

High Altitude Adjustment Kit Instructions

#156451 Propane
#156452 Natural Gas

TOOLS REQUIRED:

- 1/2" (13 mm) open -end wrench or deep-well socket w/ ratchet
- spade screwdriver or 10 mm socket driver

CONTENTS:

- 1, Injector (Burner Orifice) - 1.70 mm LP / #32 NG Conversion Label

WARNING:

This derating kit shall 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.

In Canada: This unit has been tested for installation at high altitudes in accordance with Canadian test standard CAN/CGA-2.17. The derating shall be carried out in accordance with the requirements of the provincial authorities having jurisdiction and in accordance with the requirements of the CAN1-B-149.1 and .2 Installation Code.

For installations from 610 - 1370 meters, (2000 - 4500 ft.) use the appropriate orifice included in this kit for the fuel being used.

See Rating Plate for additional information. For high altitude installations, consult the local gas distributor or the authority having jurisdiction for proper rating methods. If the installer must convert the unit to adjust for varying altitudes, the information label must be filled out by the installer and applied to the appliance at the time of the conversion.

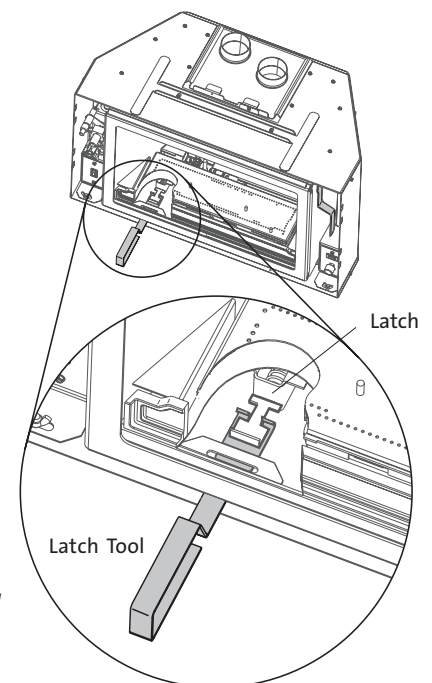
NOTICE: SHUT OFF THE GAS SUPPLY AND ANY ELECTRICAL POWER TO THE APPLIANCE BEFORE BEGINNING THIS PROCEDURE.

Procedure

1. **Remove the Glass Frame, Logset, Fettle, and Burner Skirt.**

Use the latch tool to release the two glass frame spring latches located under the firebox. See figs. 1 and 2.

Detach the Burner Skirt from the firebox with removal of the two sheet metal screws. See fig. 2.



*Figure 1.
Use the latch tool
to remove the
glass frame.*

Great Diamond Fireplace Insert
JØTUL GI 550 DV



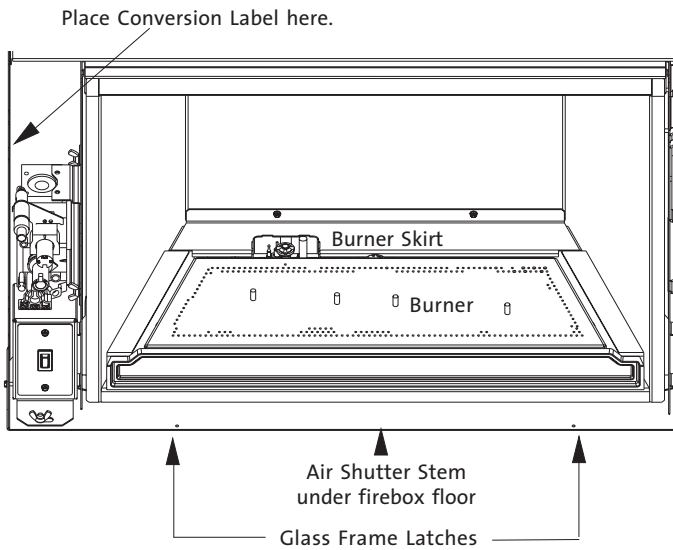


Figure 2. Firebox component identification.

- 2. Remove the Burner.** Loosen the wingnut on the Air Shutter Stem, located under the center of the firebox floor, and push the stem back as far as it will go. Disengage the burner assembly from the Air Shutter by lifting it up and back, out of the firebox. Swing the Air Shutter out of the way to access the burner orifice. See fig. 3.
- 3. Change the Burner Orifice:** Use the 1/2" (13 mm) deep well socket to remove the original burner orifice. Replace it with the orifice from this kit. Tighten the orifice securely. See fig. 3.

