



# Technical Data Sheet

## Bari (8180) Modena (8140) Luno (8160) Gas Conversion From LP to NG *Part #91-56801*

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### **INCLUDED IN KIT:**

7200-338: #38 NG Burner Orifice Spud  
7211-163: 0.62 mm NG Pilot Orifice  
NG Sticker (White)

### **TOOLS REQUIRED:**

Phillips Screwdriver  
5/32" (4 mm) Hex Wrench  
Pliers  
1/2" (13 mm) Wrench

### **!!Warning!!**

This conversion kit must be installed by a qualified gas 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 performing this work assumes responsibility for the proper conversion of this appliance. 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.

### **!!Attention!!**

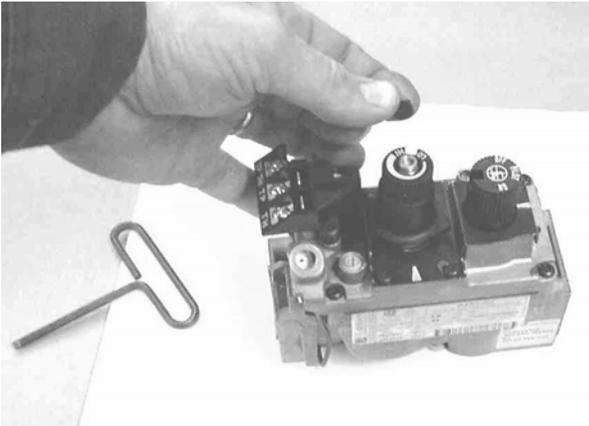
Cet équipement de conversion sera installé par une agence qualifiée de service conformément aux instructions du fabricant et toutes exigences et codes applicables de l'autorisés avoir la juridiction. Si l'information dans cette instruction n'est pas suivie exactement, un feu, explosion ou production de protoxyde de carbone peut résulter le dommages causer de propriété, perte ou blessure personnelle de vie. L'agence qualifiée de service est esponsable de l'installation propre de cet équipement. L'installation n'est pas propre et complète jusqu'à opération de l'appareil converti est chèque suivant les critères établis dans les instructions de propriétaire provisionnées avec l'équipement.

**CAUTION:** Turn off the gas supply before making this conversion.

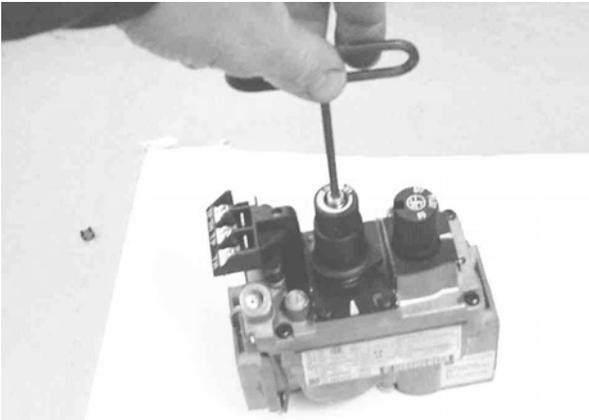
## PROCEDURE:

1. Open the front door using the 5mm wrench provided with the stove.
2. Carefully remove the logs and embers and ember screen. Using the Phillips screwdriver remove the (1) 8-32 screw holding down the burner. With the screw removed, gently lift the steel burner up and angle it out of the front opening in the firebox.
3. Remove the primary air shutter tube so you can gain access to the main burner orifice. Using the ½" wrench locate and remove the #52 LP orifice. Insert the #38 NG orifice and tighten.
4. Place the primary air shutter tube back on the shutter slide.
5. Locate the thumb screw under the stove that locks the primary air shutter in place. Loosen this thumb screw. Slide the air shutter (located under the shutter box) backward (away your body) - this is the proper adjustment for NG gas. Tighten the nut to hold the shutter in this position.
6. Locate the pilot assembly inside the firebox. Remove the easy off top of the pilot by grasping it and pulling it up and off the pilot assembly. You may need the pliers for this?
7. Using a 4 mm hex wrench (substitute the 5/32" if a 4 mm is not available), unscrew and remove the LP pilot orifice. Insert the 0.62 mm NG 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, making sure the cutout of the hood aligns with the tang on the orifice housing.
9. Place the steel burner back into the firebox and secure it to the firebox bottom by replacing the screw removed in step 2.
10. Close the front and replace the mounting screw on the bottom portion of the door.
11. This stove is equipped with a universal valve that allows conversion to NG without additional parts. Locate the valve below the ash lip under the front of the stove. If the extension knobs are installed, pull them off the control knobs.

