

Installation Instructions

Low Static Kits

Foundation™ Packaged Rooftop Units

7.5 to 12 Tons

Model Number:

BAYLSDR310*

BAYLSDR311*

Used With:

EDK/GDK (7.5 to 8.5 Tons)

EDK/GDK (10 Tons)

▲ 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.

Introduction

Read this manual thoroughly before operating or servicing this unit.

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:



Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



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.

Important Environmental Concerns

Scientific research has shown that certain man-made chemicals can affect the earth's naturally occurring stratospheric ozone layer when released to the atmosphere. In particular, several of the identified chemicals that may affect the ozone layer are refrigerants that contain Chlorine, Fluorine and Carbon (CFCs) and those containing Hydrogen, Chlorine, Fluorine and Carbon (HCFCs). Not all refrigerants containing these compounds have the same potential impact to the environment. Trane advocates the responsible handling of all refrigerants.

Important Responsible Refrigerant Practices

Trane believes that responsible refrigerant practices are important to the environment, our customers, and the air conditioning industry. All technicians who handle refrigerants must be certified according to local rules. For the USA, the Federal Clean Air Act (Section 608) sets forth the requirements for handling, reclaiming, recovering and recycling of certain refrigerants and the equipment that is used in these service procedures. In addition, some states or municipalities may have additional requirements that must also be adhered to for responsible management of refrigerants. Know the applicable laws and follow them.

⚠ 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.**

⚠ WARNING**Follow EHS Policies!**

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

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

⚠ WARNING**R-454B Flammable A2L Refrigerant!**

Failure to use proper equipment or components as described below could result in equipment failure, and possibly fire, which could result in death, serious injury, or equipment damage.

The equipment described in this manual uses R-454B refrigerant which is flammable (A2L). Use ONLY R-454B rated service equipment and components. For specific handling concerns with R-454B, contact your local representative.

⚠ WARNING**Cancer and Reproductive Harm!**

This product can expose you to chemicals including lead and bisphenol A (BPA), 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.

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Installation – BAYLSDR310*

1. Remove the belt and the pulley.
 - a. Loosen the four mounting plate nuts on the topside of the plate to allow the motor mount to slide freely.

Figure 1. Remove mounting plate nuts

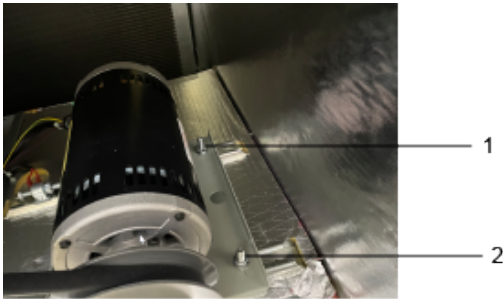
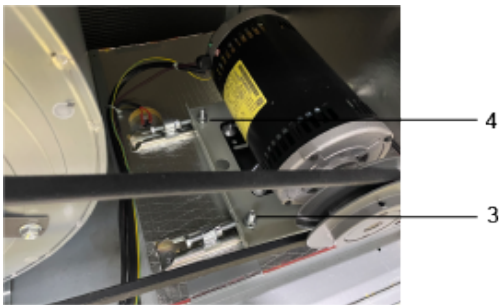
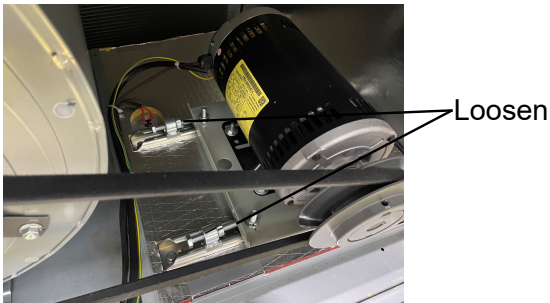


Figure 2. Remove mounting plate nuts



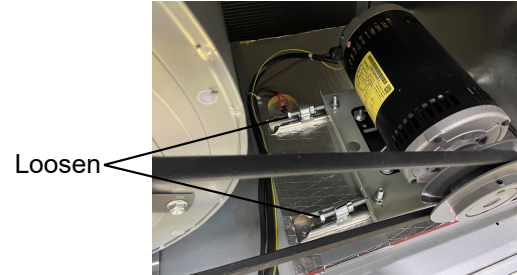
- b. Loosen the back-up lock nuts on the adjustment bolts for the mounting plate.

