

heatilator®

The first name in fireplaces

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



EZ EZL EZE EZLE INSTALLATION & OPERATING INSTRUCTIONS

I. LISTINGS AND CODE APPROVALS

These gas appliances, EZ and EZL with standing safety pilot, and EZE and EZLE with electronic direct spark ignition, have been tested in accordance with National Safety Standards, and have been CERTIFIED by Warnock Hersey for installation and operation as described in these Installation & Operating Instructions in the United States and Canada. All components are UL, AGA, CGA or CSA safety certified.

Check with your local building code agency before you begin your 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 your local distributor/dealer, or Customer Relations Department, Heatilator Inc., 1915 W. Saunders Street, Mt. Pleasant, Iowa 52641. HEATILATOR® is a registered trademark of Heatilator Inc., a HON INDUSTRIES company.

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.

FOR YOUR SAFETY

DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS AND LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.

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.

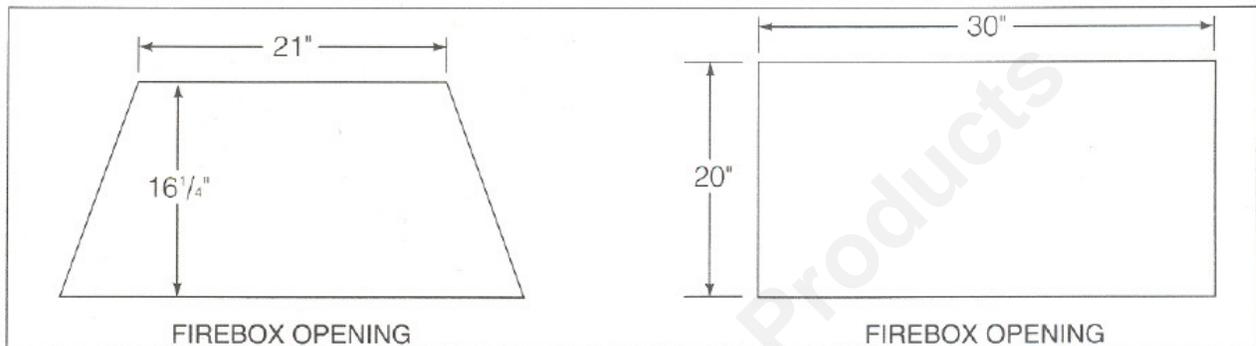
Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

WARNING

FAILURE TO INSTALL THIS APPLIANCE PROPERLY MAY CAUSE A HOUSE FIRE.

III. DIMENSIONAL REQUIREMENTS FOR INSTALLATION

The dimensions shown below are MINIMUM dimensions in which your EZ Series gas appliances will fit. The standard surround will cover openings 40 1/2" W x 24 1/2" H. The optional EX65 Extension covers up to 46" W x 33" H.



Some zero clearance (factory-built) fireplaces may require the removal of the smoke shield, ash lip and damper blade. Do not discard these components; they may be needed in the event you or future homeowners may wish to remove the gas insert and return to burning wood in your fireplace.

IV. STEP BY STEP INSTALLATION

STEP 1 - ELECTRICAL REQUIREMENTS & WIRING DIAGRAM

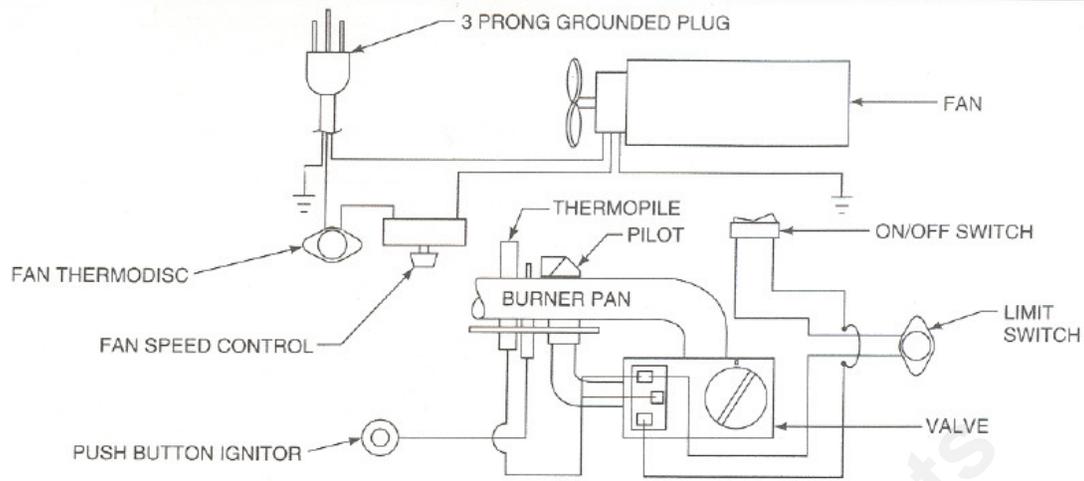
These units receive 110 volt electricity through the 3-prong power cord supplied with the units. The EZE and EZLE appliances require a 110V power supply for operation. The EZ and EZL standing safety pilot units only require 110V for fan operation. The receptacle must be electrically wired and grounded in accordance with local codes or, in the absence of local codes, with National Electric Code ANSI/NFPA 70-latest edition or, in Canada, the current CSA C22.1 Canadian Electrical Code. DO NOT REMOVE OR ALTER THE 3-PRONG GROUNDED PLUG. See Figure 2A or B (page 4).

