



# Technical Data Sheet

## DVI-Ht Model 8890 LP Gas Conversion

Kit Number 98-56902

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Use this kit for high altitudes (2000-4500ft) except when the #56(sold separately) replaces the #55 orifice.

### MATERIALS REQUIRED:

- 1 - #7200-355: #55 Orifice Spud
- 1 - #7200-362: #62 Orifice Spud
- 1 - #7211-136: 0.35mm Pilot Orifice
- 1 - #7211-317: LP Valve Regulator
- 1 – Conversion Label
- 1 – Red LP Sticker
- 1 – Instructions

### **(Not supplied with this kit)**

- 1- #7200-756: #56 Orifice Spud (2000-4500ft only)

### TOOLS REQUIRED:

- T-20 Torx
- Cross-tip Screwdriver
- Flat Screwdriver
- 5/32 Hex Wrench
- ½" Wrench or Socket
- 3/8" Wrench
- Manometer

#### **WARNING**

A qualified service agency must install this conversion kit 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 can 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 owner instructions supplied with the kit.

#### **AVERTISSEMENT**

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'autorité ayant 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, perte ou blessure personnelle de vie. L'agence qualifiée de service est responsable de l'installation n'est pas propre et complète jusqu'à l'opération de l'appareil converti est chèque suivant les critères établis dans les instructions de propriétaire provisionnées avec l'équipement.

 **CAUTION:** Disconnect the gas supply and electrical power before making this conversion. Disconnect the gas supply before disconnecting the electrical power.

## PROCEDURE:

- 1) Lift the façade (front with doors) up and off the front of the insert (if installed).
- 2) Using a flat screwdriver, lift up the 4 tabs on the top of the glass frame while holding the front of the glass with your free hand. Allow the glass to lean forward and lift it out of the stove.
- 3) Carefully lift the logs out of the firebox (if installed). Carefully remove the ceramic burner from the firebox. See Photos 1 & 2. (Push the air shutters completely forward to ease burner removal)



**Photo 1**  
Logs on Ceramic Burner



**Photo 2**  
Ceramic Burner

- 4) With the ceramic burner removed, you can now remove the two NG orifices by moving the shutters off the orifices one at a time. Using a ½" socket or wrench, remove the NG orifices and install the LP. The #55 (#56 for 2000-4500ft) is installed on the left side and the #62 on the right side (as you face the stove). See Photos 3 & 4.

**Photo 3**  
Firebox with ceramic burner removed.



**Photo 4**  
Left shutter moved to the side to allow access for orifice change. Repeat on right side.

5) Unscrew and lift out the pilot shield to replace the NG pilot orifice with the LP pilot orifice provided with this kit. See photos 5 and 6.



**Photo 5**  
Pilot shield over pilot assembly.

Remove this screw to remove the pilot shield.



**Photo 6**  
Exposed pilot assembly

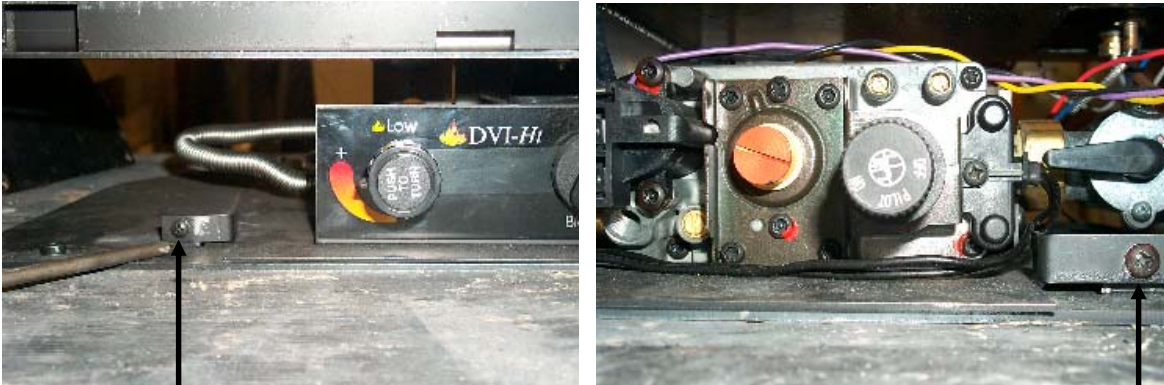
### **Install The LP Pilot Orifice:**

1. Locate the pilot assembly inside the stove (see photo). Remove the easy off top of the pilot burner hood by grasping it and pulling it up and off the pilot assembly.
2. Using the 5/32" hex wrench, unscrew and remove the NG pilot orifice. Insert the 35mm LP orifice provided with this kit and tighten it with the hex wrench.
3. Snap the pilot burner hood back into place on the pilot stem, making sure the cutout of the hood aligns with tab on the orifice housing.
4. Replace the pilot shield, ceramic burner, logs and glass.



