ALUMINESS
Build Your Own Adventure

SCAN ME

Aluminess Products Inc
Info@Aluminess.com
619-449-9930

REAR BUMPER INSTALLATION INSTRUCTIONS

2007-2018 Mercedes Sprinter

PN: 210288.5



Please read before beginning

- *Stainless steel hardware may bind together when tightening—It is recommended that you apply an anti-seize assembly lubricant to the threads of each bolt before assembly*
- *This installation requires two people*
- *Unless otherwise specified, refer to the general torque value at the end of the instructions for specified torque values*

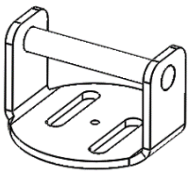
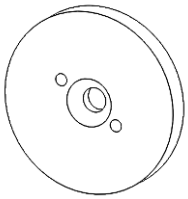
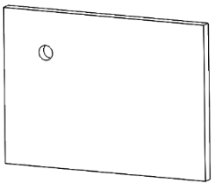
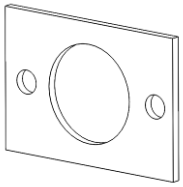
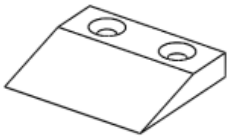
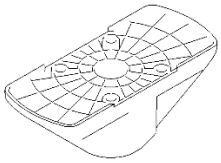
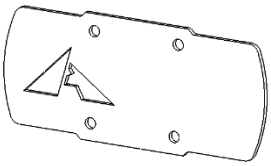
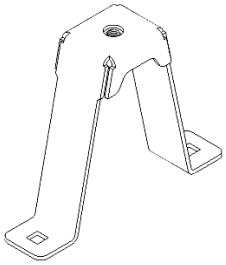
Required tools

- Standard and metric wrench set
- Allen wrench set
- Torx-head (6-point star) wrench set
- Flat-head screwdriver (used to remove stock plastic fasteners)
- Phillips-head Screwdriver

Included Hardware	*Quantity*
70185—7/16-14 x 4 ½" Hex Head Bolt, Grade 8	8
70056---7/16-14 Nylock Nuts, Grade 8	8
70057---7/16” Flat Washers, Zinc Plated	16
Upper Door Latch Assembly (pre-assembled with the below hardware)	
70030—3/8-16 x 1.5” Countersunk Head Bolt	2
70024---3/8-16 Nylock Nuts	2
70028---3/8” Flat Washers	2
70223—1/4-20 x .5” Button Head	4
70010 – Star Locking Washer	4
Universal Tire Mount Hardware	
70479 – 5/32” Hex, Tamper Resistant, Bit	1
401132 – ¼” Hex Bit Holder, Key Chain	1
Antiseize Packet, 2g	1
Senor Hardware	
70077 – 8-32 x ¾” Phillips Screw	8
70039 - 1/4" ID x 1" OD Washer	8
70002 - #8 Washer	8
70001 - 8-32 Nylock Nut	8

PN	*Name*	*Quantity*

Aluminess Products Inc
Info@Aluminess.com
619-449-9930

	Door Latch Pin	2	
350407	Door Latch Pin Mounting Plate	2	
351998	Inner Door Mounting Plate	2	
350425	Parking Sensor Bracket	4	
300975	Black Plastic Support Block (pre-installed)	2	
301629	Universal Tire Mount, Wheel Wedge	1	
351648	Universal Tire Mount, Wheel Wedge Cover	1	
351133	Universal Tire Mount, Bracket	1	

Installation instructions

Aluminess Products Inc
Info@Aluminess.com
619-449-9930

1. Your new Aluminess Rear Bumper will work with the factory plastic bumper. This is to ensure proper function of lane change sensors if your vehicle is equipped with them.
2. If you have a factory step bumper or a receiver you will need to remove them when you are completing the following steps to install the Aluminess Hitch. The plastic step on step bumpers will need to be trimmed off to fit your new Aluminess Bumper.
3. Your Aluminess bumper and hitch will most likely ship completely assembled. If it is not fully assembled then bolt the bumper to the hitch using the ½" hardware going from the back of the bumper into the hitch, and the 3/8" hardware going from the top of the bumper to the top of the swing arm plate.
    a. Ensure that you mount your license plate and license plate light *before* you install the bumper, as it will be near impossible to install the license plate after the bumper is installed.
4. With someone assisting you by holding up the trailer hitch and bumper assembly, mount the hitch to the frame using the 7/16" Bolts. If your Sprinter has the factory backing plate you can retain it and use it to shim the spacing of the bumper blades to fit snuggly between the vehicle's frame and the Aluminess bumper. It is important that the bumper fits snuggly between the frame rails for proper alignment of the swing arms once everything is tightened. If the bumper fits snuggly on the vehicle without the backing plates used as shims, the backing plate can then be used with the washers on the inside of the frame.
    a. The provided 7/16" bolts **must be used** to ensure proper alignment on the vehicle.
    b. Some sprinters have only 3 bolts supporting the hitch in which case a 4th hole will need to be drilled. Fasten down the provided bolt for this additional hole that needs to be drilled.
5. You may have to push the exhaust out of the way in order to slide the passenger side bracket assembly, so **make sure that the car is off, and wait an ample time after running the engine to ensure that the exhaust pipe is cold— otherwise you risk burning yourself!**



Figure 1: Aluminess Hitch with Factory Backing Plate on the Inside of the Frame

6. Make sure the bumper is slid as far to the rear of the vehicle as possible. You will also need to keep the bolts loose at this time so that the bumper can pivot forward and back.
7. You will now remove the interior door panel on the back door to gain access to the magnet mounting bolt. To do this gently pry around the corners of the plastic to pop it off the fasteners.



