Installer's Guide

BAYLPKT400A
Propane Conversion Kit for S-Series Furnaces

ALL phases of this installation must comply with NATIONAL, STATE AND LOCAL CODES

IMPORTANT — This Document is **customer property** and is to remain with this unit. Please return to service information pack upon completion of work.

⚠ WARNING

This conversion kit shall be installed by a qualified service agency in accordance with 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 is responsible for the proper installation of the kit. The installation is not proper and complete until the operation of the converted furnace is checked as specified in the manufacturer's instructions supplied with the kit.

⚠ WARNING

EXPLOSION HAZARD

Propane gas is heavier than air and may collect in any low areas or confined spaces. In addition, odorant fade may make the gas undetectable except with a warning device. If the gas furnace is installed in a basement, an excavated area, or confined space, it is strongly recommended to contact a gas supplier to install a gas detecting warning device in case of a leak. Failure to follow this warning could result in serious personal injury, property damage, or death. The manufacturer of your furnace does not test any detectors and makes no representations regarding any brand of detector.

A. GENERAL

These instructions describe converting gas furnaces from natural gas to Propane gas.

Conversion from natural gas to Propane gas is a critical procedure, therefore, these INSTRUCTIONS MUST BE FOLLOWED CLOSELY.

PROPANE ORIFICE		
MODELS IN 1000's BTUH	QUANTITY OF ORIFICE	ORIFICE SIZE
40	2	56
60	3	56
80	4	56
100	5	56
120	6	56

EACH KIT CONTAINS:		Part Number
QTY	DESCRIPTION	PART NUMBER
6	Orifice Main Burner #56	B138253P33
1	LP Spring Conversion Kit - KIT02851 (White-Rodgers Kit #92-0659)	A138928P01
1	Propane Label	B342003P09
1	Conversion Label	B342003P09
1	Conversion Resposibility Label	B342003P09
1	Installer's Guide	18-CH78D1-1

B. INSPECTION

1. Unpack all components of the Propane conversion kit.
2. Check carefully for any shipping damage. If any damage is found, this must be reported immediately and a claim made against the transportation company.
3. Check to be sure all components are in the package. Any missing components should be reported to your supplier at once and replaced with authorized components only.

⚠ WARNING

Replace and/or tighten all plugs removed or loosened when adjusting gas pressure. Leak check the fittings before placing the furnace into regular service. Failure to follow this warning could result in fire, explosion or property damage.

C. CONVERSION INSTRUCTIONS:

S-Series Furnaces

⚠ WARNING

INSTALLATION WARNING - HIGH VOLTAGE MOVING PARTS

Bodily injury can result from high voltage electrical components, fast moving fans, and combustible gas. For protection from these inherent hazards during installation and servicing, the main gas valve must be turned off and the electrical supply must be disconnected. If operating checks must be performed with the unit operating, it is the technician's responsibility to recognize these hazards and proceed safely.

Failure to follow this Warning could result in property damage, severe personal injury, or death.

1. Turn off the gas supply and electrical power. Set the thermostat to off position.
2. Remove screws and detach manifold pipe (item 1) from burner box. See Figure 1 for references.
3. Remove screws and detach burner plate (item 2) from burner box.
4. Remove screws and detach burner clamp (item 3) from burner box.

⚠ CAUTION

When removing extreme right and left burners, use caution not to break the ignitor assemblies and flame sensors.

5. Remove all burners (item 4) from the burner holder (item 5). Discard burners.
6. Record the orifice depth prior to removing all the main burner natural gas orifices(s) (item 6). Remove & discard the natural gas orifices.
7. Re-install the #56 propane orifices to the same depth as the orifices supplied with the equipment.

