

LPM-35 CONVERSION KIT 34" MODULATING FURNACE NATURAL GAS TO L.P. GAS CONVERSION KIT FOR FURNACES EQUIPPED WITH WHITE-RODGERS 36J27 SERIES GAS VALVES

DO NOT DISCARD - RETAIN THESE INSTRUCTIONS FOR FUTURE USE

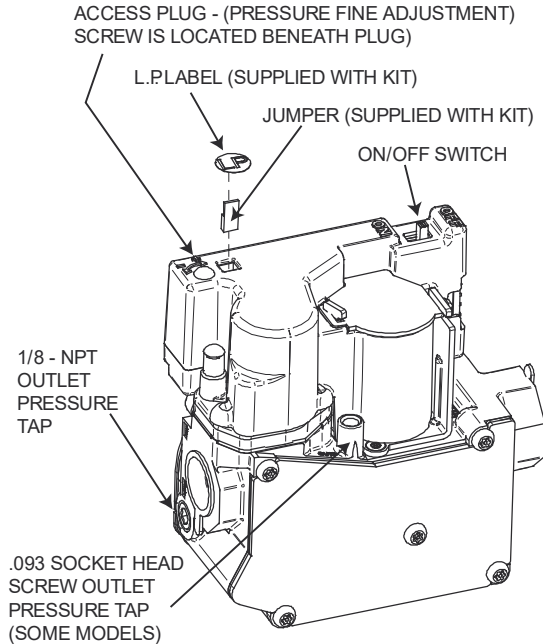


FIGURE 1 - 36J27 MODULATING GAS VALVE

APPLICATION

This natural gas to 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.** Tools required for the conversion are listed below.

Required Tools for Conversion Kit	
Q'ty	Description
1	Needle-Nose Pliers
1	7/16" Box Wrench
1	1/4" Nut Driver
1	1/8" Flat Blade Screwdriver
1	Manometer to read inlet and outlet pressure of the gas valve (minimum range: 0"- 20" W.C.)
	Gas leak detection solution like a soap and water solution. Always wipe the solution from the joints when testing is completed.



WARNING

ONLY PERSONNEL THAT HAVE BEEN TRAINED TO INSTALL, ADJUST, SERVICE, MAINTENANCE OR REPAIR (HEREINAFTER, "SERVICE") THE EQUIPMENT SPECIFIED IN THIS MANUAL SHOULD SERVICE THE EQUIPMENT.

THIS EQUIPMENT IS NOT INTENDED FOR USE BY PERSONS (INCLUDING CHILDREN) WITH REDUCED PHYSICAL, SENSORY OR MENTAL CAPACITIES, OR LACK OF EXPERIENCE AND KNOWLEDGE, UNLESS THEY HAVE BEEN GIVEN SUPERVISION OR INSTRUCTION CONCERNING USE OF THE APPLIANCE BY A PERSON RESPONSIBLE FOR THEIR SAFETY. CHILDREN SHOULD BE SUPERVISED TO ENSURE THAT THEY DO NOT PLAY WITH THE EQUIPMENT.

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WARNING

DO NOT BYPASS SAFETY DEVICES.

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

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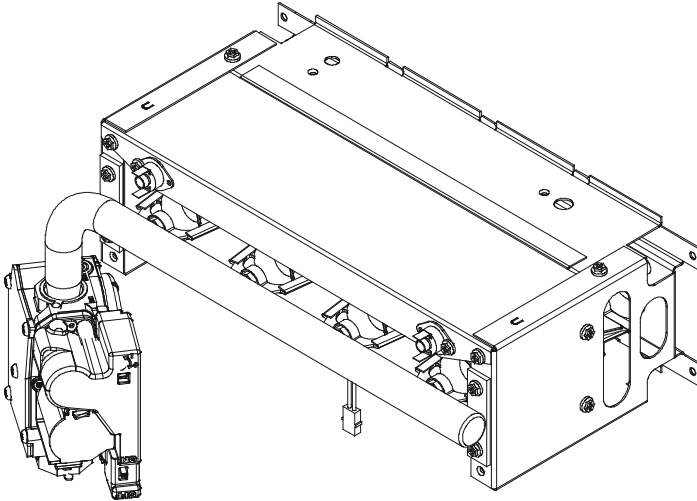
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TO CONVERT FROM NATURAL TO L.P. GAS

1. Shut OFF gas supply at manual shutoff and turn OFF power to the furnace.
2. Remove access door.
3. Disconnect wiring from the gas valve.
4. Remove the gas manifold assembly by removing the four screws connecting it to the burner bracket. See Figure 2 below.



