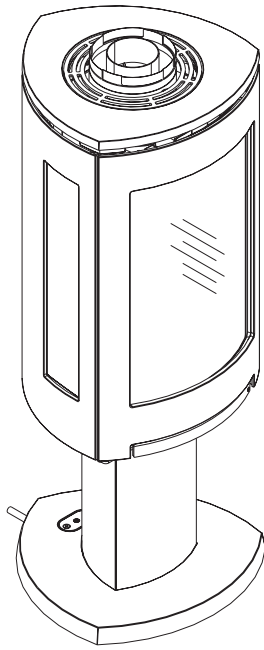




Jøtul GF 370 DV  
Direct Vent Gas Stove



## Fuel Conversion Instructions

Kit 156800 NG to LP  
Kit 156801 LP to NG

This conversion 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.

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'autorités 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.



## 5. Fuel Conversion

The GF 370 DV gas stove is shipped from the factory equipped to burn either Natural or Propane gas. Fuel Conversion Kits are available to convert to the alternate fuel. The kit contains all the necessary components needed to complete the task and ensure safe operation, including labels that must be affixed to the stove.

### Conversion Kit LP #156800 / NG #156801

#### Tools required:

- 1/2" & 13 mm open end wrench or deep-well socket
- Torx T20 or slotted screwdriver
- 7/16" open end wrench      • 1/4" nut driver
- 3 mm allen wrench            • 4 mm allen wrench

#### Conversion Kit Contents:

- 1 regulator tower labeled for the appropriate fuel
- 2 regulator tower Torx screws
- 1 burner injector:      #38 - NG / #52 - LP
- 1 pilot orifice:          #51 - NG / #30 - LP
- Label A - to be completed and applied to the base of the valve compartment
- Label B - apply to the rating plate in the space indicated on the plate.
- Small valve label - apply to valve body
- Conversion instructions

#### SIT Proflame 885 Valve / 33% TD

Rating Specifications:	NG	LP
Min. Input Rate, 0 - 2000 ft.	18,000	21,000
Max. Input Rate, 0 - 2000 ft.	28,000	28,000
Max. Input Rate, up to 4500 ft.	27,200	25,500

### Fuel Conversion Procedure

1. Turn off gas supply to the stove and disconnect from electrical power source.
2. Remove the glass frame using the 4 mm hex key supplied with the stove. See fig. 1.
3. Loosen the primary air shutter wingnut and push the stem all the way back. Fig. 2.
4. Pull the Burner Plate forward to disengage it from the burner orifice and lift it out of the firebox.
5. Locate the main burner injector. See fig. 4. Slide the Air Shutter out of the way and use a 1/2" open end wrench or deep-well socket to remove the burner orifice from the brass orifice holder. Replace with the orifice supplied in the kit. Tighten securely.
6. Change the Air Shutter position: Lift the shutter tube up in its hinge pin slots and turn the tube over, so that the appropriate fuel type indicator (LP or NG) is oriented facing you. See fig. 3. Push the shutter all the way back over the injector.

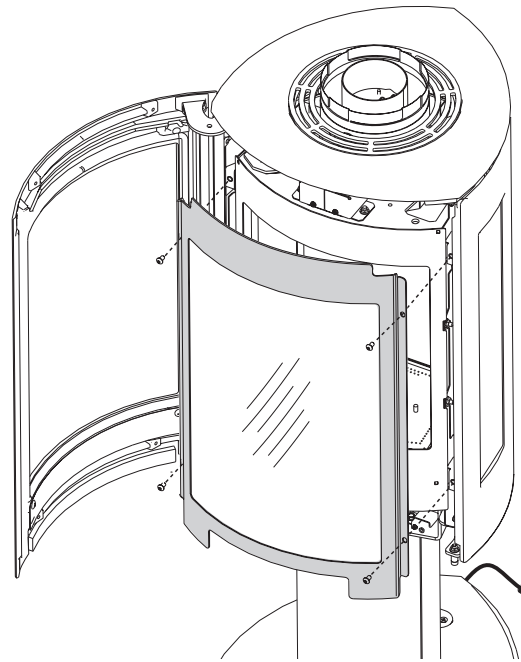


Figure 1. Remove glass frame.

