

# Technical Data Sheet

**KIT #97-56911**

**Tucson Direct Vent Model 8700, Tucson B-Vent Model 8720, or Stowe Model 8320  
Liquid Propane (LP) High Altitude Conversion**

## TOOLS REQUIRED

Phillips Screwdriver  
1/2" Deep Socket or Wrench  
3" Socket Extension (optional)

## KIT COMPONENTS

1-#54 High Altitude Burner Orifice  
Conversion Label  
Instructions

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

**IMPORTANT: DO NOT attempt this conversion on a Vent Free Tucson.**

## **PROCEDURE:**

- 1) Open the front of the stove. For the Tucson use a phillips screwdriver to remove the screw that holds the front door closed. For the Stowe, use the allen wrench provided or a standard 5-32 allen key to remove the 4 bolts in the front facade. Note: some early models will have phillips screws holding the front on. You will need to drop the ash lip down to remove the 2 lower bolts. Carefully hold the facade as the top 2 bolts are removed. Lift the facade off and place it in a safe place until it is required for reassembly.
- 2) Carefully remove the log set and the burner tube. Refer to the illustration at right and note the positions of the firebox components. Before the conversion is complete verify that all components are placed correctly.
- 3) Using a 1/2" deep socket (or 1/2" wrench) remove the standard orifice(#53), located on the inside of the back of the firebox. Install the high altitude LP orifice(#54), while being sure not to bend or damage the main gas line. Also be certain that the elbow fitting on the firebox **always** points directly downward. It may be necessary to support the elbow fitting with a wrench. This is to prevent damaging and for proper alignment of the main gas line.
- 4) Replace the burner tube, logs, ember screen, and embers. Refer to the owner's manual for the proper placement of these parts. Precise location is important to both the look and operation of the stove. Replace and secure the front door (Tucson) or Glass front (Stowe).
- 5) Turn on the gas supply. For checking and properly adjusting the manifold pressure, refer to the appliance owner's manual for instructions.

## **LEAK TEST BEFORE AND AFTER LIGHTING THE STOVE.**

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 correct.

- 6) Record this change by filling out the label included in kit. Attach to the back of the stove.

	<u>Natural Gas</u>	<u>LP</u>
Input rating (Btu/hr) 0-610 m	26,000	26,000
Maximum output (BTU/hr) 0-610 m	20,000	20,500
Minimum input rating (Btu/hr) 0-610	14,700	14,700
Orifice size DMS 0-610 m	40	53
Input rating (Btu/hr) 610-1370 m	24,500	24,000
Orifice size DMS 610-1370 m	41	54
Manifold pressure (in. w.c./kPa)	3.5/0.9	10.0/2.5
Man. Pressure-Lo setting (in.w.c./kPa)	1.2/0.3	3.3/0.8
Minimum inlet pressure (in. W.c./kPa)	5.0/1.25	11.0/2.75
Maximum inlet pressure (in. W.c./kPa)	10.5/2.62	13.5/3.36

**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 HAVE BEEN REMOVED FROM THE STOVE.**

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

**LP ORIFICES:**

	<b>Main Burner</b>
<b>0 - 610m</b>	<b>#53 (Standard)</b>
<b>610 - 1370m</b>	<b>#54 (High Altitude)</b>
	<b>Pilot #30</b>

**NAT. GAS ORIFICES:**

	<b>Main Burner</b>
<b>0 - 610m</b>	<b>#40 (Standard)</b>
<b>610 - 1370m</b>	<b>#41 (High Altitude)</b>
	<b>Pilot #51</b>