# DIRECT VENT CAST IRON GAS FIRED BOILERS FOR FORCED HOT WATER NATURAL GAS TO LP CONVERSION



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.

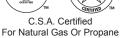
If the information in these instructions is not followed exactly, a fire, an explosion, or production of carbon monoxide may result, causing property damage, personal injury, or loss of life.

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 this kit.

**DO NOT DESTROY THESE INSTRUCTIONS!!** Please read carefully and keep in a safe place for future reference







**ECR** International P.O. Box 4729 Utica, NY 13504



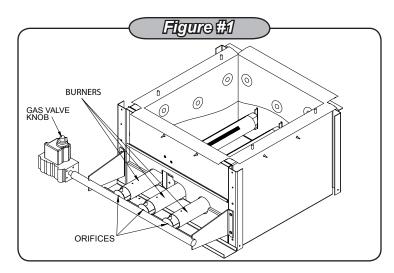
P/N 37515701, Rev. A [06/08]

## NATURAL GAS TO LP CONVERSION INSTRUCTIONS

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Pilot Orifice - 24 Volt	1
Liquid Sealing Compound	1
Spring Kit	1

MAIN BURNER ORIFICES		
BOILER SIZE	ORIFICE	
50, 100, 150, 200	47	
125, 175	49	
75	50	



pilot. (Figure #2)

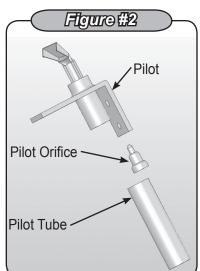
7. Remove the pilot orifice. (Figure #2)

#### **TOOLS REQUIRED**

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

## INSTALLATION

The gas supply shall be shut off prior to disconnecting the electrical power, before proceeding with the conversion.



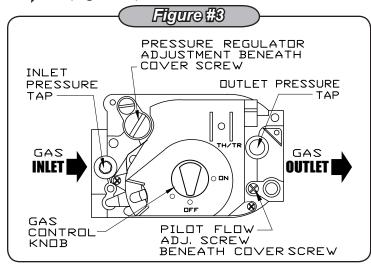
- 8. Install the LP gas pilot orifice. (Figure #2)
- **9.** Apply liquid sealing compound (provided) to threads of the pilot assembly fitting.

PILOT ORIFICES		
MFG.	PART NUMBER	
ECR	PB00208	
Honeywell	390686-36	

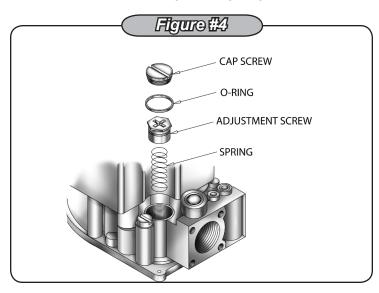
- 1. Remove front panel.
- 2. Remove burner access door.
- 3. Remove main gas burner tubes. (Figure #1)
- **4.** Remove main burner orifices. (Figure #1)
- **5.** Install LP gas main burner orifices found in kit. (See table above for orifice size and quantities.)
- 6. Using a 7/16" wrench, disconnect the pilot tube from the
- Reattach the pilot tube to the pilot and securely tighten. (Figure #2)
- **11.** Replace the main gas burner tubes.

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- 12. Remove the cover screw from gas valve pressure regulator. (Figure #3)
- **13.** Remove adjustment screw by turning counterclockwise **13.** (Figure #4)



14. Remove stainless steel gas spring. (Figure #4)



PARTS FOR STEPS 15, 16, 24, AND 25 ARE LOCATED IN THE HONEYWELL LP GAS CONVERSION KIT HW#393691 (ECR #1272030) FOR THE VR8200, VR8204, VR8300 AND VR8304 GAS VALVES.

- 15. Insert Red LP gas spring. (Figure #4)
- **16.** Install new adjustment screw. Assure the screw top is flush with the regulator top. (**Figure #4**)
- **17.** Turn the pressure regulator adjustment screw clockwise eleven (11) complete turns. (This is a starting point for the manifold pressure.)

- Install a manometer to the pressure tap on the outlet side of the gas valve. (Figure #3)
- **19.** Turn on electric and gas supply.

NOTE: Gas inlet pressure should be between a minimum of 11" w.c. and a maximum of 14" w.c

**20.** Check for gas leaks around all gas connections using commercially available soap solution specifically made for leak detection.



## Do not use an open flame.

- **21.** While the boiler is running adjust the manifold pressure to 11" water column by turning pressure regulator adjustment screw.
- 22. Turn off electric and gas supply.
- **23.** Remove the manometer and replace pressure tap cover screw securely.
- **24.** Install Black LP gas regulator adjustment cover screw with o-ring. (Figure #4)
- 25. Mount conversion label on gas valve.
- 26. Turn on electric and gas supply.
- 27. Cycle boiler to ensure proper operation and lighting.
- **28.** Replace front panel.

**NOTE:** The following steps must be completed in order to provide proper identification for customer service or technical support issues.

- **29.** Copy the serial number from the old rating plate to the new one.
- **30.** Mount the new rating plate over the old one.

## NATURAL GAS TO LP CONVERSION INSTRUCTIONS

For technical assistance with this product call toll free 1-800-325-5479

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