

# CONVERSION KIT INSTRUCTIONS

## NATURAL DRAFT, CAST IRON

### GAS FIRED BOILERS FOR FORCED HOT WATER

### LP TO NATURAL GAS TO CONVERSION

### MGB/OMGB/MCB

#### **⚠ WARNING**

Conversion kit shall be installed by qualified service agency in accordance with manufacturer's instructions and all applicable codes and requirements of authority having jurisdiction. If information in these instructions is not followed exactly, a fire, explosion or production of carbon monoxide may result causing personal injury or loss of life. Qualified service agency is responsible for proper installation of this kit. Installation is not proper and complete until operation of converted appliance is checked as specified in manufacturer's instructions supplied with the kit.

#### **Tools Required**

- Flat Head Screwdriver
- 1/4" Nut Driver
- 7/16" Open Ended Wrench
- 3/16" Allen Wrench
- 18" Manometer (or dial manometer)

#### **Converting Boiler From Natural Gas To Propane (LP):**

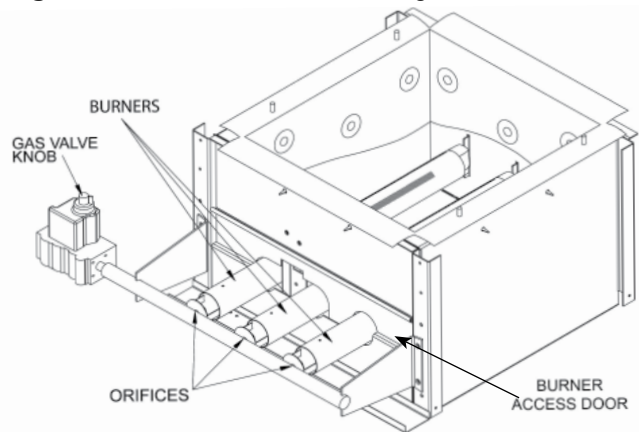
1. Follow instruction TO TURN OFF GAS TO APPLIANCE. Verify electrical power is OFF.
2. Remove front panel.
3. Remove burner access door.
4. Remove main gas burner tubes. See Figure 1.
5. Remove main burner orifices. See Figure 1.
6. Install Natural gas main burner orifices. Discard excess LP orifices.
7. Use 7/16" wrench, disconnect pilot tube from pilot. See Figure 2.
8. Remove pilot orifice.
9. Install Natural gas pilot orifice. See Table 3.
10. Apply liquid sealing compound (provided) to threads of pilot assembly fitting.
11. Reattach pilot tube to pilot and securely tighten. See Figure 2.
12. Replace main gas burner tubes. If LP burner tubes are present replace with Natural tubes. See Figure 3.

**For White-Rodgers Gas Valve refer to separate instructions in White-Rodgers envelope in place of steps 13-18.**

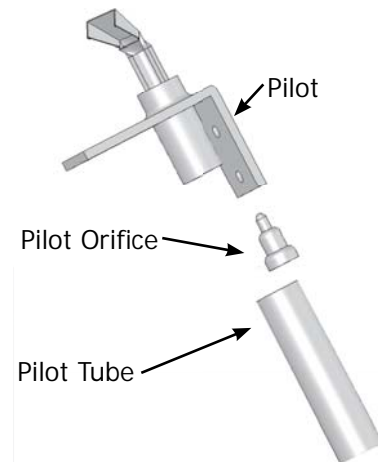
TABLE 1 - Contents	
DESCRIPTION	QTY
Pilot Orifice - Q345, Q3452, Q314	1
Orifice - Q381	1
Label, "Nat to LP" Conversion Plate	1
Liquid Sealing Compound	1
Spring Kit	1
Instructions	1

TABLE 2 - Main Burner Orifices	
Boiler Size	Orifice
50, 100, 150, 200,250,300	3.2
75	2.8
125	2.9
175	3.0


**Figure 1 - Burners Assembly**



**Figure 2 - Pilot Assembly**




## NATURAL GAS TO LP CONVERSION INSTRUCTIONS

13. Remove cover screw from gas valve pressure regulator. See Figure 4.
14. Remove adjustment screw by turning counterclockwise . See Figure 5.
15. Remove red LP gas spring.