STEP 2 - VENTING REQUIREMENTS

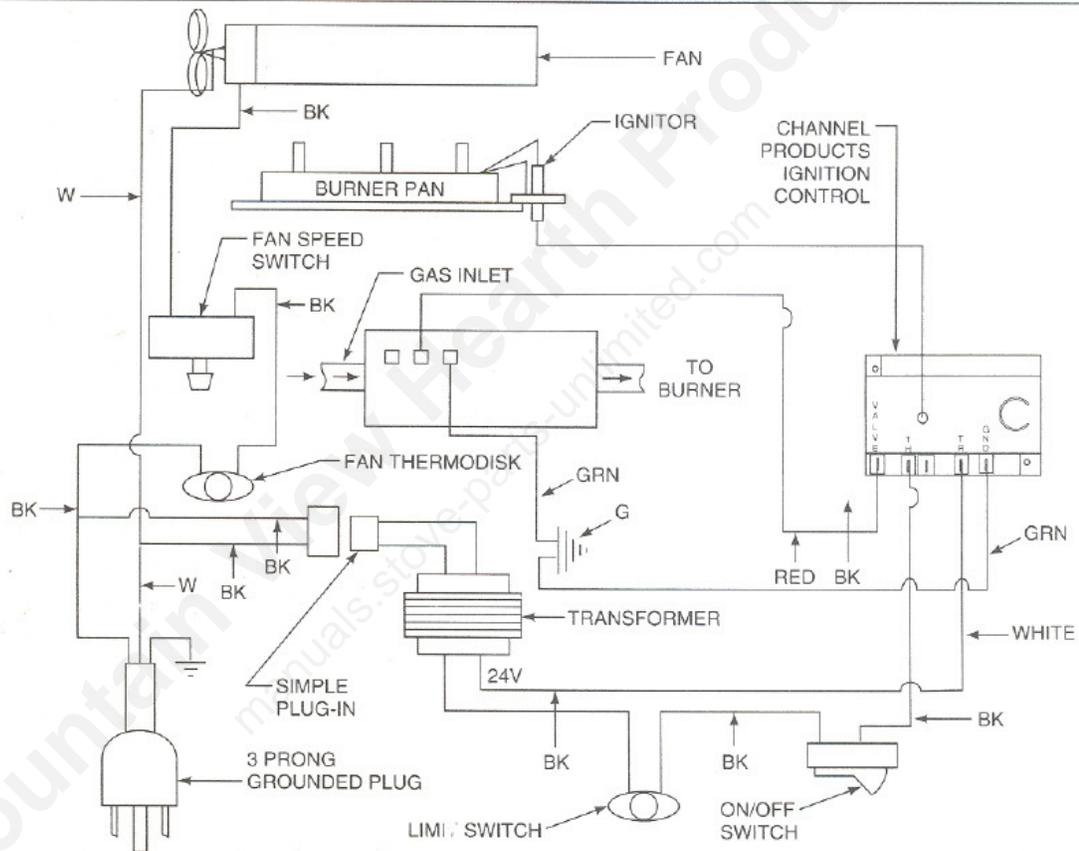
Venting requirements: A flue liner from the top of the Insert to the roof termination is required for optimum performance. A 4" B-vent, or stainless or aluminum flue liner in a Class A chimney. Before attempting to run your flue liner, you must make sure that it will pass through the existing damper area. This is best done with a flexible liner. In zero-clearance (factory-built) fireplaces, the existing damper must be removed or locked out of the way in the open position. For masonry fireplaces, if the damper will not allow the passage of a 4" flex, DO NOT PROCEED without consulting a local mason on how to remove or alter the damper without risk of structural damage or leakage.

Insure the bottom end of the flue liner is approximately 16" from the bottom of the existing firebox. (This insures you have enough length to make the final connection to the Insert.) Attach the flue connector to the end of the flue liner with (3) screws provided. Leave hanging in the firebox.

