

Tire Rack Installation Instructions

P/N 210541: 2015+ Ford Transit Rear Door Tire Rack, 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



P/N	Description	Quantity
70344	5/16"-18 x 1" Button Head Bolt, BLACK OXIDE	6
70345	5/16" ID Washer, BLACK OXIDE	12
70346	5/16"-18 Nylon-Locking Nut, BLACK OXIDE	6
70440	Carriage Bolt, 3/8"-16 x 2-1/2", SS	4
70028	3/8" Washer	4
70024	3/8"-16 Nylong Locking Nut	4
70246	Antiseize Bolt Lubricant Packet, 2g	1
400999	Impact Resistant Protective Tape	9 "

Additional Parts:

<u>PN</u>	<u>Description</u>	<u>Quantity</u>	<u>Picture</u>
301217	Upper Hinge Bracket	1 ea	
301218	Lower Hinge Bracket	1 ea	





301496	Inner Driver Door Bracket	1 ea	
350448.1	Adjustable Tire Mounting Plate (Pre-assembled)	1 ea	
301203	Adjustable Tire Plate Adapter	1ea	
N/A	Bolt-On Tire Supports (Pre-assembled)	2 ea	

Tire Rack Installation:

- 1. Cut the supplied protective tape into one 6" section and one 3" section. Round all corners.
- 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 <u>not</u> 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

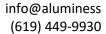
location, leaving approximately ½" of tape overhanging to be wrapped around the edge of the door. Leave the tape overhanging for now.

(P)



Figure 1: Locations of Protective Film Application

7. Use squeegee all air bubbles out starting at adhered edge.



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 - 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 (Figure 4).



Figure 4: Hinge Placed Back into Position

f. Use the factory hardware to reinstall the hinge/bracket (Figure 5).

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 5: Inside View of Installed Upper Hinge Bracket

11. Install the lower hinge bracket by repeating the process detailed in Step 2 (reference Figure 6).



Figure 6: 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 7).



Figure 7: Driver's Side Inside Handle



14. Remove the upper and lower factory torx bolts as shown in Figure 8. NOTE: Hold the center post with clamp or vice during the installation to prevent the latch falling into the door.

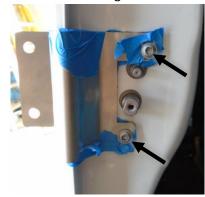


Figure 8: Inner Door Bracket Installed

15. Install the inner driver door bracket using the upper and lower factory torx hardware (See Figure 9).



Figure 9: 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 10. Shave the ribs down about 1/8", or enough to clear the torx bolt head on the inside of the door.



Figure 10: 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 11 & 12).

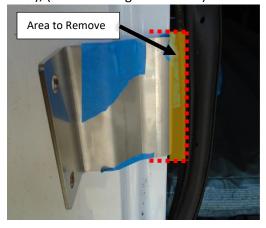


Figure 11: Weather-Stripping Cut to Shape

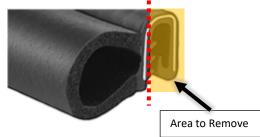


Figure 12: Cross-Section of Weather-Stripping

20. Reinstall weather-stripping over the bracket ensuring cut section lines up with bracket as shown in figure 13.



Figure 13: Installed Weather Stripping After Modification



- 21. Install the tire rack onto the upper, lower, and inner brackets using the provided 5/16"-16 x 1" bolts, washers, and nuts.
- 22. Verify the hinge brackets and inner door brackets have appropriate clearances while slowly opening and closing both rear doors.
- 23. Loosely install the bolt-on tire/box supports onto the bottom crossmember of the rack as shown in Figure 14.



Figure 14: Bolt-On Supports Loosely Bolted to Lower Crossmember

24. Starting with support closest to tail light – sliding support as close to the tail light as possible and then rotate into desired position and tighten.

PRO TIP: Reference Figure 15 for suggested mounting orientation.

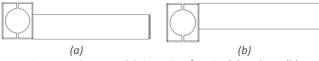


Figure 15: Suggested Orientation for Tire (a) and Box (b)

- 25. Repeat for the support opposite the center post, being sure that the spacing is equal from the center post, and the orientation is the same for both supports.
- 26. Mount the adjustable tire mounting plate to the center, vertical post of tire rack. Use the tire plate adapter bracket with the 3/8" carriage bolts, washer, and nuts to mount. Use the

outer-most four holes to mount. Reference Figure 16.

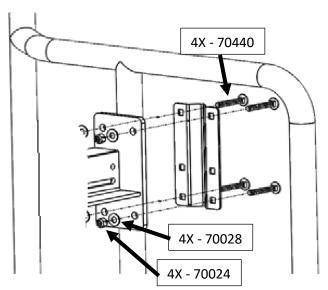


Figure 16: Mounting Adjustable Tire Plate

27. Rest the tire onto the tire supports when mounting the tire as shown in Figure 17. Tire **must** be resting on **both** supports.



Figure 17: Tire Resting on Tire Supports

- 28. Check mounting hardware after first 100 miles of driving and periodically after to verify hardware has not become loose from vibration.
- 29. Your new Aluminess tire rack is now installed, enjoy!



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