## Converting the Valve:

1. Using a cross-tip screwdriver, turn out the two screws that hold the valve tray assembly in place and pull the tray forward. This allows for easy access to the valve regulator. See photos 7 –9.

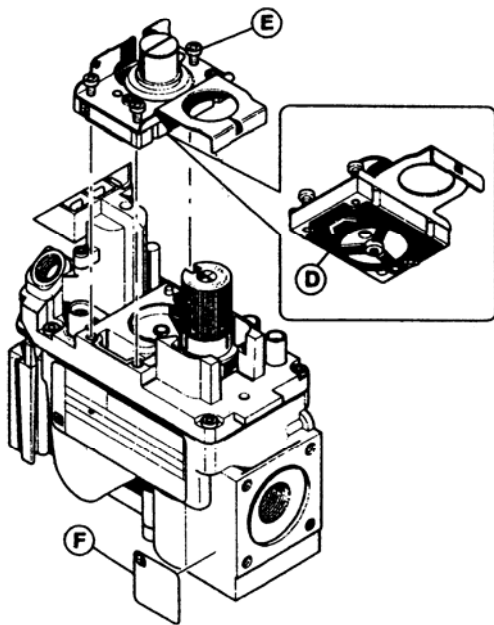
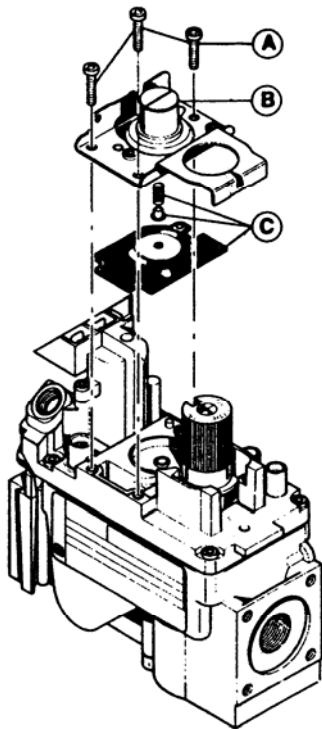


**Photos 7 & 8**

Removing the cross-tip screws on the left and right allows the valve tray assembly to slide out for service.



**Photo 9**  
Valve tray  
pulled out for  
service.



1 Turn control knob to the off position, and shut off the gas supply to the valve.

2. Using a slotted screwdriver, remove and discard the three pressure regulator mounting screws **(A)**, pressure regulator tower **(B)**, and the spring and diaphragm assembly **(C)**.

3. Insure the rubber gasket **(D)** is properly positioned and install the new ON/OFF pressure regulator assembly to the valve using the new screws **(E)** supplied with the new regulator. Tighten screws securely. (reference torque = 25 In.Lb.)

4. Install the enclosed identification label **(F)** to the valve body where it is easily seen.

5. Apply gas to system and re-light appliance according to the instructions.

6. With the main burner "ON", test the new pressure regulator assembly for leaks using a soap solution.

7. Relight the main burner and verify proper burner ignition and operation.

**⚠ WARNING! APPLY THIS ON/OFF CONVERSION KIT ONLY AS PART OF A CONVERSION KIT SUPPLIED BY HEARTHSTONE FOR THE DVI-HT 8890, AND FOR THE SPECIFIC TYPE OF GAS REQUIRED.**

**⚠ LEAK TEST ALL FITTINGS WITH A GAS SNIFFER BEFORE, AND AFTER, LIGHTING THE STOVE.**


## Adjust the Shutters:

1. Locate the two shutter slide controls underneath the stove. Loosen the locking nuts with a 3/8" wrench. Pull each slider fully forward and then push it back about 1/4". Adjustments are made only after the flame is on for a few minutes. Once adjusted, lock the sliders in place by tightening the nuts.

The input rate of the heater is verified by checking the manifold pressure. If the manifold pressure is correct, then the input rate is correct.

<b>Specification:</b>	<b>NG</b>	<b>LP</b>
Input rating (Btu/hr)	33,000	33,000
Maximum output (BTU/hr)	26,900	26,200
Minimum input rating (Btu/hr)	13,000	12,000
Orifice size DMS	43, 52	55, 62
Orifice size DMS (2000-4500ft)	44, 52	56, 62
Man. pressure-HI setting (in. w.c./kPa)	3.5/1.15	10.0/0.8
Man. Pressure-Lo setting (in.w.c./kPa)	1.2/0.3	3.3/1.59
Inlet pressure-MAX (in. W.c./kPa)	10.5/2.6	14.0/3.47
Inlet pressure-MIN (in. W.c./kPa)	5.0/1.24	11.0/2.88

For installations from 610-1370 meters (2000-4500 ft.) the orifice sizes (DMS) for natural and propane gas are 44, 52 and 56, 62 respectively. See data 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 sticker must be filled out by the installer and adhered to the appliance at the time of conversion

 *Cet appareil est équipé pour des altitudes comprises entre 0 et 2000 pieds (0-610 m) seulement*