

LPKT 180300A

NATURAL GAS TO LP GAS

CONVERSION KIT(S)

INSTALLATION INSTRUCTIONS

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ATTENTION INSTALLING PERSONNEL

As a professional installer you have an obligation to know the product better than the customer. This includes all safety precautions and related items.

Prior to actual installation, thoroughly familiarize yourself with this Instruction Manual. Pay special attention to all safety warnings. Often during installation or repair it is possible to place yourself in a position which is more hazardous than when the unit is in operation.

Remember, it is **your** responsibility to install the product safely and to know it well enough to be able to instruct a customer in its safe use.

Safety is a matter of common sense...a matter of thinking before acting. Most dealers have a list of specific good safety practices...follow them.

The precautions listed in this Installation Manual are intended as supplemental to existing practices. However, if there is a direct conflict between existing practices and the content of this manual, the precautions listed here take precedence.

 **RECOGNIZE THIS SYMBOL
AS A SAFETY PRECAUTION**

Description

This Natural Gas to L.P. Gas conversion kit allows the White-Rodgers 36H54 (0151L00000) gas valve or VR8305Q (0151M00015) gas valve to be used on CPG light commercial L.P. gas applications.

Required Tools for Kit Installation	
2	Pipe Wrenches, properly sized to accommodate the gas piping and connectors
1	9/16" box wrench or socket wrench
1	5/16" Nut driver
1	1/4" regular (flatblade) screwdriver
1	3/16" Allen wrench
1	3/32" Allen wrench
2	Manometers to read inlet & outlet pressure of the gas valve (Minimum range: 0" - 15" W.C.)
	Pipe joint compound or pipe thread tape
	Gas leak detection solution, like a soap and water solution. Always wipe the solution from the joints when testing is complete.

Prior to performing this conversion refer to the National Fuel Gas Code (ANSI Z223.1) or in Canada, CAN/CGA-B149.2-M91 to ensure that the installation is in compliance with those and all local codes.

Kit Contents

Using the following parts list, ensure that all parts included in this list are present and in an undamaged condition.

1	B14933-63	Conversion Label
1	IOD-7010	Installation Instructions
1	0163F00000P	White-Rodgers Spring Kit
1	0163M00076	Honeywell LP Spring Kit

PLEASE READ AND FOLLOW THESE INSTRUCTIONS CAREFULLY.

 **WARNING**

TO AVOID THE POSSIBILITY OF EXPLOSION OR FIRE, NEVER USE A MATCH OR OPEN FLAME TO TEST FOR LEAKS.

 **WARNING**

DAIKIN WILL NOT BE RESPONSIBLE FOR ANY INJURY OR PROPERTY DAMAGE ARISING FROM IMPROPER SERVICE OR SERVICE PROCEDURES. THIS L.P. (LIQUID PETROLEUM) CONVERSION KIT MUST BE INSTALLED BY A QUALIFIED SERVICE PERSON OR AGENCY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND ALL APPLICABLE CODES AND REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. FAILURE TO FOLLOW THESE INSTRUCTIONS EXPLICITLY MAY CAUSE A FIRE, EXPLOSION OR THE PRODUCTION OF CARBON MONOXIDE, WHICH CAN CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH. IF YOU INSTALL OR PERFORM SERVICE ON THIS UNIT, YOU ASSUME RESPONSIBILITY FOR ANY PERSONAL INJURY OR PROPERTY DAMAGE WHICH MAY RESULT. MANY JURISDICTIONS REQUIRE A LICENSE TO INSTALL OR SERVICE HEATING AND AIR CONDITIONING EQUIPMENT.



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IMPORTANT INFORMATION

**DANGER**
PELIGRO



CARBON MONOXIDE POISONING HAZARD

Special Warning for Installation of Furnaces or Air Handling Units in Enclosed Areas such as Garages, Utility Rooms or Parking Areas

Carbon monoxide producing devices (such as an automobile, space heater, gas water heater, etc.) should not be operated in enclosed areas such as unventilated garages, utility rooms or parking areas because of the danger of carbon monoxide (CO) poisoning resulting from the exhaust emissions. If a furnace or air handler is installed in an enclosed area such as a garage, utility room or parking area and a carbon monoxide producing device is operated therein, there must be adequate, direct outside ventilation.

This ventilation is necessary to avoid the danger of CO poisoning which can occur if a carbon monoxide producing device continues to operate in the enclosed area. Carbon monoxide emissions can be (re)circulated throughout the structure if the furnace or air handler is operating in any mode.

CO can cause serious illness including permanent brain damage or death.

