INSTALLATION INSTRUCTIONS HONEYWELL VR8305Q TWO-STAGE VALVE WITH DIRECT SPARK IGNITION RXGJ-FP14

BEFORE INSTALLING THIS KIT, CHECK THE ENCLOSED "CONVERSION KIT INDEX" (92-21519-47 OR -48) TO BE SURE YOU HAVE THE RIGHT KIT FOR THE FURNACE MODEL YOU ARE CONVERTING.

TO CONVERT FROM NATURAL TO LP GAS USE KIT NUMBER FP14

PARTS LIST		
DESCRIPTION	**PART NUMBER**	**RXGJ-FP14**
Kit - Model Index Sheet	92-21519-47 (or -48)	1
Installation Instructions	92-22999-80	1
Conversion Label	92-18153-06	3
L P Gas – Valve Conversion Kit Honeywell 396021	60-22513-02	1
Orifice - Burner (#54)	62-21551-54	14
Orifice - Burner (#53)	62-21551-53	14
Orifice - Burner (#55)	62-21551-55	14

⚠ Recognize this symbol as an indication of Important Safety Information!

⚠ WARNING

THIS CONVERSION KIT IS TO BE INSTALLED BY A QUALIFIED SERVICE PROFESSIONAL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND ALL CODES AND REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. FAILURE TO FOLLOW INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR PROPERTY DAMAGE. THE QUALIFIED PERSONNEL PERFORMING THIS WORK ASSUMES RESPONSIBILITY FOR THIS CONVERSION.

IMPORTANT: DAMAGE TO THE PRODUCT RESULTING FROM FAILURE TO FOLLOW INSTRUCTIONS OR USE OF UNAUTHORIZED PARTS MAY BE EXCLUDED FROM THE MANUFACTURER'S PRODUCT WARRANTY COVERAGE.

IMPORTANT NOTE FOR ALTITUDES ABOVE 2,000 FEET: There are two sizes of main burner orifices in this kit. These orifice sizes will cover all models installed at 0 - 2000 feet (0 - 610 meters) in the USA and Canada and all derated high altitude models installed in Canada at 2000 - 4500 feet (610 - 1373 meters). Refer to Chart III in the Conversion Kit Index (92-21519-47 or -48) included with this kit to select the current orifice size for the nameplate heating input, elevation, and country (USA or Canada) of the furnace to be converted. Orifices for elevations over 2000 feet (610 meters) in the USA must be obtained through the Parts Department if they are not included with this kit.

IN USA: All gas piping must comply with the latest NFPA 54 National Fuel Gas Code and all state and local codes. All electrical wiring must comply with the latest NFPA 70, National Electrical Code and all state and local codes.

IN CANADA: All gas piping must comply with the latest CAN 1-B149-1 & 2 installation codes for gas burning appliances and all provincial and local codes. All electrical wiring must comply with the Canadian Electrical Code, Part 1 - CSA Standard C22.1 and all provincial and local codes.

KIT INSTALLATION

⚠ WARNING

TURN OFF ELECTRICAL POWER AND MAIN GAS SUPPLY BEFORE BEGINNING MODIFICATION. FAILURE TO DO SO CAN RESULT IN ELECTRICAL SHOCK, EXPLOSION OR FIRE RESULTING IN PROPERTY DAMAGE, SEVERE PERSONAL INJURY OR DEATH.

1. Disconnect union ahead of combination gas valve and unscrew pipe nipple from gas valve.
2. Remove screws that secure the furnace access panel and swing panel out of the way.
3. Remove sheet metal cover in front of the gas valve.
4. Disconnect wires from gas valve.
5. Remove the 4 screws that attach the manifold assembly to the burner tray and pull manifold assembly away from burner tray.

   Notice: A pipe compound resistant to the action of liquefied petroleum gases must be used at all threaded pipe connections.
6. Each one of the burner orifices must be removed from the gas manifold and replaced with an orifice from the envelope or bag marked with the proper size to convert unit to

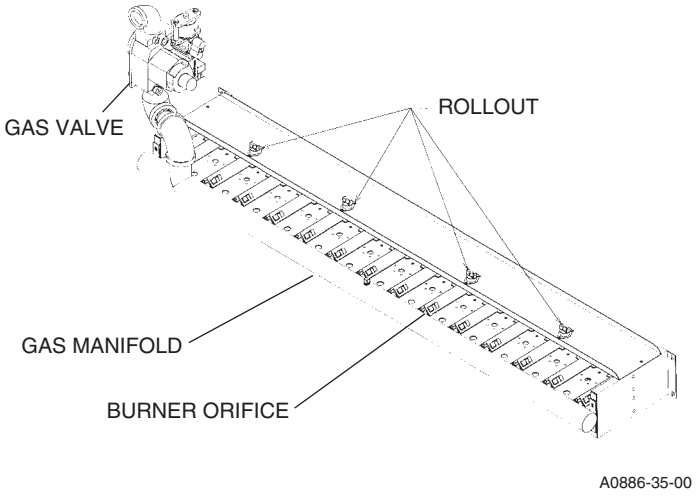


FIGURE 1. GAS CONTROL AND BURNER ORIFICE LOCATIONS

operate on Propane Gas. Refer to Chart III in the Conversion Kit Index (92-21519-47 or -48 included with this kit) to verify the correct burner orifice size required. **Note: Make sure the number of burners in the furnace being converted matches the number of burners listed in the 3rd column of Chart III since furnaces with the same input may have different number of burners (210,000 Btu/Hr and 252,000 Btu/Hr models).** Open the burner orifice envelope or bag marked with the orifice drill size required. **Note: See altitude note above.**