Figure 3. Loosen the back-up lock nuts



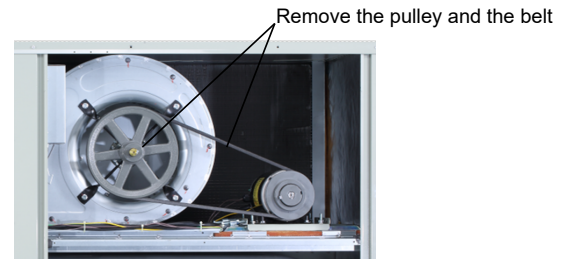
- c. Loosen the mounting plate adjustment bolts enough to remove the belt from the motors adjustable sheave.

Figure 4. Loosen the mounting plate adjustment bolts



- d. Remove the belt and the current pulley from the blower assembly and set it aside.

Figure 5. Remove the current belt and the pulley



2. Install the new blower pulley and lightly tighten the set screw, leaving it adjustable for later alignment.

Figure 6. Install the new pulley



3. Loosen the Allen head set screws on the adjustable sheave pulley to remove the key in the keyway and set it aside.

Figure 7. Loose Allen set screw

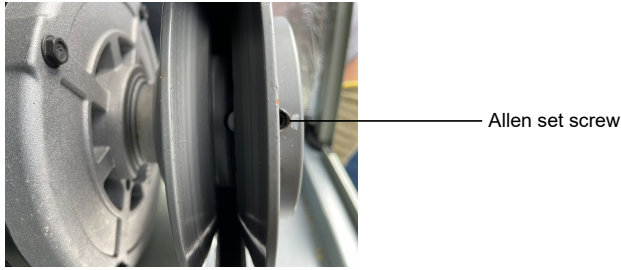
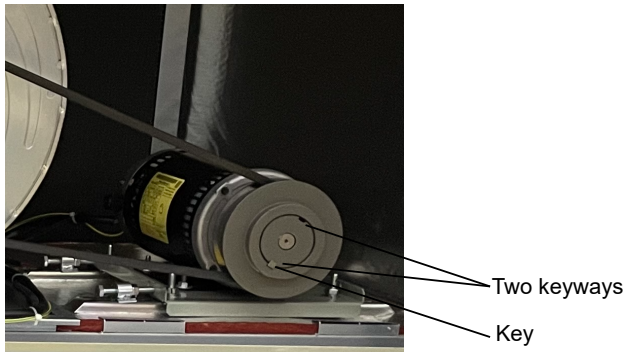


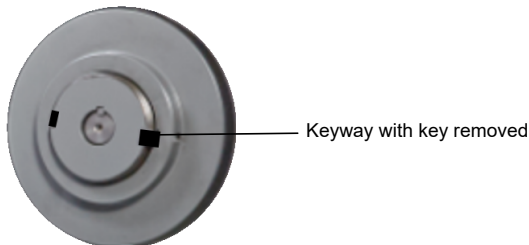
Figure 8. Remove the keyway



4. Adjust the motor sheave.

- a. Turn the outside adjustable sheave clockwise until it stops. Confirm the adjustable sheave keyway lines up squarely with the other half of the motor sheave. If the keyway stops a little before or after proper alignment with the motor sheave keyway, rotate forward or backwards so they both line up correctly.
- b. Adjust the fan speed correctly. See Performance Data section in *Foundation™ Packaged Rooftop Units Cooling and Gas/Electric 7.5 to 12.5 Tons, 60Hz Service Facts (RT-SVF114*-EN)*.
- c. Once the turns have been set, install the key back into the keyway and tighten set screws with the Allen wrench. This will complete the airflow adjustment.

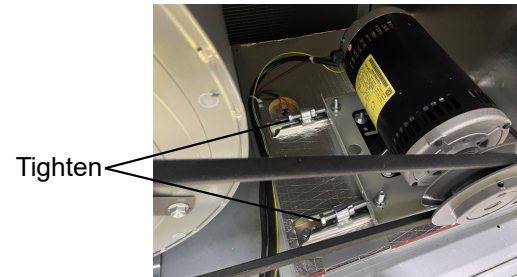
Figure 9. Key removed



Note: Rotate outside sheave clockwise all the way in until it stops. Then verify the keyway is lined up as seen in *Figure 9, p. 5*. This is 0* starting point.