B10259-216

**WARNING**



HIGH VOLTAGE
DISCONNECT ALL ELECTRICAL POWER AND SHUT OFF GAS SUPPLY BEFORE SERVICING OR INSTALLING. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

**WARNING**

ALTHOUGH THE GAS PACKAGE UNIT CANNOT BE INSTALLED IN AN EXCAVATED OR CONFINED SPACE, THE GAS PIPING MAY BE ROUTED THROUGH SUCH AREAS AND WE STRONGLY RECOMMEND THAT YOU CONTACT YOUR PROPANE SUPPLIER TO INSTALL A GAS DETECTING WARNING DEVICE THAT WOULD ALERT YOU TO A GAS LEAK.

- SINCE PROPANE GAS IS HEAVIER THAN AIR, ANY LEAKING GAS CAN SETTLE IN ANY LOW AREAS OR CONFINED SPACES.
- PROPANE GAS ODORANT MAY FADE, MAKING THE GAS UNDETECTABLE EXCEPT WITH A WARNING DEVICE.

**WARNING**

TO AVOID PERSONAL INJURY, PROPERTY DAMAGE OR DEATH, DUE TO LEAKING GAS, CONTACT YOUR PROPANE SUPPLIER ABOUT INSTALLING A GAS DETECTING WARNING DEVICE. IRON OXIDE (RUST) CAN REDUCE THE LEVEL OF ODORANT IN PROPANE GAS. A GAS DETECTING DEVICE IS THE ONLY RELIABLE METHOD TO DETECT A PROPANE GAS LEAK.

**CAUTION**

TO AVOID THE RISK OF PROPERTY DAMAGE, PERSONAL INJURY OR FIRE, SHUT OFF GAS SUPPLY FIRST, THEN DISCONNECT THE ELECTRICAL SUPPLY BEFORE PROCEEDING WITH CONVERSION.

WHITE-RODGERS 36H54 VALVE

1. Turn off electrical power and gas supply.
2. Remove the package unit control access panel.
3. Remove the unit control access panel.
4. Separate the gas supply union and remove associated downstream piping.
5. Always use a backup wrench when removing or replacing piping to avoid any undue strains or rotation of controls.
6. Remove the wires from the gas valve.
7. Remove the 4 sheet metal screws that fasten the manifold/gas valve assembly to the burner box.
8. Using the 9/16" wrench, remove all existing natural gas orifices and replace with the appropriate L.P. gas orifices contained in this kit. Tighten the orifices to prevent gas leaks, but do not overtighten. Retain the natural gas orifices for future reconversion.
9. Reinstall the manifold/gas valve assembly into the appliance. Rewire the gas valve.
10. Remove both the inlet and outlet plugs on the gas valve, using the 3/16" allen wrench. Install the fittings, which accompany the manometers into the 1/8" tapped holes of the gas valve. Connect the manometers to the barbed fittings.
11. Using a flat blade screwdriver, remove the high and low stage regulator cover screws.
12. Remove plastic regulator adjustment screws located beneath the high and low stage cover screw.
13. Remove the natural gas regulator springs from the high and low stage regulator sleeve.
14. Insert the kit provided L.P. regulator springs into the high and low stage regulator sleeve.
15. Replace the regulator adjustment screws.
16. Apply a liberal amount of pipe joint compound or pipe thread tape to the threads and reassemble the piping previously removed. Note: the pipe joint compound must be resistant to L.P. gas.

WARNING

TO AVOID THE POSSIBILITY OF EXPLOSION OR FIRE, NEVER USE A MATCH OR OPEN FLAME TO TEST FOR LEAKS.

17. Turn on the gas supply and check for leaks.

CAUTION

TO AVOID THE RISK OF PROPERTY DAMAGE, PERSONAL INJURY OR FIRE, SHUT OFF GAS SUPPLY FIRST, THEN DISCONNECT THE ELECTRICAL SUPPLY BEFORE PROCEEDING WITH CONVERSION.

