



**Jøtul GI 535 DV IPI**  
**New Harbor**  
Direct Vent Fireplace Insert

# High Altitude Adjustment Instructions

Kit 157886 Manual Valve - LP  
Kit 157887 Manual Valve - NG

This 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 adjusted appliance is checked as specified in the manufacturer's instructions supplied with the kit.

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, pert ou blessure personnelle de vie. L'agence qualifiée do service est esponsable de l'installation propre de cet équipemetn. L'installation n'est pas propre et complète jusqu'à l'operation de l'appareil converi est chèque suivant les critères établis dans les instruction de propriétaire provision nées avel l'équipement.

**CAUTION:** Before proceeding with this conversion, the gas supply must be shut off prior to disconnecting the electrical power.

**ATTENTION:** Avant de procéder à cette conversion, l'approvisionnement en gaz doit être coupée avant de débrancher l'alimentation électrique.



# High Altitude Adjustment

When installing this appliance at altitude above 2000 feet, it is necessary to compensate for the thinner air (less volume of air per cubic foot). Higher altitudes affect the atmospheric pressure and heat value of gaseous fuels. The lower oxygen content in the air and the lower gas viscosity require the use of a different orifice to achieve efficient, clean combustion at the burner tube.

## In the U.S.

**THE DERATING KIT MUST BE INSTALLED BY AN AUTHORIZED SERVICE TECHNICIAN IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND ALL CODES AND REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. THE INFORMATION STICKER MUST BE FILLED OUT BY THE INSTALLER AND APPLIED TO THE APPLIANCE AT THE TIME OF THE CONVERSION. THE QUALIFIED SERVICE AGENCY PERFORMING THIS WORK ASSUMES RESPONSIBILITY FOR THIS DE-RATING.**

## 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 CAN-1-B-149.1 AND .2 INSTALLATION CODE.

## High Altitude Installations:

2000 ft. to 4500 ft. installations (or 610 m - 1370 m)  
See Table 1.

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 included with this kit must be completed by the installer and applied to the appliance at the time of the conversion. See fig. 1.

## Derating procedure

1. Turn off the gas supply and electrical power to the appliance.
2. Use the Latch Tool to remove the glass frame.
3. **RETRACT THE AIR SHUTTERS:** Locate the Air Shutter cables on the floor in each side compartment - push each cable fully in. This action retracts the shutters and allows the burner to be disengaged from the firebox. See fig. 3.
4. **REMOVE THE BURNER:**  
Lift out the two steel support shelves, fig. 2, (A), located at each side of the burner. Grasp the burner assembly at the sides, lifting it straight up, then tilt it back to disengage it from the injectors and front locator studs (B). Pull the assembly up out of the firebox.

GAS	ORIFICE SIZE	ELEVATION	JØTUL PART NO.
NATURAL GAS	#48 - Left	2001' - 4500' (611 - 1170 m)	229407 - Left
	#49 - Right		129411 - Right
PROPANE	#56 - Left	2001' - 4500' (611 - 1170 m)	129466 - Left
	#57 - Right		220977 - Right

Table 1. High Altitude Orifice Chart.

THIS APPLIANCE HAS BEEN CONVERTED FOR USE AT AN ALTITUDE OF \_\_\_\_\_

Orifice Size: \_\_\_\_\_ Manifold Press: \_\_\_\_\_

Input, BTU/Hr: \_\_\_\_\_ Fuel Type: \_\_\_\_\_

Date of Conversion: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Figure 1. High Altitude Conversion Notice Label

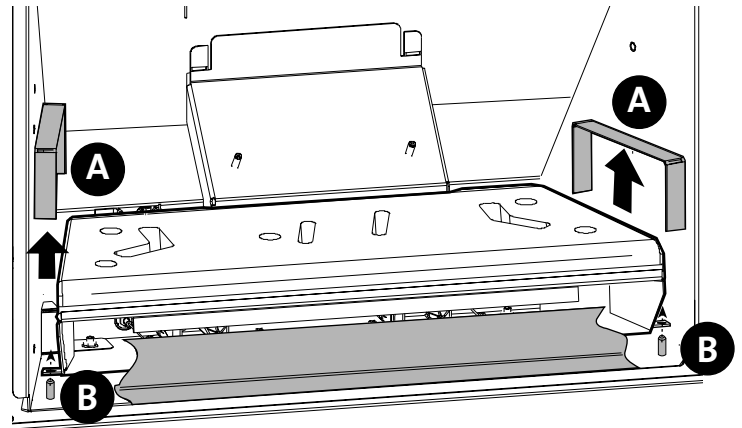
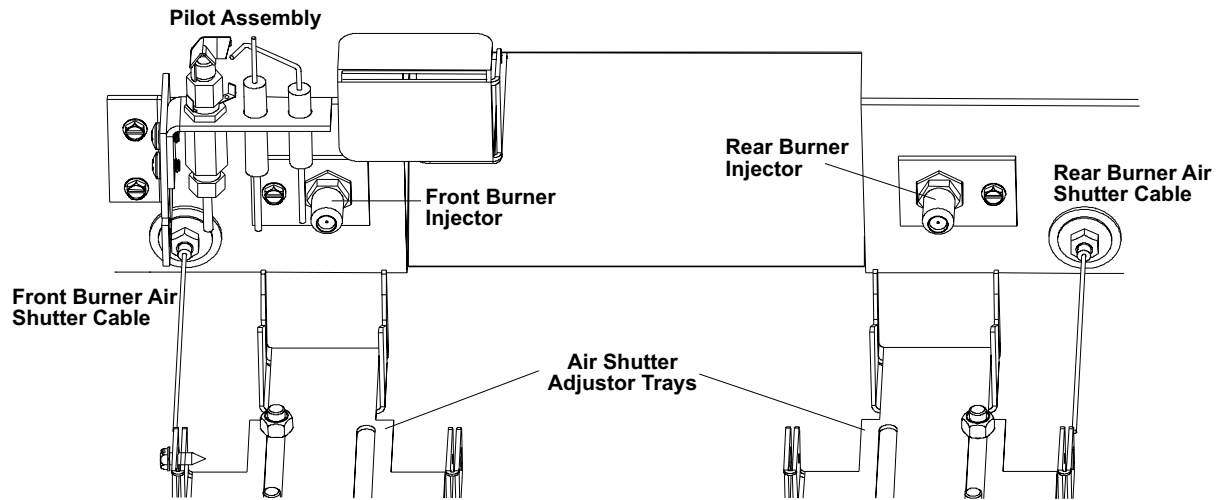