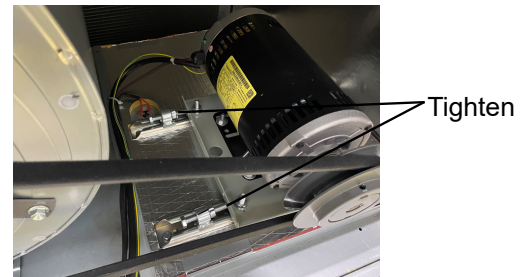
- d. Reverse the steps above to place the unit into operation to verify correct airflow adjustment has been made. Repeat steps again if airflow is still incorrect and requires further airflow adjustments.
5. Install the belt.
- a. After the key is re-installed following the fan CFM adjustment, place the new belt back into the groove. Use the motor mount alignment bolts to tighten motor mount plate for accurate belt tension.

Figure 10. Tighten screws



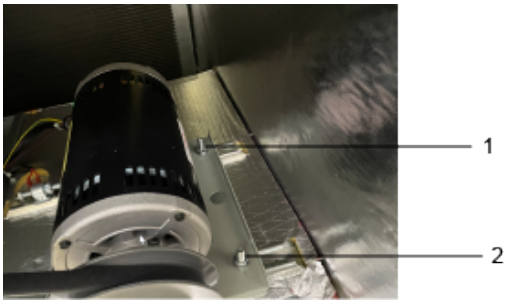
- b. Align the new pulley and the motor adjustable sheave. Once correctly aligned, tighten the set screw down on the pulley. See additional information on adjusting the belt tension in *Foundation™ Packaged Rooftop Units Cooling and Gas/Electric 7.5 to 12.5 Tons, 60 Hz Installation, Operation, and Maintenance (RT-SVX096*-EN)*.
- c. Once belt is adjusted, secure alignment bolts by tightening down the two-alignment bolt back up nuts.

Figure 11. Tighten screws



- d. Tighten the four motor mount plate bolts.

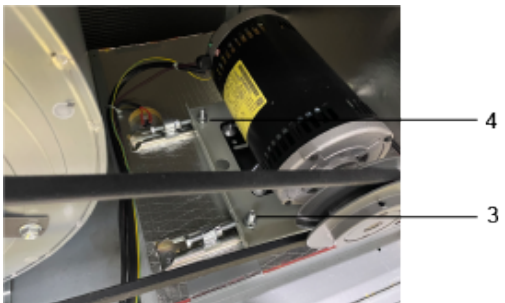
Figure 12. Tighten plate bolts



6. Verify everything loosen and removed prior is tightened and installed correctly.

Note: *It is recommended to verify the belt tension is correct and did not get over tightened during final motor mount tightening.*

Figure 13. Tighten plate bolts



Installation – BAYLSDR311*

1. Remove the belt and the pulley.
 - a. Loosen the four mounting plate nuts on the topside of the plate to allow the motor mount to slide freely.

Figure 14. Remove mounting plate nuts

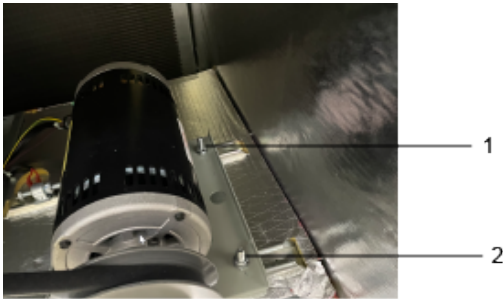
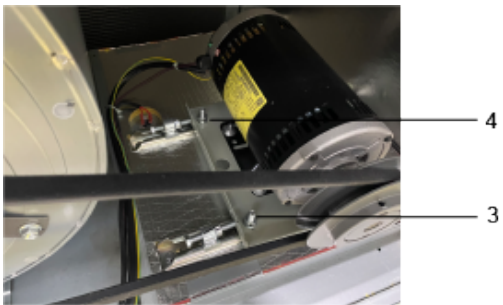
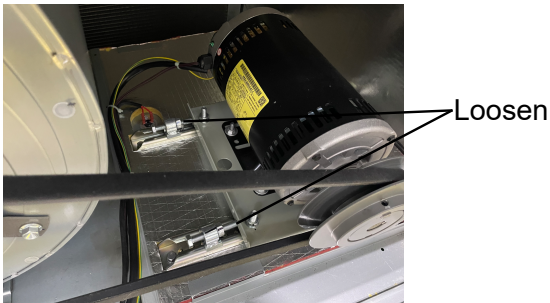


