



TECHNICAL DATA SHEET

Tucson 8701 & Stowe 8321 Conversion From LP To NG

Serial Number 023416 and Below

Assembly #97-56010

Date April 01, 2004

97-56010 – KIT COMPONENTS:

7200-340 - #40 Burner Orifice
7211-163 – 0.62mm Pilot Orifice
NG Sticker (White)
Instructions – 5 Pages

TOOLS REQUIRED:

Phillips Screwdriver
Slotted Screwdriver
3” Socket Extension
½” Deep Socket

5-32” Allen 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.

!!ATTENTION!!

Cet équipement de conversion sera installé par une agence qualifiée de service conformément aux instructions du fabricant et toutes exigences et codes applicables de l’autorisés avoir la juridiction. Si l’information dans cette Instruction n’est pas suivie exactement, un feu, explosion ou production de protoxyde de carbone peut résulter le dommages causer de propriété, perte ou blessure personnelle de vie. L’agence qualifiée de service est esponsable de l’installation propre de cet équipement. L’installation n’est pas propre et complète jusqu’à opération de l’appareil converti est chèque suivant les critères établis dans les instructions de propriétaire provisionnées avec l’équipement.

HearthStone Quality Home Heating Products
317 Stafford Ave., Morrisville, VT 05661
www.hearthstonestove.com



CAUTION: Ensure the gas supply to the stove is shut off before making this conversion. If the stove is equipped with the optional blower, disconnect it from the electrical source before making this conversion.

IMPORTANT: These instructions are for the Direct Vent stoves listed on the cover page only - **DO NOT attempt this conversion on a Vent Free Tucson.**

PROCEDURE:

1) Open the front of the stove. For the Tucson use the 1/8" allen wrench provided with the stove to remove the screw that holds the front door closed. For the Stowe, remove the two phillips screws on the top of the front panel that are used to hold the face of the stove in place during transportation. Once the screws are out, drop the ash lip down and locate the lever to release the easy off front. Carefully hold the front at the top, pull the lever up to release it. Now you can remove the front panel and place it in a safe place until it is required for reassembly.

2) Remove the stainless steel pan burner from the firebox. To remove the burner in the Tucson or Stowe, you must first remove the retaining screw located at the back of the burner assembly.

3) Find the main burner orifice which is located inside the air shutter box at the rear center of the firebox (see photo on page 4). Insert a 1/2" deep socket with a 3" extension into the round opening in the front of the air shutter box to remove the LP gas orifice. Install the #40 NG orifice provided with this kit and snug with the socket and extension. **NOTE:** Stoves installed above 2,000 feet (610m) in Canada may require a derated orifice (see specifications page 4).

4) Locate the pilot assembly inside the stove, which is also exposed by removal of the pan burner system (see photo page 4). Remove the easy-off top of the pilot burner hood by grasping it and pulling it up and off the pilot assembly.

5) Using a 5/32" allen wrench, unscrew and remove the LP pilot orifice. Insert the 0.62mm NG orifice provided with this kit and tighten it with the allen wrench.

6) Snap the pilot burner hood back into place on the pilot stem, making sure the cutout of the hood aligns with tang on the orifice housing.

7) Adjust the air shutter by turning the bolt on the outside back of the stove. Turn the bolt out, away from the stove one to three full revolutions to open the air shutter. After the conversion is completed, adjustments in the flame are made from outside the stove.

Important: Make certain that orange flames are not present, as this is a sign of incomplete combustion and will produce soot.

8) Insert the burner system back into the firebox. Secure the burner with the phillips screw previously removed in step two. Refer to the owner's manual for the proper placement of the logs and embers. Replace and secure the front door (Tucson) or Glass front (Stowe). It will not be necessary to replace the top bolts on the face of the Stowe that were removed in step one.



VALVE CONVERSION: See illustrations below.

9) This stove is equipped with a universal valve that allows conversion to LP 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.

10) Working on the Hi/Lo knob, pull off the cap on the face of the knob (see Photo #1).

11) Using the 5/32" (4 mm) allen wrench, remove the conversion plug that is inside the knob (see Photo #2).