Figure 2. Burner removal and replacement.

5. Use a 1/2" deep well socket or open end wrench to remove the original injectors and replace with the appropriate ones from this kit as specified in Table 1 above.
6. Attach the high altitude conversion sticker provided to the rating plate on the appliance. See figure 1.
7. **REINSTALL THE BURNER ASSEMBLY.** Tilt the back of the burner down to engage the air shutters with the injectors. Set the burner in place, engaging the front brackets with the studs in the firebox floor, fig. 1, (B). Replace the steel side support shelves, fig. 1, (A). **BE CERTAIN THE BURNER IS LEVEL AND SECURELY SEATED ON THE FIREBOX FLOOR.** Properly located, it should not be able to move in any direction.
8. Use an electronic gas detector or soap solution to test for leaks at the pilot head and all gas line joints. **NEVER USE AN OPEN FLAME TO CHECK FOR GAS LEAKS.**

Figure 3. Injector conversion.



## Gas Pressure Check

Correct gas pressure is essential for efficient and safe operation of the stove. It is important that the correct pressure is established at the time of the installation. Proper gas pressure provides a consistent flow of gas to the appliance and is instrumental in checking for gas leaks.

**Pressure Test:** Attach a manometer to the appropriate test point on the valve. See fig. 4. The gauge connections are located on the front of the valve. Connections are identified by:

**E - for Inlet or Supply Pressure** (the amount of gas coming to the valve.)

**A - for Manifold Pressure** (the amount of gas that is coming out of the valve to the burner.)

### INLET GAS PRESSURES (inches water column)

	MIN	MAX
NATURAL GAS	5.0	7.0
PROPANE	12.0	14.0

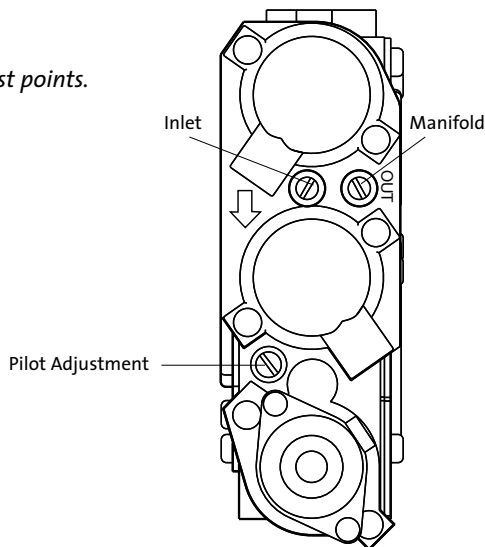
The appliance and its appliance main gas valve must be disconnected from the gas supply piping system during any pressure testing on that system at test pressures in excess of 1/2 psig (3.5 kPa).

The appliance must be isolated from the gas supply line by closing its individual manual gas shut-off valve (gas cock) during any pressure testing of the gas supply piping system that is equal to or exceeds pressures of 1/2 psig (3.5 kPa).

### MANIFOLD PRESSURES (inches water column)

	MIN	MAX
NATURAL GAS	1.1	3.8
PROPANE	2.9	11.0

Figure 4.  
Pressure test points.



## Integrated Gas Cock

An in-line gas cock is built into the left side firebox compartment, just upstream from the gas valve. Use the fireplace Latch Tool to open and close the gas cock. See figs. 5 and 6 on page 4.

Figure 5.  
Insert the Latch Tool into the receiver hole in  
the gas cock.

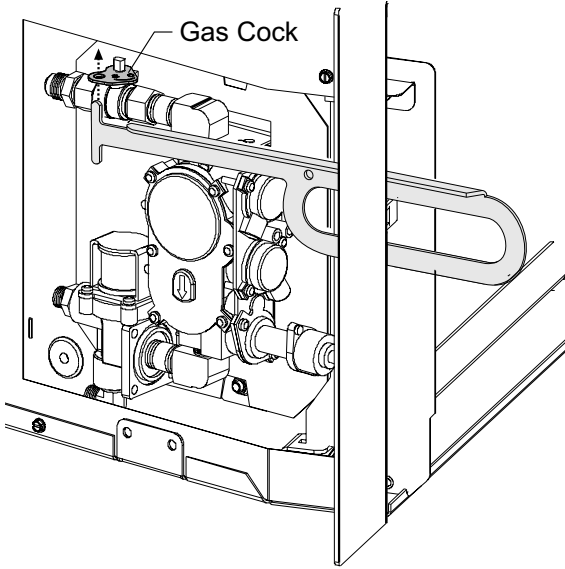


Fig. 6. Pull the tool forward toward you to open the gas  
cock. Push it back to close the gas cock.

