

Base Unit Installation Instructions

P/N 210573: 2019+ Mercedes Sprinter Rear Door Base Unit

Before you begin:

- *Stainless steel (SS) hardware may bind together when tightening — apply an anti-seize assembly lubricant to the threads of each SS bolt before assembly.*
- *Do NOT use an impact gun if this symbol is shown – doing so may strip or cross-thread bolts.*
- **Maximum load capacity is 200 lbs evenly distributed on base unit rack while travelling.**

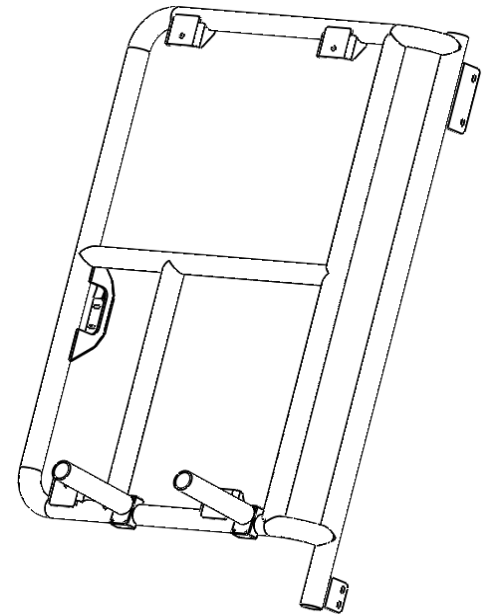


Required Tools:

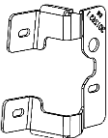
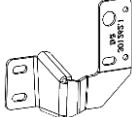

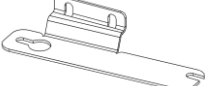
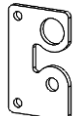


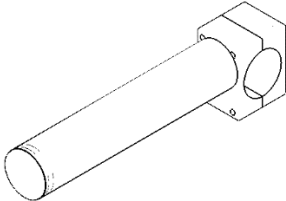
- Standard and metric wrench set
- Standard and metric socket set
- Torx bit set
- Isopropyl Alcohol
- Baby Soap or Dish Soap
- Clean Rag
- Tin Snips or Dremel Cut-Off Wheel
- Painter’s Tape (optional)
- Spray Bottle (optional)
- Heat Gun or Blow Dryer (optional)

Included Hardware:

P/N	Description	Quantity
70344	5/16"-18 x 1" Button Head Bolt, BLACK OXIDE, SS	4
70345	5/16" ID Washer, BLACK OXIDE, SS	8
70346	5/16"-18 Nylon-Locking Nut, BLACK OXIDE, SS	4
70124	M8-1.5 x 40 mm	6
70111	5/16" ID Split Washer	6
70079	#10-32 x 1/2" Philips head bolt, SS	4
70004	#10-32 Nylon-Locking Nut, SS	4
70060	1/4"-20 x 1" Button Head Bolt	4
70008	1/4"-20 Nylon Locking Nut	6
70009	1/4" ID SS Washer	8
70038	1/4" – 20 X 2 3/4", Phillips head Screw, SS	4
70039	1/4" x 1" Fender, Washer, SS`	4
70040	1/4" Countersunk, Washer, SS	4
70436	3/8" ID x 1" OD cushioning washer	2
70449	1/4"-20 SS weld nut	2
70246	Antiseize Bolt Lubricant Packet, 2g	1
301312.1	Impact Resistant Tape, upper hinge	1
301312.2	Impact Resistant Tape, lower hinge	1
301312.3	Impact Resistant Tape, center hinge	1
401021	Adjustable Door Limiting Strap	1
401022	Webbing Anchor, 1" Webbing	1



Additional Parts:

Part Number:	Description:	Quantity:	Picture:
301263.2 / 350650	Upper Hinge Bracket, Passenger	1 ea.	
301262.2 / 350652	Lower Hinge Bracket, Passenger	1 ea.	
N/A	Emblem Replacement (pre-assembled)	1 ea.	
301525 / 350663	Door Seam Bracket	1 ea.	
301257 / 350638	Hard Stop, Strap Bracket	1 ea.	
301278 / 350676	Hard Stop, Strap Clamp	1 ea.	
301258	M8 Machined Spacer	3 ea.	
350662	8" Tire Support Post	2 ea.	

