Installer’s Guide

Propane Conversion Kit

S9VM Models Only

BAYLPSS5AM22DA

⚠ SAFETY WARNING

Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.

October 2026

FNR-SVN004A-EN

Introduction

Read this manual thoroughly before operating or servicing this unit.

This document is customer property and is to remain with this unit. Return to the service information pack upon completion of work.

Warnings, Cautions, and Notices

Safety advisories appear throughout this manual as required. Your personal safety and the proper operation of this machine depend upon the strict observance of these precautions.

The three types of advisories are defined as follows:

⚠ WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
⚠ CAUTION	Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It could also be used to alert against unsafe practices.
NOTICE	Indicates a situation that could result in equipment or property-damage only accidents.

⚠ WARNING

Proper Field Wiring and Grounding Required!

Failure to follow code could result in death or serious injury.

All field wiring MUST be performed by qualified personnel. Improperly installed and grounded field wiring poses FIRE and ELECTROCUTION hazards. To avoid these hazards, you MUST follow requirements for field wiring installation and grounding as described in NEC and your local/state/national electrical codes.

⚠ WARNING

Personal Protective Equipment (PPE) Required!

Failure to wear proper PPE for the job being undertaken could result in death or serious injury.

Technicians, in order to protect themselves from potential electrical, mechanical, and chemical hazards, MUST follow precautions in this manual and on the tags, stickers, and labels, as well as the instructions below:

- **Before installing/servicing this unit, technicians MUST put on all PPE required for the work being undertaken (Examples; cut resistant gloves/ sleeves, butyl gloves, safety glasses, hard hat/ bump cap, fall protection, electrical PPE and arc flash clothing). ALWAYS refer to appropriate Safety Data Sheets (SDS) and OSHA guidelines for proper PPE.**
- **When working with or around hazardous chemicals, ALWAYS refer to the appropriate SDS and OSHA/GHS (Global Harmonized System of Classification and Labelling of Chemicals) guidelines for information on allowable personal exposure levels, proper respiratory protection and handling instructions.**
- **If there is a risk of energized electrical contact, arc, or flash, technicians MUST put on all PPE in accordance with OSHA, NFPA 70E, or other country-specific requirements for arc flash protection, PRIOR to servicing the unit. NEVER PERFORM ANY SWITCHING, DISCONNECTING, OR VOLTAGE TESTING WITHOUT PROPER ELECTRICAL PPE AND ARC FLASH CLOTHING. ENSURE ELECTRICAL METERS AND EQUIPMENT ARE PROPERLY RATED FOR INTENDED VOLTAGE.**

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⚠ WARNING

Follow EHS Policies!

Failure to follow instructions below could result in death or serious injury.

- **All Trane personnel must follow the Environmental, Health and Safety (EHS) policies when performing work such as hot work, electrical, fall protection, and lockout/tagout. Where local regulations are more stringent than these policies, those regulations supersede these policies.**
- **Non-Trane personnel should always follow local regulations.**

⚠ WARNING

Cancer and Reproductive Harm!

This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

⚠ WARNING

Safety Hazard!

Failure to follow instructions below could result in death or serious injury or property damage.

This unit is not to be used by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.

Do not allow children to play or climb on the unit or to clean or maintain the unit without supervision.

⚠ WARNING

Safety Hazard!

Failure to follow instructions below could result in death or serious injury.

All phases of the installation must conform to NATIONAL, STATE, AND LOCAL CODES. For additional information, please contact your local distributor.

⚠ WARNING

Explosion Hazard!

Failure to follow instruction below could result in death or serious injury or property damage.

Propane gas is heavier than air and can accumulate in low areas or confined spaces. Odorant fade may make it undetectable without a warning device. If a gas furnace is installed in a basement, excavated areas, or a confined space, it is strongly recommended to contact a gas supplier to install a gas detector for leak warnings. The manufacturer does not test or endorse any specific brand or type of detector.

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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, the instructions must be followed closely.