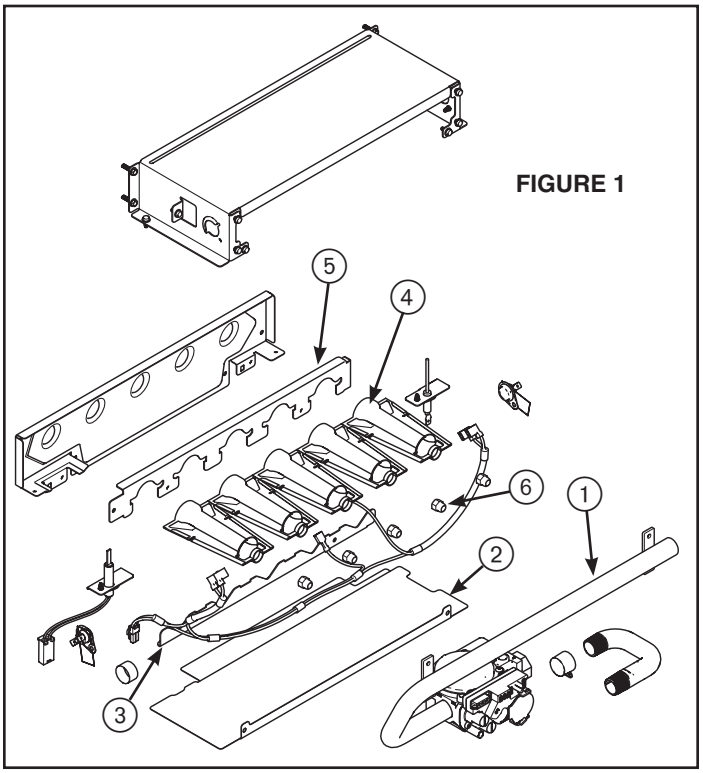
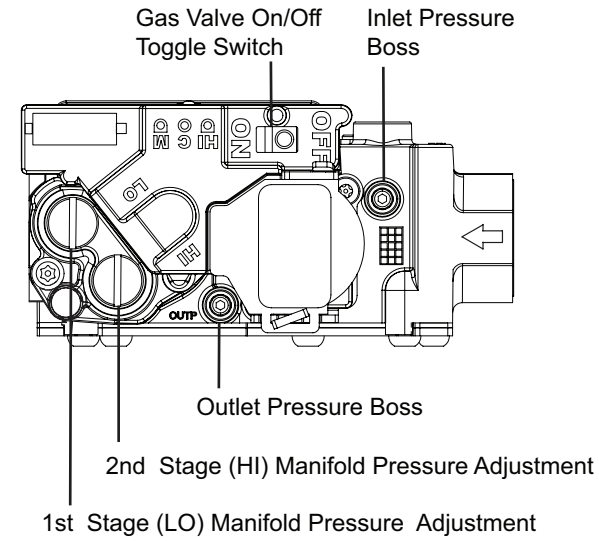


FIGURE 1

FIGURE 2
TWO STAGE GAS VALVE ONLY



⚠ CAUTION

Check the ignitor and flame sensor alignments when replacing extreme right and left burners, use caution not to break the ignitor assemblies.

8. Install stainless steel burners supplied with kit BAYLPSS400A.
9. Re-install burner clamp to burner box.
10. Re-install burner plate to burner box.
11. Re-install manifold pipe to burner box.
12. Remove the natural gas regulator spring from the gas valve and replace with the propane spring in the conversion kit. Apply labels to the gas valve per instructions with the spring.
13. Apply "PROPANE" label to the rating plate of the furnace.
14. Apply conversion label to the front of the furnace.
15. Fill out the Conversion Responsibility Label and apply to the inside of the furnace door.
16. Turn on gas supply and electrical power.
17. For complete detailed sequence of operation, refer to the installation instructions or Service Facts with the furnace.
18. Set the thermostat to call for operation.
19. Check the complete operation of the unit. Check the manifold gas pressure **as specified in the installation instructions.** The final manifold pressure should be between 10.5 and 11.0 inches W.C.

Models using the 36J two-stage gas valve:

1. Remove the natural gas regulator spring located under the high fire regulator screw and discard. This is found under the high adjustment seal screw labeled “HI”. See Figure 2. Install the regulator spring included with the kit and apply labels to the gas valve per instructions with the spring. Continue the conversion by following steps 12 through 19 above. The final manifold pressure should be between 10.5 and 11 inches W.C. for high fire and between 5.0 and 6.0 inches W.C. for low fire.

NOTE: Since the low fire manifold pressure for propane is higher than the high fire manifold pressure for natural gas, it is necessary to adjust the high fire setting to maximum rate on propane before setting the low fire manifold pressure on propane. If this is not done, the low fire manifold pressure for propane cannot be set above the 3.2” high fire manifold pressure setting for natural gas.

AIRFLOW ADJUSTMENT

1. Check inlet and outlet air temperatures to make sure they are within the ranges specified on the furnace rating nameplate.
   If the airflow needs to be increased or decreased, see the wiring diagram for information on changing the speed of the blower motor.

Trane
6200 Troup Highway
Tyler, TX 75707

For more information contact your local dealer (distributor)