18. Turn on the electrical supply.
19. Adjust the room thermostat to allow for constant operation. For all 2 stage heating models, place jumper wire between W1 and W2 to ensure unit is on high fire.
20. After the unit has been in operation for 15 minutes, adjust the gas supply pressure (not manifold pressure) to obtain a range between 11" and 13" W.C.
21. **Note:** Any other gas-fired equipment should be ON before any adjustments are made.
22. If gas inlet pressure falls outside the range of 11" to 13" W.C., then make necessary pressure regulator adjustments, check piping size, etc., and/or consult with local utility.
23. Check manifold pressure. For propane gas, the manifold pressure must be between 9.7" and 10.3" W.C.
24. Turn high stage adjustment screw out (counterclockwise) to decrease pressure, turn in (clockwise) to increase pressure. Only small variations in gas flow should be made by means of the pressure regulator adjustment. In no case should the final manifold pressure vary more than plus or minus 0.3" water column from the specified nominal pressure. Any major changes in flow should be made by changing the size of the burner orifices. The measured input rate to the unit must not exceed the rating specified on the unit rating plate.
25. **For all 2 stage heating models:** Remove jumper wire between W1 and W2. Also remove thermostat wire to W2 to ensure unit is on low fire. Repeat steps 23-24 using the low stage adjustment screw to adjust pressure for low stage operation. Manifold pressure must be between 6.7" and 7.3" W.C.
26. Reset all other appliances so they function normally.
27. Turn off the gas and electrical supply to the appliance, remove the pressure taps at the gas valve, reinstall the plugs using pipe joint compound or tape.
28. Replace the thermostat wire removed from W2..
29. Replace the regulator cover screws on the regulator sleeves.
30. Attach the kit provided WARNING label to the gas valve where it can be readily seen. Also attach the small round L.P. label to the top of the high stage regulator cover screw.

WARNING

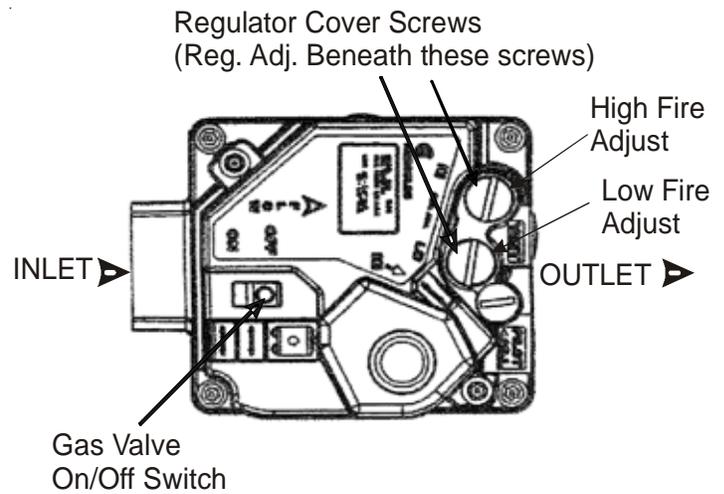
TO AVOID THE POSSIBILITY OF EXPLOSION OR FIRE, NEVER USE A MATCH OR OPEN FLAME TO TEST FOR LEAKS.

31. Turn on the gas supply and test for leaks using a soap and water solution. Repair any gas leaks. Turn on the electrical supply.

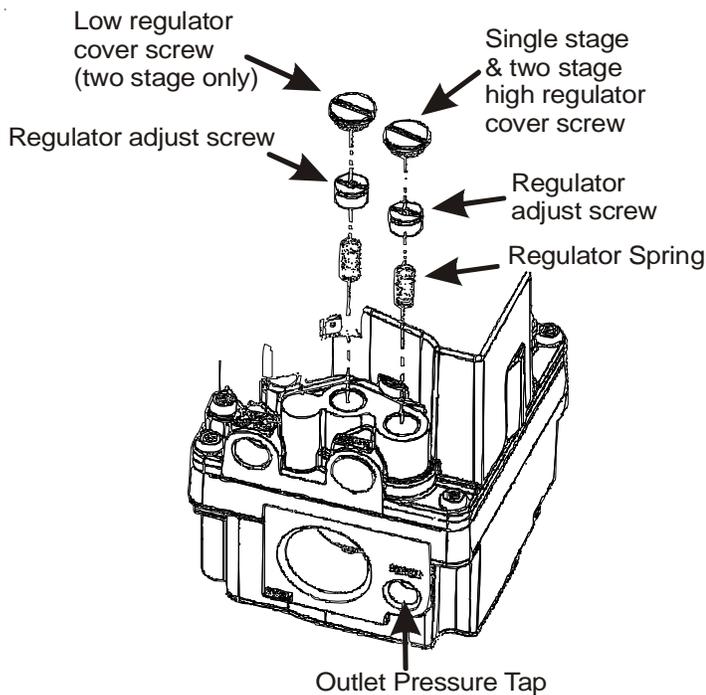
CAUTION

TO AVOID THE RISK OF PROPERTY DAMAGE, PERSONAL INJURY OR FIRE, SHUT OFF GAS SUPPLY FIRST, THEN DISCONNECT THE ELECTRICAL SUPPLY BEFORE PROCEEDING WITH CONVERSION.

32. Observe at least 3 ignition cycles to assure quick and smooth ignition and burner operation.
33. Reinstall the access panels.