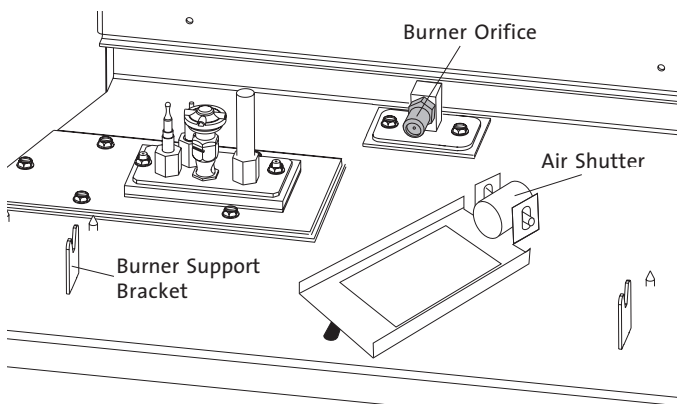


Figure 3. Accessing the burner orifice.

- 4. Replace the burner.** Re-align the Air Shutter with the orifice, pushing it all the way back. Engage the burner venturi tube with the air shutter and seat the burner on its support brackets. Slide the air shutter forward (toward yourself) to about the half open position.
- 5. Replace the Burner Skirt, Fettle and Log Set.** See the Installation Manual for Log Set assembly instructions.
- 6. Replace the Glass Panel.** Engage the upper rim of the frame with the retainer lip at the top of the firebox. Use the latch tool to pull the latches forward to engage with the slots in the glass frame.

- 7. System Check.** Turn on the gas supply. Using the lighting instructions in the manual or on the rating plate, light the pilot and main burner. Check the flame pattern, (fig. 4) and adjust the Air Shutter as necessary to achieve the desired affect. See "System Check" in the Installation Manual for detailed procedures for flame appearance and air shutter adjustment.
- 8. Fill out the High Altitude Conversion Label** (fig. 5.) and apply it to the inside wall of the Control Valve compartment where it will be plainly visible to anyone servicing the insert (fig. 2.).

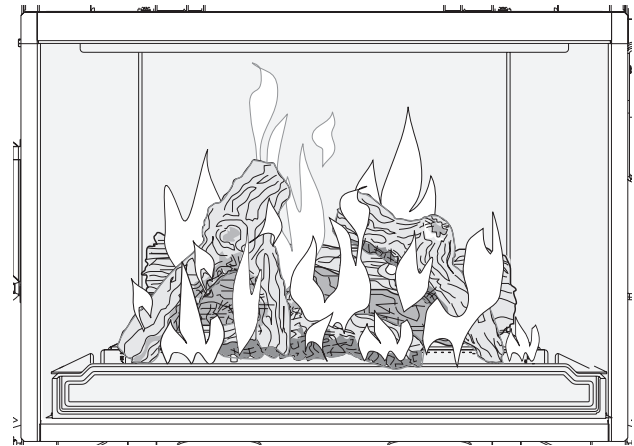


Figure 4. Correct flame pattern. After derating, the air shutter may require adjustment.

THIS STOVE HAS BEEN CONVERTED FOR USE AT AN ALTITUDE OF: _____

Orifice Size: _____ Manifold Press. _____

Input Btu/Hr. _____ Fuel Type _____

Date of Conversion _____

Figure 5. This label must be filled out and applied to the appliance by the installer.

Burner Specifications / Jøtul GI 550 DV

	NATURAL	PROPANE
Min. Input Rate at 0 - 2000'	21,900 BTU	20,000 BTU
Max. Input Rate at 0 - 2000'	38,000 BTU	38,000 BTU
Max. Input Rate up to 4500'	36,100 BTU	36,000 BTU
Manifold Pressure up to 4500'	1.2 wc - 3.8 wc	2.9 wc - 11.0 wc
Min. Inlet Pressure, 0 - 2000'	5.0 wc	12.0 wc
Increased Inlet Pressure, - 4500'	5.7 wc	14.0 wc
Orifice Size, 0 - 2000'	#31	1.80 mm
Orifice Size, 2000' - 4500'	#32	1.70 mm