Table 1. 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

Table 2. Part list

Qty	Description	Part Number
6	Stainless steel burner	D345196P07
6	Orifice main burner #56	B138253P33
1	Propane Label	B342003P14
1	Conversion responsibility label	B342003P14
1	Conversion kit – white rodgers #F92-1021	D347030P01
1	Pressure tap adapter kit (KIT07611)	A342055P01

Inspection

1. Unpack all components of the 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.

Conversion Instructions

⚠ WARNING

High Voltage Moving Parts!

Failure to follow instructions below could result in death or serious injury or property damage due to high voltage electrical components, fast-moving fans, and combustible gas.

During installation and servicing, turn off the main gas valve and disconnect the electrical supply. If operating checks must be performed with the unit operating, the technician must recognize these hazards and proceed safely.

⚠ WARNING

Explosion Hazard!

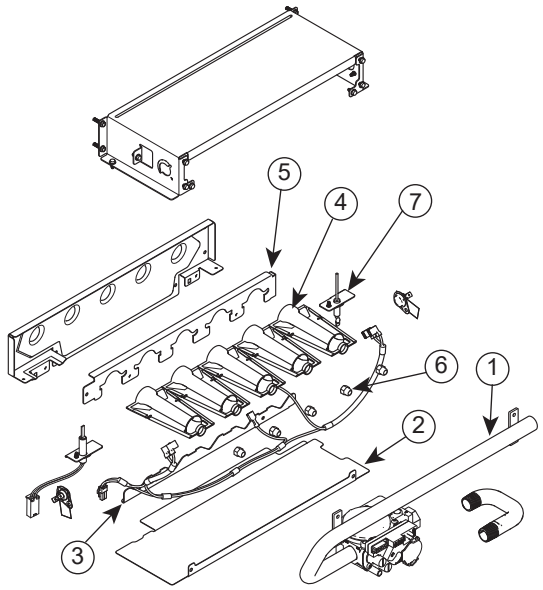
Failure to follow instruction below could result in death or serious injury or property damage.

Shut off the gas supply before disconnecting electrical power and before proceeding with the conversion.

1. Turn off the gas supply and electrical power. Set the thermostat to off position.
2. Remove the electrical connector from the gas valve.

   Note: *Failure to disconnect the connector could lead to premature failure of the gas valve due to damage to the connection terminals.*
3. Remove screws and detach manifold pipe (item 1) from burner box. See Figure 1, p. 7.
4. Remove screws and detach burner plate (item 2) from burner box.

Figure 1. Burner box assembly



5. Remove screws and detach burner clamp (item 3) from burner box
6. Remove all burners (item 4) from the burner holder (item 5). Discard burners.
7. Record the orifice depth prior to removing all the main burner natural gas orifice(s) (item 6). Remove and discard the natural gas orifices.
8. Install the #56 propane orifices to the same depth as the orifices supplied with the equipment.

NOTICE

Igniter Damage!

Failure to follow instructions below could result in breaking the igniter.

Check the igniter and flame sensor alignments when replacing the extreme right and left burners, and be careful not to break the igniter assemblies.

9. Install stainless steel burners supplied with kit.
10. Re-install burner clamp, burner plate, and manifold pipe to burner box.
11. Ensure the ground wire is connected.
12. Remove the label marked Nat. Gas. See Figure 2, p. 8.
13. Install the jumper pin supplied with the kit. See Figure 3, p. 8.
14. Apply new label marked LP. See Figure 3, p. 8.

Figure 2. Gas valve

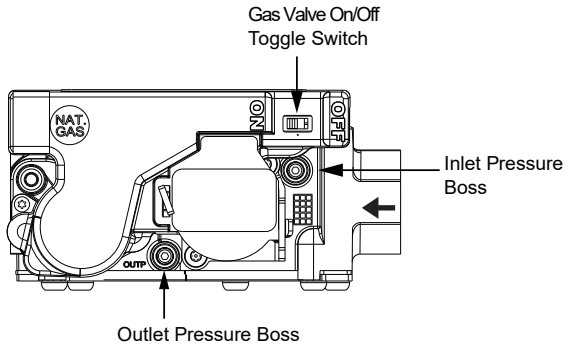
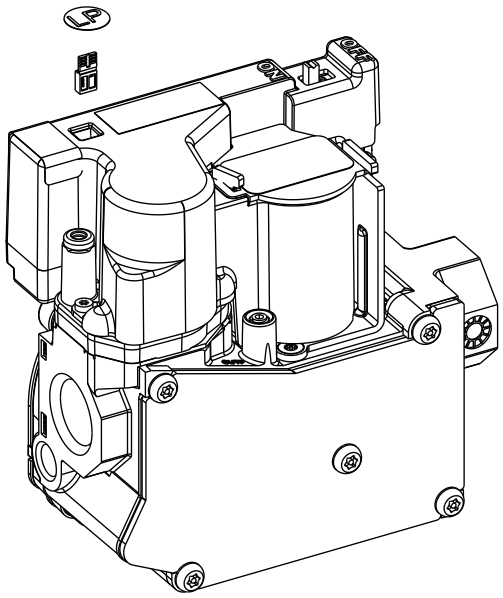


