

Ladder Installation Instructions

P/N 210536: 2019+ Mercedes Sprinter Rear Door Ladder

Before you begin:

- **Maximum load capacity is 100 lbs on ladder once installed.**
- *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:

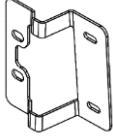
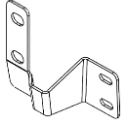

- Standard and metric wrench set
- Standard and metric socket set
- Torx bit set
- Isopropyl Alcohol
- Baby Soap or Dish Soap
- Spray Bottle
- Clean Rag
- Squeegee (old credit card)
- Heat Gun or Blow Dryer (optional)



Included Hardware:

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 Nylon Locking Nut	4
70246	Antiseize Bolt Lubricant Packet, 2g	1
400999	Impact Resistant Protective Tape	18"

Additional Parts:

Description	Quantity	Picture
[301178.1] Upper Hinge Bracket, Driver	1 ea	
[301179.1] Lower Hinge Bracket, Driver	1 ea	
[301177] Inner Driver Door Bracket	1 ea	

Tire Rack Installation:

1. Cut the supplied protective tape using the template provided at the end of the install instructions (page 6).
2. Apply the protective tape to each location, one at a time, using the following method described below.
3. Prepare the surface for protective film application:
 - 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% baby soap
 - ii. Alcohol/water: ~75% water, ~25% isopropyl alcohol
4. Spray the surface thoroughly with soap/water solution and do not wipe down the surface.
5. Remove the liner from the protective tape while spraying the adhesive side with soap/water solution.
6. Apply the protective tape to the outside of the door (Figure 1). At the upper and lower hinge, leave approximately ½" of tape overhanging to be wrapped around the edge of the door. Leave the tape overhanging for now.

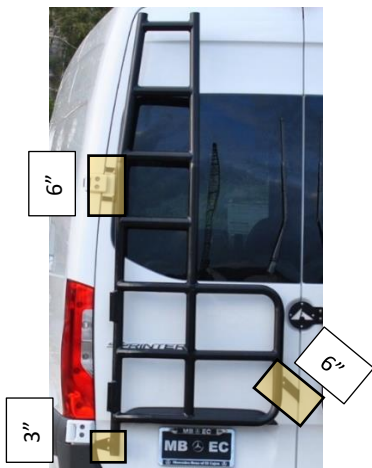


Figure 1: Protective Tape Locations

7. Use squeegee all air bubbles out starting at adhered edge.
8. Use the alcohol/water solution to speed up adhesion at one edge as needed (lift section up and spray adhesive side).
9. Use heat gun or blow dryer to conform to curved areas as needed.
10. Wrap remaining protective tape around the door underneath the hinge.
11. Install the upper hinge bracket by:
 - a. Open the rear doors.
 - b. Have someone help support the weight of the door throughout the entire bracket installation.
 - c. Remove the two torx bolts connecting the upper hinge to the door (Figure 2).



Figure 2: Factory Hinge (Upper)

- d. Rotate hinge enough to allow the bracket to be installed around the hinge. Verify orientation of bracket.
- e. Fold the remaining protective tape around the corner of the door or trim as desired.
- f. Rotate hinge and hinge bracket back into position (Figure 3a & 3b).

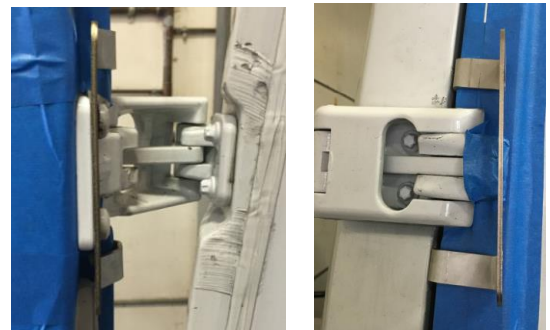


Figure 3: Installed Upper Hinge Bracket from inside (a) and outside (b)

- g. Use the factory hardware to reinstall the hinge/bracket (shown in Figure 3a).

