This document outlines the proper procedure for locating TrailerTail® Trident components on Vanguard refrigerated trailer rear swing doors.

Your trailer may be different than other Vanguard trailers.

It is the responsibility of the installer to follow the procedures outlined in this document to properly install the TrailerTail® Trident.

1. Rivet side template tabs
   - Rivet two template tabs flush* to side of the plastic template†.

   **Tools:** Rivet gun • Transfer punch • Hammer • Marker

2. Hold template against trailer door
   - While standing on a ladder or scissor lift, hold template up to the door.
   - Align template side tabs with side of trailer frame.
   - Align top of template with top edge of rubber edge trim.

   **Tip** First few installs should be completed by two people.

3. Mark location of top template tab
   - Rest a template tab on the roof of the trailer and over the plastic template.
   - Mark a dot on the template at the center of the bottom hole on the top tab.

   **Note:** It is important that the template does not cover any of the top lights, per DOT regulations.

4. Rivet top template tab

5. Add punch marks to trailer door
   - Rest top template tab off the top of the trailer and place the side template tabs flush with the side of the trailer.
   - Make sure the template does not move during this step.

6. Flip and repeat for other trailer door

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**SAFETY WARNING:** Failure to exercise good judgment and common sense may result in property damage, serious personal injury, or death, and are not the responsibility of ATDynamics.
This document outlines the proper procedure for riveting TrailerTail® Trident metal components to Vanguard refrigerated trailer rear swing doors.

Your trailer may be different than other Vanguard trailers. It is the responsibility of the installer to follow the procedures outlined in this document to properly install the TrailerTail® Trident.

1. Remove adhesive backing from metal components

2. Stick metal components to door
   Match the two larger holes to the punched marks on the door.
   Note: Only the smaller holes will be used to rivet the components to the door.

   Swingarm Brackets
   Swingarm Hat Platform ears point downwards.

   Gas Spring Brackets
   Ensure the Ball Stud points downwards.

3. Drill smaller holes
   Using a ¼” drill bit, drill through the smaller holes of all the metal components.
   Be sure to only drill through the outer skin of the trailer door!

4. Rivet components
   Rivet all the components to the door with the supplied steel dome head bulb-tite rivets.

Tools

- Drill
- ¼” drill bit
- Hammer
- Chisel
- Rivet gun

If any existing trailer door rivet interferes with any of the TrailerTail® metal components, you must remove the rivet. Use a hammer and a chisel to remove the trailer rivet.
This document outlines the proper procedure for installing TrailerTail® Trident panels on refrigerated trailer rear swing doors.

Your trailer may be different than other trailers.

It is the responsibility of the installer to follow the procedures outlined in this document to properly install the TrailerTail® Trident.

**Tools**

- Impact drill
- ½” socket
- 9⁄16” socket
- ½” wrench

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1. **Curbside Swingarm**
   Place curbside* swingarm on Swingarm Hat Platforms.
   A. Insert hex bolt through bottom Swingarm Hat Platform first. Secure with two washers and lock nut.
   B. Insert hex bolt through top Swingarm Hat Platform, inverted. Secure with two washers and lock nut.

*Curbside swingarm will have the ball stud facing up and will rotate flat against the curbside door.

2. **Gas Spring**
   A. Snap spherical end fitting of cylinder body to Ball Stud on Gas Spring Bracket.
   B. Snap spherical end fitting of gas spring shaft to Ball Stud on Swingarm.

3. **Top Panels**
   Fold Top Panel assembly and hold up to door.
   A. Insert hex bolt with washer through both hinges. Secure with lock nut and another washer.
   B. Insert rod end through Tie-Rod Bracket and secure with lock nut.
   C. Attach snap hook of Top Panel cable to top Swingarm Bracket.

4. **Lateral Panel**
   - Hold up Lateral Panel and align with lateral hinges.
   - Insert hex bolt through all four lateral hinges and secure with lock nut.

5. **Lateral Panel to Top Panels**
   A. Straighten out Top Panel assembly to match up metal hinges.
   B. Insert hex bolt through the two hinges and secure with lock nut.
   C. Attach snap hook of Lateral Panel cable to bottom Swingarm Hat Platform.

6. **Lateral Panel to Swingarm**
   Insert rod end through Tie-Rod Bracket and secure with lock nut.

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7. **Limiting Cable**
   A. Attach one end of limiting cable to the outboard hole of the Swingarm Hat Platform.
   B. Attach other end of limiting cable to unused hole of Swingarm Tab.

*Gas Spring has been hidden for clarity.

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8. **Striker Bolt**
   Adjust and tighten striker bolt as needed until TrailerTail latches and fully deploys reliably.

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If present, remove rubber bumpers from trailer hinges.
# Post-Install Checklist

**This page outlines a list of components to inspect immediately after a TrailerTail® installation.**

It is the responsibility of the maintenance crew and/or the driver to follow the presented procedures to ensure full and proper usage of the TrailerTail.

Incorrect installation may lead to issues:

- **C** while latched closed
- **I** during opening/closing
- **S** with stackup at side of trailer
- **D** while deployed

<table>
<thead>
<tr>
<th>After every install, inspect and adjust:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1</strong> System Opening</td>
</tr>
<tr>
<td>□ End Customer: ______________________</td>
</tr>
<tr>
<td>□ Trailer Model: ______________________</td>
</tr>
<tr>
<td>□ Trailer or VIN #: ___________________</td>
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<tr>
<td>□ Inspected by: _______________________</td>
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<tr>
<td>□ Installation Company: _______________</td>
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<tr>
<td>□ Date: ______________________________</td>
</tr>
</tbody>
</table>

**1. System Opening**

- **I** Tie-rods come pre-set to correct length so no adjustment is typically necessary.

- **I** Upon releasing the latch, if TrailerTail does not open fully without assistance, tie-rod adjustments may need to be made.

- **I** If adjusting tie-rods, remember to re-tighten both ¼” jam nuts.

A reasonable amount of binding during closing is acceptable to provide sufficient tension to open TrailerTail upon releasing latch.

**2. Rod Ends**

- **I** Rod ends are inserted from rear side of bracket.

- **I** ¼” lock nut is completely tight (flush against bracket).

**3. Cables**

- □ All cables are attached.

- TrailerTail® Trident has additional 14” cable attached from Gas Spring Bracket to center of swingarm.

**4. Swingarm Bolts**

- □ Both bolts have their threads pointing **outwards**.

**5. Rubber Bumpers**

- □ Rubber bumpers have been removed from doors.

**6. Striker Bolt**

- □ TrailerTail latches reliably and deploys on latch release.

- □ ¼” lock nuts are completely tightened.

**7. Gas Spring Bracket**

- □ Gas Spring Bracket and Ball Stud point downwards.

**8. Chain Link**

- □ Trailer doors can be opened with open TrailerTail® and secured to side of trailer. If required, additional chain link can be added (supplied upon request).

**9. Driver Decals**

- □ Driver awareness decals are applied on the front and side of trailer.

**10. Fasteners**

- □ All nuts have been tightened.

- □ All rivets have been used to mount TrailerTail® to refrigerated doors.

*Incorrect installation may lead to issues:*

- While latched closed
- During opening/closing
- With stackup at side of trailer
- While deployed