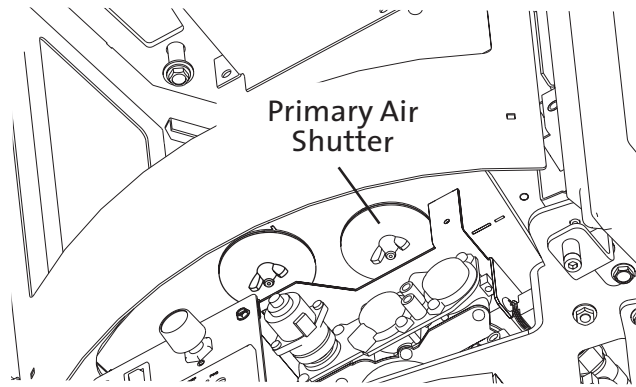


Figure 2. Primary air Shutter location

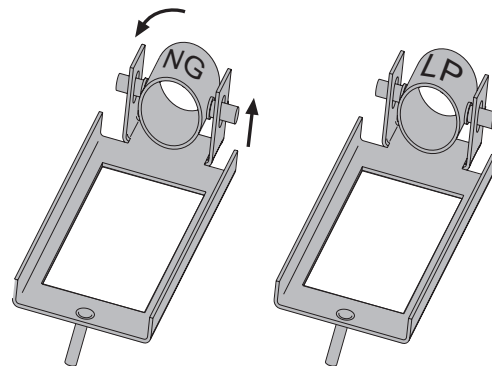


Figure 3. Primary air shutter orientation must be changed for fuel type.