PRO TIP: When reinstalling factory hardware, try to match up the location of the hinge to the door using the unpainted 'shadow' as a guide to ensure proper alignment of the door on the van. Misalignment of the hinges can lead to fitment issues at the inner door latch.

- 12. Install the lower hinge bracket by repeating the process detailed in Step 4 and reference Figure 4 & 5.



Figure 4: Inside View of Lower Hinge



Figure 5: Installed Lower Hinge Bracket

- 13. Loosen the weather-stripping on the inside of the driver's side door from the bottom up, past the latch pin.
- 14. Remove the latch pin by unscrewing the torx bolts (Reference Figure 6).



Figure 6: Driver's Side Inside Latch Pin

- 15. Apply protective tape to door at the center bracket location as described in steps 2-8 (reference Figure 1).
- 16. Install the inner driver door bracket between the door and the factory latch pin (Reference Figure 7).



Figure 7: Installed Latch Pin Bracket

- 17. Reinstall using the factory torx hardware (See Figure 6 & 7).

PRO TIP: Before tightening factory torx bolts, **slowly** bringing your passenger door *near the closed position (not fully closed)* and verify alignment of latch pin (driver door) to latch (passenger door). Only close door once product is fully installed.

- 18. Mark and cut the weather-stripping to fit around the inner driver 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).

NOTE: Tire or Box Carrier (P/N 210537) is sold separately.

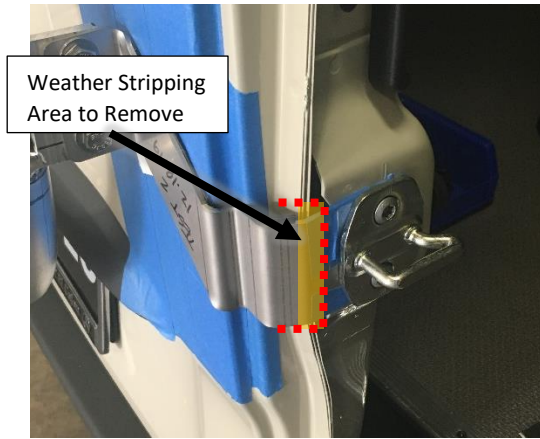


Figure 8: Weather-Stripping Cut to Shape

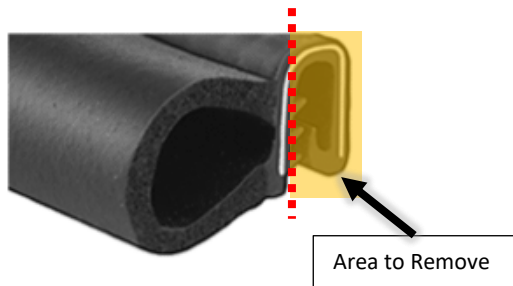


Figure 9: Cross-Section of Weather-Stripping



Figure 10: Available Mounting Locations

19. Reinstall weather-stripping over the bracket ensuring cut section lines up with bracket.
20. Install the ladder using the provided black 5/16"-16 x 1" bolts, washers, and nuts.
21. Verify the hinge brackets and inner door brackets have appropriate clearances while slowly opening and closing both rear doors.
22. Use the highlighted area shown in Figure 10 to install desired accessories ensuring the weight is under the recommended 100 lbs limit.

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!



Aluminess Products, Inc. (Aluminess) Warranty

1. Lifetime Warranty. Aluminess provides a lifetime warranty of its products to the original retail purchaser provided such products are installed correctly according to the official Aluminess installation instructions. Any modification to the original product design, function or use of any Aluminess products will void the Aluminess warranty. Aluminess will have sole discretion to determine warranty eligibility for any and all Aluminess products sold to any purchaser.

