LP CONVERSION & INSTALLATION INSTRUCTIONS WHITE RODGERS 36J27 STEPPER MODULATING VALVE DIRECT SPARK IGNITION

FOR USE WITH ALL RGFE, RGGE, RGJF & RGFG SERIES MODULATING FURNACES WITH HA, HB AND HU FUEL CODES

BEFORE INSTALLING THIS KIT, CHECK THE "CONVERSION KIT INDEX" (92-21519-59) 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 FP27

PARTS LIST		
DESCRIPTION	**PART NUMBER**	**FP07**
Kit - Model Index Sheet	92-21519-59	1
Installation Instructions	92-22999-100	1
Conversion Label	92-18153-05	1
Stepper Valve LP Conversion Kit	60-21193-05 (WR #F92-1021)	1
Orifice - Burner (1.15 mm) (For Altitudes up to 7,999 ft.)	62-22175-91	8
Wire Tie (8") (For Altitudes above 7,999 ft.)	64-17606-01	1

⚠ 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.

RECOMMENDED TOOLS:

Slotted Screwdriver
1/4″ Nut driver
Needle-nosed pliers
7/16″ Socket or wrench
Pipe dope
Pipe wrench(es)

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.

Many 34″ Classic 90+ Modulating Gas Furnaces installed at high elevations require the installation of a high altitude kit for proper operation. The high altitude kit contains two high altitude pressure switches which replace the production high and low pressure switches on the furnace.

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.

Be sure to check the fuel code of your furnace. The fuel code is the first two characters of the serial number. If the fuel code is HA or HB, this is the correct kit for converting your furnace to LP. All other fuel codes will use a different kit. See the LP conversion kit index that came with your furnace to determine the correct LP conversion kit.

A NOTE ABOUT HIGH ALTITUDE INSTALLATIONS

High altitude installations above elevations of 2000 ft. may require an orifice change. Different orifices must be used and ordered from ProStock. Consult the LP Kit Conversion Kit Index (92-21519-59) for instructions.

WHEN CONVERTING NOx 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 NOx emission levels when run on LP gas. Carefully remove these inserts and retainer before firing this furnace on LP gas.

Discard the NOx inserts and rod.

Replace the burner tray assembly.

KIT INSTALLATION (SEE ILLUSTRATION)

1. Disconnect the gas line at the union ahead of the combination gas valve.

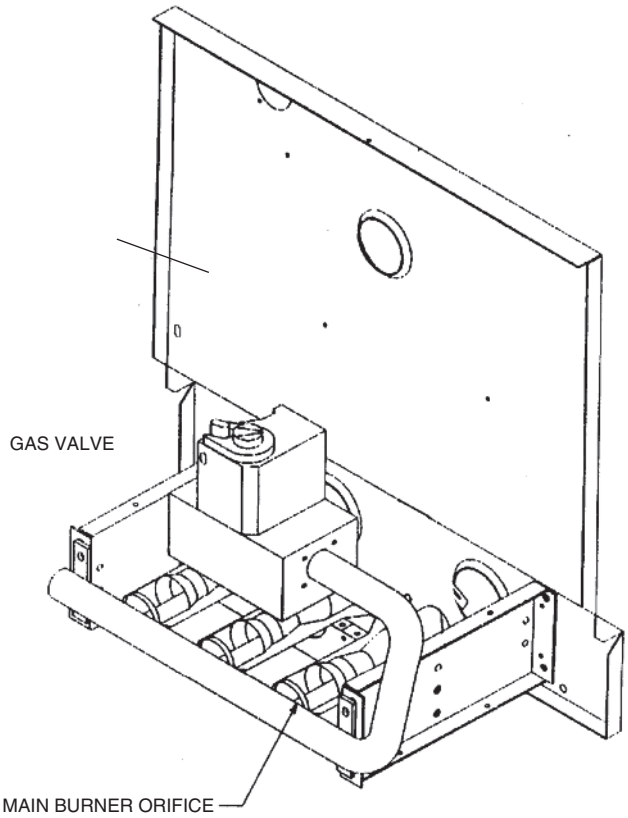


FIGURE 1. GAS VALVE LOCATION

2. Cut the wire tie that holds the spark igniter wire to the burner manifold.
3. Remove gas valve and manifold from assembly.

   A. **To Change Burner Orifice**
   Remove each burner orifice from the manifold. See **Figure 1.** Refer to Chart 5 in the Conversion Kit Index and verify the correct burner orifice size required. Open the burner orifice envelope marked with the orifice drill size required and install in the burner when the unit is converted to LP gas.

NOTE: Use a pipe compound resistant to the action of the liquefied petroleum gases at all threaded pipe connections.

DO NOT REMOVE OR DEFACE ORIGINAL RATING PLATE.