Figure 15. Remove mounting plate nuts



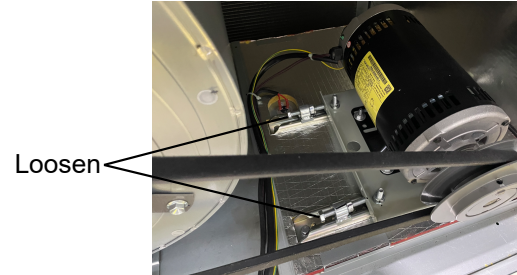
- b. Loosen the back-up lock nuts on the adjustment bolts for the mounting plate.

Figure 16. Loosen the back-up lock nuts



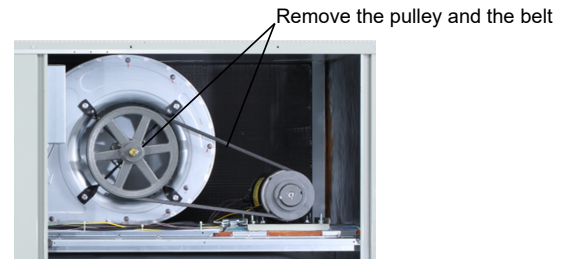
- c. Loosen the mounting plate adjustment bolts enough to remove the belt from the motors adjustable sheave.

Figure 17. Loosen the mounting plate adjustment bolts



- d. Remove the belt and the current pulley from the blower assembly and set it aside.

Figure 18. Remove the current belt and the pulley



2. Install the new blower pulley and lightly tighten the set screw, leaving it adjustable for later alignment.

Figure 19. Install the new pulley



3. Loosen the Allen head set screws on the adjustable sheave pulley to remove the key in the keyway and set it aside.

Figure 20. Loose Allen set screw

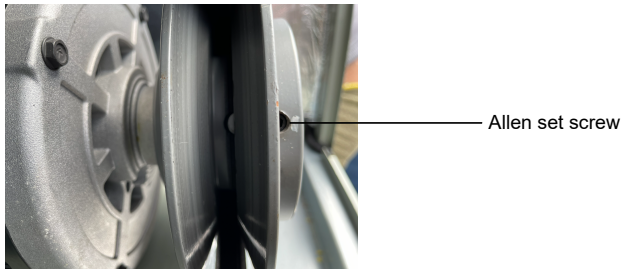
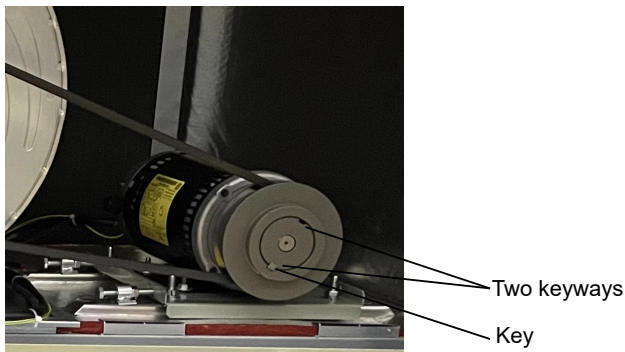


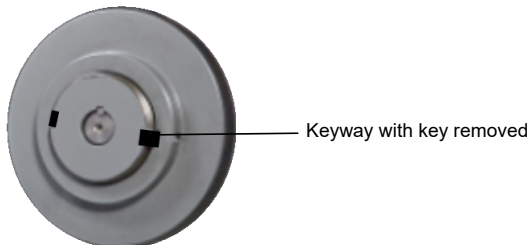
Figure 21. Remove the keyway



4. Adjust the motor sheave.

- a. Turn the outside adjustable sheave clockwise until it stops. Confirm the adjustable sheave keyway lines up squarely with the other half of the motor sheave. If the keyway stops a little before or after proper alignment with the motor sheave keyway, rotate forward or backwards so they both line up correctly.
- b. Adjust the fan speed correctly. See Performance Data section in *Foundation™ Packaged Rooftop Units Cooling and Gas/Electric 7.5 to 12.5 Tons, 60Hz Service Facts (RT-SVF114*-EN)*.
- c. Once the turns have been set, install the key back into the keyway and tighten set screws with the Allen wrench. This will complete the airflow adjustment.