Figure 3. Gas valve conversion



15. Reconnect the electrical connector to the gas valve.
16. Apply Propane Kit label to the rating plate of the furnace.
17. Apply Conversion label to the front of the furnace.
18. Fill out the Conversion Responsibility label and apply to the inside of the furnace door.

Gas Valve Adjustment

NOTICE

Notice!

For optimum operation the Low/High Fire Gas Valve Manifold Pressure (OUTP) must be checked and adjusted, if needed, per the unit nameplate during installation. Refer to the IOM manual or BAYLPSS5AM22DA Installer Guide for adjustment instructions.

Important: Adjustments must be done electronically via the Technician App, IFC, or UX360 Smart Thermostat. Manual gas valve adjustment is not available.

1. Loosen (Do not remove.) the pressure tap test set screw one turn with 3/32-inch hex wrench.

   Note: *The pressure tap adjustment kit (KIT07611) contains a 3/32-inch hex wrench, a 5/16-inch hose, and a connector that can be ordered through Trane Supply.*

2. Attach a manometer with flexible tubing to the outlet pressure boss marked OUT P.
3. Turn on gas supply and electrical power.
4. Open the Technician App and connect to the S9VM furnace or the Hub via BLE.
5. Once connected, go to Test Modes > Test Indoor Heat> Start

Figure 4. Test modes

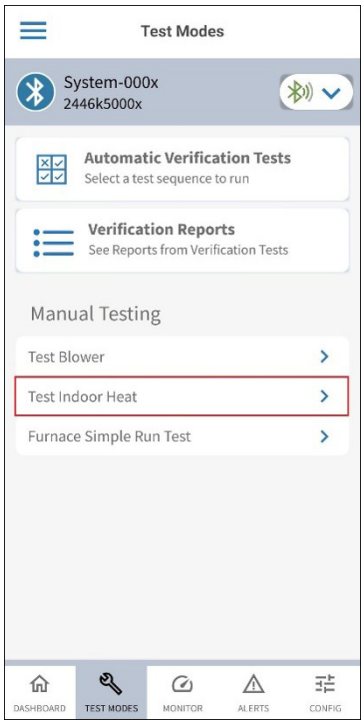
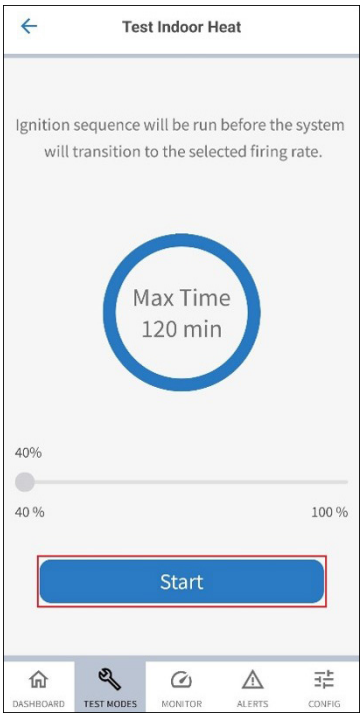


