

97Light Bar Installation Instructions

P/N 210510: 2019+ Mercedes Sprinter Light Bar

NOTE: THIS PRODUCT IS NOT COMPATIBLE WITH THE SPRINTER 3500 DUALY

Before you begin:

- *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:

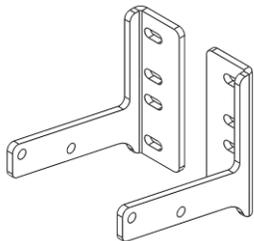
- Standard and metric wrench set
- Standard and metric socket set
- Phillips head screwdriver
- Standard Allen set

Included Hardware:

P/N	Description	Quantity
70008	¼-20 SS Nylock Nut	6
70009	¼" SS Flat Washer	22
70019	5/16-18 SS Nylock Nut	4
70020	5/16" SS Flat Washer	24
70060	¼-20 x 1" SS Button Head Bolt	2
70095	M8-1.25 x 20mm 8.8 Steel Hex Head Bolt	4
70102	M8-1.25 x 65mm Fully Threaded 8.8 Steel Hex Head Bolt	2
70111	5/16" Zinc Plated Split Lock Washer	4
70152	5/16-18 x 1 ¼" SS Hex Head Bolt	4
70094	¼-20 x ¾" SS Button Head Bolt	14
70266	¼-20 x ½" SS Barrel Nut	10
n/a	Zip ties	2



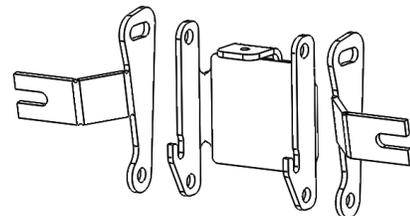
Additional Parts:



x1 Set
'19 Sprinter Light Bar
Mounting Brackets



x2
'19 Sprinter Light Bar
Front Step Straps



x1 Set
'19 Sprinter Light Bar
Sensor Bracket Assembly

Sensor Disassembly: (only applicable if you have front radar sensor)

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



Figure 1: Front Grille Screw Locations

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.

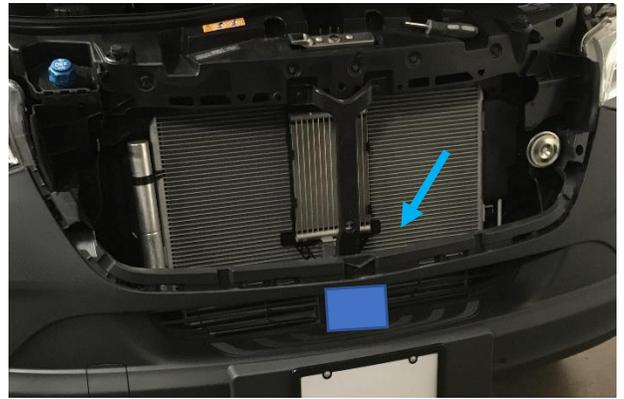


Figure 2: Grille Tab Locations



Figure 3: Grille Tab Close Up

4. Disconnect and remove the front radar sensor from the stock location. Reference Figure 4 for location.



5. Pull the sensor connection out of the bumper to ensure it will reach the light bar.

Installation Instructions

6. Assemble your Light Bar from the 3 individual pieces it was sent in, reference Figure 4.

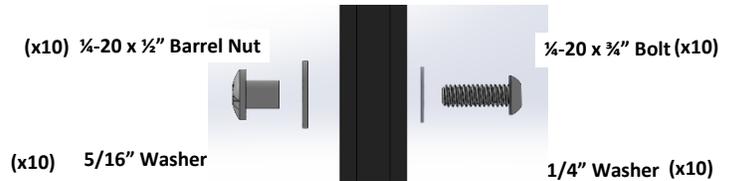


Figure 4: Light bar assembly from 3 individual pieces.

7. Install the Light Bar mounting brackets to the attachment points shown in Figure 5 & 6. You will need to remove the (4) mounting bolts to the lower vehicle crossmember, then install the mounting brackets on top of the crossmember using the provided M8-1.25 x 20mm bolts.

PRO TIP: Remove bolts only from one side at a time, so that the crossmember stays in place during installation.

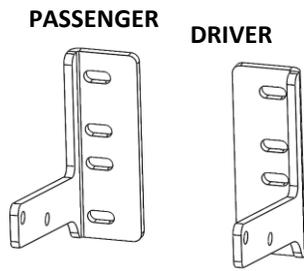


Figure 5: Mounting Brackets

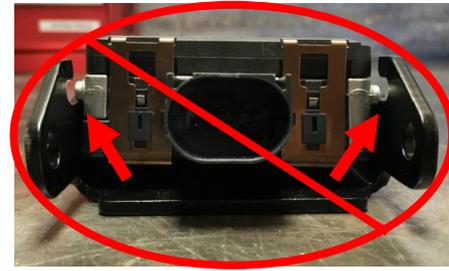


Figure 8b: Unacceptable Sensor Engagement

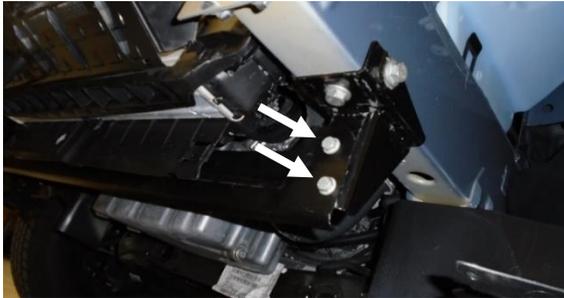


Figure 6: Mounting Location on Vehicle of Mounting Brackets

8. Install collision sensor into collision sensor carriage by locating the two (2) protrusions on each side and rotating the sensor back into the carriage as shown in Figure 7. Depress the tab on top to secure the sensor.