Gas Manifold Removal
FIGURE 2

5. Remove natural gas orifices from gas manifold using 7/16" box end wrench.
6. Visually inspect L.P. gas orifices (B40899125) for damage and drill size (marked on face with #125) before installation. Install orifices and tighten with a box-end wrench, take care to avoid crossthreading or over tightening.
7. Remove the "NAT. GAS" label from the top of the 36J27 gas valve.
8. Use needle nose pliers to place the jumper (see enclosed F92-1021 kit) on the receptacle. Make sure both pins engage the jumper
9. Place the "L.P." label (see the enclosed F92-1021 kit) on the gas valve, covering the jumper installed in step 8.
10. Attach the "WARNING" label (see the enclosed F92-1021 kit) to the gas valve where it can readily be seen.
11. Attach the gas manifold assembly to the burner bracket using the four screws removed in step 4.

L.P. GAS PRESSURE CHECK

L.P. Gas Supply Pressure must be verified with all L.P. appliances in operating mode. See Table 1 for the required L.P. gas pressure.

1. Turn OFF electrical power & gas supply to the unit.
2. Use a 3/16" Allen wrench to remove the 1/8" NPT inlet pressure tap from the gas valve.
3. Connect a calibrated water manometer or appropriate gas pressure gauge at the gas valve inlet pressure tap.

4. Turn ON the power and gas, put the unit into heating cycle on high fire (100%). The pressure tap must be leak checked after resealing.

Propane Gas Supply Pressure Range	
Minimum: 11" w.c.	Maximum: 13" w.c.

TABLE 1

MANIFOLD PRESSURE CHECK

See Table 2 for the required L.P. gas manifold pressure. The gas valve outlet pressure is automatically adjusted for LP by installation of the jumper in step 8. Only minor changes to manifold pressure should be made by adjusting the gas valve pressure regulator. Minor adjustments may be made 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.

Propane Gas Manifold Pressure Range	
Low Stage - 50%	High Stage - 100%
2.3" - 2.7" w.c.	9.7" - 10.3" w.c.

TABLE 2

1. Turn OFF electrical power & gas supply to the unit.
2. Use a 3/16" Allen wrench to remove the 1/8" outlet pressure tap from the gas valve.
3. Connect a calibrated water manometer or appropriate gas pressure gauge at the gas valve outlet pressure tap.
4. Turn ON the power and gas, put the unit into heating cycle on high fire (100%).
5. Remove the White cap located on top the gas valve next to the + & - symbols.
6. Use a 1/8" flat blade screwdriver to turn the fine adjustment screw; clockwise (+) to increase manifold pressure, counterclockwise (-) to decrease manifold pressure.
7. After adjustment is made, turn OFF gas to the unit at the manual shutoff valve and disconnect manometer. Reinstall outlet pressure tap plug. The pressure tap must be leak checked after resealing.

GAS MONITORING PRESSURE SWITCH INSTALLATION

IMPORTANT INFORMATION

This kit provides control over the unit gas valve by routing the gas valve wiring through the supplied pressure switch. For new unit installations, the kit hardware may be fitted to the gas valve while the gas manifold is removed for LP gas orifice conversion. For existing installations, the gas valve line must be disconnected from the gas valve to allow fitting of kit hardware. Before proceeding, shut off gas supply at manual shutoff and turn off power to unit.

Contact a local propane gas supplier about installing a gas detecting warning device.

NOTE: TO ENSURE PROPER OPERATION, INSTALL, OPERATE AND MAINTAIN THE UNIT IN ACCORDANCE WITH THESE INSTALLATION INSTRUCTIONS, ALL LOCAL BUILDING CODES AND ORDINANCES. IN THEIR ABSENCE, FOLLOW THE LATEST EDITION OF THE NATIONAL FUEL GAS CODE (NFPA 54/ANSI Z223.1), AND/OR CAN/CSA B149.1 INSTALLATION CODES.

NOTE: ALL THREADED CONNECTIONS MUST BE SEALED WITH TEFLON TAPE OR PIPE DOPE. PIPE SEALANT MUST BE APPROVED FOR USE WITH PROPANE GAS.