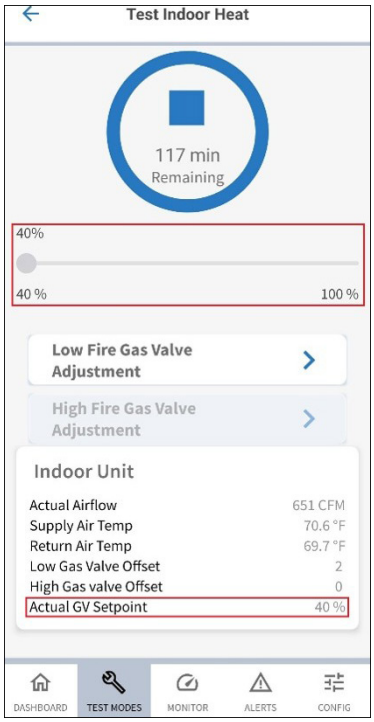
Figure 5. Test modes



6. Allow the furnace to ignite and the blower to begin. Using the slider, adjust to 40% low fire. The furnace will begin the transition with the inducer and gas valve ramping down. This transition should take less than 30 seconds. See Figure 6, p. 10.

   Important: *The actual GV setpoint must be at 40% before manifold adjustment is made.*

Figure 6. Low fire gas valve selection



7. Once the actual GV setpoint is at 40%, verify the manifold pressure on the manometer. Low fire manifold pressure should be ~1.4 inches for propane gas. If adjustment is required, push the Low Fire GV Adjustment to adjust the pressure Up or Down. See Figure 7, p. 10.

   Note: *Positive number adjustments will raise the manifold pressure. Negative number adjustments will lower the manifold pressure.*

Figure 7. Low fire gas valve adjustment

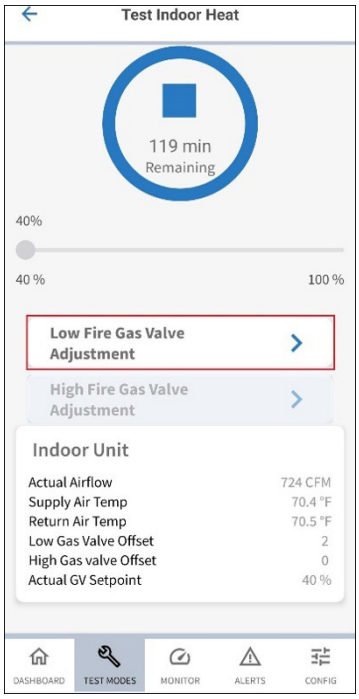


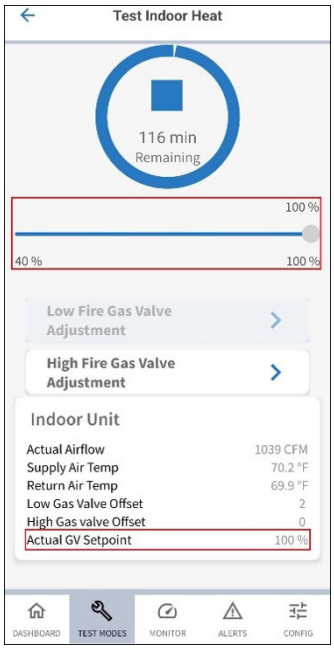
Figure 8. Low fire gas valve adjustment



8. After setting the low fire manifold pressure, use the slider to adjust to 100% high fire. See Figure 9, p. 11.

   Important: *The actual GV setpoint must be at 100% before manifold adjustment is made.*

Figure 9. High fire gas valve selection



9. Once the actual GV setpoint is at 100%, verify the manifold pressure on the manometer. High fire manifold pressure should be ~10.0 inches for propane gas. If adjustment is required, push the High Fire GV Adjustment to adjust the pressure Up or Down. See Figure 10, p. 11.

   Note: *Positive number adjustments will raise the manifold pressure. Negative number adjustments will lower the manifold pressure.*

