

HAMFK - HIGH ALTITUDE CONVERSION KIT FOR 34" MODULATING FURNACE

FURNACES EQUIPPED WITH WHITE-RODGERS 36J27 SERIES GAS VALVES

DO NOT DISCARD - RETAIN THESE INSTRUCTIONS FOR FUTURE USE.

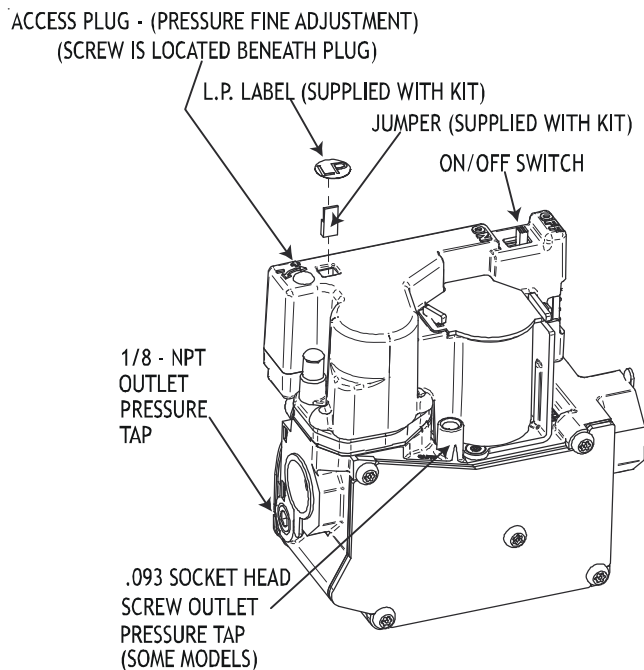


Figure 1 - 36J27 Modulating Gas Valve

APPLICATION

This kit is to be used for high altitude conversion of modulating gas furnaces equipped with WHITE-RODGERS 36J27 SERIES GAS VALVES ONLY (Figure 1). This kit also contains parts and instructions for conversion to L.P. This kit is not applicable in Canada. Parts apply as shown in the table below.

Above 7,000 Feet	
Natural Gas Orifices	Propane Gas Orifices
B2589907 (#49)	B2589908 (#56)

Table 1

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 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.

PROP 65 WARNING FOR CALIFORNIA CONSUMERS

WARNING

Cancer and Reproductive Harm -
www.P65Warnings.ca.gov

0140M00513-A



HIGH ALTITUDE CONVERSION

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.

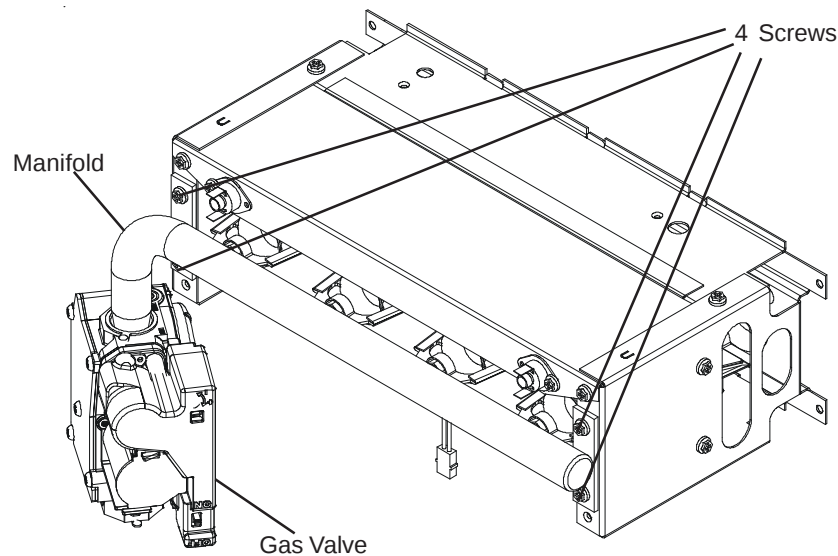


Figure 2 - Gas Manifold Removal

5. Remove factory installed orifices from gas manifold using 7/16" box end wrench.
For Natural Gas Operation, complete steps 6 & 7; For L.P. Gas Operation, complete steps 8 through 13.
6. Visually inspect the high altitude Natural Gas orifices (B2589907) for damage and drill size (#49) before installation. Install orifices and tighten with a box-end wrench, take care to avoid cross threading or over tightening.
7. Attach the gas manifold assembly to the burner bracket using the four screws removed in step 4.
8. Visually inspect the high altitude L.P. Gas orifices (B2589908) for damage and drill size (#56) before installation. Install orifices and tighten with a box-end wrench, take care to avoid cross threading or over tightening.
9. Remove the "NAT. GAS" label from the top of the 36J27 gas valve.
10. Use needle nose pliers to place the jumper (see enclosed F92-1021 kit) on the receptacle. Make sure both pins engage the jumper.
11. Place the "L.P." label (see the enclosed F92-1021 kit) on the gas valve, covering the jumper installed in step 8.
12. Attach the "WARNING" label (see the enclosed F92-1021 kit) to the gas valve where it can be readily be seen.
13. Attach the gas manifold assembly to the burner bracket using the four screws removed in step 4.

GAS SUPPLY PRESSURE CHECK

Gas Supply Pressure must be verified with all appliances in operating mode. See Table 2 for the required gas pressure.

1. Turn OFF electrical power & gas supply to the unit.
2. Use 3/16" Allen wrench to remove 1/8" 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%) to verify proper supply pressure. If gas supply is not within the range specified, contact your gas provider.

- Turn OFF gas to the unit at the manual shutoff valve and disconnect manometer. Reinstall line pressure tap plug. The pressure tap must be leak checked after resealing.

GAS SUPPLY PRESSURE RANGE		
GAS TYPE	MIN	MAX
NATURAL	5" w.c.	10" w.c.
L.P.	11" w.c.	13" w.c.

Table 2

MANIFOLD PRESSURE CHECK

Refer to table 3 for proper Natural Gas manifold pressure & table 4 for proper L.P. Gas manifold pressure. *For L.P. Gas, the gas valve outlet pressure is automatically adjusted for LP by installation of the jumper in step 10. 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 1/8" flat blade screwdriver. Adjustment should only be done with monitoring outlet pressure with a suitable manometer properly attached to the outlet pressure tap.

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

Natural Gas Manifold Pressure Range	
Low Stage	High Stage
.85" w.c. - 1" w.c.	3.2" w.c. - 3.8" w.c.

Table 3

Propane Gas Manifold Pressure Range	
Low Stage	High Stage
2.3" to 2.7" w.c.	9.7" to 10.3" w.c.

Table 4

CUSTOMER FEEDBACK

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