GAS SUPPLY ON THE RIGHT SIDE

1. Install a field supplied $\frac{1}{2}$ " pipe nipple with an elbow in the gas valve. The nipple must be of appropriate length so that the elbow lines up with the gas line grommets on the sides of the cabinet.
2. Install a field supplied $\frac{1}{2}$ " pipe nipple 8"-12" in length in the elbow (length will vary by cabinet width) Using the correct length nipple will provide adequate clearance from other furnace components to install the gas monitoring pressure switch.
3. Install a tee on the long nipple. The tee must face "up" so that the diaphragm of the gas pressure monitoring switch is in the horizontal position.
4. Thread the gas monitoring pressure switch from the kit along with the adapter bushing into the tee.
5. Connect gas supply line to tee.
6. Perform installation check out procedure (piping leak check, line pressure measurement, manifold pressure adjustment as outlined in the unit installation instructions).

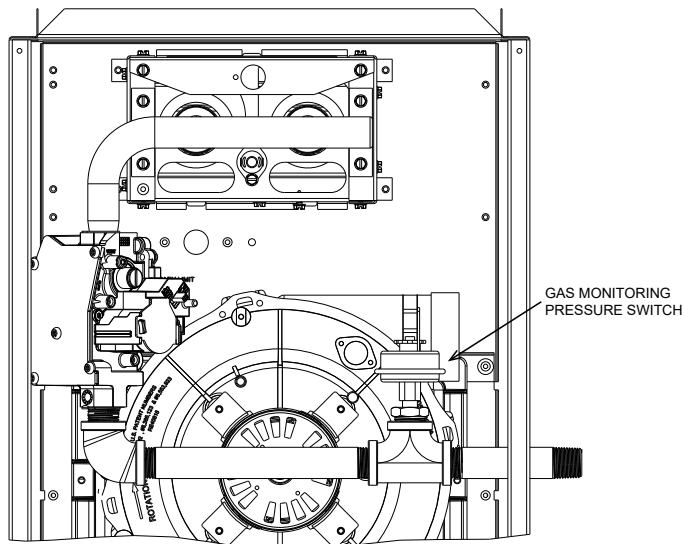


FIGURE 3

GAS SUPPLY ON THE LEFT SIDE

1. Install a field supplied $\frac{1}{2}$ " pipe nipple and a tee in the gas valve. The nipple must be of appropriate length so that the tee lines up with the gas line grommets on the sides of the cabinet.

2. Install a field supplied $\frac{1}{2}$ " pipe nipple 8"-12" in length in the tee (length will vary by cabinet width) Using the correct length nipple will provide adequate clearance from other furnace components to install the gas monitoring pressure switch.
3. Install an elbow on the long nipple. The elbow must face "up" so that the diaphragm of the gas pressure monitoring switch is in the horizontal position.
4. Thread the gas monitoring pressure switch from the kit along with the adaptor bushing into the elbow.
5. Connect gas supply line to tee.
6. Perform installation check out procedure (piping leak check, line pressure measurement, manifold pressure adjustment as outlined in the unit installation instructions).