12) Rotate the conversion plug and install it back into the knob. Turn the plug in with the allen wrench until it is snug – be careful not to use excessive force, as this could damage the plug.

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

13) Place the white NG sticker on the lighting instructions.

LEAK TEST ALL FITTINGS WITH A GAS SNIFFER 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 correct.

14) Record this change by filling out the fuel conversion label on the back of the stove.

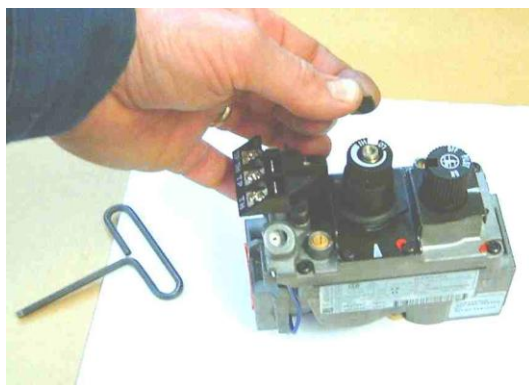


Photo #1
Remove the plug on the face of the Hi/Lo knob.

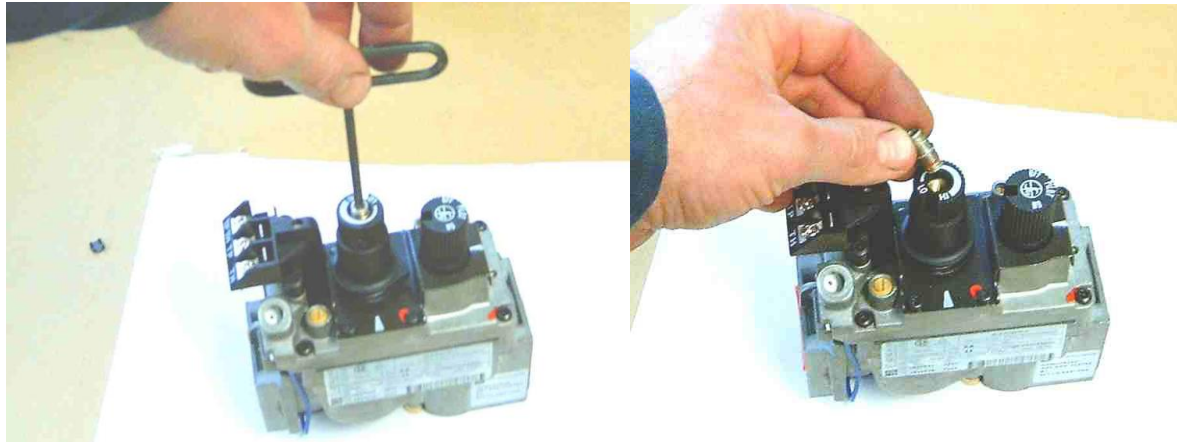


Photo #2
Using the 5/32" (4 mm)
wrench to remove the
conversion plug.

Photo #3
To convert the valve
to LP, turn the
conversion plug over
and reinstall it with the
allen wrench.



Photo #4
Pilot assembly (left) and air shutter with burner orifice (right)
in the firebox after the pan burner is removed



	<u>Natural Gas</u>	<u>LP</u>
Input rating (Btu/hr) 0 - 2,000	26,000	26,000
Maximum output (BTU/hr) 0-2,000 ft	18,100	18,100
Minimum input rating (Btu/hr)	15,600	15,600
Orifice size DMS 0- 2,000 ft	40	53
Input rating (Btu/hr) 2,000 to 4,500 ft	25,500	25,000
Orifice size DMS 2,000 – 4,500 ft	41	54
Manifold pressure-Hi Setting (in. w.c./kPa)	3.5/0.87	10.0/2.48
Man. Pressure-Lo setting (in.w.c./kPa)	1.2/0.3	3.3/0.8

Note: Refer to the owner's manual for the:

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

DO NOT REUSE THE PARTS THAT WERE REMOVED FROM THE STOVE!