2. Limited Remedies. Subject to any limitations and exclusions described herein, and subject to Aluminess' determination of warranty eligibility, Aluminess will remedy defects in product materials and/or workmanship of any product by repairing or replacing such defective product, which shall be within Aluminess' sole discretion, without charge for parts or labor. Aluminess may elect in its sole discretion not to replace a defective product and issue the purchaser a refund equal to the purchase price of any defective product or purchaser may elect to receive a credit (equal to such refund) toward the purchase of new Aluminess products. Repair or replacement of a defective product or providing a refund or credit to purchaser will be purchaser's exclusive remedy under this warranty. Damage to a purchaser's vehicle, cargo and/or any other person or property is expressly excluded from the Aluminess warranty.

3. Modification. Aluminess products are designed to be mounted to factory equipped vehicles. Aftermarket additions to such vehicle may or may not require modification of an Aluminess product. The Aluminess warranty does not extend to any Aluminess products that are modified to fit around other otherwise accommodate or be compatible with any aftermarket vehicle accessories or alterations. Aluminess does not guarantee fitment with any other aftermarket accessories or modified vehicle, and it is up to purchaser to determine fitment prior to purchasing any Aluminess product.

4. Damage. Damage to Aluminess products due to normal wear and tear, including, but not limited to, cosmetic issues and superficial scratches, or structural damage to an Aluminess product in connection with any vehicle collisions or other structural degradation in connection with the use of such vehicle (on road or off road) will not be covered by the Aluminess warranty. Additionally, any product user's misuse, neglect, overloading, improper maintenance or improper installation or repair of any Aluminess products are not covered under the Aluminess warranty.

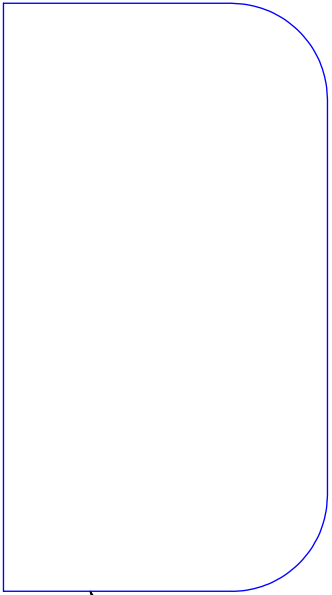
5. Use of the Products. Aluminess products are designed for off road vehicle use. Installing Aluminess products on a vehicle may exceed the factory designed capabilities of such vehicle and could potentially lead to vehicle damage. Aluminess will not be responsible for any damage caused to a purchaser or user's vehicle or any vehicle accessories caused by the use of any Aluminess products. It is to the sole responsibility of purchaser to inspect and ensure that the intended vehicle and Aluminess products are suitable and compatible for travel on road and off road. No seller nor any manufacturer of Aluminess products will be liable for any loss, damage or injury directly or indirectly arising from the use of any Aluminess products. Before using any Aluminess products, the purchaser or user will determine the suitability of the product(s) for their intended use(s) and the purchaser or user shall assume all responsibility and risk in connection therewith.

6. DISCLAIMER. THE ALUMINESS WARRANTY IS EXPRESSLY MADE IN LIEU OF ANY AND ALL OTHER WARRANTIES, AND EXCEPT FOR THE ALUMINESS WARRANTY SET FORTH HEREIN, ALUMINESS MAKES NO WARRANTY WHATSOEVER WITH RESPECT TO ANY ALUMINESS PRODUCT, INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHETHER EXPRESS OR IMPLIED BY LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE OF TRADE, OR OTHERWISE.

