



# Technical Data Sheet

## Bristol 8762 High Altitude NG Conversion

*Kit 97-56623*

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### **KIT COMPONENTS:**

3300-546 - High Altitude Sticker  
7200-466 - #47 Front Burner Orifice  
7200-447 - #43 Rear Burner Orifice

### **TOOLS REQUIRED:**

½" (13mm) Socket or wrench

- 🔥 **CAUTION:** TURN OFF THE GAS SUPPLY, DISCONNECT ANY ELECTRICAL SOURCE TO YOUR STOVE, AND REMOVE THE BATTERIES FROM THE RECEIVER BEFORE MAKING THIS CONVERSION.
- 🔥 **IMPORTANT:** This kit and these instructions apply to the Bristol DX 8762 model only. **DO NOT attempt this conversion on any other model.**

- 🔥 **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 WITH THIS KIT.
- 🔥 **ATTENTION:** *CET ÉQUIPEMENT DE CONVERSION SERA INTALLÉ PAR UNE AGENCE QUALIFIÉE DE SERVICE CONFORMÉMENT AUX INSTRUCTIONS DU FABRICANT ET TOUTES EXIGENCES ET CODES APPLICABLES DE L'AUTORISÉS AVOIR LA JURIDICION. SI L'INFORMATION DANS CETTE INSTRUCTION N'EST PAS SUIVIE EXACTMENT, UN FEU, EXPLOSION OU PRODUCTION DE PROTOXYDE DE CARBONE PEUT RÉVALTER LE DOMMAGES CAUSER DE PROPRIÉTÉ, PERTE OU BLESSURE PERSONELLE 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 CHÉQUE SUIVANT LES CRITÈRES ÉTABLIS DANS LES INSTRUCTIONS DE PROPRIÉTAIRE PROVISIONNÉES AVEC L'ÉQUIPEMENT.*

## PROCEDURE:

1. Turn off the gas supply to the valve. Unplug the Fan Control Module from the 120 volt receptacle.
2. **Receiver Module Battery Removal:**
  - a. Move the Receiver's switch to the OFF position. Remove the cover plate screws and pry the entire plate with the switch off the receiver's battery compartment.
  - b. Remove the four batteries from the compartment
3. Remove the top and front façade. Remove the front glass assembly. To remove the glass assembly pull the spring mounted handles forward and up to free the glass frame. Carefully set everything aside. Remove the logs and set them aside. Carefully remove the ember burner. Refer to the owner's manual for additional instructions.
4. Find the two burner orifices. Using a 1/2" (13mm), socket or wrench remove the NG orifices. Locate the #47 LP orifice and install in the rear location, and the #43 in the front position.
5. Reinstall the ember burner. Reinstall the logs according to the instructions in the owner's manual.
6. Replace and secure the front glass assembly and casting. Set the top back in place.

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

7. Once the leak tests are complete, replace the modesty panel and record this change by filling out the High Altitude conversion label and placing it on the stove in a place that will be visible to all service technicians.
8. **Receiver Battery Installation**
  - a. Install four AA batteries. Ensure you orient the batteries correctly as indicated on the battery compartment cover.
  - b. Ensure the switch is still in the OFF position, align the slider with switch stem and snap the cover plate back onto the battery compartment.
  - c. Replace the cover plate screws.
9. **Initializing the Remote Control**

**Note:** Whenever you replace batteries, you must synchronize communication between the Receiver and the Remote Control transmitter.

  - a. Place the slider switch in the REMOTE position.
  - b. Insert the end of a paper clip into the hole marked PRG on the Receiver cover. The Receiver will beep three times to indicate it is ready to synchronize with the Remote Control.
  - c. Push the Remote's ON button. The Receiver will beep four times to indicate the Remote's command is accepted and is set to the particular code of that Remote. The system is now initialized.
10. After the conversion is complete, and the logs are repositioned, seal the firebox and make final adjustments to the flame for each burner section.
  - a. **Important: Burn the stove for at least 15 minutes before making any air shutter adjustments. Ensure that orange flames are not present, as this is a sign of incomplete combustion and will produce soot.**

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.

Specification	NG	LP
INPUT RATING (Btu/hr) 0-610 m	36,000	33,000
INPUT RATING (Btu/hr) 610-1370 m	35,000	30,000
MAXIMUM OUTPUT (Btu/hr) 0-610 m	28,200	26,200
MINIMUM INPUT (btu/hr) 0-610 m	16,000	10,000
ORIFICE SIZE (DMS) 0-610 m (f/r)	43/46	54/57
ORIFICE SIZE (DMS) 610-1370 m (f/r)	43/47	55/59
MANIFOLD PRESSURE - (in. W.c./kpa)	3.5/0.87	10.0/2.48
MANIFOLD PRESSURE - Low setting (in. W.c./kpa)	1.1/.027	6.4/1.59
INLET PRESSURE - MINIMUM (in.w.c./kpa)	5.0/1.25	12.0/2.99
INLET PRESSURE – MAXIMUM (in. w.c./kpa)	7.0/1.74	13/3.22

**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.