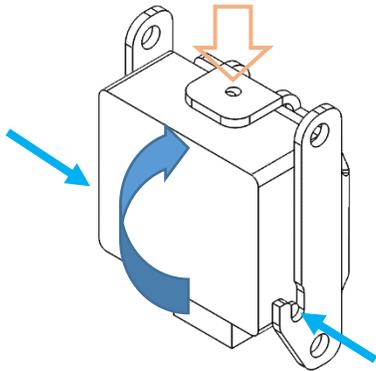


Figure 7: Sensor Assembly

9. Verify proper engagement of the sensor with the carriage as shown in Figure 8a & 8b.

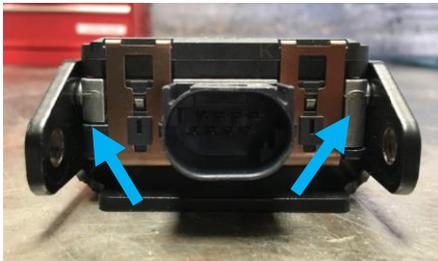


Figure 8a: Acceptable Sensor Engagement

10. Add zip tie(s) around sensor and sensor carriage for added stability. Reference Figures 9-11.



Figure 9: Feed a Zip Tie Between the Sensor and Sensor Carriage (Behind Sensor)



Figure 10: Pull the Zip Tie(s) Around the Front of the Sensor Connection



Figure 11: Tighten Zip Tie(s) Around Top of Sensor Carriage

11. Install collision sensor brackets onto the sensor carriage using the 1/4"-20 x 3/4" bolts, washers, and nuts provided. Reference Figure 12.

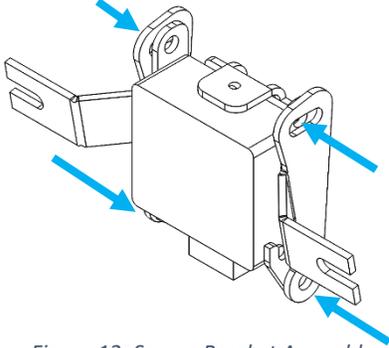


Figure 12: Sensor Bracket Assembly

12. Install sensor bracket assembly into front bumper utilizing the bolts holding the collision window as shown in Figure 13.

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 light bar – this will make re-calibrating the front sensor much easier.

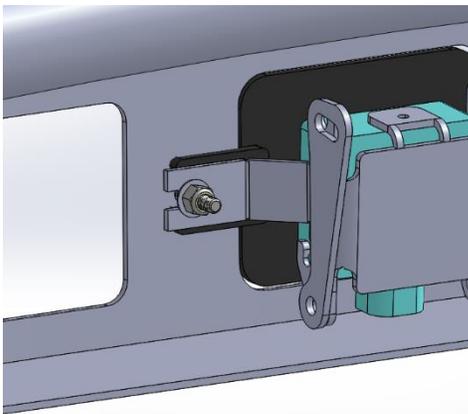


Figure 13: Front Radar Sensor Installation

13. Install aftermarket lights into Light Bar, if applicable.
14. Install Light Bar onto mounting brackets and bolt down using included 5/16-18 x 1 1/4" bolts. Reference Figure 14.

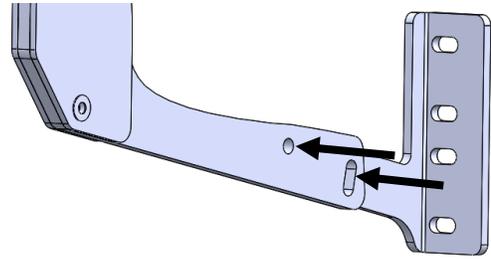


Figure 14: Light Bar Installation onto Brackets

PRO TIP: Only keep mounting bolts hand-tight at first; clock the light bar forward to gain better access to wiring for lights and collision sensor, then clock the light bar back into desired position and tighten down.

If you are installing the Light Bar with a Front Receiver and Winch, skip to step 16. If you are not running a Winch at this time, proceed to step 15.

15. Mount both front step straps to the Light Bar using the 1/4-20 x 1" bolts, then bolt down to the vehicle using the supplied M8-1.25 x 65mm bolts.
16. If you are installing with a Front Receiver and Winch, mount the Light Bar blades to the Front Receiver using the provided right angle straps through the cutouts in your front bumper (see front receiver installation instructions for more detail on this).

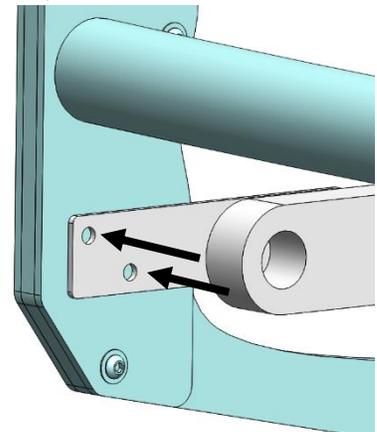


Figure 15: Mounting Straps to Front Receiver with Winch

17. Verify all mounting points are tight and snug, and enjoy your new Aluminess Light Bar!

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