### NOTICE

Parts for steps 16, 17, 25, and 26 are located in the honeywell natural gas conversion kit HW#394588 for VR8200, VR8204, VR8300 or VR8304 gas valve or conversion kit HW#391936 for a VR8440 gas valve.

16. Insert stainless steel gas spring. If using kit #391936, insert spring taper side down.
17. Install new adjustment screw. Assure screw top is flush with regulator top.
18. Turn pressure regulator adjustment screw clockwise  eight (8) complete turns. (This is starting point for manifold pressure.)
19. Install manometer to pressure tap on outlet side of gas valve. See Figure 4.
20. Turn electric and gas supply ON.

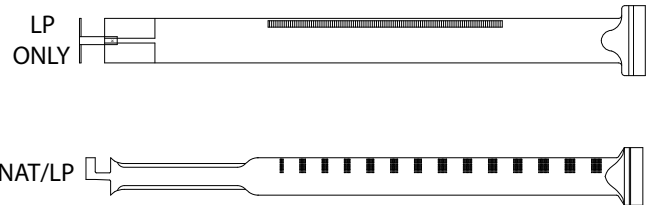
### ⚠ DANGER

Fire Hazard. Do not use matches, candles, open flames, or other methods providing ignition source. Failure to comply will result in death or serious injury.

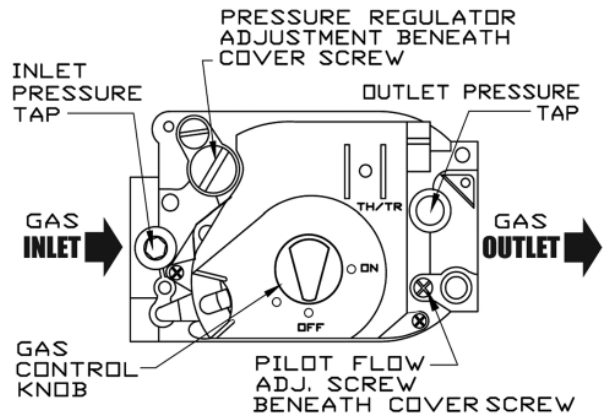
21. Check for gas leaks around all gas connections using commercially available soap solution specifically made for leak detection.
22. While boiler is running adjust manifold pressure to 3½" water column by turning pressure regulator adjustment screw. Check for CO<sub>2</sub> and CO levels to assure proper operation.
23. Turn electric and gas supply OFF.
24. Remove manometer. Replace pressure tap cover screw securely.
25. Install Silver Natural gas regulator adjustment cover screw with o-ring. See Figure 5. Honeywell kit #391936 does not require an o-ring. See Figure 4.
26. Mount conversion label on gas valve (found in spring kit).
27. Turn electric and gas supply ON.
28. Cycle boiler to ensure proper operation and lighting.
29. Replace front panel.
 

**NOTE:** Complete following steps to provide proper identification for customer service or technical support issues.
30. Copy serial number from old rating plate to new one.
31. Mount new rating plate adjacent to old one.

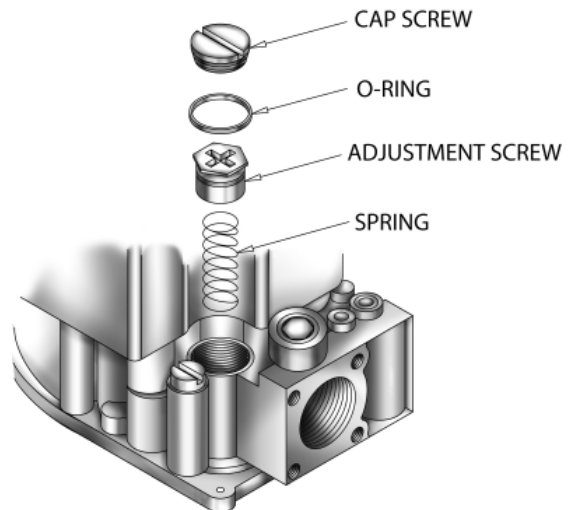
**Figure 3 - Burner Tubes**



**Figure 4 - Gas Valve**



**Figure 5 - Gas Valve Adjustment Screw Assembly**



**TABLE 3 - Pilot Orifices**

Honeywell Part #	Used On Boilers Manufactured Dates
390686-4	After July 2008 (Q345, Q3452), All standing Pilots
390686-37	Pre-July 2008 Q381