

INSTALLATION INSTRUCTIONS

NOMAD™ SERIES REAR SWING OUT BUMPER



Application: 2014-18 Mercedes Sprinter Rear

Thank you for choosing Backwoods Adventure Mods for your bumper! We value our customers and the off road lifestyle.

Safety First! Thoroughly read all instructions and warnings before beginning the installation. Use your own judgment and, if necessary, have the installation done by a professional.

This bumper is intended for off-road use only. The owner assumes all liability for installation and use. Any sensor will have an altered view when installed in an after-market bumper.

Hardware Kits Included:

BW00-0018

BW00-0020

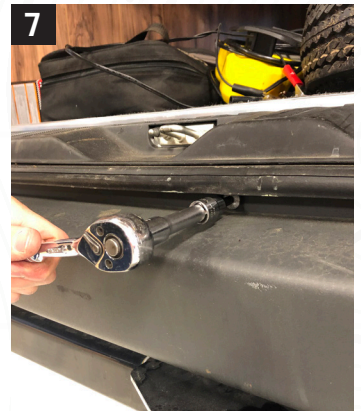
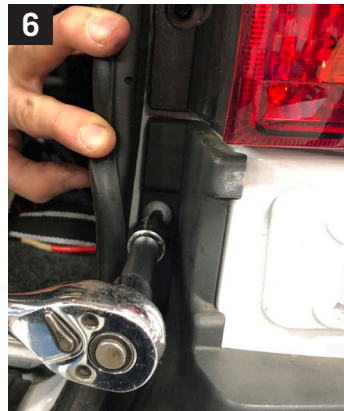
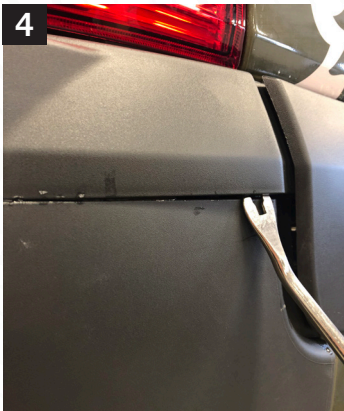
[Refer to last page for complete hardware list]

Remove OEM Bumper:

1. Disconnect battery (both if equipped) prior to performing any electrical work.
2. You may choose to remove your spare tire at this time, but it is not necessary.
3. Using a trim tool, unclip the rear side trim from the body. **(Picture 1)**
4. Using a small screwdriver or punch, press in on the center the plastic rivets that secure the small plastic cover (under the taillight) to the body. **(Picture 2 & 3)**



- Using a trim tool, separate the plastic cover (below the taillights) from the bumper cover. **(Picture 4)**
- Using a trim tool, remove the plastic rivets on the lower side of the bumper cover (Retain these rivets for step 9) and remove the plastic rivets on the underside of the bumper cover. **(Picture 5)**
- Remove the 7 torx bolts holding the OEM bumper cover to the body. These are located just under the rear door weather strip and become visible once you open the rear doors. **(Picture 6 & 7)**



- The outer sides of the bumper cover can now be removed (Picture 8), and then the center section of the bumper cover can be removed. If equipped with park assist sensors and/or blind spot assist sensors, take care to note the orientation and position of these sensors. If you choose to install them in the new bumper, they need to be installed exactly as they were in the OEM bumper. Disconnect any related wiring harnesses and set aside for installation.

****Note:** Results vary when moving the CPA sensor from the OEM location. Drive with care until you have verified that the system functions correctly. Adjustments may be necessary for the system to function correctly. We cannot guarantee our product is compatible with this system.

- Using the plastic rivets that you retained in step 6, secure the small plastic cover (below the taillights) back to the body. **(Picture 9 & 10)**



Install Your New Bumper:

1. If equipped with blind spot assist (BSA): Using the supplied brackets and hardware kit BW00-0018 sub 4, install the BSA sensors into the new bumper (**Picture 11 & 12**)



2. If equipped with park assist sensors (non swing out only), install the supplied plastic sensor housings in the bumper, then install the parking sensors into the housings in the same orientation and location as they were in the OEM bumper. If not equipped with sensors, install them into the bumper at this time using the manufacturer's hardware and instructions.
3. If you ordered backup lights, install them into the bumper at this time using the manufacturer's hardware and instructions.
4. If equipped, install the OEM trailer wiring plug with the hardware from BW00-0018 sub 3 (and remove the trailer plug bracket from the OEM hitch).
5. **[Swing Out Bumper Only]** Install the shocks onto the bumper. This can be done later, but it's easier now. There are (4) $\frac{5}{16}$ " nuts in hardware kit BW00-0020 sub 3. (**Picture 13 & 14**)



6. **[Swing Out Bumper Only]** Install the wear plate with hardware from kit BW00-0020 sub 3.
7. Working one side at a time, remove the 4 bolts that secure the OEM hitch (or the step, if equipped) to the frame. **(Picture 15)** Use the new long hardware from BW00-0018 sub 1 to install the bumper mount to the frame. Center the mounts fore/aft and tighten. Repeat on the other side. **(Picture 16)**



8. Install the bumper onto the brackets. **IMPORTANT: Team lift to avoid injury and/or damage to the van!** We recommend two people to hold the bumper (one on each side) and a third person to install the bolts from under the van. Take care not to scratch the van when placing the bumper in place. Using the hardware from BW00-0018 sub 2, secure the bumper to the mounts. **(Picture 17, 18. & 19)** Center the bumper side to side, adjust the height to the desired gap under the doors, and tighten the hardware.