4. Follow detailed instructions on page 3 to convert the gas valve for LP. A jumper must be installed.
5. Re-attach the manifold assembly to the unit and connect the gas line to the gas valve.
6. Place the conversion label adjacent to the A.G.A. rating plate.
7. Turn on gas supply and electrical supply.
8. Check unit thoroughly for gas leaks – with soap and water – not with a flame.
9. Follow lighting instructions to put furnace into operation.
10. Operate thermostat to check unit operation for ignition and extinction characteristics.
11. **Manifold gas pressure must be adjusted to 10″ W.C. after valve conversion to LP gas with furnace in operation and proper gas supply pressure (see rating plate). The gas supply line pressure should be between 11″ and 14″ W.C. at the appliance.**
12. Use the wire-tie supplied in this kit to attach the orange spark igniter wire to the manifold to keep the wire away from the gas valve. The igniter wire must not be routed any closer than 1” from the gas valve. Otherwise, noise from the spark igniter wire could reset the valve during ignition trial resulting in loss of heat.

COMPLETING CONVERSION

1. Using a ballpoint indelible pen, record the following information on label 92-18153-05 provided in this kit.
   a. Date of conversion.
   b. Installer’s name, address and telephone number.
   c. Burner orifice size.
2. Place completed conversion label next to the rating plate.
3. Install the burner compartment access door.
4. Follow detailed instructions on page 3 to convert the gas valve for LP. A jumper must be installed.

White-Rodgers

F92-1021

Modulated Natural to L.P. Gas
Conversion Kit

INSTALLATION INSTRUCTIONS

Installer: Save these instructions for future use!

FAILURE TO READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR OPERATING THIS CONTROL COULD CAUSE PERSONAL INJURY AND/OR PROPERTY DAMAGE.

⚠ 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, explosion, or production of carbon monoxide may result, causing property damage, personal injury, or loss of life. The qualified service agency performing the work assumes the responsibility for the proper conversion of this appliance with this kit.**

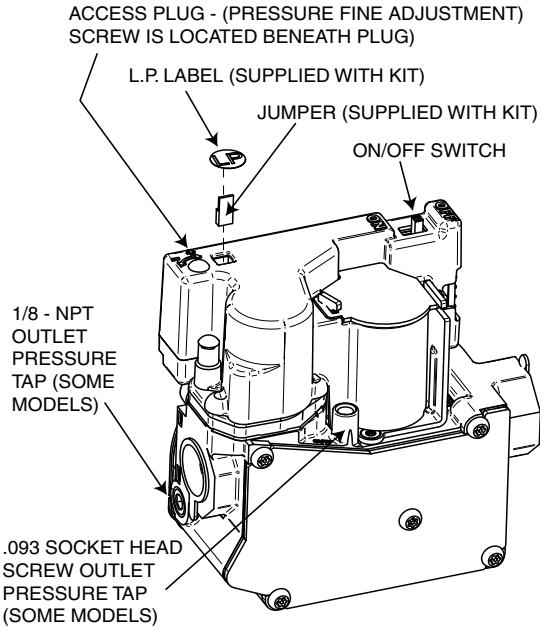


Fig. 1 – 36J27 Modulating Gas Valve

APPLICATION

This modulated Natural Gas to modulated L.P. Gas Conversion kit allows the 36J27 Series gas valves to be used on L.P. applications. **This conversion kit is for use with White-Rodgers 36J27 Series gas valves only.**

TO CONVERT FROM NATURAL TO L.P. GAS

1. Move the switch located on the 36J27 valve to the "OFF" position.
2. Remove the "NAT. GAS" label from the top of the 36J27 gas valve.
3. Using a pair of tweezers or needle nose pliers, place the jumper (supplied with this kit) on the receptacle located beneath the label that was removed in step 1. Use care to make sure that both prongs of receptacle engage the jumper.
4. Place the "LP" label (supplied with this kit) on the gas valve over the opening to the jumper.
5. Attach the "WARNING" label (supplied with this kit) to the gas valve where it can readily be seen.
6. Move the switch located on gas valve back to the "ON" position.
7. Refer to the appliance manufacturer's instructions for other steps necessary to complete the appliance conversion to LP. (Example: Replace the natural gas burner orifices with the manufacturer's specified size orifices for use with LP, etc.)

NOTE: The gas valve outlet pressure was pre-adjusted for LP at the factory, but fine adjustment is possible by removing the access plug and turning the fine-adjustment screw with a 1/8" flat blade screwdriver. Adjustment should only be done while monitoring outlet pressure with a suitable manometer properly attached to the outlet pressure tap. The pressure tap must be leak checked after resealing. (refer to figs. 1 & 3).

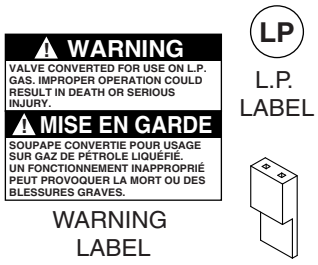


Fig. 2 – Contents of kit

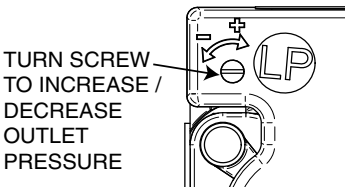


Fig. 3 – Pressure Fine Adjustment