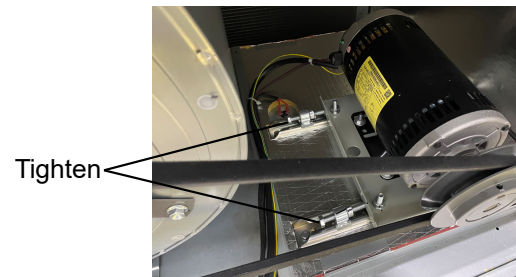
Figure 22. Key removed



Note: Rotate outside sheave clockwise all the way in until it stops. Then verify the keyway is lined up seen in *Figure 22, p. 8*. This is 0° starting point.

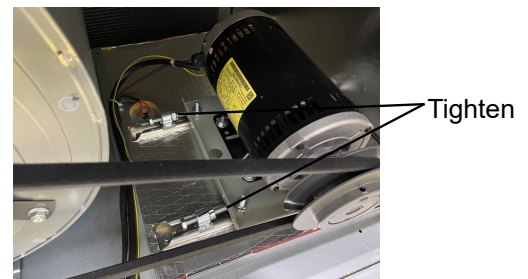
- d. Reverse the steps above to place the unit into operation to verify correct airflow adjustment has been made. Repeat steps again if airflow is still incorrect and requires further airflow adjustments.
5. Install the belt.
- a. After the key is re-installed following the fan CFM adjustment, place the old belt back into the groove. Use the motor mount alignment bolts to tighten motor mount plate for accurate belt tension.

Figure 23. Tighten screws



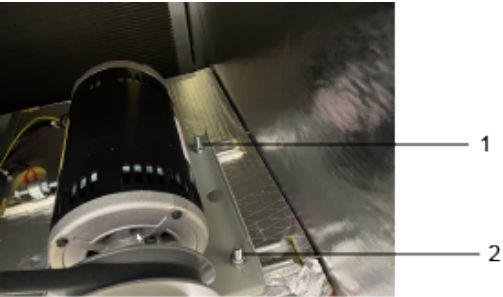
- b. Align the new pulley and the motor adjustable sheave. Once correctly aligned, tighten the set screw down on the pulley. See additional information on adjusting the belt tension in *Foundation™ Packaged Rooftop Units Cooling and Gas/Electric 7.5 to 12.5 Tons, 60 Hz Installation, Operation, and Maintenance (RT-SVX096*-EN)*.
- c. Once belt is adjusted, secure alignment bolts by tightening down the two-alignment bolt back up nuts.

Figure 24. Tighten screws



- d. Tighten the four motor mount plate bolts.

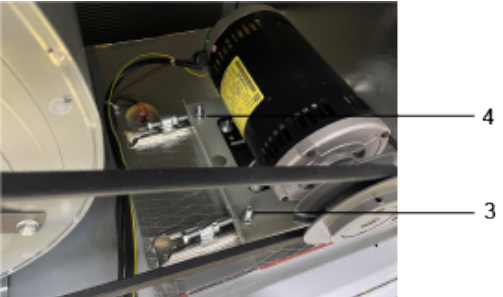
Figure 25. Tighten plate bolts



6. Verify everything loosen and removed prior is tightened and installed correctly.

Note: *It is recommended to verify the belt tension is correct and did not get over tightened during final motor mount tightening.*

Figure 26. Tighten plate bolts



Trane and American Standard create comfortable, energy efficient indoor environments for commercial and residential applications. For more information, please visit trane.com or americanstandardair.com.

Trane and American Standard have a policy of continuous product and product data improvement and reserve the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.

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Supersedes (New)

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