

RGEA16 GAS FURNACE INSTALLATION INSTRUCTIONS WHITE RODGERS TWO-STAGE VALVE WITH DIRECT SPARK IGNITION RXGJ-FP35

BEFORE INSTALLING THIS KIT, CHECK THE "CONVERSION KIT INDEX" (92-21519-47) 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 FP35 (US/CANADIAN)**

PARTS LIST		
DESCRIPTION	PART NUMBER	FP35
Installation Instructions	92-22999-106	1
Conversion Label	92-18153-05	1
WR LP Conversion Kit 92-1008	60-21193-06	1
Orifice - Burner (#55)	62-21551-55	5
Orifice - Burner (#56)	62-21551-56	5

Recognize this symbol as an indication of Important Safety Information!

▲ WARNING

THESE INSTRUCTIONS ARE INTENDED AS AN AID TO QUALIFIED, LICENSED SERVICE PERSONNEL FOR PROPER INSTALLATION, ADJUSTMENT AND OPERATION OF THIS UNIT. READ THESE INSTRUCTIONS THOROUGHLY BEFORE ATTEMPTING ANY MAINTENANCE OR OPERATION. FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN IMPROPER INSTALLATION, ADJUSTMENT, SERVICE OR MAINTENANCE RESULTING IN FIRE, ELECTRICAL SHOCK, CARBON MONOXIDE POISONING, EXPLOSION, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

FOR CANADIAN INSTALLATIONS, THE CONVERSION SHALL BE CARRIED OUT BY A MANUFACTURER'S AUTHORIZED REPRESENTATIVE, IN ACCORDANCE WITH REQUIREMENTS OF THE MANUFACTURER, PROVINCIAL OR TERRITORIAL AUTHORITIES HAVING JURISDICTION AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE CAN/CGA-B149.1 OR CAN/CGA-B149.2 INSTALLATION CODES.

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:
The main burner orifices in this kit are sized for nameplate input and intended for installations at elevations up to 2,000 feet only. For elevations above 2,000 feet, the burner orifices must be sized as shown in Chart 3 in Conversion Kit Index 92-21519-47.

$$\text{Input BTU/HR} = \frac{\text{Heating Value of Gas (BTU/Ft}^3\text{)} \times 3600 \times \text{correction factor}}{\text{Time in Seconds (for 1 cu.ft.) of Gas}}$$

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 CAN1-B149-1 & 2 installation codes for gas burning appliances and all provincial and local codes, Part1-CSA Standard C22.1 and all provincial and local codes.

WHEN CONVERTING NO_x MODELS

▲ WARNING

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

This furnace does not require the stainless steel inserts located in the burner tube in order to meet SCAQMD No_x emission levels when run on LP gas. Carefully remove these inserts and retainer plate before firing this furnace on LP gas.



KIT INSTALLATION

1. Disconnect union ahead of combination gas valve.
2. Disconnect leads from gas valve.
3. Remove the 4 screws holding the manifold assembly to the main burner assembly.
4. Remove each orifice from the manifold assembly and replace with orifices from the kit.
5. Install springs into gas valve per instructions included with the spring kit.
6. Reinstall the manifold assembly and gas piping. Connect valve leads and electrical power to furnace.
7. Turn on gas and electrical supply.
8. Check unit thoroughly for gas leaks using soap solution and not flame.
9. Follow lighting instructions to put furnace into operation.
10. Operate thermostat to check unit operation.

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 5.8" 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. Adjust pressures as follows:

- a. For high fire pressure remove high fire manifold pressure adjustment screw cover on top of valve and turn adjustment screw clockwise to increase pressure and counterclockwise to reduce pressure. Replace the adjustment cover screw securely.
- b. For low fire pressure, remove low fire manifold pressure adjustment screw cover on top of valve and adjust as noted above.

COMPLETING CONVERSION

1. Using a ball point indelible pen, record the following information on the conversion label.
 - a. Conversion kit number.
 - b. Date of conversion.
 - c. Installer's name, address and telephone number.
 - d. Burner orifice size.
2. Place completed conversion label adjacent to the rating plate.
3. Install the burner compartment access door.
4. Run furnace through complete low fire and high fire cycle to check operation.