A minimum vertical venting height of 10 feet above the base of the appliance must be maintained. The horizontal run must not exceed 50% of the vertical height. The vent termination must be in accordance with its respective listing and the manufacturer's instructions. If a non-listed vent termination is used, it must extend 2' higher than any portion of the building that is within a horizontal distance of 10' of the termination.



A - EZ & EZL



B - EZE & EZLE

Figure 2

STEP 3 - GAS LINE INSTALLATION

A gas line must be run into the existing woodburning fireplace. (Your fireplace may already have a gas line installed for a log lighter or gas log set.) It is recommended to run a 1/2" I.D. black pipe at a supply pressure of 7" for Natural gas and 11" for Propane. This gas line should enter the existing firebox (through the gas knockouts provided by the manufacturer of the fireplace) a distance that insures approximately 2" of pipe will be inside the EZ Insert. (If the gas line enters from the right hand side, a short length of pipe may be needed to make the connection to the flex connector provided with the unit.) Use Figure 3 for properly locating the gas line.

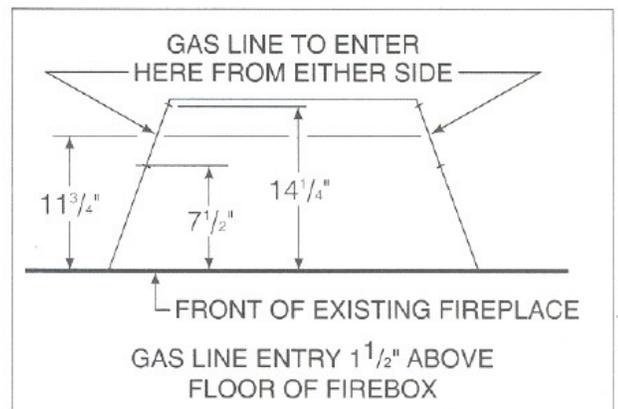


Figure 3

Connect the 1/2" black pipe to the flex connector supplied with your Insert. To ease in installation, this listed flexible connector and manual shut-off valve are supplied and connected to the appliance gas valve. The burner assembly has been packaged separately. After a 1/2" line is run into the appliance, connect the manual valve supplied to the end of the line. Position the Insert in the fireplace before placing the burner assembly in the Insert. All connections must be checked for leaks with a soap and water solution.

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 4 - INSTALLING THE INSERT

Remove the Insert from the carton. Remove glass by removing the top glass retainer (5 screws). Locate and remove the log set and flue connector.

Set the Insert into the fireplace with approximately 5" protruding from the face of the unit. Slip back edge of the flue connector under the flue retainer and screw down on the front edge. See Figure 4.

As you continue to push the Insert into the firebox, you must insure the gas line aligns with the hole in the Insert and enters properly.

NOTE: Remove the burner assembly from the carton and place it inside the firebox, propped up on the front edge to insure maximum work space. Make gas connection to incoming line. Do not connect burner pan to firebox until gas line is connected.

Turn gas on and check for leaks at all connections. Use soapy water or a gas detector. If using soapy water, bubbles will appear around the fitting if there is a leak. If a leak is found, or you smell gas, turn the gas line off and tighten the fittings. Repeat check for leaks.

Place the burner pan on the support lip of the firebox insuring it is sitting flat. Install (7) screws securing the burner assembly to the firebox.

Disconnect the on/off switch from the wires, run the wires through the hole in the outer shell opposite the fan speed control, and reconnect the on/off switch. See Figure 5.