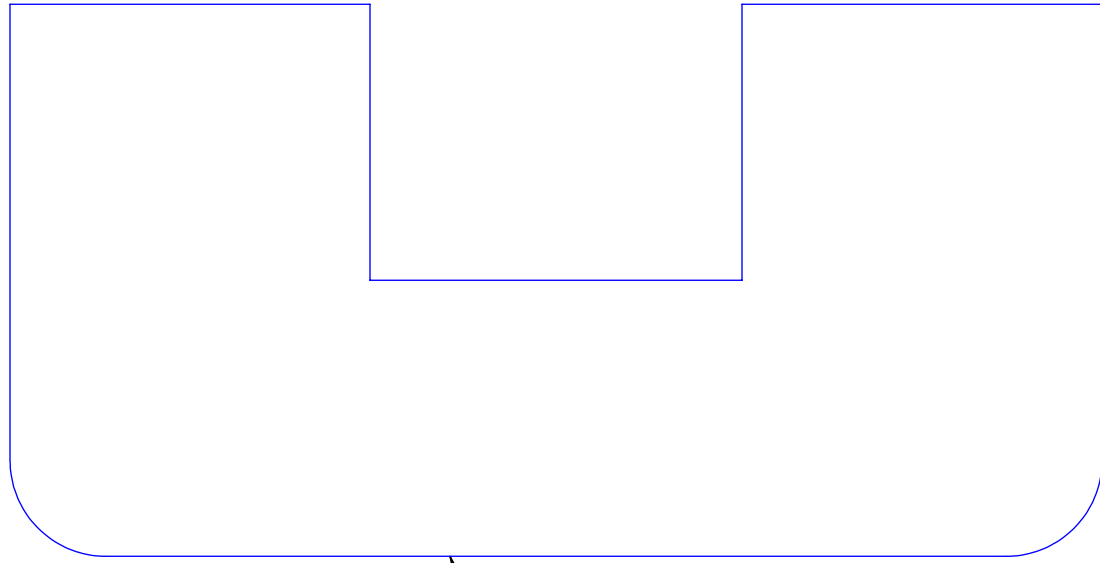
EXCEPT FOR PURCHASER'S LIMITED REMEDIES SET FORTH HEREIN, IN NO EVENT WILL ALUMINESS BE LIABLE FOR ANY LOST PROFITS, LOST SALES, OR FOR ANY CONSEQUENTIAL, DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY OR PUNITIVE DAMAGES OR FOR ANY OTHER DAMAGES OF ANY KIND OR NATURE.

7. Compliance. Aluminess cannot guarantee that its products comply with all Federal, State, and/or local laws. Purchaser is advised to review local vehicle codes for compatibility prior to purchase to ensure that the installation and use of any Aluminess products does not violate any applicable laws.

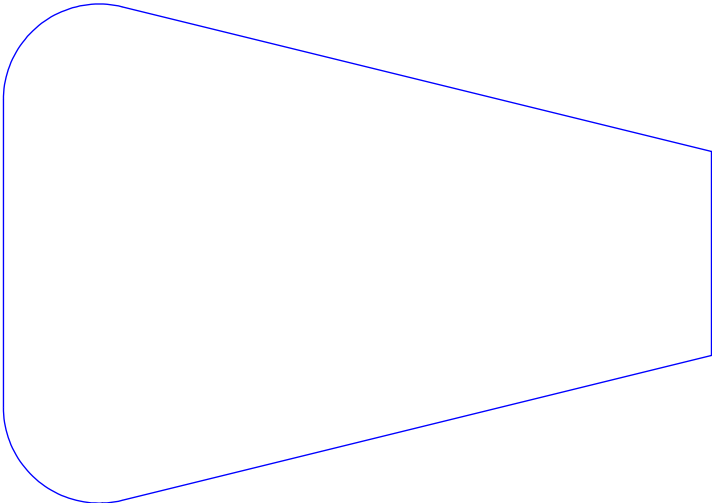
8. Warranty Claim Submission. Purchaser will responsible for returning any defective product to Aluminess for warranty consideration and purchaser may be responsible for all costs associated with shipping the product to and from Aluminess. Prior to returning any product for warranty, purchaser must contact Aluminess Products Inc. for proper authorization.



