

Ladder Installation Instructions

P/N 210578: 2015+ Ford Transit Rear Door Ladder, Driver's Side

Before you begin:

- Stainless steel hardware may bind together when tightening apply an anti-seize assembly lubricant to the threads of each bolt before assembly
- This installation requires two or more people

Required Tools:

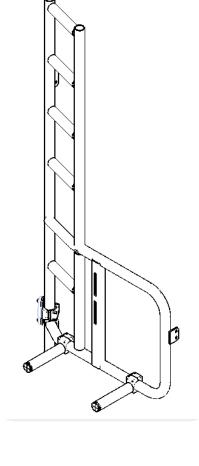
- Standard and metric wrench set
- Standard and metric socket set
- Torx bit set
- Drill or impact driver
- Dremel
- Isopropyl Alcohol
- Baby Soap or Dish Soap
- Spray Bottle
- Clean Rag
- Squeegee (or old credit card)
- Vice grips

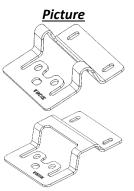
Included Hardware:

| P/N | Description | Quantity |
|--------|---|------------|
| 70344 | 5/16"-18 x 1" Button Head Bolt, BLACK OXIDE | 4 |
| 70446 | 5/16"-18 x 1 ¼" Button Head Bolt, BLACK OXIDE | 2 |
| 70448 | 3/8" ID Washer, 1/8" THK, BLACK OXIDE | 4 |
| 70345 | 5/16" ID Washer, BLACK OXIDE | 12 |
| 70346 | 5/16"-18 Nylon-Locking Nut, BLACK OXIDE | 6 |
| 400999 | Impact Resistant Protective Tape | 9 " |
| 70246 | Antiseize Bolt Lubricant Packet, 2g | 1 |

Additional Parts:

| <u>PN</u> | <u>Description</u> | <u>Quantity</u> |
|---------------|---------------------|-----------------|
| 301249/350656 | Upper Hinge Bracket | 1 ea |
| 301250/350657 | Lower Hinge Bracket | 1 ea |







301496/350643 Inne

Inner Driver Door Bracket, Driver

1 ea



Ladder Installation:

- 1. Cut the supplied protective tape into one 6" section and one 3" section. Round all corners.
- 2. Apply the protective tape to each location, one at a time, using the following wet application technique described below.
- 3. Prepare the surface for protective film application (wet application technique):
 - a. Clean the area around each hinge with isopropyl alcohol and rag.
 - b. Wash your hands thoroughly.
 - c. Do not apply in direct sunlight
 - d. Apply in temperatures above 60°F.
 - e. Create two separate wetting solutions:
 - i. Soap/water: ~95% water / ~5% soap
 - ii. Alcohol/water: ~75% water,~25% isopropyl alcohol
- 4. Spray the surface thoroughly with soap/water solution and do not wipe down surface.
- Remove the liner from the protective tape while spraying the <u>adhesive side</u> with soap/water solution.
- 6. Apply the protective tape to the outside of the door (Figure 1). At the upper or lower hinge location, leaving approximately ½" of tape overhanging to be wrapped around the edge of the door. Leave the tape overhanging for now.

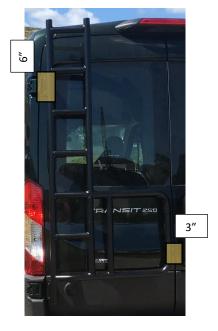


Figure 1: Locations of Protective Film Application

- 7. Use squeegee all air bubbles out starting at adhered edge.
- 8. Use the alcohol/water solution to speed up adhesion at one edge (lift section up and spray adhesive side) as needed.
- 9. Wrap remaining protective tape around the door underneath hinge if possible.
- 10. Install the upper hinge bracket by:
 - Have someone help support the weight of the door throughout the entire bracket installation.
 - b. Remove the three bolts connecting the hinge *to the door*.
 - Rotate hinge enough to allow the bracket to be installed around the hinge (Figure 2).





Figure 2: Upper Hinge Rotated Away from Door

d. Install the hinge around the hinge in the correct orientation (Figure 3).



Figure 3: Bracket Installed Over Factory Hinge

- e. Rotate the hinge and bracket back into position against the door.
- f. Use the factory hardware to reinstall the hinge/bracket (Figure 4).

PRO TIP: Be sure to center the bracket around the hinge and verify clearances around the hinge while slowly opening and closing the door.

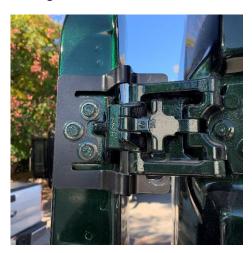


Figure 4: Inside View of Installed Upper Hinge Bracket

11. Install the lower hinge bracket by repeating the process detailed in Step 2 (reference Figure 5).



Figure 5: Inside View of Installed Lower Hinge Bracket

- 12. Loosen the weather-stripping on the inside of the driver's side door from the bottom up to past the inside handle.
- 13. Remove the driver's side inside handle by removing the torx bolt (Reference Figure 6).



Figure 6: Driver's Side Inside Handle

14. Remove the upper and lower factory torx bolts as shown in Figure 7. NOTE: Hold the center post with clamp or vice during the installation to prevent the latch falling into the door.





Figure 7: Inner Door Bracket Installed

15. Install the inner driver door bracket using the upper and lower factory torx hardware (See Figure 8).



Figure 8: Inner Driver Door Bracket Installed

16. If needed, cut a relief channel into the ribs on the back of the plastic factory handle with a Dremel. Reference Figure 9. Shave the ribs down about 1/8", or enough to clear the torx bolt head on the inside of the door.



Figure 9: Driver's Side Inside Handle

- 17. Reinstall the inside door handle over the bracket using the same factory torx bolt.
- 18. Verify the driver's inside door handle operates as desired. Repeat Steps 16-17 as needed.
- 19. Mark and cut the weather-stripping to fit around the inner door bracket. On the weather-stripping, cut the channel (attachment to the folded sheet metal) and not the bulb (hollow tube); (Reference Figure 10 & 11).

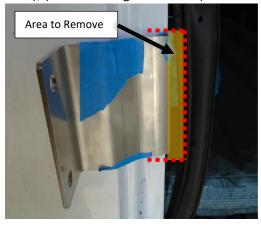


Figure 10: Weather-Stripping Cut to Shape

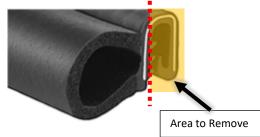


Figure 4: Cross-Section of Weather-Stripping

20. Reinstall weather-stripping over the bracket ensuring cut section lines up with bracket as shown in figure 12.



Figure 12: Installed Weather Stripping After Modification



- 21. Loosely install the rack onto the upper, lower, and inner brackets using the provided 5/16"-18 bolts, washers, and nuts. Use the 1" bolts for the outer brackets and the 1 ¼" bolts for the inner bracket.
 - a. Tighten the upper and lower **hinge** brackets first.
 - b. There should be a small gap at the center bracket before it is fully tightened (0-1/8"). If the gap is larger, than 1/8", use the provided 1/8" THK washers as shims (PN: 70448) to close the gap to ≤ 1/8" (See Figure 13).



Figure 13: Gap between bracket and product

- 22. Verify the hinge brackets and inner door brackets have appropriate clearances while slowly opening and closing both rear doors.
- 23. Check mounting hardware after first 100 miles of driving and periodically after to verify hardware has not become loose from vibration.
- 24. Your new Aluminess tire rack is now installed, enjoy



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