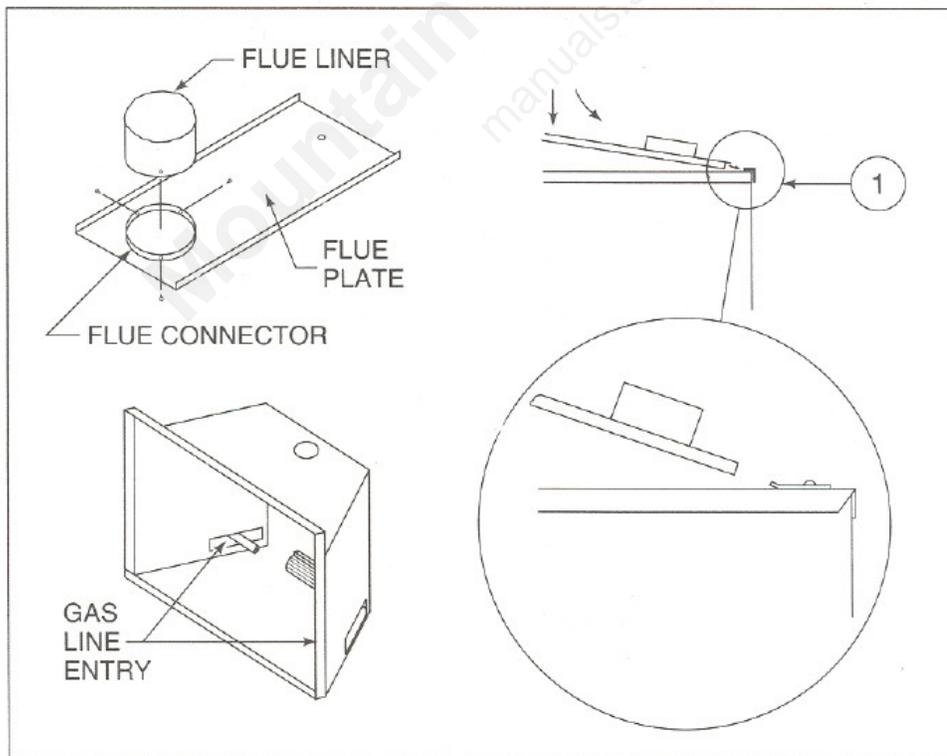


Figure 4

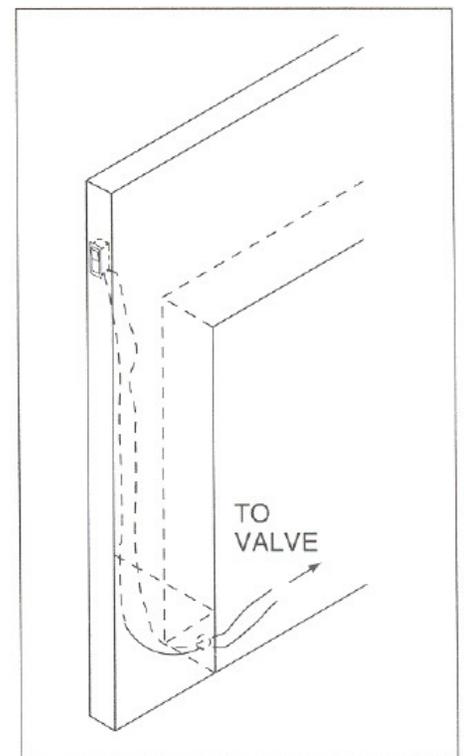


Figure 5

Remove the (4) logs from carton and place as shown in Figure 9. (page 7). Log placement is critical to the appearance of the flame.

Spread vermiculite between the front of the burner pan and the vermiculite retainer. Level of vermiculite should be up to the bottom of gas ports (holes) in front edge of burner. Place mineral wool over the gas ports. See Figure 9.

Clean glass and install it on the unit. Remove the top glass retainer. Place the bottom edge of glass in the support track and tilt to an upright position. Hold the top retainer in place and screw in place (5 screws).

You are now ready to install the surround. Remove surround from carton and place the inside lip of the surround inside the frame of the Insert. Screws enter from the glass side of the surround. The two screws on either side should be left a little loose, as the brass trim is hung on these screws. The on/off switch will now clip into the slot on the top right corner of the surround.

The upper grille (4 louvers) can now be snapped into position. See Figure 10 (page 8). Simply align the grille with the top of the opening and snap into place.

The lower louver is easily affixed to the bottom of the EZ with (4) four screws. Insure the lower grille is centered before tightening the screws. The back flange of the lower grille should contact the firebox bottom to ensure optimum performance. See Figure 11 (page 8).

NOTE: There will be some smoke and fumes from the initial burning of this unit. Allow for proper venting of the room by opening a door or window.

LIGHTING PROCEDURE FOR EZ & EZL (See Figure 7A)

1. Turn the on/off switch to the "Off" position.
2. Turn the gas knob to the "Off" position. Wait (5) minutes.
3. Turn the gas knob to "Pilot".
4. Push in the knob all the way and hold it in. Immediately light the pilot by pressing the red ignitor button. Continue to hold the gas knob in for about (1) minute after the pilot is lit. Release the knob and it will pop back up. The pilot should remain lit. If it goes out, repeat steps 1 through 4.
5. Turn the gas knob to the "On" position.
6. Turn the on/off switch to the "On" position. This will turn on the main burner.

PILOT BURNER ADJUSTMENT (Preset at factory)

Under certain circumstances the size of the pilot flame may have to be adjusted. It is accomplished as follows:

1. Remove the pilot adjustment cap. See Figure 7A.
2. Adjust the pilot key to provide properly sized flame.
3. Replace the pilot adjustment cap.

LIGHTING PROCEDURE FOR EZE & EZLE (See Figure 7B)

1. Turn the on/off switch to the "Off" position.
2. Turn the gas control level to the "Off" position. Wait (5) minutes.
3. Turn the gas control lever to the "On" position.
4. Turn the on/off switch to the "On" position. This will turn on the main burner.

