INSTALLATION INSTRUCTIONS
90 PLUS SINGLE-STAGE GAS VALVE WITH DIRECT SPARK IGNITION WHITE RODGERS RXGJ-FP36

BEFORE INSTALLING THIS KIT, CHECK THE "CONVERSION KIT INDEX" (92-21519-69) 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 FP36 (US/CANADIAN)

PARTS LIST		
DESCRIPTION	**PART NUMBER**	**FP36**
Installation Instructions	92-105575-01	1
Conversion Label	92-18153-05	1
WR LP Conversion Kit 92-0659	60-21193-01	1
Orifice - Burner (1.10 mm)	62-22175-90	8

⚠ 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.

⚠ 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.

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 1 at right.

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, Part 1 – CSA Standard C22.1 and all provincial and local codes.

CHART 1

For U.S. and Canada L.P. Gas Orifice Drill Size (4% per 1000 ft. De-Rate) 90 Plus Burner Input (per burner) 14,000 BTU @ Sea Level		
Altitude	**Input (per burner) 15000**	**Orifice Size**
0 to 2000 ft.	14000	1.10 mm
2001 to 3000	12320	#58
3001 to 4000	11760	#59
4001 to 5000	11200	#59
5001 to 6000	10640	#60
6001 to 7000	10080	#60
7001 to 8000	9520	#61
8001 to 9000	8960	#62
9001 to 10000	8400	#63

KIT INSTALLATION

1. **⚠ 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.

2. Disconnect union ahead of combination gas valve.
3. Disconnect leads from gas valve.
4. Remove the 4 screws holding the manifold assembly to the main burner assembly.
5. Install spring into gas valve per instructions included with the spring kit.
6. Remove each existing orifice from the manifold assembly using a ratchet with a 7/16 socket. Replace with orifices from the kit. Screw the orifices in hand tight and secure in place with a quarter turn with the ratchet.
7. Reinstall the manifold assembly on the burner assembly with the 4 screws removed in step 4.
8. Reconnect the leads to the gas valve, union, and electrical power to furnace.
9. Turn on the gas supply and check unit thoroughly for gas leaks using soap solution.
10. Follow lighting instructions to put furnace into operation.
11. Operate thermostat to check unit operation.

⚠ WARNING

DO NOT USE AN OPEN FLAME WHEN CHECKING FOR GAS LEAKS.

CHECKING AND ADJUSTING GAS PRESSURE

1. The LP gas supply pressure must be set between 11 and 13” W.C. by means of the tank or branch supply regulators.
2. The furnace manifold pressure should be set at 10” W.C. The pressure 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 pressure as follows:
   a. For full manifold pressure remove adjustment screw cover on outlet end of valve and turn adjustment screw clockwise to increase pressure and counterclockwise to reduce pressure. Replace the adjustment cover screw securely.

   NOTE: Use 7/64” allen wrench or flat blade screw driver for making pressure adjustments. See Figure 1.

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. Do not remove or deface original rating plate.
3. Install the burner compartment access door.
4. Run furnace through complete cycle to check operation.

FIGURE 1
GAS VALVE WHITE-RODGERS

