



Technical Data Sheet

Sterling "G" B-Vent Model 8521 Converting From LP To NG

KIT #95-56212: For Stoves with Serial Numbers Above 018553

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KIT COMPONENTS

2 - #44 Burner Orifices
1 - 0.62mm Pilot Orifice
Instructions
NG Sticker (White)

TOOLS REQUIRED

Cross-tip Screwdriver
Stubby Cross-tip Screwdriver
Slotted Screwdriver
4mm or 5/32" Hex Wrench
1/2" Deep Socket or Wrench
7/16" Box End Wrench or Socket
Gas Leak Testing Device
Manometer
3/4" Wrench (Or an Adjustable Wrench)

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: You must shut off the gas supply prior to making this conversion. If the stove is equipped with the optional blower, also disconnect the electricity.

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 cross-tip screws with a stubby screwdriver.
3. Locate the rear cover plate on the lower left hand side (looking from the back) on the back of the stove. Remove it by removing the two cross-tip 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.
5. Open the front door by removing the retaining screw with a cross-tip screwdriver. Carefully remove the log set, embers, and ember screen.
6. Remove the cross-tip screw in the primary air block (right corner by log rack, just above the burner tube). 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 3/4" wrench or an adjustable wrench, use a 1/2" deep socket (or 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 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 3/4" wrench, install the two NG orifices (#44).

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 5/32" hex wrench, unscrew and remove the LP pilot orifice. Install the 0.62mm NG pilot orifice and tighten it with the hex wrench.
9. Snap the burner hood head back into place; ensure 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 (step 12), do not over-tighten. Tighten until the screw head touches metal, then another ¼" turn.** Reinstall the primary air block over the shutters by attaching it to the log rack. Replace the log set, ember screen, and embers. Close the front door and tighten the screw.
12. On the back of the stove, tighten the shutter retainer bolt and replace the rear cover.

CONVERTING THE VALVE: To convert the valve, refer to the following Instructions (see the following images).

PROCEDURE:

1. This stove is OEM equipped with a universal valve that allows conversion to NG without additional parts. Locate the valve below the ash lip under the front of the stove. If the extension knobs are installed, pull them off the control knobs.
2. Working on the Hi/Lo knob, pull off the cap on the face of the knob (see Photo #1).
3. Using the 4 mm or 5/32" hex wrench, remove the conversion plug that is inside the knob (see Photo #2).
4. Rotate the conversion plug bottom to top (red ring down into the valve) and put it back into the knob (see Photo #3). Tighten the plug in with the hex wrench until it is snug – do not use excessive force, as this could damage the plug.

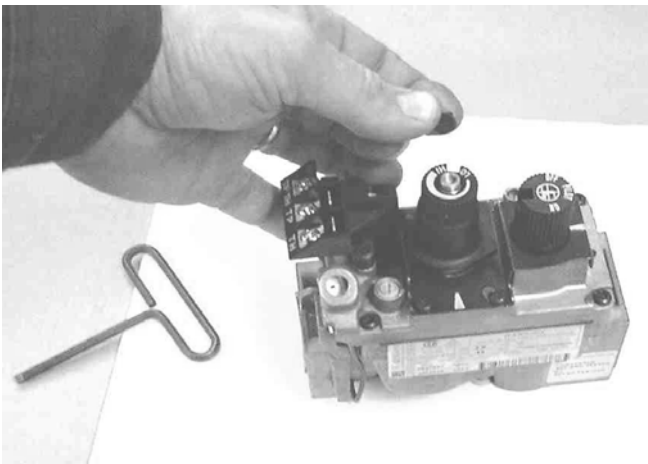


Photo #1

Remove the cap on the face of the Hi/Lo knob.

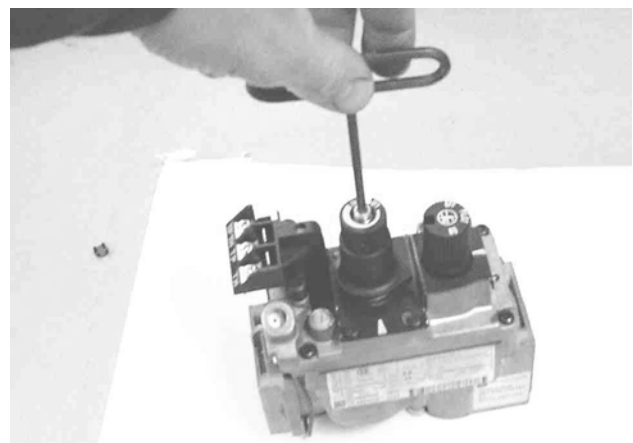


Photo #2

Using the 5/32" (4 mm) wrench to remove the conversion plug.

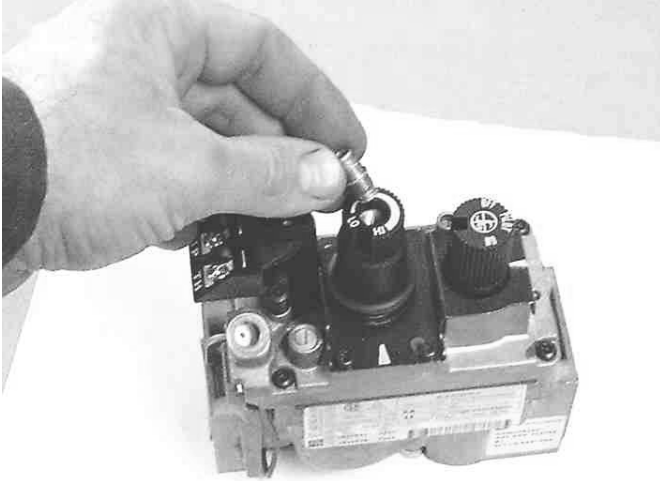


Photo #3

To convert the valve to NG, turn the conversion plug over and reinstall it with the hex wrench.

🔥 **NOTE:** When converted to NG, you will not see the red ring on the conversion plug after it is installed.

1. Place the white NG sticker onto the lighting instructions located on the inside of the piezo igniter access door on the lower right side of the stove.

🔥 **NOTE:** Refer to the owner's manual for the:

- Details on adjustment for the proper pilot and main burner flame appearance.
- Instructions for checking out the normal operating sequence of the ignition system.
- Location on the valve to check manifold pressure.

BEFORE USING THE STOVE:

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

LEAK TEST BEFORE AND AFTER LIGHTING THE STOVE.

The Input rate of the heater is 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:

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

🔥 **WARNING:** Ensure the proper replacement orifices are used.

🔥 **NOTE:** See the stove's Safety Rating Label for orifice and pressure specifications.