Protective Tape Application:

1. Remove the Mercedes Emblem from the rear passenger door by unscrewing the two (2) torx bolts and peeling the adhesive off.

PRO TIP: Use a hair dryer or heat gun to allow the adhesive to come off easier.

2. Cut the supplied protective tape into shape using the templates at the end of the installation instructions to provide additional protection for the door. Each bracket is

designed to contact only at the door edges, but enough protective tape is provided to cover the entire overlapping area. Make sure that the sticky side is oriented correctly while cutting and applying (white backing towards vehicle). Reference Figures 1 & 2.



Figure 1: Protective Tape Locations on Door

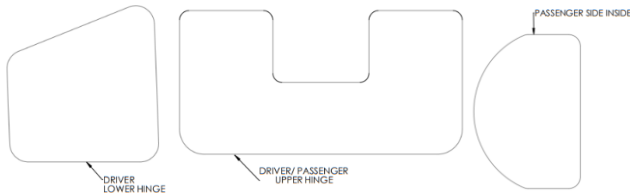


Figure 2: Template Examples (See End of Instructions for 1:1)

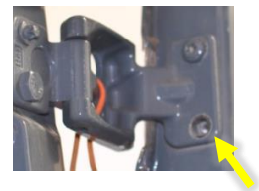
3. Dry-fit the corresponding brackets around the door in each location to find the desired position for the protective tape on the vehicle. Use painter's tape to outline application area of protective tape if desired.
4. Apply the protective tape to each location, one at a time, using the method described below (wet application technique).
5. 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.
6. Spray the surface thoroughly with water and do not wipe down the surface.
7. Remove the liner from the protective tape while spraying the adhesive side with water.
8. Apply the protective tape to the outside of the door at the upper hinge, lower hinge, or center latching location. On the hinge side of the door, leave approximately 1/2" of tape overhanging to be wrapped around the edge of the door

- (contact zone). Leave the tape overhanging for now.
9. Squeegee all air bubbles out starting at adhered edge. Press with your fingers first, and squeegee only if needed.
10. Wrap remaining protective tape around the door edge.
11. The adhesion process can be speed up by creating a 3:1 water-alcohol solution (3-parts water, 1-part alcohol) and spraying between the door and tape (lift section up and spray adhesive side).

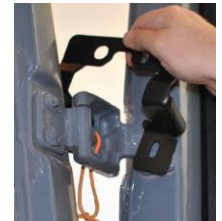
Bracket Installation:

12. Install the upper hinge bracket by:

- a. Remove only the lower torx bolt, *on the door*.



- b. Fit the upper hinge bracket over the hinge.



- c. Rotate into place.



- d. Fit the bracket over the upper torx bolt and rotate into desired position. Make sure the bracket is not contacting the sheet metal on the other side of the door, at either the top or the bottom of the bracket.



e. Install a M8 bolt and 5/16" split washer into the bottom hole. Tighten the bolt to ~17 ft-lbs (23 Nm).



f. Remove upper torx bolt and install a M8 bolt, 5/16" split washer, and M8 machined spacer.



g. Tighten down second bolt to ~17 ft-lbs (23 Nm)



13. Install the lower hinge bracket following the same procedure detailed in Step 12 and by installing over the hinge from the bottom up. Reference Figure 3.

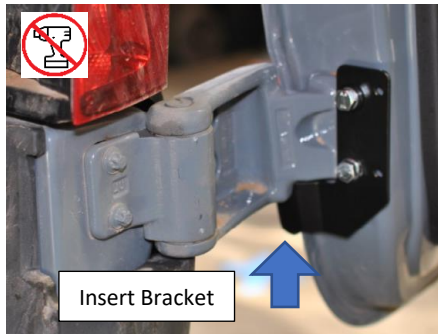


Figure 3: Lower Bracket Installed

14. Install the door seam bracket by completing the following steps. Note: be careful when inserting parts into the door – if they become dislodged, they can fall into the door and will be difficult to retrieve.

a. Remove the two (2) door plugs closest to the emblem.



b. Assemble the door seam bracket hardware in this order *exactly* – 1/4"-20 weld nut (projections towards rubber), 3/8" cushioning washer, 1/4" ID washer, 1/4"-20 x 1" bolt.



c. Insert one end of the weld nut through one of the door seam holes.



d. Rotate the weld nut through into to the door seam.



e. Fold the cushioning washer and insert into the hole. Note: trying to **remove** the cushioning washer once inserted is difficult; removal will likely destroy washer. Only insert once you're ready.



f. Once inserted, the washer should prevent the assembly from falling through – carefully verify.



g. Insert door seam bracket over the inserted hardware.



h. Slide the bracket down while aligning the two (2) holes at the location of the emblem (inserting hardware can be useful).



i. While applying slight backpressure, tighten the door seam bracket down.