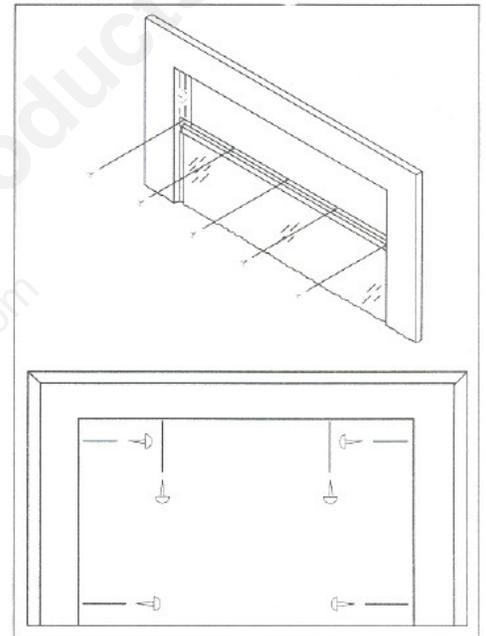


Figure 6

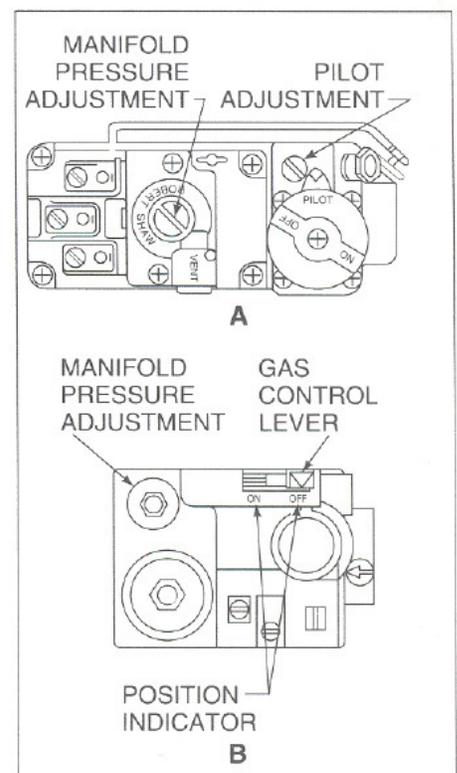


Figure 7

SHUTDOWN PROCEDURE

For temporary situations, the main burner may be turned off by turning the on/off switch to the "Off" position. For longer periods of shut-off, position the valve control to the "Off" position. This will shut off the main valve.

Keep the burner and control compartment clean. Due to high surface temperatures, keep children, clothing and furniture away.

MAINTENANCE INSTRUCTIONS

Keep the burner and control compartment clean by brushing and vacuuming at least once a year. Always turn off the valve before cleaning. Brush only around the vermiculite to avoid vacuuming it up.

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 ends of the flame sensor should be covered with flame. See Figure 8A for EZ/EZL or 8B for EZE/EZLE and Figure 9.

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.

