

Front Bumper Installation Instructions

P/N 210505: 2019+ Mercedes Sprinter Front Bumper

Before you begin:

- *This product is compatible with the Sprinter 1500, 2500, and 3500*
- *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
- Flat head screwdriver
- Hammer
- Putty knife
- Razor blade or box cutter
- Painter’s masking tape

Included Hardware:

P/N	Description	Quantity
70124	M8-1.25 x 40mm bolt	8
70101	M8-1.25 Nut	8
70020	5/16" SS washer	8
70111	5/16" split locking washer	16
70036	½"-13 x 1- ½" grade 8 bolt	4
70035	½" washer	8
70033	½"-13 nylon-locking nut	4
70094	¼"-20 x ¾" SS button head bolt	4
70060	¼"-20 x 1" SS button head bolt	4
70009	¼" SS washer	16
70008	¼"-20 nylon-locking nut	8
70246	Antiseize bolt lubricant packet, 2g	1
n/a	Zip ties	2

Additional Parts:

Description

Quantity Picture

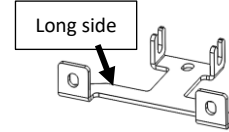
Air temperature sensor bracket

1



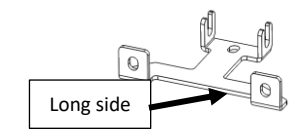
Steel mounting bracket, driver side

1



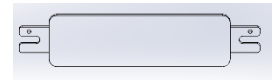
Steel mounting bracket, passenger side

1



Fairlead cover (pre-installed)

1



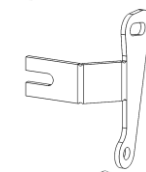
Collision assist sensor bracket, driver side

1



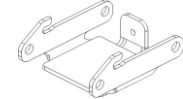
Collision assist sensor bracket, passenger side

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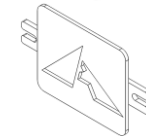
Collision assist sensor carriage

1



Front radar sensor window (pre-installed)

1



Fender Plastic Support Brackets

2



Stock Bumper Removal:

1. Open and secure the hood.
2. Remove the three (3) torx screws across the top of the grille; reference Figure 1.



Figure 1: Grille Screws

3. Pull the grille slightly away from the vehicle and unclip the grille in the six (6) indicated locations

(see Figure 2 & 3). Once all tabs have been released, the grille can be removed.

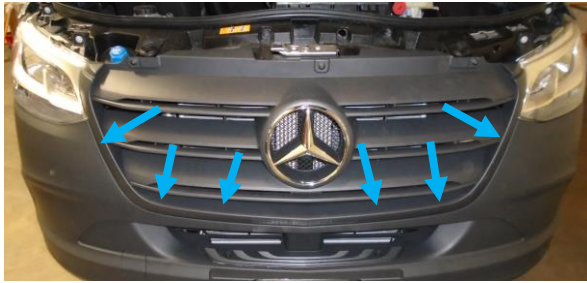


Figure 2: Grille Tab Locations



Figure 3: Grille Tab Close Up

4. Remove the two (2) torx bolts near the top of the stock bumper seen with the grille removed. Reference Figure 4.

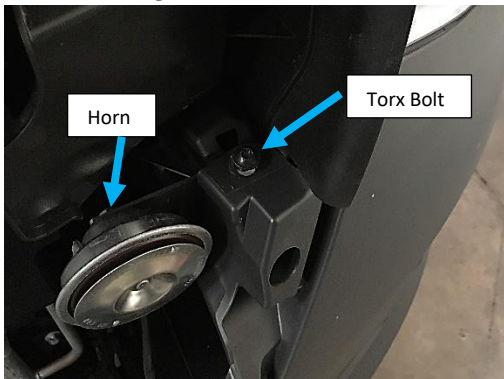


Figure 4: Torx Bolts Near Top of Stock Bumper

5. Remove the two (2) plastic caps on the front bumper step to reveal two (2) torx bolts. Do not yet remove torx bolts (reference Figure 5 & 6).



Figure 5: Plastic Cap Location



Figure 6: Front Bumper Step with Plastic Cap Removed

6. Remove the six (6) plastic rivets on the inside of each fender well. Gently pull the center of the rivet out, then remove entire rivet. Reference Figures 7-9.

PRO TIP: Access to the rivets is much easier by turning the vehicle's wheels.