Figure 2: Door magnet bolt underneath door panels.

Aluminess Products Inc
Info@Aluminess.com
619-449-9930

8. With the door panels removed you will have access to the door magnet bolt on the Driver Side. Remove the door magnet.
9. Replace the magnet with the supplied Aluminess Latch Pin Mounting Plate that has the countersunk hole in the middle of it. It helps to have the latch pin attached to the mounting plate so you can align the pin horizontally when installing it on the door. This mounting plate will bolt through the door and the supplied Inner Door Mounting Plate.



Figure 3: Latch pin assembly mounted on rear door.

10. On the passenger side you will need to remove the torx bolts that hold on the door handle before you can access the door magnet bolt.



Figure 4. Torx bolts holding door handle on passenger side door

11. Once the latch pin is sitting horizontal you can snug the 3/8” bolt on the inside of the door.
12. You can now put the door panels back on the van door. If any of the fasteners were left in the door you will need to remove them and slide them into the door panel slots before you can snap the door panel back on.
13. With the Latch Pin in place on the door you can close the van doors and close the swing arms on the bumper.
14. Make sure the latch pin is loose on the Latch pin mounting plate so that it can slide up and down.
15. You can now pivot the bumper towards the van until the latch on the swing arm engages with the latch pin on the door. Once the latch is engaged with the latch pin the bumper is aligned correctly.
16. Tighten all of the 7/16” bolts that hold the hitch to the frame to 63 ft-lbs.
17. With 7/16” bolts tightened, the bumper is now locked in place. You can open the swing arms and tighten the latch pin that is mounted to the door.
18. If you have a hitch wiring electrical box on your vehicle, you can bolt it to the front face of the Aluminess bumper with the original hardware that mounted it to the stock hitch. There are two holes on either side of the provided receiver hitch. You can bolt the electrical box through one of these holes.
19. It is important to keep the latch holding the swing arm to the door when the vehicle is in motion. This upper support helps keep everything stable and solid.
20. When installing your tire to the tire rack swing arm (if applicable), be sure to place the tire so that it rests on the two support arms before tightening anything down.
21. The bumper is now installed—check the mounting hardware after 100 miles of driving to ensure that nothing has come loose due to vibration.

Tire Rack Installation:

Aluminess Products Inc
Info@Aluminess.com
619-449-9930

1. Loosely fasten the Tire Mount Bracket to the slotted channel, going through the bracket first, using the 3/8” carriage head bolts, washer, and nuts to mount. Reference Figure 1.

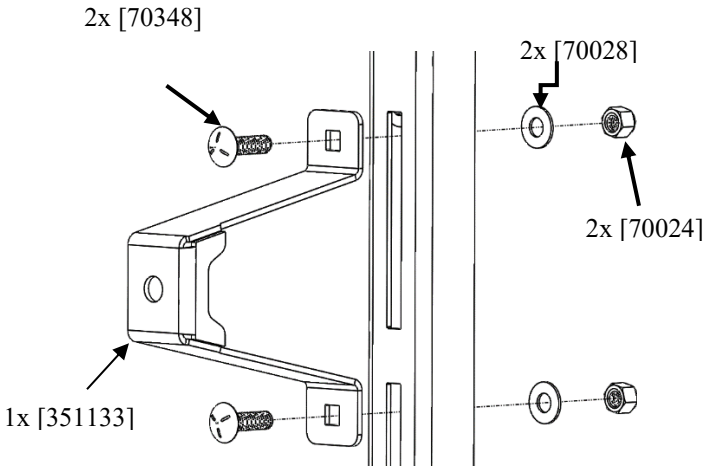


Figure 1: Mounting Tire Bracket

2. Place the mounting bracket in the correct location by placing your tire on the tire supports and then adjusting the bracket vertically until the center hub aligns with the center of the bracket.
3. Once the bracket is in place remove the tire and tighten the hardware holding the bracket in place.
4. Place the tire on the support stands and mount the wheel wedge, using the 5” hex head bolt, washer and star washer. Reference Figure 2 and 3.
   NOTE: Tighten down bolt until snug with wedge (it should be very hard/near impossible to rotate the wedge by hand. Once at this point tighten 2 more full rotations.

