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Installation Tool List

Converting high-profile latches to low-profile latches will require the following tools:

- 1/4" rivet gun
- Drill
- 17/64" drill bit
- 1/8" slotted screwdriver
- Heat gun
- Chisel
- Hammer
- Tape measure
- 9/16" socket
- 1/2" socket
- 1/2" wrench
- Impact driver

This manual is designed to be used with the following kits:

- ATD003272 ASY AutoDeploy LP Latch Upgrade Kit, RDS
- ATD003271 ASY AutoDeploy LP Latch Upgrade Kit, CBS
TrailerTail® Trident Lateral Panel

1. Measure the extension length of the flange of the striker bolt bracket from the door.

2. Remove the striker bolt bracket.
   - For dry van trailers, remove the striker bolt bracket by removing the carriage bolts and flange nuts. Save the hardware for reuse.
   - For refrigerated trailers, remove the striker bolt bracket by removing the (3x) Bulb-Tite rivets using a drill, hammer and chisel.
TrailerTail Trident Lateral Panel

3. Choose the appropriate dual-flange striker bolt bracket based on the existing single-flange extension length.

<table>
<thead>
<tr>
<th>Old Bracket</th>
<th>New Bracket</th>
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<tbody>
<tr>
<td>1” Flange Extension</td>
<td>1–1/4” Flange Extension</td>
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<tr>
<td>2” Flange Extension</td>
<td>2–3/8” Flange Extension</td>
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</table>

4. Secure the dual-flange striker bolt bracket to the door.
   a. Secure the proper length dual-flange striker bolt bracket to the door in the same location using:
      • (3x) Bulb-Tite rivets for refrigerated trailers
      • (2x) Carriage bolts & flange nuts for dry van trailers
   b. Insert the bolts from the outside of the door for shorter flange bracket (bolts are reversed from previous installation).
   c. Insert the bolts from the inside of the door for longer flange bracket.
5. Prepare the existing latch for removal.
   a. Remove wire clamps from both sides of the latch connector. STEMCO recommends using a chisel and hammer to remove wire clamp rivets. Drilling can spin the rivet and tear the cables.
   b. Peel off heat shrink.
   c. Disconnect latch. Connectors are delicate. Press the top tab in with a small screwdriver while gently pulling the connectors apart.
   d. Remove all wire clamps holding the latch wire to the panel.

6. Remove the (4x) rivets holding the latch to the lateral panel and discard the latch.
7. Draw a straight line between the first two rib rivets shown on the outside of the lateral panel.

8. Mark a point on the line 3–3/8" inward from the outward-most rivet.
TrailerTail® Trident Lateral Panel

9. Drill through the panel and one side of the rib at the point with a 17/64" drill bit.

10. Secure the rib with a rivet at the new hole.

11. Remove the first rib rivet closest to the panel edge.
TrailerTail® Trident Lateral Panel

12. Measure 3-7/8” from the end of the rib and mark a line on the rib.

13. Use a cutoff wheel to cut and trim the rib at this mark. Discard the end of the rib.

14. Insert the rivets from the outside of the panel and secure the Low-Profile Latch.
TrailerTail® Trident Lateral Panel

15. Connect the latch to the harness.
   a. Slide the heat shrink tubing over and past the connector.
   b. Plug the wire harness into the latch.
   c. Slide the heat shrink back over the connector.
   d. Evenly apply heat over the length of the heat shrink tubing until it molds tightly to the connector.

16. Secure the wire to the panel.
   a. Using a 17/64" drill bit, drill 3 holes approximately in the locations shown.
   b. Place the wire clamps around the wire and rivet to the holes to secure the cable. Make sure the rivet enters from the wire clamp side.
   The cable between the clamps should be taut and not have room to move and damage itself, except at the hinge point between the panel and trailer frame.
   c. Leave approximately 3" of excess cable near the grommet. Test the excess by fully opening the trailer door and checking for cable binding.
   d. Feed excess wire into grommet, or pull extra wire out as needed.
**TrailerTail® 4x4 Lateral Panel**

1. **Prepare the existing latch for removal.**
   a. Remove wire clamps from both sides of the latch connector. *STEMCO recommends using a chisel and hammer to remove wire clamp rivets. Drilling can spin the rivet and tear the cables.*
   b. Peel off heat shrink.
   c. Disconnect latch. *Connectors are delicate. Press the top tab in with a small screwdriver while gently pulling the connectors apart.*
   d. Remove all wire clamps holding the latch wire to the panel.

2. Remove the (4x) rivets holding the latch to the lateral panel and discard the latch.
TrailerTail® 4x4 Lateral Panel

3. **Drill new latch holes using the conversion template**
   - **a.** Place the lateral panel conversion template on the outside of the lateral panel and align the existing latch holes with the holes on the template shown in yellow.
   - **b. Temporarily** place two rivets in the existing holes to keep the template in place.
   - **c.** Drill the four new latch holes shown in green with a 17/64” drill bit.
     
     *DO NOT drill the larger center hole.*
   - **d.** Remove the two rivets and the conversion template.

4. **Rivet the low-profile latch in the newly drilled holes.**
5. Connect the latch to the harness.
   a. Slide the heat shrink tubing over and past the connector.
   b. Plug the wire harness into the latch.
   c. Slide the heat shrink back over the connector.
   d. Evenly apply heat over the length of the heat shrink tubing until it molds tightly to the connector.

6. Secure the wire to the panel.
   a. Using a 17/64” drill bit, drill 3 holes approximately in the locations shown.
   b. Place the wire clamps around the cable and rivet to the holes to secure the cable. Make sure the rivet enters from the wire clamp side.
      The cable between the clamps should be taut and not have room to move and damage itself, except at the hinge point between the panel and trailer frame.
   c. Leave approximately 3” of excess cable near the grommet. Test the excess by fully opening the trailer door and checking for cable binding.
   d. Feed excess wire into grommet, or pull extra wire out as needed.

If connector is damaged, replace latch wire. Do not use damaged connector. See [ATD001905] Install Manual - AutoDeploy, Latch Wire Replacement.
TrailerTail® 4x4 Bottom Panel

1. Remove (3x) rivets holding the striker bolt bracket to the bottom panel and discard the bracket.

2. Drill new bracket holes using the conversion template.
   a. Place bottom panel conversion template on the underside of the bottom panel with the larger hole over the single remaining rivet head.
   b. Temporarily place two rivets in the existing holes shown in yellow to keep the template in place.
   c. Drill the three new latch holes and one rib hole shown in green with a 17/64" drill bit.

3. Remove the two rivets and the conversion template.
4. Remove the center two rivets of the rib.

5. Use the two panel holes to drill all the way through the rib, creating a through-hole.

6. Remove the rib rivet closest to the striker bolt bracket holes.
TrailerTail® 4x4 Bottom Panel

7. Rotate the rib to the newly drilled rib hole.

8. Use one rivet to secure the rib to this hole.
9. Insert 17/64” drill bit into two center rib holes and match drill through the panel.

10. Insert (2x) rivets from the panel side into the newly drilled holes and secure the rib.
TrailerTail® 4x4 Bottom Panel

11. Insert (3x) rivets from the panel side into the newly drilled holes and secure the dual-flange striker bolt bracket.

12. Adjust and tighten the striker bolt as needed to align with the latch cam on the lateral panel.