7. Follow instructions included with the gas valve conversion kit (Honeywell 396021) to convert gas valve from natural gas to LP gas.
8. Reattach gas manifold to burner tray.
9. Reconnect all wiring previously disconnected. Refer to unit wiring diagram on the front or back of unit control box cover.
10. Reattach removable panel in front of gas valve.
11. Reconnect gas supply nipple into gas valve using the appropriate pipe thread compound and reconnect gas line at union.
12. Turn on gas and electrical supply.
13. Check unit thoroughly for gas leaks with soap and water.

⚠ WARNING

DO NOT USE AN OPEN FLAME TO CHECK FOR LEAKS. USE OF AN OPEN FLAME CAN CAUSE EXPLOSION OR FIRE RESULTING IN PROPERTY DAMAGE, SEVERE PERSONAL INJURY OR DEATH.

14. Follow unit lighting instructions shown on a label attached to unit to put furnace into operation.
15. Adjust manifold pressures as specified in the next section.

CHECKING AND ADJUSTING GAS PRESSURE

1. The LP gas supply pressure must be set between 11 and 14″ W.C. by means of the tank or branch supply regulators.
2. The furnace manifold pressure should be 10″ W.C. for high fire and 2.6″ W.C. for low fire. These pressures can be checked by connecting a properly calibrated manometer or gauge to the manifold pressure tap on the outlet end of the valve. Check and adjust pressures as follows:

   With unit on High Fire (W2) remove the pressure regulator adjustment cap. Using screwdriver, turn the adjustment screw for HI pressure clockwise to increase, or counterclockwise to decrease the gas pressure to the burner.

   With unit on Low Fire (W1) remove the pressure regulator adjustment cap. Using screwdriver, turn the adjustment screw for HI pressure clockwise to increase, or counterclockwise to decrease the gas pressure to the burner.

COMPLETING CONVERSION

1. Select the appropriate conversion label (included with kit) that corresponds to the orifice size actually used in this conversion.
2. Place completed conversion label adjacent to the rating plate.

   ATTENTION: DO NOT REMOVE OR DEFACE ORIGINAL RATING PLATE.
3. Place label “ATTENTION: THIS VALVE HAS BEEN CONVERTED FOR USE WITH LP GAS” onto the gas valve.
4. Install the burner compartment access door.
5. Run furnace through complete cycle to assure proper operation.

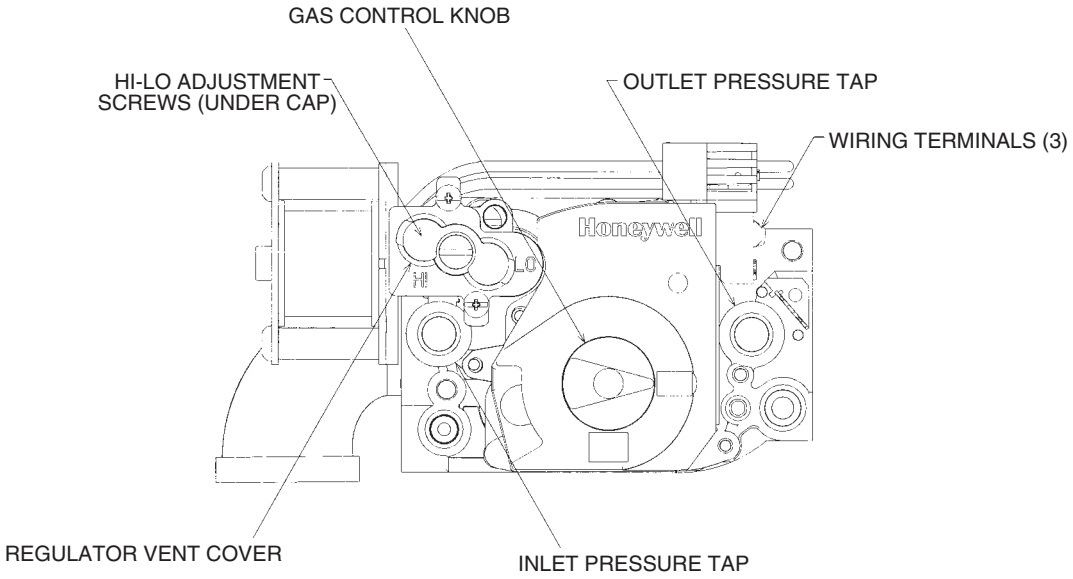


FIGURE 2. GAS VALVE