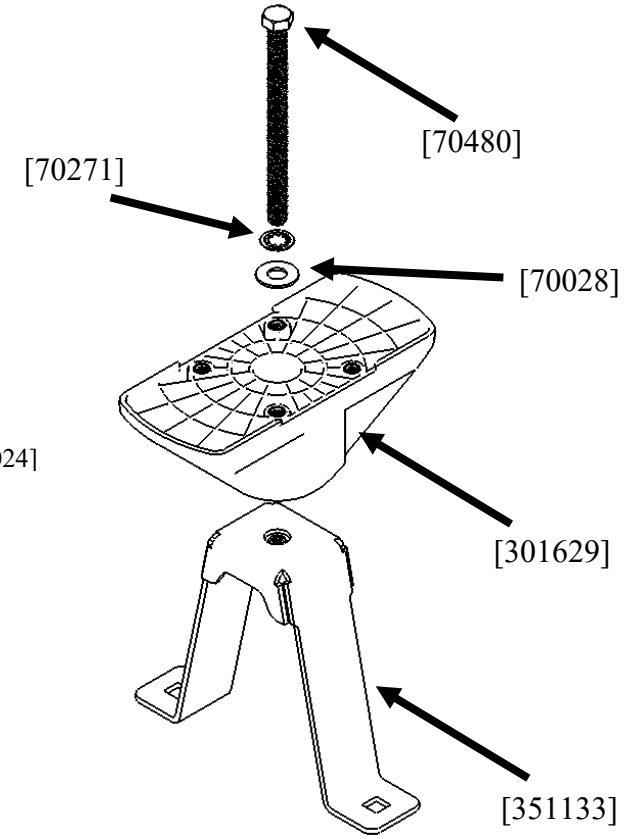


Figure 2: Wheel Wedge Assembly



Figure 3: Tire Mount Assembled

Aluminess Products Inc
Info@Aluminess.com
619-449-9930

5. [Optional] If desired, you can mount a Rotopax to the wheel wedge. Before installing the cover [Step 10] first, bolt the rotopax mount to the wheel wedge using the security bolts [70478], as shown below in figure 4. Then simply install the rotopax onto the mount. The cover will not be used if using the rotopax mount.



Figure 4: Rotopax Mount

6. Once everything is securely fastened, bolt the cover to the wheel wedge using the included special bit [70479], and bolts [70478]. Reference Figure 5.

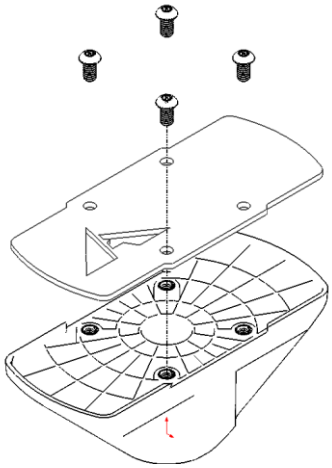


Figure 5: Wheel Wedge, Cover Mounting

7. Check mounting hardware after first 100 miles of driving and periodically after to verify hardware has not become loose from vibration.
8. Your new Aluminess bumper is now installed, enjoy!

TORQUE SPECIFICATIONS			
SIZE (SAE)	18-8 SS	GRADE 5 ZINC PLATED	GRADE 8 ZINC PLATED
6-32 (IN-LBS)	9.6	15.3	21.5
8-32 (IN-LBS)	19.8	29.5	41.7
10-24 (IN-LBS)	22.8	47.0	62.9
10-32 (IN-LBS)	31.7	48.0	68.0
1/4-20 (IN-LBS)	75.2	91	129
5/16-18 (IN-LBS)	132	188	265
3/8-16 (FT-LBS)	20	28	39
7/16-14 (FT-LBS)	31	44	63
1/2-13 (FT-LBS)	43	68	96
9/16-12 (FT-LBS)	57	109	226
SIZE (Metric)	18-8 SS	CLASS 8.8 ZINC PLATED	CLASS 10.9 ZINC PLATED
M5 X 0.8 (IN-LBS)	38.4	46.8	66.0
M6 X 1.0 (IN-LBS)	57.6	79.2	112.8
M8 X 1.25 (IN-LBS)	99.6	192.0	274.8
M10 X 1.5 (FT-LBS)	13.8	31.6	45.2
M12 X 1.75 (FT-LBS)	21.0	55.1	78.9
M14 X 2.0 (FT-LBS)	29.4	88.1	126.1

Aluminess Products Inc
Info@Aluminess.com
619-449-9930

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.

Aluminess Products Inc
Info@Aluminess.com
619-449-9930

Rev:	Date:	Description:	Changed by:
A	N/A	Initial Release	N/A
B	N/A	N/A	N/A
C	9/19/23	Added new logo, Torque spec table, torque spec note at beginning, and QR code	E. Isacowitz
D	1/2/24	Added parts and instructions for universal tire mount	k. Mesch
E	3/28/24	Changed tire carrier bracket bolt-on instructions to show bolts going through bracket first, and changed 301634 to 350616, updated QR code and logo	E. Isacowitz
F	12/20/24	Added pictures of the wheel wedge	M. Jansen
G	6/9/2025	Updated sensor hardware	E. Gornall