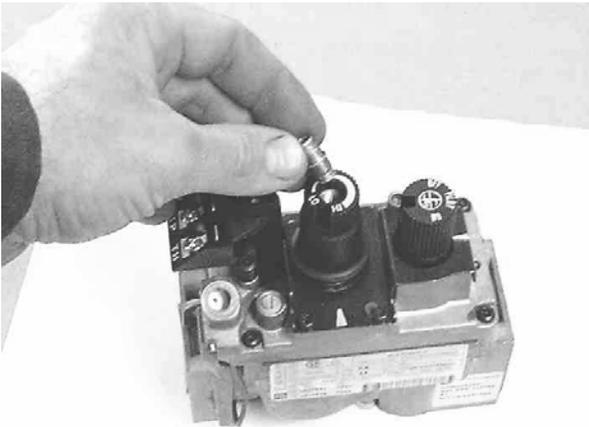
12. Working on the Hi/Lo knob, pull off the cap on the face of the knob (see Photo #1).
13. Using a 4 mm hex wrench, remove the conversion plug that is inside the knob (see Photo #2).
14. Rotate the conversion plug and install it back into the knob. Turn the plug in with the hex wrench until it is snug – be careful not to use excessive force, as this could damage the plug.



**Photo #1**  
Remove the plug on the face of the Hi/Lo knob.



**Photo #2**  
Using the 5/32" (4 mm) hex wrench to remove the conversion plug.



**Photo #3**  
To convert the valve to NG, turn the conversion plug over and reinstall it with the hex wrench.

**NOTE:** When converted to NG, you will NOT see the red ring on the conversion plug after it is installed.

15. Place the white NG sticker onto the lighting instructions. These are located on the back of the lab plate attached to the stove with a cable.

**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.



**Photo #4 Pilot to Burner relationship**

**NOTE:** When reinstalling the pilot hood ensure the burner ports are located like in Photo#4.

1. Properly leak test the gas system using a leak tester to ensure that there are no leaks within the gas components when complete.
2. Using the test taps on the valve, ensure that you have the proper manifold pressures within reference to the chart below.
3. See the owner's manual for proper main burner and pilot flame pattern.
4. Fill out the conversion label and place it on the valve control door where visible when the door is opened.
5. Installations in Canada above 2000 ft (610m) should derate the appliance accordingly. Ask for high altitude kit # 91-56803.

	<b>NG</b>	<b>LP</b>
Input rating (btu/hr) 0 - 2,000	26,500	26,500
High altitude input rating (btu/hr) 2-4,500ft	26,500	26,000
Maximum output (btu/hr) 0-2,000 ft	19,600	20,100
Minimum input rating (Btu/hr)	16,400	15,500
Orifice size DMS 0- 2,000 ft	38	52
High altitude orifice size 2-4,500 ft	38	53
Manifold pressure-Hi Setting (in. w.c./kPa)	3.5/0.87	10.0/2.48
Man. Pressure-Lo setting (in.w.c./kPa)	1.2/0.3	3.3/0.8
Minimum Inlet Pressure- (in.w.c./kPa)	5.0/1.25	11/2.88
Maximum Inlet Pressure- (in.w.c./kPa)	7.0/1.74	13.0/3.22

\*To test the manifold pressures, use the available taps on the main gas valve.