36H54 MODEL



36H54 MODEL

7. Using the 9/16" wrench, remove all existing natural gas orifices and replace with the appropriate LP gas orifices contained in this kit. Tighten the orifices to prevent gas leaks, but do not overtighten. Retain the natural gas orifices for future reversion.
8. Reinstall the manifold/gas valve assembly into the appliance. Rewire the gas valve.
9. Remove both the inlet and outlet plugs on the gas valve, using the 3/16" allen wrench. Install the fittings, which accompany the manometers into the 1/8" tapped holes of the gas valve. Connect the manometers to the barbed fittings.
10. Remove the regulator cover assembly as shown.
11. Remove the natural gas (white) stem/spring assembly as shown.
12. Install the LP gas (black) stem/spring assembly into the valve. Replace the pressure regulator cover assembly and tighten the screws.
13. Apply a liberal amount of pipe joint compound or pipe thread tape to the threads and reassemble the piping previously removed. Note: the pipe joint compound must be resistant to LP gas.

WARNING

TO AVOID PERSONAL INJURY, PROPERTY DAMAGE OR DEATH, DUE TO LEAKING GAS, CONTACT YOUR PROPANE SUPPLIER ABOUT INSTALLING A GAS DETECTING WARNING DEVICE. IRON OXIDE (RUST) CAN REDUCE THE LEVEL OF ODORANT IN PROPANE GAS. A GAS DETECTING DEVICE IS THE ONLY RELIABLE METHOD TO DETECT A PROPANE GAS LEAK.

CAUTION

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HONEYWELL VR8305Q VALVE

1. Turn off electrical power and gas supply.
2. Remove the package unit control access panel.
3. Separate the gas supply union and remove associated downstream piping.
4. Always use a backup wrench when removing or replacing piping to avoid any undue strains or rotation of controls.
5. Remove the wires from the gas valve.
6. Remove the 4 sheet metal screws that fasten the manifold/gas valve assembly to the burner box.

WARNING

TO AVOID THE POSSIBILITY OF EXPLOSION OR FIRE, NEVER USE A MATCH OR OPEN FLAME TO TEST FOR LEAKS.

CAUTION

TO AVOID THE RISK OF PROPERTY DAMAGE, PERSONAL INJURY OR FIRE, SHUT OFF GAS SUPPLY FIRST, THEN DISCONNECT THE ELECTRICAL SUPPLY BEFORE PROCEEDING WITH CONVERSION.

14. Turn on the gas supply and check for leaks.
15. Turn on the electrical supply.
16. Adjust the room thermostat to allow for constant operation. Place a jumper wire between W1 and W2 to ensure unit is on high fire.
17. After the unit has been in operation for 15 minutes, adjust the gas supply pressure (not manifold pressure) to obtain a range between 11" and 13" W.C.
18. **NOTE:** Any other gas-fired equipment should be ON before any adjustments are made.
19. If gas inlet pressure falls outside the range of 11" to 13" W.C., then make necessary pressure regulator adjustments, check piping size, etc., and/or consult with local utility.
20. Check manifold pressure. For propane gas, the high fire manifold pressure must be between 9.7" and 10.3" W.C.
21. Remove the plastic cover from the pressure regulator cover assembly

22. Using a 3/32" allen wrench, turn high fire adjustment screw out (counterclockwise) to decrease pressure and in (clockwise) to increase pressure. Only small variations in gas flow should be made by means of the pressure regulator adjustment. In no case should the final manifold pressure vary more than plus or minus 0.3" water column from the specified nominal pressure. Any major changes in flow should be made by changing the size of the burner orifices. The measured input rate to the furnace must not exceed the rating specified on the unit rating plate.

23. **For all 2 stage heating models:** Remove jumper wire between W1 and W2. Also remove thermostat wire to W2 to ensure unit is on low fire. On low fire, the manifold pressure must be between 6.7" and 7.3" W.C.

24. Using a 3/32" allen wrench, turn low fire adjustment screw out (counterclockwise) to decrease pressure and in (clockwise) to increase pressure. Only small variations in gas flow should be made by means of the pressure regulator adjustment. In no case should the final manifold pressure vary more than plus or minus 0.3" water column from the specified nominal pressure. Any major changes in flow should be made by changing the size of the burner orifices. The measured input rate to the furnace must not exceed the rating specified on the unit rating plate.

25. Turn off the gas and electrical supply to the appliance, remove the pressure taps at the gas valve, reinstall the plugs; seal using pipe joint compound or tape.