Figure 7: Plastic Rivets on the Inside of the Wheel Well



Figure 8: Plastic Rivets on Underside of Bumper



Figure 9: Example of the Plastic Rivet

7. Pull gently on the corner of the plastic bumper directly away from the vehicle. Start in the corner nearest the wheel well working towards the center. Repeat for other side of vehicle. Reference Figure 10.



Figure 10: Removing Plastic Bumper

8. Remove the final two (2) torx bolt holding on the stock bumper on the bumper step as shown in Figure 6.
9. Remove stock front bumper by pulling directly away from vehicle being sure to disconnect any sensors that are attached.
10. Remove the horn (seen in Figure 4).

11. Remove the plastic shrouds on either side of the radiator by depressing the indicated tab and sliding each shroud up. Repeat for both driver and passenger sides. Reference Figure 11.

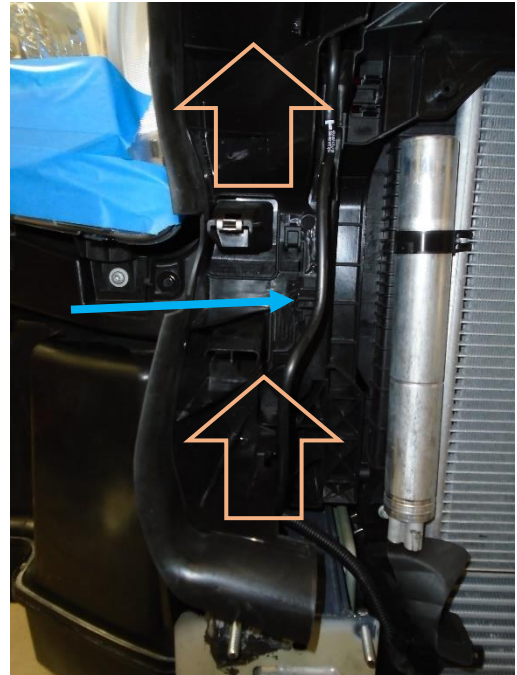


Figure 11: Plastic Shroud Removal

12. Remove the collision prevention sensor plastic bracket by unscrewing the two (2) torx bolts near the top of the radiator.
13. Remove the sensor from the plastic bracket.
14. Remove the eight (8) bolts holding the stock steel bumper in place using a 13mm wrench as shown in Figure 12. CAUTION: Once all the bolts are removed, the bumper may fall if not properly supported.



Figure 12: Four (4) of the Frame Bolts Holding the Stock Steel Bumper to the Vehicle.

- Remove the stock steel bumper using a putty knife and a hammer if the bumper does not come loose after removing the bolts in the previous step. The frame sealant may cause the steel bumper to stick to the frame. See Figure 13. CAUTION: once the seal is broken, the bumper may fall if not properly supported.



Figure 13: Releasing the Stock Steel Bumper from the Vehicle Using a Putty Knife and Hammer

- Lower the air flow skirt by unclipping each side and pressing the skirt down as shown in Figure 14-15. Some of the hoses may need to be adjusted.

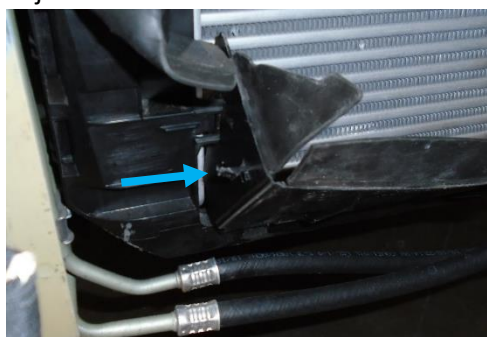


Figure 14: Air Flow Skirt Clip



Figure 15: Air Flow Skirt Pressed Down

Front Bumper Installation:

- Install the eight (8) provided M8 bolts with eight (8) split washers through the frame, from back to front, creating studs for the bumper to mount onto. Reference Figure 16.



Figure 16: M8 Bolts Installed

- Loosen the three (3) bolts holding on each of the black steel crossmember underneath the radiator. The two (2) bolts on the sides of the frame may not be able to be fully removed, but the bottom bolt must be removed. (see Figure 17).

PRO TIP: Only uninstall one side at a time to make re-installation easier.



