

INSTALLATION INSTRUCTIONS

Conversion Kits ALPKT806

For Converting PRPGE14, PRPDF14

& LRP14DF Series

Single Stage Gas Heat/Electric Cooling Package Unit from Natural Gas to Propane

For Use at the Same Altitude Only

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 this work assumes responsibility for the proper conversion of this appliance with 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 the kit.

CAUTION

Gas valve conversion kit **MUST** be installed **BEFORE** the unit is fired using LP/propane gas. Unit damage **WILL OCCUR** if the unit is fired using LP/propane gas with the original natural gas orifices.

WARNING

As with any mechanical equipment, personal injury can result from contact with sharp metal edges. Be careful when handling equipment.

CONVERSION INSTRUCTIONS

If any damage to the contents is found at the time of delivery, proper notation should be made on the carrier's freight bill. Damage claims should be filled with the carrier at once. Claims of shortage should be filled with the manufacturer within 5 days.

This kit contains parts and instructions for converting package units from natural gas to LPG/Propane (U.S.A. and Canada).

IMPORTANT: Confirm that the correct kit is being used for the unit being converted.

Where "LP" or "LPG" appear in the enclosed kit literature or on the enclosed kit labels, the LP and/or LPG is an acceptable abbreviation for "propane."



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Save these instructions for future reference

Although equipment is suitable for operation with propane gas, certain precautions must be observed because of the distinct characteristics

ALPKT806-1	
Quantity	Part Description
1	Gas Valve Conversion Kit
7	0.048 Size Orifices
1	Gas Valve Conversion Label
1	Gas Conversion Installation Label
1	Conversion Plate
1	Installation Instructions

Figure 1

of propane gas. The following problems may be encountered:

- Burning back at the orifices with a loud roar
- Loud popping upon extinction of burner
- Flame rollout at time of ignition

These problems can be caused by:

- Low gas pressure
- Misalignment of burners
- Incorrect burning rate

Installation

Note: When converting a low Nox unit to propane, the **Nox inserts must be removed.**

1. Set the thermostat to the lowest setting. Shut off gas supply and disconnect electrical power to unit.
2. Remove the control compartment access panel. Slide the gas valve switch to the OFF position.
3. Disconnect gas supply from gas valve. Mark the wires for identification and disconnect wiring at gas valve.
4. Remove screws securing the manifold to the front of the burner box. Remove manifold and gas valve as an assembly.
5. Using a 7/16" wrench or socket, remove the burner orifices. Install and tighten the orifices provided in kit.
6. Using Figure 2 and the valve manufacturer's instructions included

in the valve conversion kit, install the gas valve conversion parts.

7. Using the screws removed in Step 4, re-install the manifold and gas valve assembly, being careful to properly insert each orifice into each burner. Reconnect the wires to the gas valve. Refer to the wiring diagram label on the unit for correct wiring connections.
8. Connect and turn on the gas supply. Check for gas leaks at all piping joints upstream of the gas valve. Use a leak detecting solution or other preferred means (see **WARNING** box on page 3). Some soaps used for leak detection are corrosive to certain metals. Carefully rinse piping thoroughly after leak detection has been completed. Correct any leaks, then turn off the gas supply.

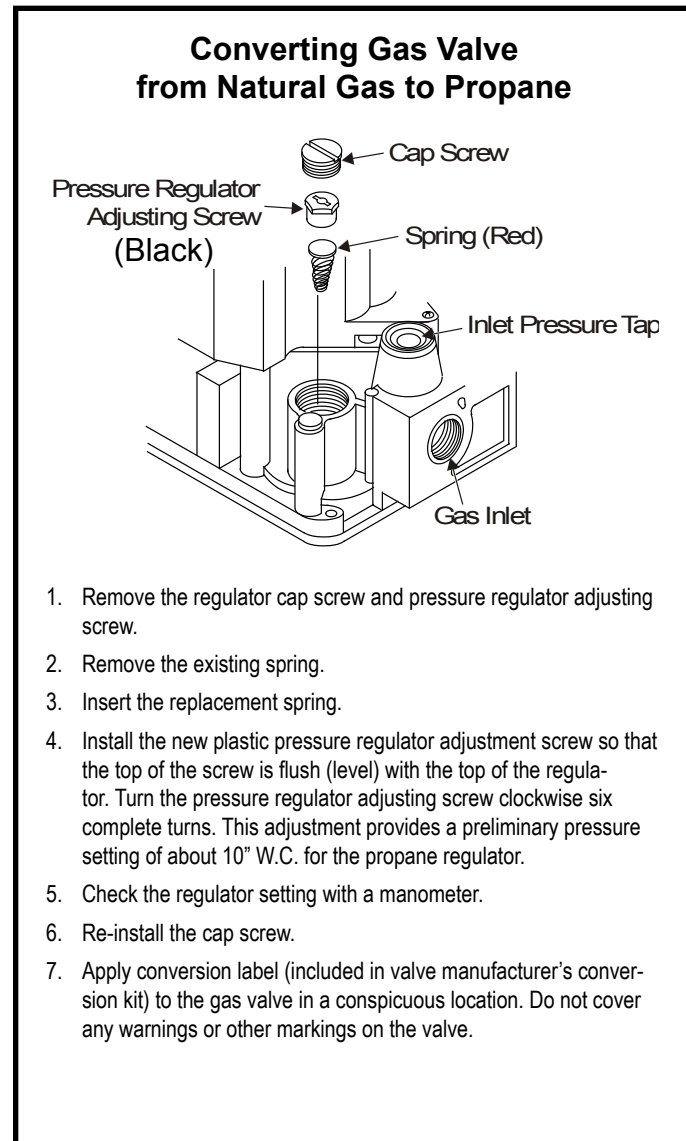


Figure 2

⚠ WARNING

FIRE OR EXPLOSION HAZARD

Failure to follow the safety warnings exactly could result in serious injury, death, or property damage.