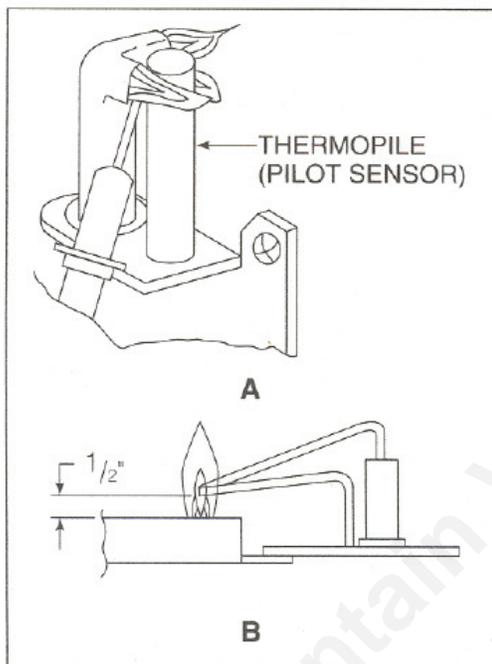


Figure 8

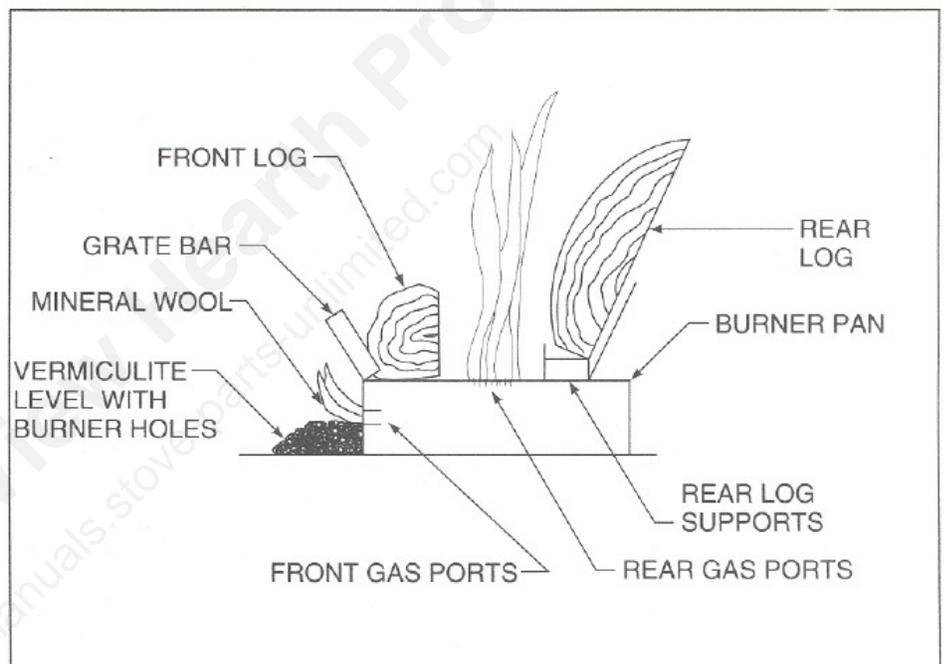


Figure 9

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 may 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 - See Figure 10 - **(DO NOT REMOVE WHEN HOT):**

1. Remove the top grille by pulling out. Remove the (5) screws from the top glass track, while holding the glass in place.
2. Tilt the glass out and lift it out of the lower track.

To replace glass, reverse the process.

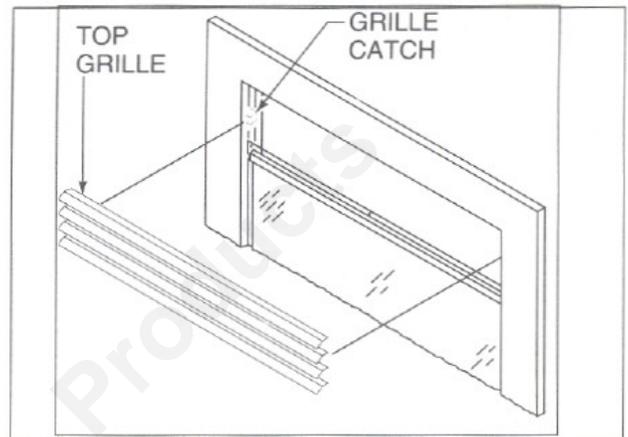


Figure 10

WARNING

NEVER OPERATE THE APPLIANCE WITHOUT GLASS PROPERLY SECURED IN PLACE. THIS WILL CREATE HEALTH RISK AND POSSIBLE LOSS OF LIFE.

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 under Replacement Parts. **NOTE: Improper positioning of logs may create carbon build-up and will alter the unit's performance.** Carbon can be removed with a vacuum cleaner.

Accessing Valve Compartment. To access the valve, simply take hold of the lower grille bracket and pull at the top of each side to open.

To Install or Remove Grilles. The top grille will simply clip into position by aligning the top of the grille with the top and sides of the surround and pushing it into place. See Figure 10. The lower grille is easily affixed to the bottom of the EZ with four screws. Insure the lower grille is centered before tightening the screws. See Figure 11.

Replacement parts (page 10) are available from your distributor/dealer, or through Heatilator Inc., 1915 W. Saunders Street, Mt. Pleasant, Iowa 52641.