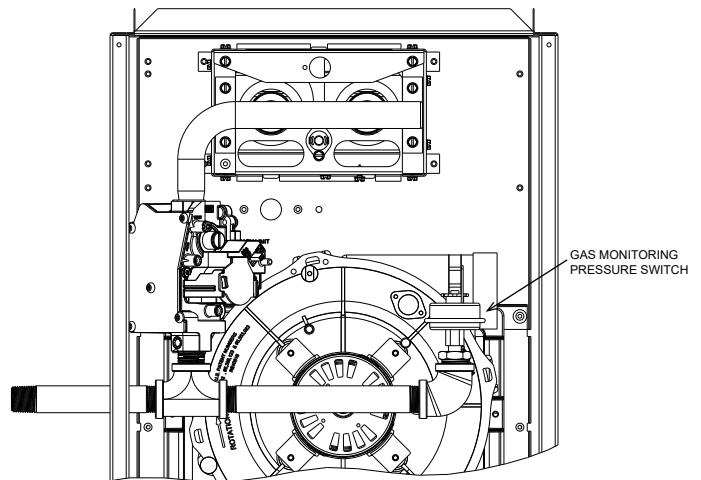


FIGURE 4

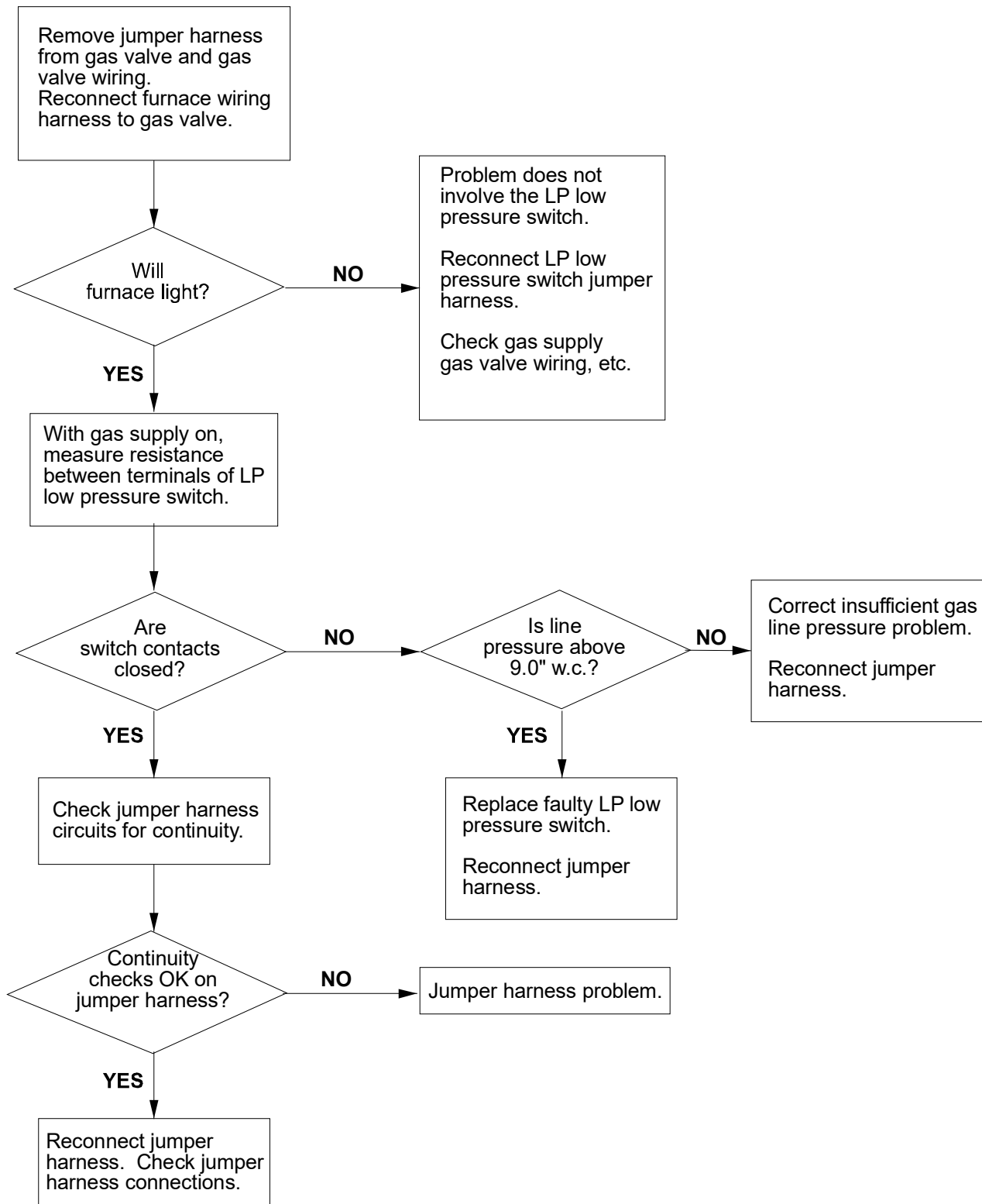
ELECTRICAL CONNECTIONS

1. Locate the factory installed collector box pressure switch. This switch is connected to two gray wires; one coming from the main harness, one going to the gas valve.
2. Locate the gray wire that connects the gas valve to the collector box pressure switch and remove it from the terminal of the collector box pressure switch.
3. Connect the gray wire removed in step 2 to the N.O. terminal of the gas monitoring pressure switch.
4. Connect the gray wire from the kit between the "C" terminal of the gas monitoring pressure switch and the collector box pressure switch terminal vacated in step 2.
5. Turn ON power to furnace. Verify proper unit operation.
6. Remove backing material from kit label. Fold label around jumper harness wire to indicate kit installation.
7. Adhere kit wiring diagram adjacent to existing unit wiring diagram.

IMPORTANT NOTE: Secure all wires to avoid their contact with any hot surfaces or moving parts.

TROUBLESHOOTING

If the furnace fails to light after installation of the LP low pressure switch kit, proceed as follows:



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