



Technical Data Sheet

Champlain 8303 Conversion from NG to LP

Assembly #93-56031
(7211-320 SIT Universal valve)

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93-56031 – KIT COMPONENTS:

7200-350 - #50 Burner Orifice
7211-136 – 0.35mm LP Pilot Orifice
LP Sticker

TOOLS REQUIRED:

Slotted Screwdriver
Phillips Screwdriver
½” Deep Socket
5-32” Hex Wrench
3” Socket Extension

WARNING

This conversion kit must be installed by a qualified 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 is responsible for the proper installation of this kit. The installation is not proper and complete until the operation of the converted appliance is checked as specified in the manufacturer's instructions supplied with the kit.

This Liquid Propane (LP) fuel conversion kit is for use with the Hearthstone Champlain 8303. only. This kit is suitable for installations at elevations up to 4500 feet above sea level. It is not necessary to de-rate the Champlain 8303 at elevations above 2000 feet.

Specification	NG	LP
INPUT RATING (Btu/hr) 0-2000 ft	35,000	35,000
INPUT RATING (Btu/hr) 2000-4500 ft	35,000	35,000
ORIFICE SIZE (DMS) 0-2000 ft	31	50
ORIFICE SIZE (DMS) 2000-4500 ft	31	50
MANIFOLD PRESSURE - LO SETTING (in.w.c./kPa)	1.3/0.32	3.2/0.80
MANIFOLD PRESSURE - HI SETTING (in.w.c./kPa)	3.5/0.87	9.7/2.42
INLET PRESSURE - MINIMUM (in.w.c./kPa)	5.0/1.24	11.0/2.74
INLET PRESSURE - MAXIMUM (in.w.c./kPa)	11.0/2.74	13.8/3.45
MINIMUM INPUT RATING LO SETTING (Btu/hr)	21,000	21,000

PROCEDURE:

- 1) Remove top of the stove (lift off). Set carefully aside on a soft surface.
- 2) Release the front panel by lifting up and off of the stove body. Set aside on a soft surface.
- 3) Remove glass by rotating retention clips up until clear of the clip slot. Lean the glass away from the firebox at the top and pick straight up off of the stove.
- 4) Remove the stainless steel pan burner from the firebox by simply lifting it up and out of the firebox.
- 5) Locate the main burner orifice inside the air shutter box in 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 NG gas orifice. Install the #50 LP orifice provided with this kit and snug with the socket and extension.
- 6) Locate the pilot assembly inside the stove that is also now 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.
- 7) Using a 5/32" hex wrench, unscrew and remove the NG pilot orifice. Insert the 0.35mm LP orifice provided with this kit and tighten it with the hex wrench.
- 8) Snap the pilot burner hood back into place on the pilot stem, ensure the cutout of the hood aligns with tang on the orifice housing.
- 9) Adjust the air shutter by turning the bolt on the outside back of the stove. Turn the bolt in, toward the stove one to three full revolutions to open the air shutter. After the conversion is completed, adjustments to 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 which will produce soot.
- 10) Insert the burner system back into the firebox. Replace the logs set, referring to the owner's manual for the proper placement of the logs and embers. Replace and secure the fire box door, front and top castings.

VALVE CONVERSION: See illustrations below.

- 1) On the Hi/Lo knob, pry off the small black cap in the center of the knob (see Photo #1).
- 2) Using the 4 mm hex wrench, remove the conversion plug inside the knob (see Photo #2).
- 3) Rotate the conversion plug 180° and turn it back into the knob. Turn the plug in with the hex wrench until it is snug – be careful not to use excessive force, as this could damage the plug.

NOTE: When converted to LP, you will see the red ring on the conversion plug after it is installed.

- 4) Place the red LP sticker onto the lighting instructions. These are located on the back of the lab plate attached to the stove with a cable.
- 5) Replace the black cap on top of the conversion plug.



Photo #1

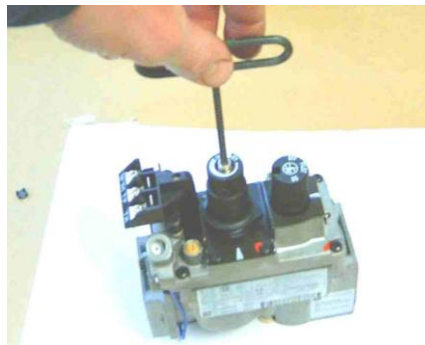


Photo #2

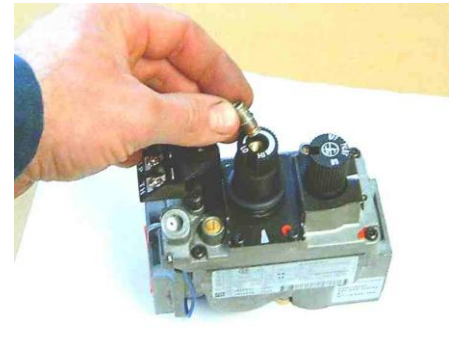


Photo #3



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

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.