Figure 10. High fire gas valve adjustment

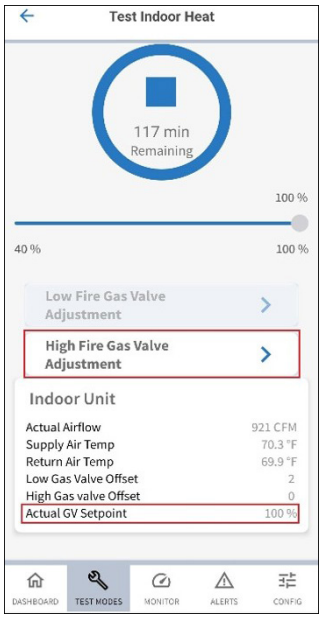
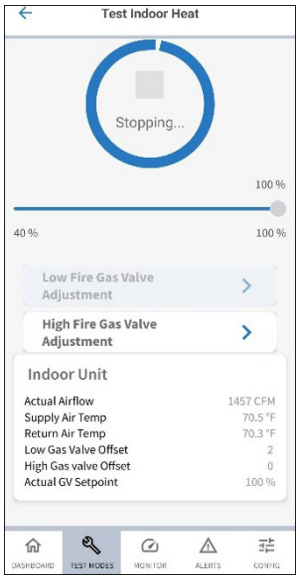


Figure 11. High fire gas valve adjustment



10. After both low and high fire adjustments have been made, cycle low and high fire rates using the slider to ensure that the pressures remain the same. Adjust pressures as necessary.
11. To stop the test, push the square button inside the timer circle. See Figure 12, p. 11.

Figure 12. Stopping gas heating test mode



12. Once the blower off delay is complete, remove the manometer and tubing from the gas valve outlet boss. Tighten the outlet tap test screw using the 3/32-inch hex wrench.
13. Using a leak detection solution or soap suds, check for leaks at the pressure outlet boss and pressure tap test screw.

14. Check operation of the unit.
15. For complete detailed sequence of operation, see the Installation, Operations, and Maintenance manual with the furnace.

Horizontal Condensate Piping

To prevent AC condensate from backing up into the furnaces, follow these instructions for condensate drainage.

1. The overflow standpipe termination must be even with or slightly below the bottom of the condensate trap.
2. Water from the overflow pipe must drain into the emergency drain pan.
3. It is recommended to use the secondary drain. The secondary drainpipe must terminate over the emergency drain pan.

Figure 13. Horizontal right

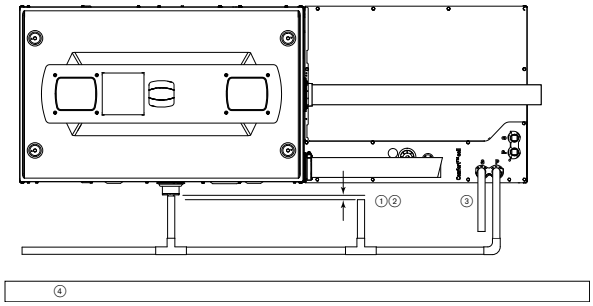
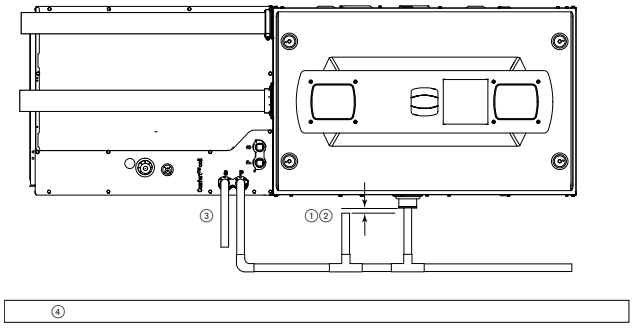


Figure 14. Horizontal left



NOTICE

Equipment Damage!

Failure to follow instructions below could result in intermittent or improper operation, or equipment damage.

A blocked main drain with an overflow standpipe that is higher than the bottom of the condensate trap and/or a condensate pressure switch hose that is not trimmed to fit can result in an E9.2 Condensate Pressure Switch Trip error or in extreme cases, an E4.2 Rollout Thermal Limit Trip error.

An overflow standpipe with an opening even with or slightly below the bottom of the condensate trap must be installed. The condensate pressure switch hose must be trimmed to fit.

Airflow Adjustment

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, refer to *Upflow/Horizontal and Dedicated Downflow Natural Gas-Fired, Direct/Non-Direct Vent, Modulating Condensing Variable Speed Furnaces with Variable Speed Draft Inducer Installation, Operations, and Maintenance* (FNR-SVX006*-EN) for information on changing the speed of the blower motor.

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The manufacturer has a policy of continuous data improvement and it reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.

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