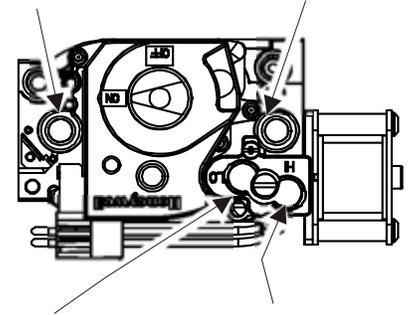
26. Replace the thermostat wire removed from W2.

27. Replace the pressure regulator cover.

28. Attach the supplied ATTENTION label to the gas valve where it can be readily seen. Also attach the small round LP label to the top of the regulator cover screw.

OUTLET PRESSURE
TAP-1/8 NPT
3/16 ALLEN

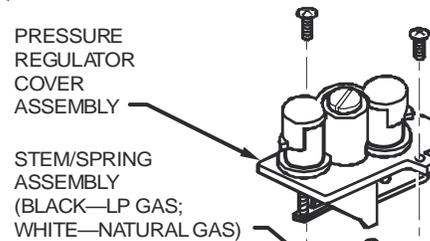
INLET PRESSURE
TAP-1/8 NPT
3/16 ALLEN



LOW STAGE ADJUSTMENT
UNDER VENT CAP; TURN
CLOCKWISE TO INCREASE
PRESSURE

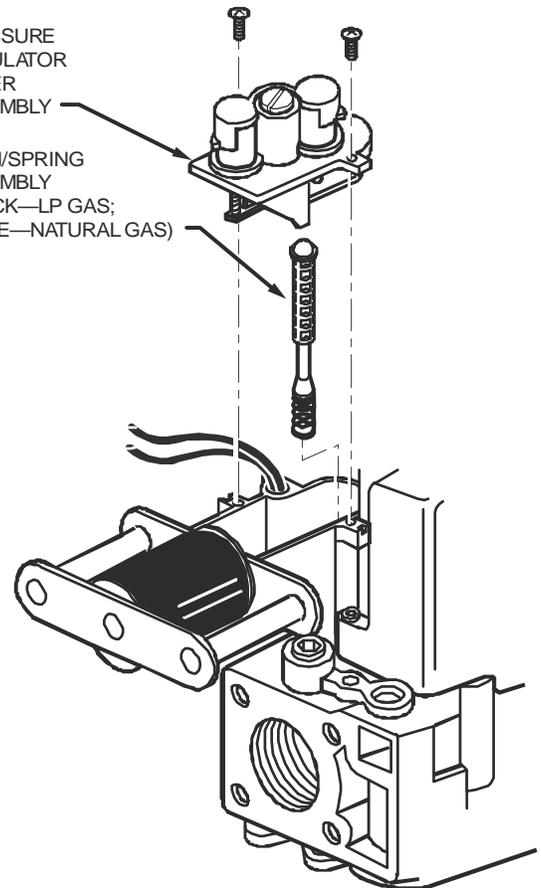
HIGH STAGE ADJUSTMENT
UNDER VENT CAP; TURN
CLOCKWISE TO INCREASE
PRESSURE

VR8305Q MODEL



PRESSURE
REGULATOR
COVER
ASSEMBLY

STEM/SPRING
ASSEMBLY
(BLACK—LP GAS;
WHITE—NATURAL GAS)



VR8305Q MODEL

29. Turn on the gas supply and test for leaks using a soap and water solution. Ensure to check for leaks around the pressure regulator cover assembly on the valve. Repair any gas leaks. Turn on the electrical supply.

30. Observe at least 3 ignition cycles to assure quick and smooth ignition and burner operation.

31. Reinstall the access panels.

32. Reset all other appliances so they function normally.

WARNING

TO AVOID THE POSSIBILITY OF EXPLOSION OR FIRE, NEVER USE A MATCH OR OPEN FLAME TO TEST FOR LEAKS.

CAUTION

TO AVOID THE RISK OF PROPERTY DAMAGE, PERSONAL INJURY OR FIRE, SHUT OFF GAS SUPPLY FIRST, THEN DISCONNECT THE ELECTRICAL SUPPLY BEFORE PROCEEDING WITH CONVERSION.

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NOTE: SPECIFICATIONS AND PERFORMANCE DATA LISTED HEREIN ARE SUBJECT TO CHANGE WITHOUT NOTICE

Quality Makes the Difference!

All of our systems are designed and manufactured with the same high quality standards regardless of size or efficiency. We have designed these units to significantly reduce the most frequent causes of product failure. They are simple to service and forgiving to operate. We use quality materials and components. Finally, every unit is run tested before it leaves the factory. That's why we know. . . **There's No Better Quality.**

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