

REAR BUMPER INSTALLATION INSTRUCTIONS 2007-2018 Mercedes Sprinter



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*

Required tools

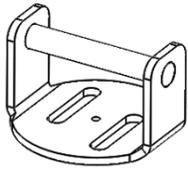
- *Standard and metric wrench set*
- *Allen wrench set*
- *Torx-head (6-point star) wrench set*
- *Flat-head screwdriver (used to remove stock plastic fasteners)*
- *Phillips-head Screwdriver*

Included Hardware

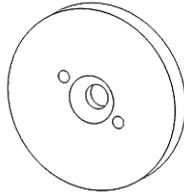
Quantity

• 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
○ 70009---1/4" Washer	4
○ 70223—1/4-20 x .5" Button Head	4
○ 70010 – Star Locking Washer	4
• Tire Plate Assembly (pre-assembled with the below hardware)	
○ 70029 – 3/8-16 x 1 ¼" Hex Head Bolt, SS	2
○ 70028 – 3/8" Flat Washers	8
○ 70024 – 3/8-16 Nylock Nut	6
○ 70704 – 2 ¼" x 3" Square U-Bolt, SS	2
• Antiseize Packet, 2g	1
• 70008---1/4"-20 Nylock Nut	1
• 70009---1/4" Flat Washer	2
• 70060---1/4"-20 x 1" Button Head Screw	1

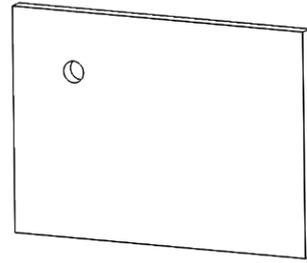
Included Parts/Subassemblies



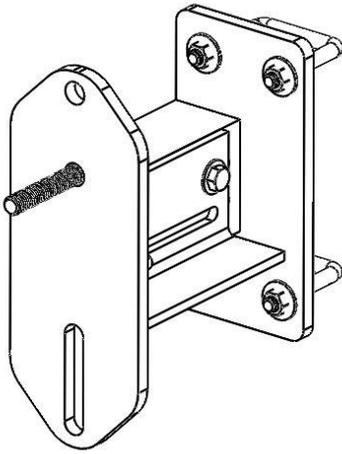
x2
Door Latch Pin



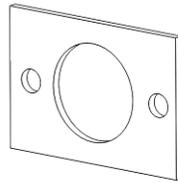
x2
Door Latch Pin Mounting Plate



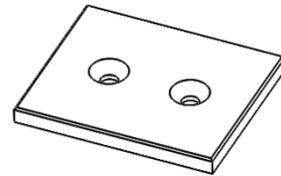
x2
Inner Door Mounting Plate



x1
Tire Plate Assembly



x4
Parking Sensor Brackets (if applicable)



x2
Black Plastic Support Block (pre-installed)

Installation Instructions

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 cargo step bumper or a receiver, you will need to remove them for this installation.
 - a. The plastic step on step bumpers will need to be trimmed off to fit your Aluminess Bumper.
3. Remove the factory hardware from your rear receiver hitch (if your van is equipped with one), and discard. **You will not reuse the factory hardware** to install your Aluminess bumper.
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 snug between the vehicle's frame and the Aluminess bumper.
 - a. If the bumper fits snug 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.
 - b. Leave all bolts loose for adjustment for the remainder of the install.
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 vehicle 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 Inside of Frame

6. 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.

7. With the door panels removed, you will have access to the door magnet bolt on the Driver Side. Remove the door magnet.



Figure 2. Door magnet bolt underneath door panels.

8. Replace the magnet with the supplied Door Latch Pin Mounting Plate. It helps to have the door 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.

9. On the passenger side, 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.

10. Once the latch pin is sitting horizontal you can tighten the 3/8" bolt on the inside of the door.

11. Reinstall the door panels 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.
12. With the Latch Pin in place, you can close the van doors and close the swing arms on the bumper.
13. Make sure the latch pin is loose on the mounting plate so that it can slide up and down.
14. 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.
15. Tighten all of the 7/16" bolts that hold the hitch to the frame to 63 ft-lbs.
16. With 7/16" bolts tight, the bumper is now locked in place. You can open the swing arms and tighten the latch pin that is mounted to the door.



Figure 5. Tow Plug with 1/4" button head screw.

17. If you have a hitch wiring electrical box on your vehicle, you can bolt it on either side of the Aluminess receiver hitch. Use the provided 1/4" hardware (See Figure 5) to fasten down.
18. 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.
19. 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 (see Figure 6)



Figure 6. Rest tire on both support arms (before tightening the lugs or U-bolts down).

20. The bumper is now installed—check the mounting hardware after 100 miles of driving to ensure that nothing has come loose due to vibration