

CONVERSION KIT (2272127)

INSTRUCTIONS

NATURAL GAS TO PROPANE (LP) AT SEA LEVEL

BW3 BOILERS: 2 SECTION THRU 7 SECTION GAS FIRED HOT WATER BOILERS

BW1 & BW2 BOILERS: FOR 2 SECTION THRU 9 SECTION GAS FIRED HOT WATER BOILERS

This conversion kit applies to gas-fired boilers produced on or after April, 1999 & bearing a serial number date code of 1799 or newer.

⚠ WARNING

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, an 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.

Kit installation shall be completed by qualified agency.

⚠ WARNING

Fire, explosion, asphyxiation and electrical shock hazard. Improper installation could result in death or serious injury. Read this instruction and understand all requirements, including requirements of authority having jurisdiction, before beginning installation. Installation not complete until appliance operation verified per Installation, Operation & Maintenance Manual provided with boiler.

Installation Instructions:

1. Follow instructions To TURN OFF GAS TO APPLIANCE found on Operating Instructions label on boiler or in Installation, Operation & Maintenance Manual. Verify all electrical power to boiler is turned off.

⚠ WARNING

Electrical shock hazard. Turn OFF electrical power supply at service panel.

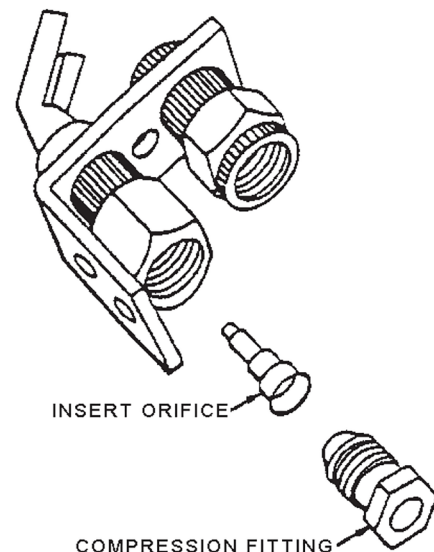
2. Remove all main burners. Take care to not disturb insulation on inside of combustion chamber or damage the pilot burner assembly.
3. Determine pilot burner type, stamped on pilot burner bracket, Q314A or Q3451B. Replace natural gas pilot orifice with enclosed propane gas pilot orifice BDR-12. See figure 1.

Parts List

Description	Qty
BW3 use 1/8" #51 drill size main orifices for 3-5 section boilers	4
BW3 1/4" #51 drill size main burner orifices for 6-7 section boilers	6
BW1 & BW2 1/8" #52 drill size main orifices for 2-5 section boilers	4
BW1 & BW2 1/4" #52 drill size main burner orifices for 6-9 section boilers	8
BW3 use as required - 1 for each main burner: 1/8" #49 drill size main burner orifice, use instead of 1/8" #51 drill size on 2 section induced draft boilers only	1
LP gas regulator spring (Honeywell #3393691), use to convert natural gas valve to operate with propane gas pressures	1
BDR-12 insert type pilot orifice for Q314A and Q3451B pilot burners	1
5/8" brass compression fitting, use as new pilot tube to pilot burner fitting should tubing break during gas conversion	1
Conversion kit data plate	1
Kit Instructions 2400xxxxx	1

NOTE: Take care to use the correct orifices for your boiler!

Figure 1 - Q314A or Q3451B



Installation Instructions - conti.

4. Replace all natural gas main burner orifices with enclosed propane gas main burner orifices. Water boiler conversion kits include enough orifices for 9 section boiler. On smaller boilers there will be extra orifices.
5. Reinstall all burners. Verify the burner mounting tabs sit squarely in the burner support bracket.
6. Replace natural gas regulator on gas valve with the enclosed propane gas regulator. Verify the tapered spring on the gas valve is inserted correctly. See figure 2.
7. Adhere conversion kit data plate to right side jacket panel adjacent to boiler's rating plate.
8. Test all gas piping for leaks using soap solution. Never TEST FOR LEAKS WITH AN OPEN FLAME.
9. Follow instructions in "Start-up Procedure" section of boiler's Installation, Operation & Maintenance Manual for proper startup and verification procedures.
10. Confirm gas inlet supply pressure to gas valve is within specified range as shown on conversion kit data plate.
11. Regulator spring (3393691) requires adjustment at the time of installation. Adjust manifold pressure to 10.0 inches water column.

Figure 2 - VR800, VR8204, VR8300, VR8304 Gas Valves