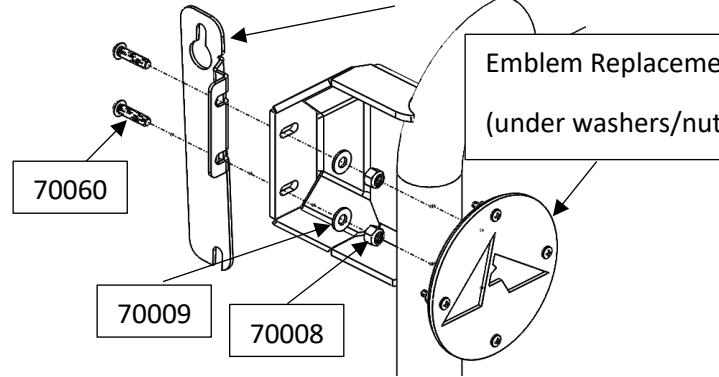


Figure 4: Emblem Replacement and Door Seam Bracket Installation

Base Unit Installation:

15. Install the base unit using the provided hardware:

- a. Loosely install all bolts through the brackets and base unit before tightening.
- b. Use the 5/16"-18 x 1" bolts for the upper and lower hinge brackets.
- c. Use 1/4"-20 x 3/4" bolts for the center bracket, bolting through the door seam bracket, the door seam, the emblem replacement bracket, and base unit (See Figure 4).

Door Seam Bracket

d. Tighten the upper and lower **hinge** brackets first.

16. With all bolts tightened, verify the hinge brackets and inner door brackets have appropriate clearances with the body while slowly opening and closing both rear doors. Adjust as needed.

Limiting Strap Installation (Optional):

17. Install the hard stop strap bracket onto the lower hinge by completing the following:

- a. Remove only the lower torx bolt, *on the vehicle*.



NOTE: A 8mm – 12 point socket may provide enough 'bite' to remove the two torx bolts. HOWEVER, do so at your own risk – using the improper tool for the job may result in stripping the bolts. Do NOT use an impact gun to remove these bolts.

- b. Install the bracket over the upper torx bolt with the provided M8 bolt and 5/16" split washer through the bottom hole. The larger hole must be on top. Tighten M8 bolt to ~17 ft-lbs (23 Nm).



- c. Remove the upper torx bolt and install a M8 bolt, 5/16" split washer, and **M8 machined spacer**.



- d. Tighten down second bolt to ~17 ft-lbs (23 Nm).

- 18. Install the adjustable door strap onto the hard stop bracket using the strap clamp to secure it. Feed the strap clamp through the largest eyelet in the strap and bolt it to the hard stop bracket. Direct the strap towards the lower hinge when tightening down the clamp. Reference Figure 5 and 6.

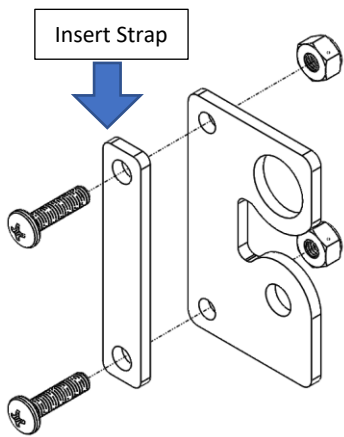


Figure 5: Adjustable Strap Clamp Assembly

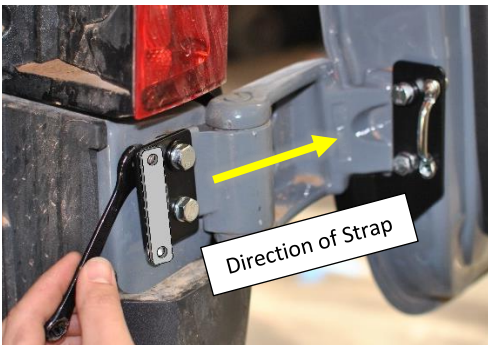


Figure 6: Strap Clamp Install onto Hard Stop Bracket

- 19. Open the door to the desired 'stopped' position, looking for clearance between the installed rear door product and the side of the van. Keep in mind additional

tires/boxes/window flares that may be placed later.