Figure 17: Engine Crossmember Bracket Factory Bolts (Driver Side Shown)

- Install the steel mounting bracket (see "Additional Parts" section) by sliding it into place on the correct side of the vehicle **over** each of the factory crossmember brackets.
- Reinstall the factory hardware through the supplied mounting brackets and through the factory crossmember brackets as applicable. Do not tighten hardware yet; allow the mounting bracket some play until entire bumper is mounted. Reference Figure 18.

NOTE: If installing on a Sprinter 3500, one bolt on the bottom of the mounting bracket is required. Ensure to properly install all the bolts from the frame to the back of the bumper.

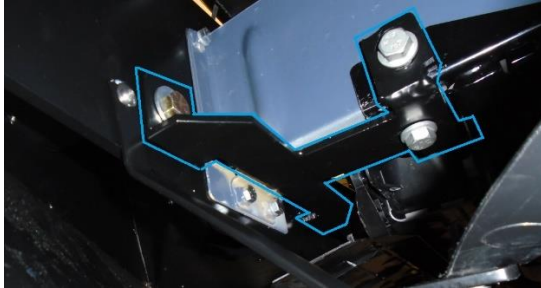


Figure 18: Installed Mounting Bracket

21. Press the air flow skirt down past the mounting brackets and adjust the hoses as needed.
22. Cut the plastic shrouds to clear around the new bumper as shown in Figure 19.



Figure 19: Plastic Shrouds Cut (left) and Uncut (right)

23. Mask off edges of headlight and front quarter panels using painter's tape to protect the vehicle during bumper installation as shown in Figure 20.

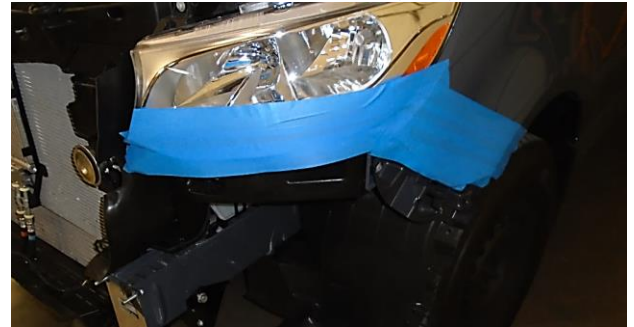


Figure 20: Masking of Headlight and Quarter Panel

Front Radar Sensor Installation:

24. Install the front radar sensor into the sensor carriage by locating the two (2) protrusions on each side and rotating the sensor back into the carriage as shown in Figure 21. Depress the tab on top to secure the sensor.

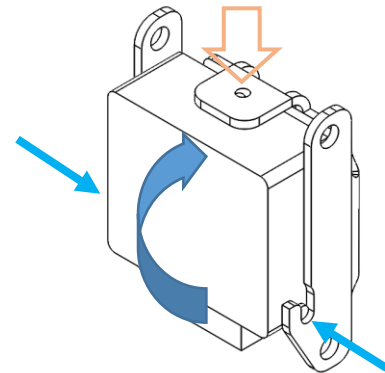
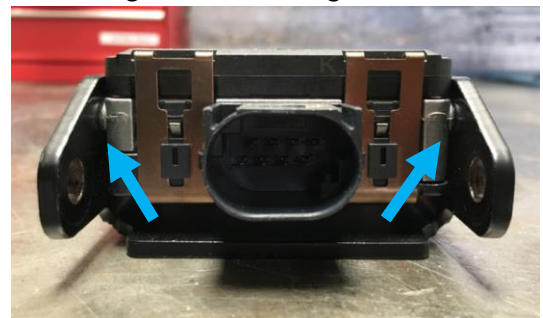


Figure 21: Sensor Assembly

25. Verify proper engagement of the sensor with the carriage as shown in Figure 22.



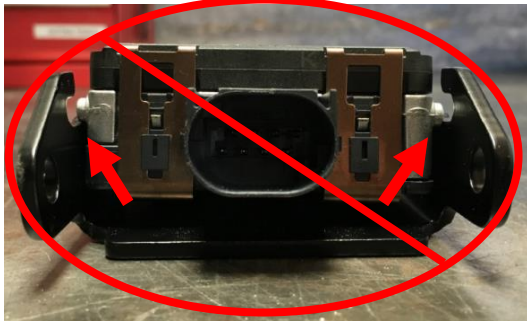


Figure 22: Acceptable (top) and Unacceptable (bottom) Sensor Engagement

26. Add zip tie(s) around sensor and sensor carriage for added stability. Reference Figures 23-25.



Figure 23: Feed a Zip Tie Between the Sensor and Sensor Carriage (Behind Sensor)



Figure 24: Pull the Zip Tie(s) Around the Front of the Sensor Connection



Figure 25: Tighten Zip Tie(s) Around Top of Sensor Carriage

27. Install sensor brackets onto the sensor carriage using the ¼"-20 x ¾" bolts, washer, and nuts provided. Reference Figure 23.