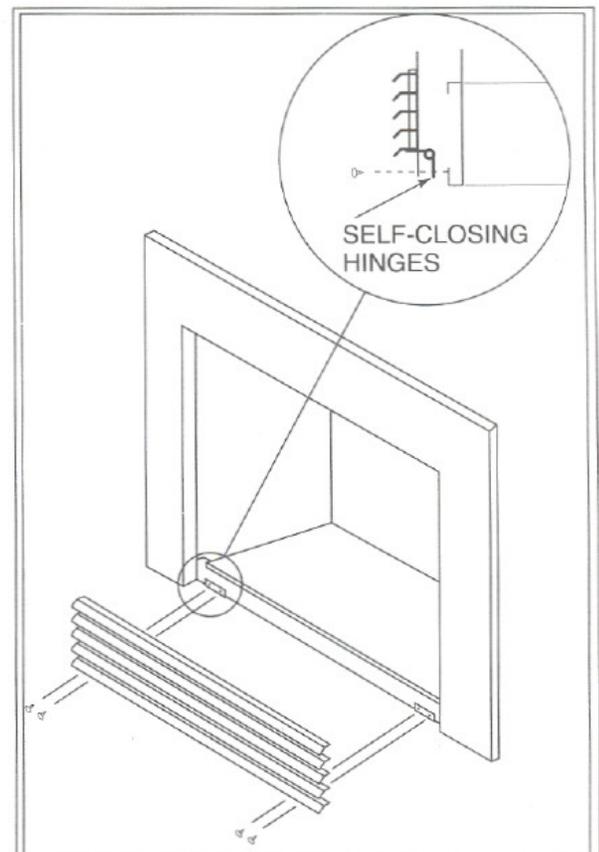


Figure 11

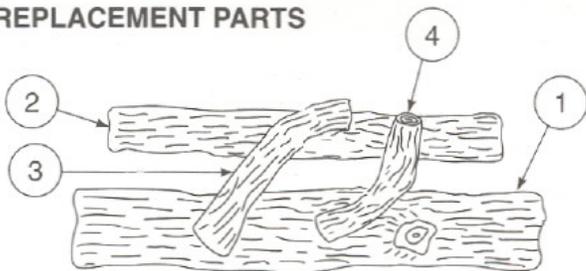
TROUBLE SHOOTING - EZ & EZL

<u>Problem</u>	<u>Cause</u>	<u>Corrective Action</u>
1. Spark ignitor will not light the pilot after repeat pressing of Red Button.	A. Defective ignitor. B. Misaligned electrode at pilot.	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 pilot hood. Adjust gap to give proper spark. Remove hands from electrode before pressing Red Button.
2. Pilot light will not stay lit.	A. Defective pilot thermopile.	Check pilot flame. See Fig. 8A. 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.
3. 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.

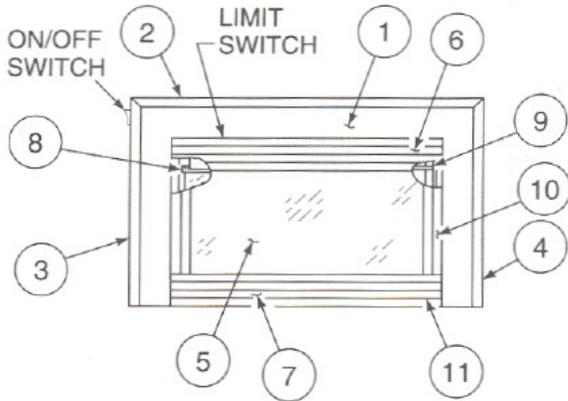
TROUBLE SHOOTING - EZE & EZLE

<u>Problem</u>	<u>Cause</u>	<u>Corrective Action</u>
1. Spark ignitor will not light burner after repeated attempts.	A. Defective ignitor. B. Misaligned electrode at pilot.	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 ground wire. 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 8B. Adjust sensor if necessary. Be sure sensor is secured tight into bracket. Be sure wiring connections are tight throughout system, including high limit switch. Check that wiring is grounded as shown in Figure 2B.
3. With valve and On/Off switch in "ON" position, no gas to burner.	A. Wall switch defective. B. Plugged burner orifice. C. Gas valve(s) shut off.	Check power source (fuses). Check wall switch for proper connections. Check for 24 volt power off secondary on the transformer. Check burner orifice; remove blockage. Check all gas valves leading to appliance. Turn to the "ON" position.

REPLACEMENT PARTS

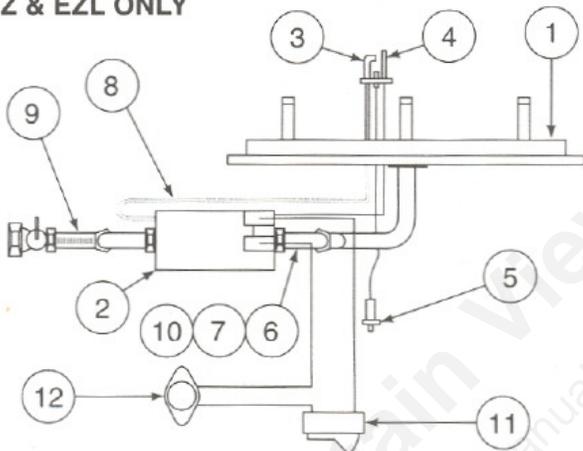


ITEM	PART NO.	DESCRIPTION
1	17133	Top Log
2	18563	Front Log
3	16569	Back Log
4	17229	Log