- 20. Determine the closest available sewn loop on the adjustable strap – move to shorten the strap if in-between loops.
- 21. Install the webbing anchor onto the lower hinge bracket. Be sure to first thread the anchor through the desired position on the adjustable strap (reference Figure 7 - 8).

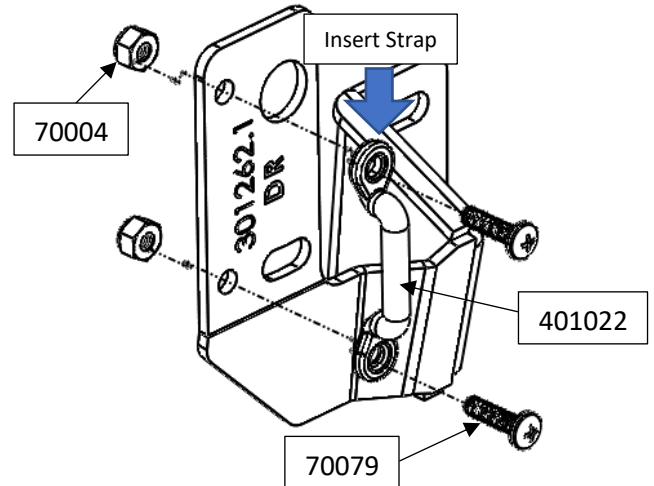


Figure 7: Installation of Webbing Anchor onto Bracket



Figure 8: Adjustable Limiting Strap Installed

- 22. With the strap fully installed, verify clearances at the fully opened position between the product and the side of the van. Also verify clearances at the lower hinge as the door is slowly.
- 23. If mounting a box is desired, grab your included 8" support posts [350662]. Unscrew the bolts holding the pipe clamp together, and place the

posts facing out on the bottom of the pipe of the base unit. Adjust the posts so that they are level with the van and evenly spaced over where you want the box to sit. Tighten the pipe clamp support posts down.

24. Mark and drill 5/16" holes through the back of your box into the cross pipe in the middle of the base unit, and through the bottom of the box into the support posts. Secure box to rail using the hardware shown in figures 9 and 10 below.

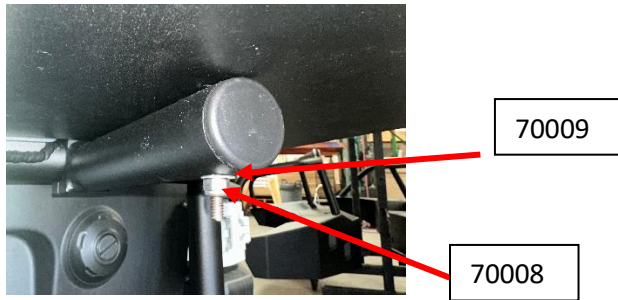


Figure 9: support post mounting

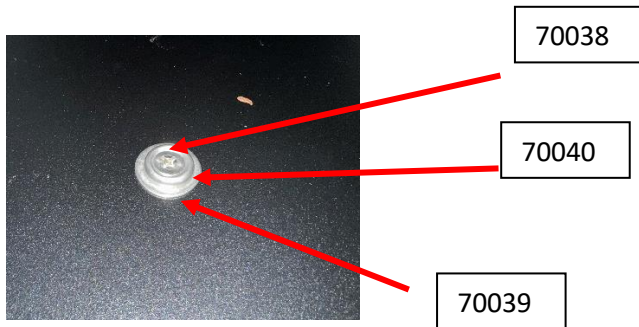


Figure 10: inside box

25. Complete the installation of any additional Aluminess products by following the separately provided instructions.
 - a. Vertical Bike Rack System (PN 210551)
 - b. Horizontal Bike Rack System (PN 210552)
26. Check all mounting hardware after first 100 miles of driving and periodically after to verify hardware has not become loose from vibration.
27. Your new Aluminess Base Unit is now installed, enjoy!



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