Never test for gas leaks with an open flame. Use a commercially available soap solution made specifically for the detection of leaks to check all connections. A fire or explosion may result causing property damage, personal injury, or loss of life.

Checking Gas Inlet Pressure

1. Remove the plug from the inlet pressure tap in the gas valve, connect a manometer, then turn on the gas supply. Turn on the electrical supply, slide the gas valve switch to the ON position, and initiate a call for heat. The gas inlet pressure should be between 11" W.C and 13" W.C. with the burners operating.
2. Terminate the call for heat and turn off the gas supply. Disconnect the manometer, and replace the plug in the inlet pressure tap in the gas valve. Remove the plug from the outlet pressure tap in the gas valve, connect a manometer to this tap, and turn on the gas supply.

Checking and Adjusting Manifold Pressure

The gas valve (see Figure 3) has an adjusting screw under the regulator adjustment cap. Turn the adjusting screw clockwise to increase manifold pressure and input, and counterclockwise to decrease manifold pressure and input.

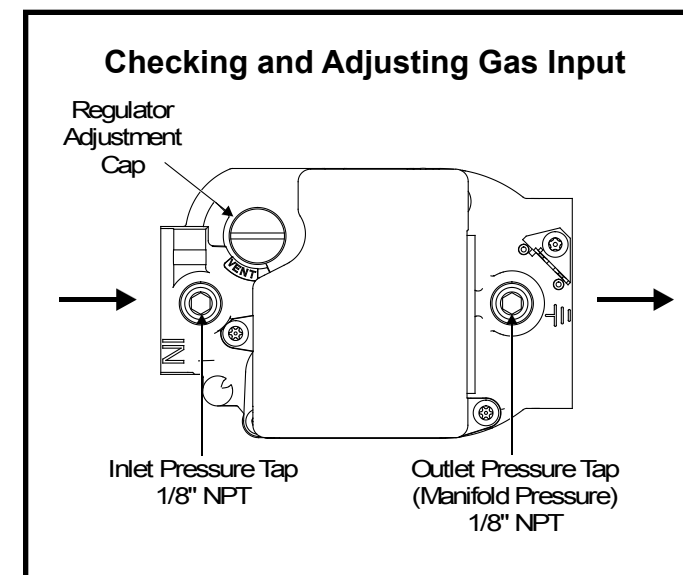


Figure 3

Since propane supply systems usually do not have a gas meter, checking and adjusting the manifold pressure as specified below verifies the input rate. Manifold pressures and input ratings are for elevations up to 4500'. Above the altitude, input ratings should be adjusted in accordance with the latest edition of the National Fuel Gas Code.

1. Initiate a call for heat. Allow burners to operate for 5 minutes.
2. Manifold pressure should be 10.0" +/- 0.3" W.C. Adjust adjusting screw as necessary to achieve this pressure.
3. Terminate the call for heat and turn off the gas supply. Disconnect the manometer, and replace the plug in the outlet pressure tap in the gas valve.

Operational Check

1. Initiate a call for heat. With burners operating check for gas leaks at the inlet and outlet pressure tap plugs in the gas valve, and at all threaded joints downstream of the gas valve, including the burner orifices. Read and follow previous instructions about proper use of leak detecting solutions and warnings about fire and explosion hazards.
2. Cycle the burners on and off to make sure the ignition system operates correctly. Ignition and extinction should be smooth. The inner cone of the burner flames should be blue, and flame appearance should be as shown in Figure 4.

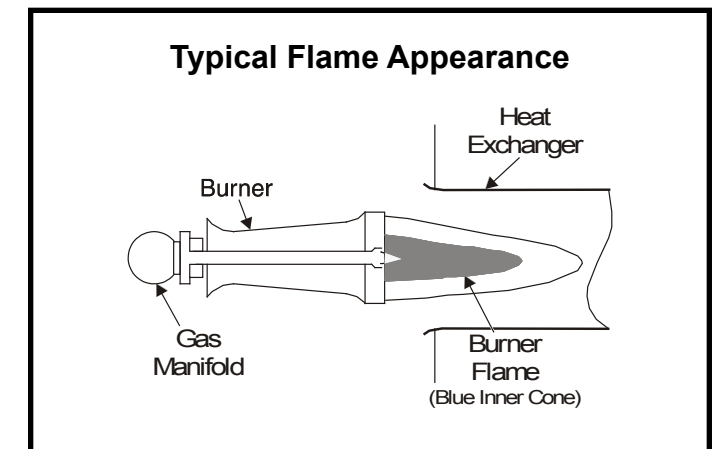


Figure 4

3. Apply the gas valve conversion label to the manifold as close as possible to the gas valve. Mark the appropriate information on the gas conversion installation label and apply it to the left side panel inside the vestibule. Attach the conversion plate adjacent to the unit rating plate.
4. Re-install the control access panel.