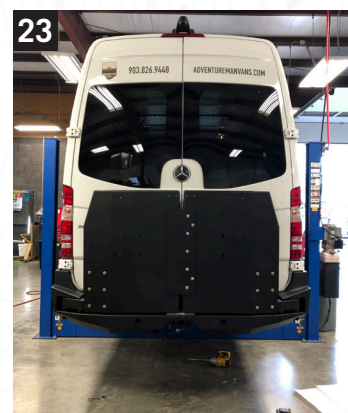
9. If the bumper needs to tilt forward or rearward, or be adjusted fore/aft, you can make these adjustments now using the bolts that secure the mounts to the frame.
10. Reconnect the wiring for the trailer plug, parking sensors, and blind spot assist sensors (if equipped). Wire the lights per the manufacturer's instructions.

This is the end of the installation for the rear, non swing out bumper.

11. Install the accessory plates onto the swing arms, one side at a time. We recommend one person to hold the plate and one person to install hardware. Do not tighten yet. Use the hardware from BW00-0020 sub 2. **(Picture 20)**
12. Adjust the accessory plates. Use a thick washer (or anything about $\frac{1}{8}$ " thick) to space the plates off the wear pad. This will account for the extra weight you'll be adding to the plates later. Adjust the plates so that they sit level and square. Have a helper stand back from the van and make sure they look good. Tighten the bolts when you're satisfied with the placement. Keep in mind, this is more difficult to adjust once the accessories, such as the toolboxes, are installed.

[The following set of instructions will result with the passenger side opening first, and the latch will be on the passenger side. If you prefer the driver door to open first, then install the latch setup on the opposite side.]

13. Install the overlap plate onto the passenger side opening accessory plate using the supplied $\frac{5}{16}$ " hardware from kit BW00-0020 sub 1. **(Picture 21, 22, & 23)**



14. Install the rubber bumper onto the driver side accessory plate using the $\frac{3}{8}$ " nut and washer from BW00-0020 sub 3.
15. Install the lower latch rod support into the bottom two holes in the passenger side plate using the supplied countersink bolts in BW00-0020 sub 1. Install the upper latch rod support into the 2 holes immediately above the overlap plate on the passenger side using the supplied counter sink bolts in BW00-0020 sub 1.
16. Install the lower latch catch (both upper and lower latch catches are similar - the lower catch is wider than the upper catch) into the 2 holes in the bumper just above the hitch (on the driver's side) using the supplied carriage bolts in BW00-0020 sub 1. Install the upper latch catch into the top 2 holes on the driver side accessory plate using the supplied carriage bolts in BW00-0020 sub 1.

17. Install the handle catch onto the support bracket and install the support bracket into the holes on the top of the passenger side accessory plate using the remaining hardware from BW00-0020 sub 1.
18. Drop one of the latches into the upper latch rod support. Drop the latch rod down through the latch, and install the other latch into the lower latch rod support from the bottom side. Tighten the set screws on both latches. Some up/down adjustment may be necessary for smooth operation.

19. Install the handle at the top of the latch rod and tighten the set screw. (Picture 24 & 25)



[Instructions for accessory installation are separate.]

Hardware Kit BW00-0018:

Sub 1 (Attach Mount to Frame)

- (8) M12x110
- (16) M12 Flat Washers
- (8) M12 Lock Nuts

Sub 2 (Attach Bumper to Mounts)

- (8) ½"-13x1.5" Bolts
- (16) ½" Flat Washers
- (8) ½"-13 Lock Nuts

Sub 3 (Trailer Plug Bolts)

- (4) #10x¾" Button Head Bolt
- (8) #10 Flat Washers
- (4) #10 Lock Washers
- (4) #10 Hex Nuts

Sub 4 (BSA Bolts)

- (8) ¼"-20x1" Button Head Bolt
- (16) ¼" Flat Washers
- (8) ¼"-20 Lock Nuts

Hardware Kit BW00-0020 (Swing Out Bumper Only):

Sub 1 (Latch)

- (4) ¼"-20x1" Carriage Bolts
- (4) ¼"-20x1" Countersink Bolt
- (2) ¼"-20x1.5" Countersink Bolt
- (28) ¼" Flat Washer
- (14) ¼" Lock Washer
- (14) ¼"-20 Hex Nut
- (7) 5/16"-18x1" Hex Bolt
- (7) 5/16"-18 Hex Nut
- (14) 5/16" Flat Washer
- (7) 5/16" Lock Washer

Sub 2 (Accessory Plates)

- (12) 7/16"-20x1.5" Bolt
- (24) 7/16" Flat Washer
- (12) 7/16" Lock Washer
- (12) 7/16"x20 Hex Nut

Sub 3 (Wear Pad and Stopper)

- (6) ¼"-20x1" Countersink Bolt
- (6) ¼" Flat Washer
- (6) ¼" Lock Washer
- (6) ¼"-20 Hex Nut