



# Technical Data Sheet

## Sterling “G” Direct-Vent Model 8531 Conversion LP To NG

Kit #95-56310 Model 8531 – Using the Top Convertible Pilot

*Use This Kit With Serial Number 5766 And Higher*

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### **TOOLS REQUIRED**

Phillips Screwdriver  
Stubby Phillips Screwdriver  
Slotted Screwdriver  
5/32" Allen Wrench  
1/2" Deep Socket or Wrench  
7/16" Wrench  
Gas Leak Testing Device  
Manometer  
¾" Wrench (Or Adjustable Wrench)

### **KIT COMPONENTS**

1-NG Valve Conversion Kit  
2-#46 Burner Orifice  
1-#62 Pilot Orifice  
Instruction  
NG Sticker (White)

### **WARNING**

**This conversion kit must be installed by a qualified gas service agency in accordance with the manufacturer’s instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, explosion, or production of carbon monoxide may result causing property damage, personal injury, or loss of life. The qualified service agency performing this work assumes responsibility for the proper conversion of this appliance with this kit.**

**CAUTION:** *The gas supply must be shut off prior to making this conversion. If the stove is equipped with the optional blower, the electricity must also be disconnected.*

### **PROCEDURE:**

- 1) Remove the valve extension knobs from the front of the stove by pulling them straight out with your hand.
- 2) Remove the facade (the metal piece the extensions pass through) by removing the two phillips screws with a stubby screwdriver.
- 3) Locate the rear cover plate on the lower left hand side on the back of the stove. Remove it by removing the two phillips screws that hold it in place.
- 4) This will expose the shutter adjustment rods and bracket. With a 7/16" wrench, loosen the bolt in the retaining bracket.

*HearthStone Quality Home Heating Products*

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- 5) Open the front door by removing the retaining screw with a phillips screwdriver. Carefully remove the log set, embers, and ember screen.
- 6) You can now pull the two burner tubes out of the firebox. Note their position for reassembly.
- 7) While reaching around the back of the stove to hold the gas manifold fitting with a  $\frac{3}{4}$ " wrench or an adjustable wrench, use a  $\frac{1}{2}$ " deep socket (or  $\frac{1}{2}$ " wrench) inside the firebox to remove the two LP burner orifices (make sure the fitting being held corresponds to the orifice being removed / repeat on the second orifice and fitting). Using the  $\frac{1}{2}$ " socket or wrench without also holding the manifold to remove the burner orifices will damage the manifold. While once again holding the manifold fittings with the  $\frac{3}{4}$ " wrench, install the two NG orifices (#46).
- 8) The pilot orifice is located under the pilot hood head. Remove the burner hood head by grasping it and pulling it straight up. Using a  $\frac{5}{32}$ " allen wrench, unscrew and remove the LP pilot orifice. Install the #62 NG pilot orifice and tighten it with the allen wrench.
- 9) Snap the burner hood head back into place, making sure the cut out of the head aligns with the tang on the orifice housing.
- 10) Reinstall the burner tubes. Install the front/bottom burner tube first. Note, this is the longer of the two burner tubes. Push the shutter rod through the bottom hole. Install the top/rear burner tube making sure the shutter rod passes through the top hole in the rear of the firebox.
- 11) Adjust the shutters as indicated in the Owner's Manual. . **IMPORTANT: When tightening the shutter clamp screw, do not over-tighten. Tighten until the screw head touches metal, then another  $\frac{1}{4}$ " turn.** Replace the log set, ember screen, and embers. Close the front door and tighten the screw.

**CONVERTING THE VALVE: To convert the valve, refer to the following Instructions and illustrations (see illustrations on page 3).**

#### **CONVERTING THE VALVE:**

- 1) Using a flat screwdriver, remove and discard the three pressure regulator mounting screws (A), the pressure regulator tower (B), and the diaphragm (C).
- 2) Insure that the rubber gasket (D) is properly positioned and install the new HI/LO pressure regulator assembly to the valve using the new screws (E) provided with the kit. Tighten the screws securely.

3) Install the enclosed identification label (F) to the valve body where it can be readily seen. Place white NG sticker over the red LP sticker on the valve door.

1) Turn on the gas supply. Check the manifold pressure using a manometer. Refer to the Owner's Manual for instructions.

2) **LEAK TEST BEFORE AND AFTER LIGHTING THE STOVE.**

3) The Input rate of the heater can be verified by checking the manifold pressure. If the manifold pressure is correct, then the input rate is also correct. Refer to the Owner's Manual for:

- a. Details on adjustment for proper pilot and main burner flame appearance.
- b. Instructions for placing all markings provided in the kit in the appropriate location on the heater.
- c. Instructions for checking out the normal operating sequence of the ignition system.
- d. Location on valve to check manifold pressure.

	Natural Gas	LP
Input rating (Btu/hr) 0-1370 m	36,000	36,000
Maximum output (BTU/hr) 0-1370 m	29,400	29,400
Minimum input rating (Btu/hr) 0-1370 m	21,200	21,200
Orifice size DMS 0-1370 m	46 Front & Rear	56 Front & Rear
Pilot orifice	62	35
Manifold pressure (in. w.c./kPa)	3.5/0.87	10.0/2.48
Man. Pressure-Lo setting (in.w.c./kPa)	1.6/0.42	6.5/1.6
Minimum inlet pressure (in. W.c./kPa)	5.0/1.24	11.0/2.88
Maximum inlet pressure (in. W.c./kPa)	10.5/2.62	13.5/3.36

**WARNING:** Make sure proper replacement orifices have been used.