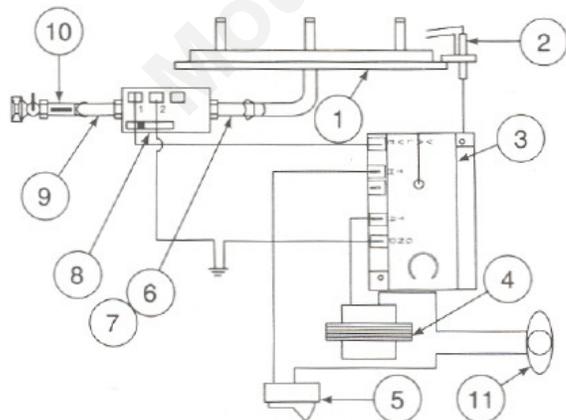
ITEM	PART NO.	DESCRIPTION
1	19370, 17778, 19186	Surround (GSR24, GSR40, GSR44)
2	19177, 19178	Top Trim
3	19369, 19182, 19183	Left Trim
4	19368, 19180, 19181	Right Trim
5	17586	Glass
6	19322	Upper Grille
7	19324	Lower Grille
8	18234	Top Glass Retainer
	17585	Glass Retainer
9	21621	Gasket
10	17808	Glass Trim
11	10986	Fan Speed Control

EZ & EZL ONLY



ITEM	PART NO.	DESCRIPTION
1	17772	Burner Assembly
2	12191	Valve - Natural
	14160	Valve - Propane
3	25731	Pilot Assembly - Natural
	25732	Pilot Assembly - Propane
4	13411	Thermopile
5	13416	Push Button Ignitor
6	16752	Orifice - Natural
	13445	Orifice - Propane
7	17576	45° Elbow
8	17573	Pilot Tube
9	16746	Flex Line
10	13425	Male Connector
11	12652	On/Off Switch
12	13595	Limit Switch

EZE & EZLE ONLY



ITEM	PART NO.	DESCRIPTION
1	17772	Burner Assembly
2	15689	Ignitor Assembly
3	15695	Ignition Control (Robertshaw)
4	15091	Transformer
5	12652	On/Off Switch
6	17576	45° Elbow
7	16752	Orifice - Natural
	13445	Orifice - Propane
8	16239	Valve - Natural
	16489	Valve - Propane
9	14326	90° Elbow
10	17245	Flex Line
11	13595	Limit Switch

*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.

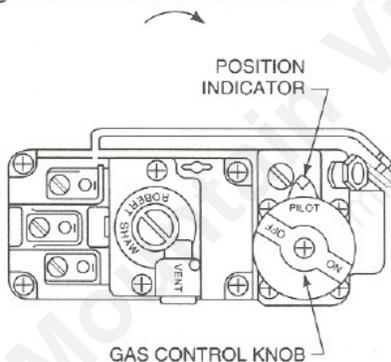
FOR YOUR SAFETY READ BEFORE LIGHTING

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

- 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.
- C. Use only your hand to push in or turn knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it; call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.
- If you cannot reach your gas supplier, call the fire department.

LIGHTING INSTRUCTIONS

1. STOP! Read the safety information above on this label.
2. Turn on/off switch to the "OFF" position.
3. Turn off all electric power to the appliance.
4. Remove control access panel.
5. Turn gas control knob clockwise to "OFF".
7. Find pilot - follow metal tube from gas control. The pilot is behind the burner tube.



6. Wait five (5) minutes to clear out any gas. If you then smell gas, STOP! Follow "B" in the safety information above on this label. If you don't smell gas, go to next step.

8. Turn knob on control counterclockwise to "PILOT".
9. Push in the knob all the way and hold in. Immediately light the pilot by pressing the red ignitor button. Continue to hold the control knob in for about (1) minute after the pilot is lit. Release button and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 5 through 9.
 - If button does not pop up when released, stop and immediately call your service technician or gas supplier.
 - If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.
10. Turn gas control knob counterclockwise to "ON". Knob can be turned to "ON" only if the control knob is popped out.
11. Replace control access panel.
12. Turn on all electric power to the appliance.

TO TURN OFF GAS TO APPLIANCE

1. Turn off the on/off switch.
2. Turn off all electric power to the appliance if service is to be performed.
3. Remove control access panel.
4. Turn gas control clockwise to "OFF". Do not force.
5. Replace control access panel.

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.

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

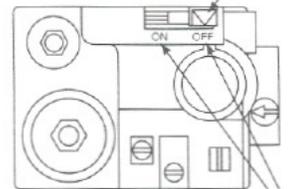
WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
 - Do not touch any electric switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone.
Follow the supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to push in and move the gas control lever. Never use tools. If the lever will not push in or move by hand, don't try to repair it; call a qualified service technician. Force or attempted repair may result in a fire or explosion.
 - D. Do not use this appliance if any part has been under water.
Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

OPERATING INSTRUCTIONS

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

GAS CONTROL LEVER



POSITION INDICATOR

TO TURN OFF GAS TO APPLIANCE

1. Turn off the wall switch.
2. Turn off all electric power to the appliance if service is to be performed.
3. Push gas control lever in and move to the "OFF" position. Do not force.
4. Replace control access panel.

Due to high surface temperatures, keep children, clothing and furniture away.

Keep burner and control compartment clean. See Installation and Operating Instructions accompanying the appliance.