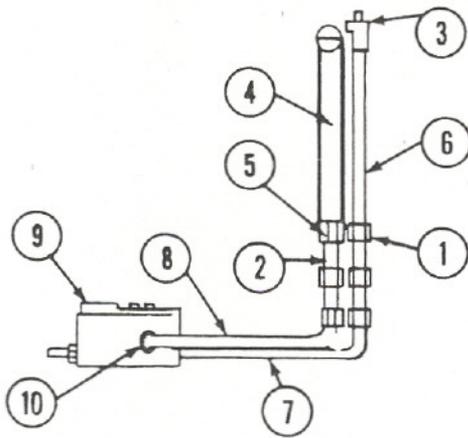


ITEM NO.	PART NO.	DESCRIPTION
1	13441	Hood
2	13434	Upper Grille Assembly
3	13378	Seal Bracket
4	13377	Glass Seal
5	13379	Glass Panel
6	13438	Lower Grille Assembly
7	13376	Glass Frame



ITEM NO.	PART NO.	DESCRIPTION
1	13407	Burner Assembly
2	13411	Thermopile
3	12191	Valve
4	13420	Limit Switch
5	13426	Micro Switch
6	JK4	Junction Box Assembly*
7	FK4	Fan Kit*

\*Optional Components



ITEM NO.	PART NO.	DESCRIPTION
1	13404	Bulkhead Union 1/4"
2	13405	Bulkhead Union 3/8"
3	13406	Orifice W/Bracket G200
	13444	Orifice W/Bracket G200L
4	13407	Burner Assembly
5	13410	Orifice G200
	13445	Orifice G200L
6	13412	Pilot Tube
7	13413	Pilot Tube
8	13414	Burner Tube
9	12191	Valve
10	13425	Male Connector

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

### TROUBLE SHOOTING

Problem	Cause	Corrective Action
1. Spark ignitor will not light after repeat pressing of Red Button.	A. Defective ignitor. B. Misaligned electrode at pilot.	Check for spark. If electrode connection is correct and no spark, replace ignitor. Spark should be extending approx. 1/8" to thermopile. Adjust gap to give proper spark. Remove hands from electrode before pressing Red Button.
2. Pilot light will not stay lit.	A. Defective pilot generator	Check pilot flame, See Fig. 8. Adjust flame if necessary. Be sure wiring connections are tight and generator is secured tight into pilot bracket. Check generator voltage with millivolt meter. Depress valve knob and light pilot. Meter should read min. of 325 millivolt. If not, replace generator.
3. With pilot lit, valve and wall switch in "On" position, no gas to burner.	A. Wall switch defective B. Plugged burner orifice.	Check wall switch for proper connections. Connect wires across terminal at wall switch. If burner comes on, replace wall switch. If burner does not come on, connect to wall switch junctions at valve. If burner comes on, replace wires. Check burner orifice, remove blockage.