LPKT 180300DFG NATURAL GAS TO LP GAS CONVERSION KIT(S) INSTALLATION INSTRUCTIONS

19001 Kermier Rd. Waller, Tx 77484
www.daikinac.com
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CONTENTS

WARNING

ONLY PERSONNEL THAT HAVE BEEN TRAINED TO INSTALL, ADJUST, SERVICE OR REPAIR(HEREINAFTER, "SERVICE") THE EQUIPMENT SPECIFIED IN THIS MANUAL SHOULD SERVICE THE EQUIPMENT. THE MANUFACTURER WILL NOT BE RESPONSIBLE FOR ANY INJURY OR PROPERTY DAMAGE ARISING FROM IMPROPER SERVICE OR SERVICE PROCEDURES. IF YOU SERVICE THIS UNIT, YOU ASSUME RESPONSIBILITY FOR ANY INJURY OR PROPERTY DAMAGE WHICH MAY RESULT. IN ADDITION, IN JURISDICTIONS THAT REQUIRE ONE OR MORE LICENSES TO SERVICE THE EQUIPMENT SPECIFIED IN THIS MANUAL, ONLY LICENSED PERSONNEL SHOULD SERVICE THE EQUIPMENT. IMPROPER INSTALLATION, ADJUSTMENT, SERVICING OR REPAIR OF THE EQUIPMENT SPECIFIED IN THIS MANUAL, OR ATTEMPTING TO INSTALL, ADJUST, SERVICE OR REPAIR THE EQUIPMENT SPECIFIED IN THIS MANUAL WITHOUT PROPER TRAINING MAY RESULT IN PRODUCT DAMAGE, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

WARNING

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

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 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.

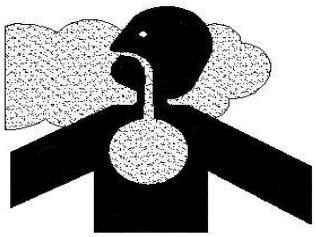
1	B14933-63	Conversion Label
1	IO-697A	Installation Instructions
1	0163F00000P	White-Rodgers Spring Kit
1	0163M00076	Honeywell LP Spring Kit
1 Pack (8 per pack)	0163L00307	Burner Orifice - #44 LPKT180300DFG

PLEASE READ AND FOLLOW THESE INSTRUCTIONS CAREFULLY!

RECOGNIZE THIS SYMBOL AS A SAFETY PRECAUTION

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 CONVERSION INSTRUCTIONS

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.

NOTE: ANY OTHER GAS-FIRED EQUIPMENT SHOULD BE ON BEFORE ANY ADJUSTMENTS ARE MADE.

21. 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.
22. Check manifold pressure. For propane gas, the manifold pressure must be between 9.7" and 10.3" W.C.
23. 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.
24. **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.
25. Reset all other appliances so they function normally.
26. 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.
27. Replace the thermostat wire removed from W2..
28. Replace the regulator cover screws on the regulator sleeves.
29. 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.

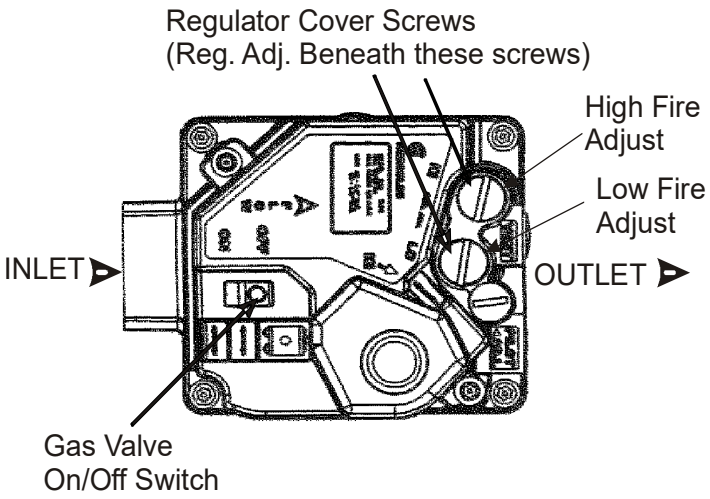
WARNING

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

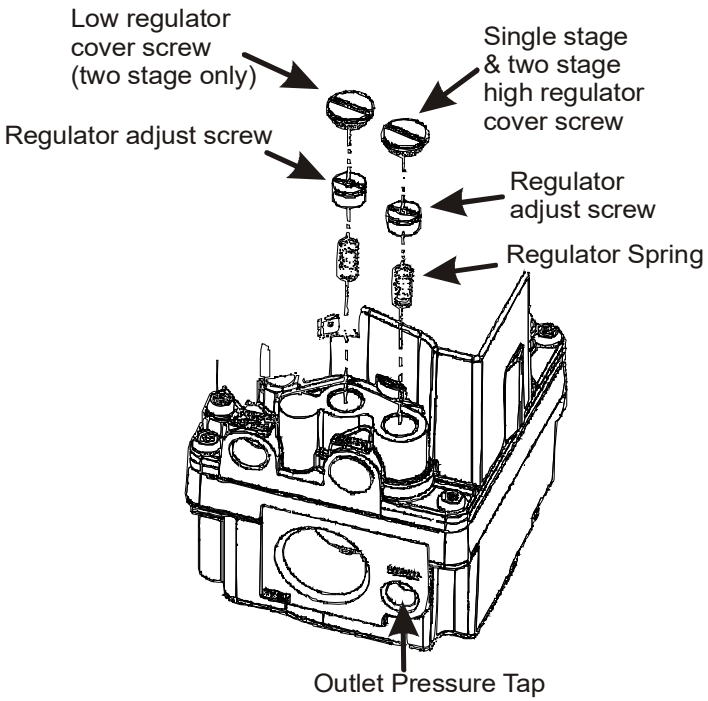
CAUTION

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

30. Turn on the gas supply and test for leaks using a soap and water solution. Repair any gas leaks. Turn on the electrical supply.
31. Observe at least 3 ignition cycles to assure quick and smooth ignition and burner operation.
32. Reinstall the access panels.