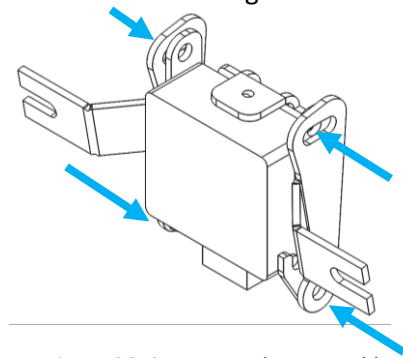


Figure 26: Sensor Bracket Assembly

28. Install sensor bracket assembly into front bumper utilizing the bolts holding the sensor window as shown in Figure 27.

PRO TIP: Make sure the sensor is level ($\pm 1^\circ$) and as perpendicular to the road as possible ($\pm 1^\circ$) while installing into the bumper – this will make re-calibrating the front sensor much easier.

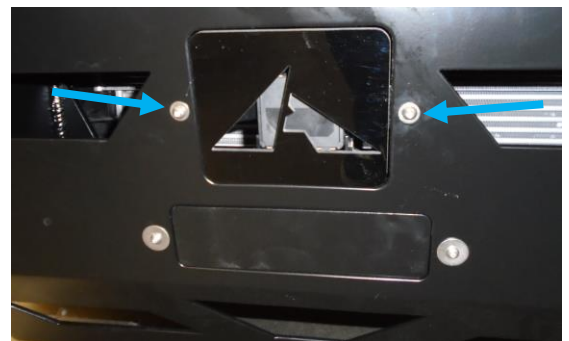


Figure 27: Collision Sensor Installation

29. Install winch into bumper if applicable.

30. Lift the bumper onto the pre-installed bolts using two people. Ensure the air flow skirt seals underneath the winch mounting plate.
31. Connect front radar sensor through the back of the bumper.
32. Align the bumper onto the vehicle to the desired height using the slots in the back of the bumper.
33. Install washer, split washer, and M8 nuts onto the eight (8) pre-installed bolts.
34. Tighten two (2) of the M8 bolts, one (1) on each side, to hold the bumper in desired position.
35. Install ½"-13 bolts with washers through the mounting brackets and through the back of the bumper. Install a washer and nut onto each bolt.
36. Adjust bumper into final position.
37. Tighten all hardware:
 - a. ½"-13 bolts
 - b. M8 bolts
 - c. Factory bolts into frame at crossmember.
38. Install the air temperature sensor bracket onto upper, inner M8 bolt on the driver's side and insert the air temperature sensor into the slot facing into the light hole (reference Figure 28).



Figure 28: Air Temperature Sensor Installed onto Back Plate of Bumper

39. Tuck fender plastic underneath outer edges of new front bumper.
40. Install the fender plastic supports. Attach to the back of the front bumper and to the inner most plastic rivet hole in fender plastic using the remaining ¼" hardware. Reference Figure 29.

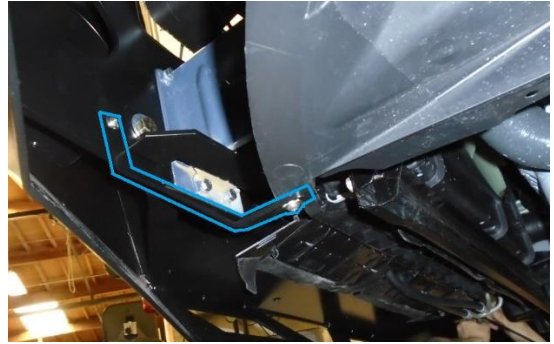


Figure 29: Fender Plastic Support Brackets

41. Re-install the grille onto vehicle using the vertical tabs on bumper to locate grille tabs shown in Figure 3 and 30.



Figure 30: Grille Tabs Installed

42. Re-install the three (3) torx bolts to secure the grille shown in Figure 1.
43. Enjoy your new Aluminess bumper!



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