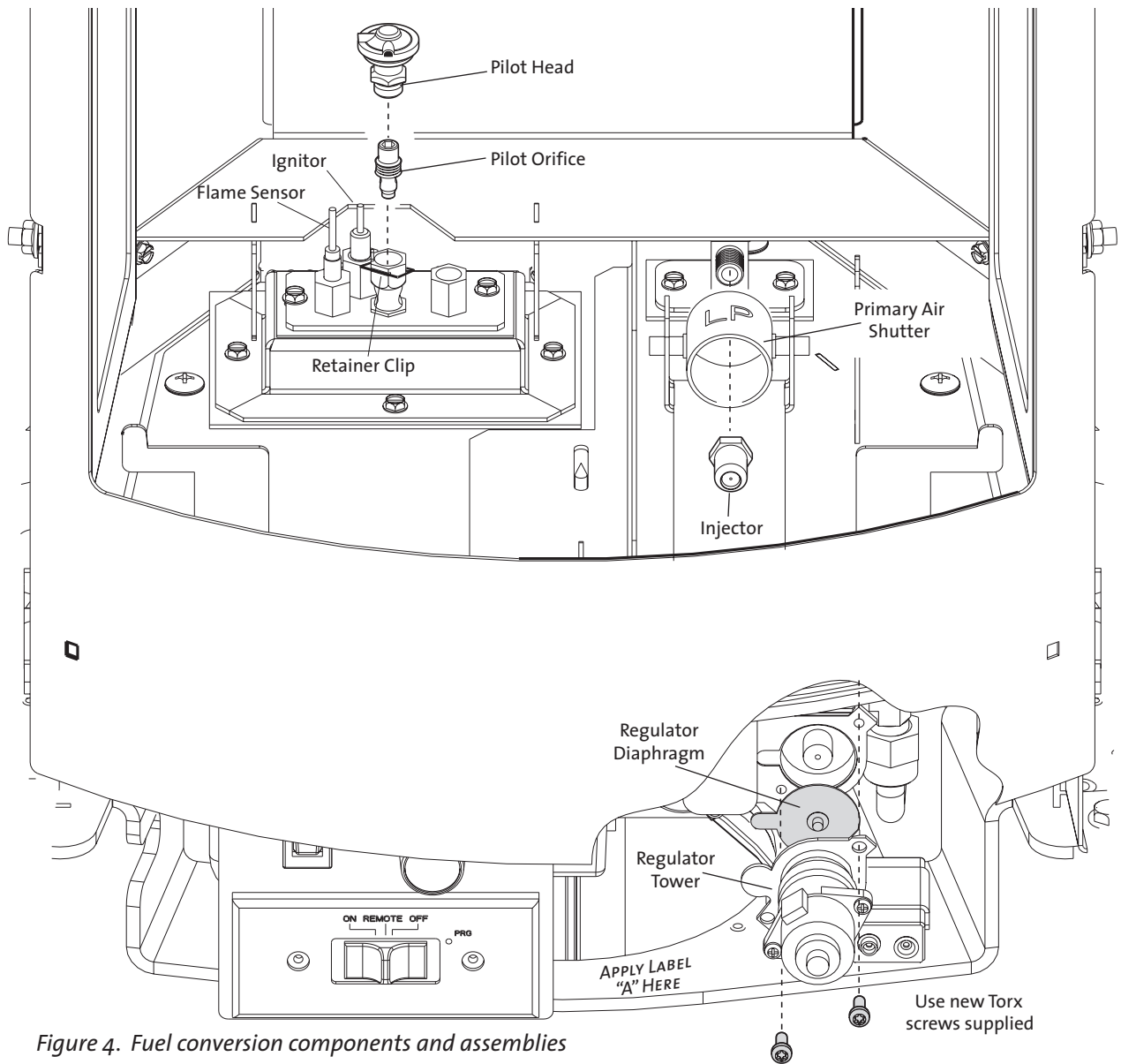


Figure 4. Fuel conversion components and assemblies

7. Change the Pilot Orifice. Pull the Pilot Hood off of its base. It will snap by the retainer clip shown in Fig. 4. Using a 4 mm allen wrench, unscrew the pilot orifice. Replace it with the orifice from the kit. Be sure the new orifice is tightly secured to prevent by-pass leakage.  
 Replace the pilot hood. Use a small, flat head screwdriver to pry back the retainer clip and then re-insert the head onto the base.
8. Reinstall the Burner Plate by engaging the venturi tube with the Air Shutter. **BE CERTAIN THE BURNER IS LEVEL AND SECURELY SEATED ON THE SUPPORT LEGS ON THE FIREBOX FLOOR.**
9. Replace the variable regulator. Using a Torx T-20 screwdriver, remove the two specialty screws from the regulator tower on the front of the valve. Note: To help identify which screws to remove, refer to the new regulator in the kit. See fig. 4.
10. Remove the regulator tower and the rubber diaphragm. Be sure to remove the black rubber gasket from the valve.
11. Install the new variable regulator tower from the kit. Be sure that the gasket is properly positioned and tighten screws securely.
12. Apply the identification labels to the stove so that they can be seen by any person that may be servicing the stove.
  - Label "A": Apply to front lip of the valve compartment.
  - Label "B": Apply to the Rating Plate.
  - Small valve sticker: Apply to valve.
13. Install the accessory panels and burner media as appropriate. See pages 19-21 of the Owner's Manual.
14. Apply anti-seize lubricant to the socket head glass frame screws before reinstalling the glass frame.

15. 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.**

**16. Pressure Test:**

The gas line must be isolated from the gas supply line by closing the main supply 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).

There are two pressure test points on the front of the stove control valve where test gauge connections are made. See fig. 5. Gauge 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.)

Connect a manometer and take pressure readings at both test points. The reading must fall within the ranges specified at below.

**Inlet Pressure**

	MIN	MAX
Natural Gas:	5.0 WC (1.24 kPa)	7.0 WC (1.74 kPa)
Propane:	12.0 WC (2.99 kPa)	14.0 WC (3.48 kPa)

**Manifold Pressure**

	MIN	MAX
Natural Gas:	1.6 WC (0.398 kPa)	3.5 WC (.87 kPa)
Propane:	6.4 WC (1.59 kPa)	10.0 WC (2.48 kPa)

ALWAYS TEST PRESSURES WITH VALVE REGULATOR CONTROL AT THE HIGHEST SETTING.

**WARNING**

**DO NOT ALLOW THE INLET GAS PRESSURE TO EXCEED 14.0" WC (OR 1/2 PSIG) AS SERIOUS DAMAGE TO THE VALVE MAY RESULT.**

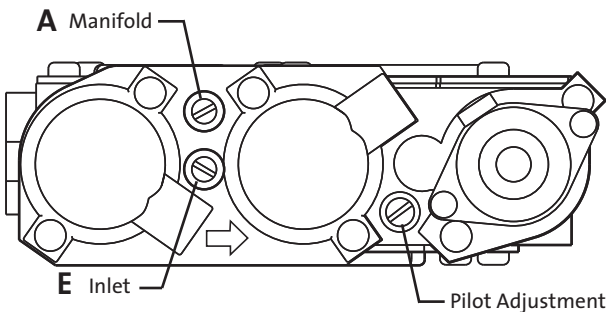


Figure 5. Pressure test points located on the front of the valve.

**Symptoms of incorrect gas pressure include:**

**Insufficient gas pressure:**

- Small pilot flame which can result in insufficient millivolts.
- Little variation in flame picture between HI and LO regulator settings.
- Insufficient gas to support more than one appliance causing nuisance outages or gas surges.

**Excessive gas pressure:**

- Permanent damage to valve causing complete appliance shut down.
- Too large a pilot flame resulting in overheating of the power generator and consequent shut down.
- Sooting due to impingement and/or incorrect fuel to air mix.

**17. Adjust Primary Air Shutter and Flame Picture.**

Slide the shutter stem back to decrease air and forward to increase air supply to the injector.

For either fuel, start at the half-way setting, and let the burner settle-in for 15-20 minutes before making any adjustments. Make adjustments in 1/8" increments, letting the burner settle-in again before making each subsequent adjustment.

SEE THE OWNER'S MANUAL FOR FURTHER DETAILS REGARDING PRIMARY AIR AND INLET/ EXHAUST RESTRICTOR SETTINGS THAT AFFECT COMBUSTION EFFICIENCY AND FLAME PICTURE.



Figure 6. Proper flame picture -Traditional Logs.

See Owner's Manual for examples of flame pictures for River Rock and Starfire Glass embers.