36H54 MODEL



36H54 MODEL

WARNING

TO AVOID THE RISK OF 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.

HONEYWELL VR8305Q VALVE CONVERSION INSTRUCTIONS

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

14. 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.

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.

NOTE: ANY OTHER GAS-FIRED EQUIPMENT SHOULD BE ON BEFORE ANY ADJUSTMENTS ARE MADE.

18. 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.
19. Check manifold pressure. For propane gas, the high fire manifold pressure must be between 9.7” and 10.3” W.C.
20. Remove the plastic cover from the pressure regulator cover assembly

21. 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.
22. **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.
23. 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.
24. 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.
25. Replace the thermostat wire removed from W2.
26. Replace the pressure regulator cover.
27. 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.

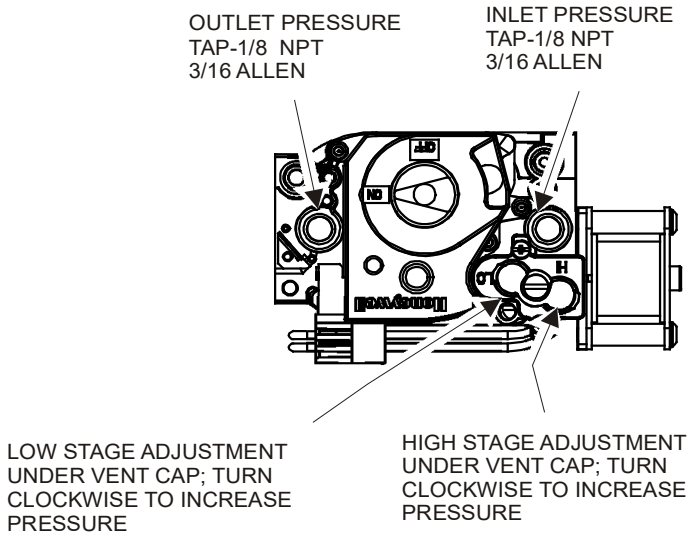
WARNING

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

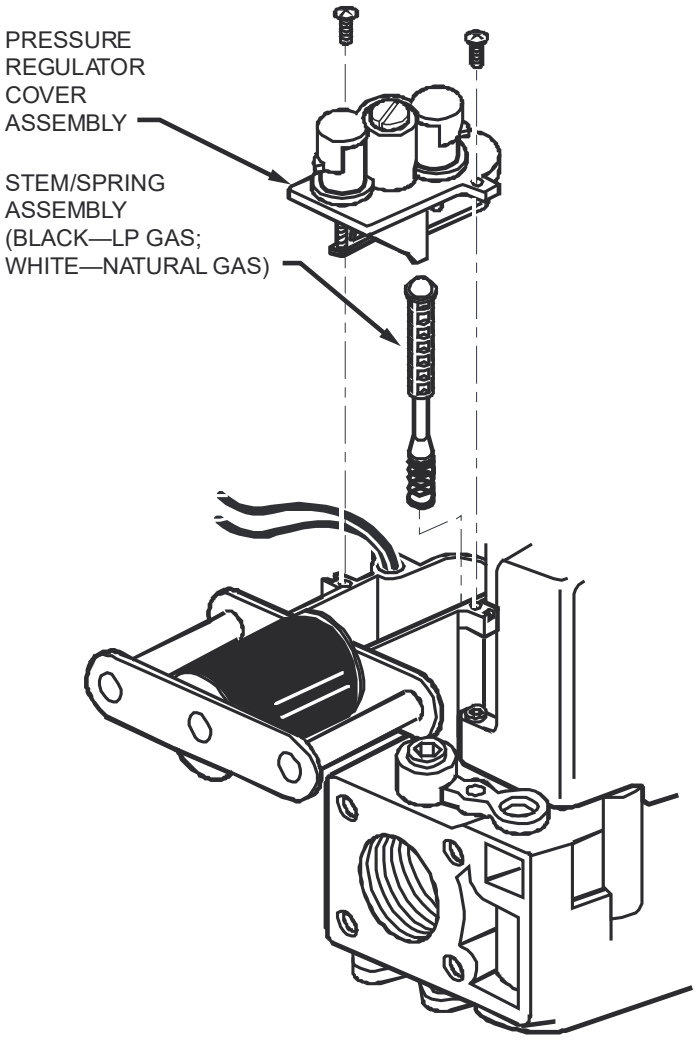
CAUTION

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.

28. 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.
29. Observe at least 3 ignition cycles to assure quick and smooth ignition and burner operation.
30. Reinstall the access panels.
31. Reset all other appliances so they function normally.



VR8305Q MODEL



VR8305Q MODEL

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CUSTOMER FEEDBACK
Daikin is very interested in all product comments.
Please fill out the feedback form on the following link:
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You can also scan the QR code on the right to be directed to the feedback page.

Our continuing commitment to quality products may mean a change in specifications without notice.

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