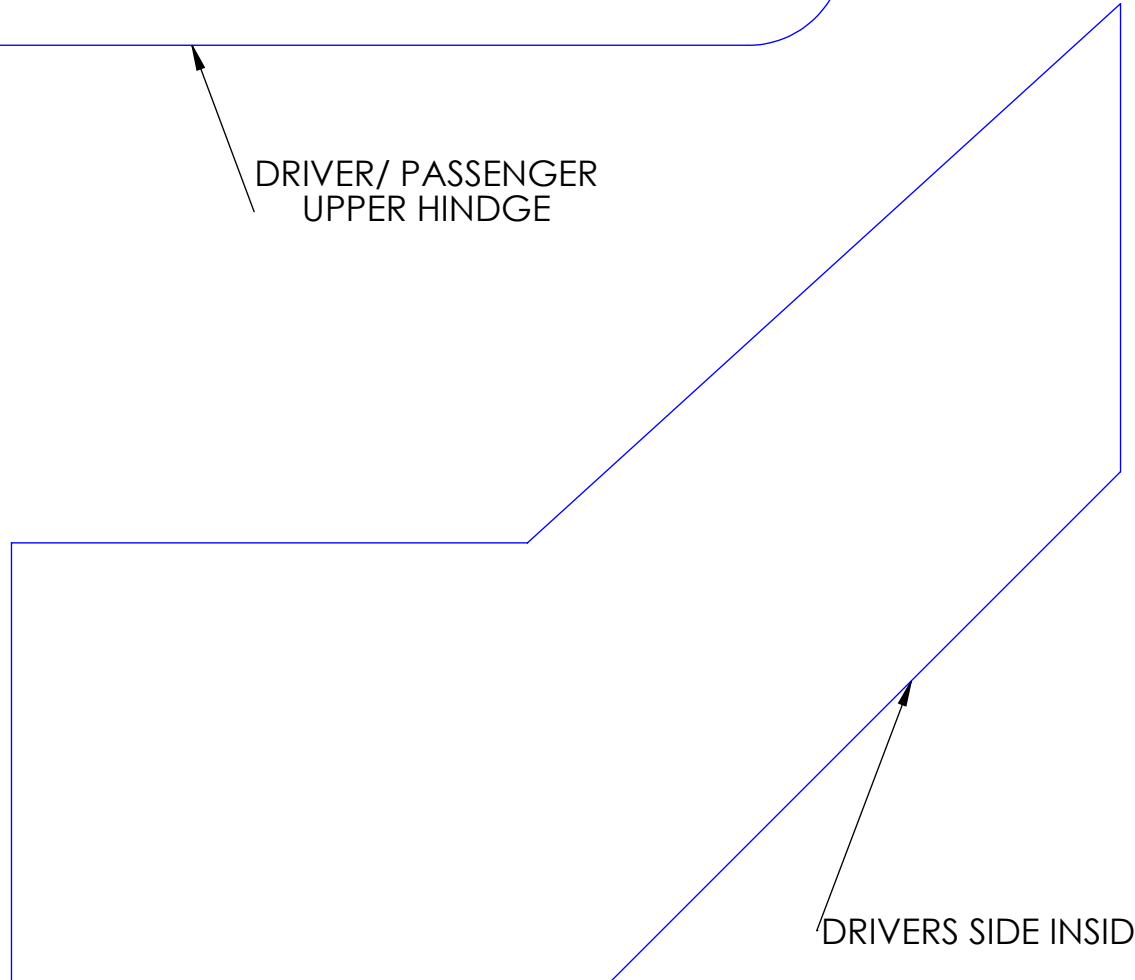
PASSENGER SIDE INSIDE



DRIVER/ PASSENGER
UPPER HINDGE



DRIVER/ PASSENGER LOWER HINGE



DRIVERS SIDE INSIDE