



**FERRATA LIGHT BAR
FOR VS30 SPRINTER (2019+)**

GENERAL INFORMATION

The AO Ferrata Light Bar is designed to be installed on the VS30 MB Sprinter (2019+). The installation process requires drilling into the bumper cover. We recommended reading these instructions in their entirety before starting the installation process.

PARTS INCLUDED

- 1 x AO Ferrata Light bar
- 2 x AO Light Bar Brackets (Left & Right)
- 6 x Locating Pins
- 6 x 3/8" Allen Bolts
- 6 x 3/8" Washers
- 6 x 3/8 Spacers

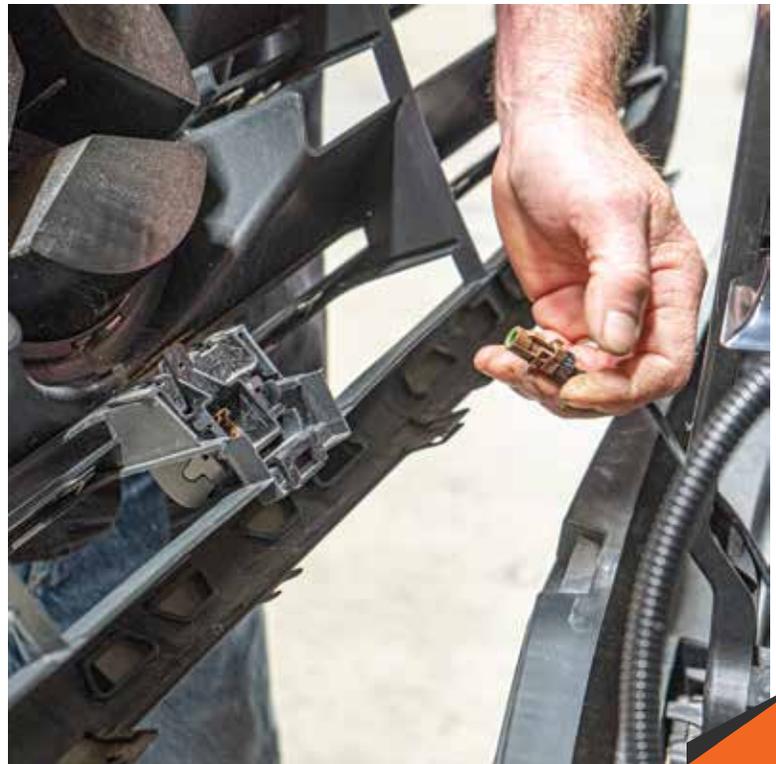
TOOLS NEEDED

- Torx Driver (T-25, T-30, T-45)
- Allen Wrench 7/32"
- Wrench and Socket Set (10mm, 13mm, 18mm)
- Drill Bit (3/16", 7/8")
- Panel Clip Removing Tool
- Red Thread Locking Compound

1. Use a T-25 torx to remove the 3 bolts attaching the top of the grille.



2. Pull firmly along the lower portion of the grille to remove it. Unplug the front camera by pushing in on the clip and gently pulling the cable from the back of the camera.



3. Use a panel clip removing tool to remove the 6 push pins attaching the driver's side forward-facing front inner fender liner. Repeat this step on the passenger's side of the vehicle.

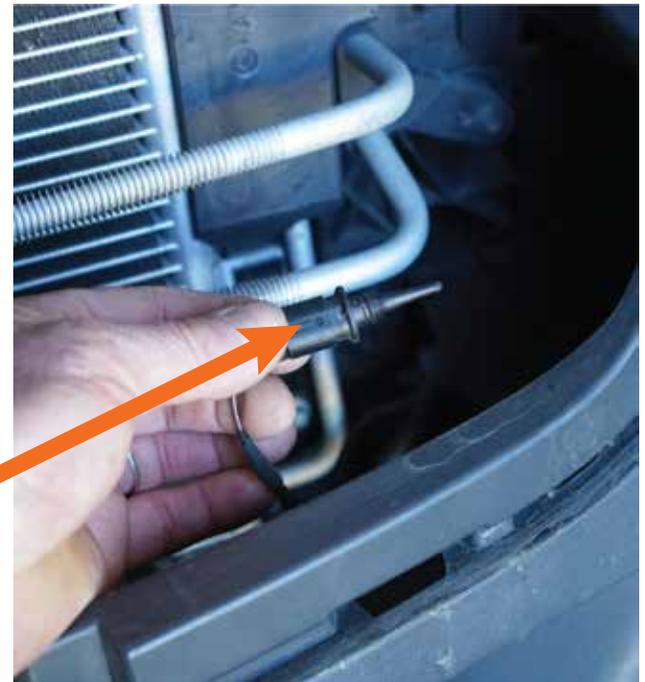
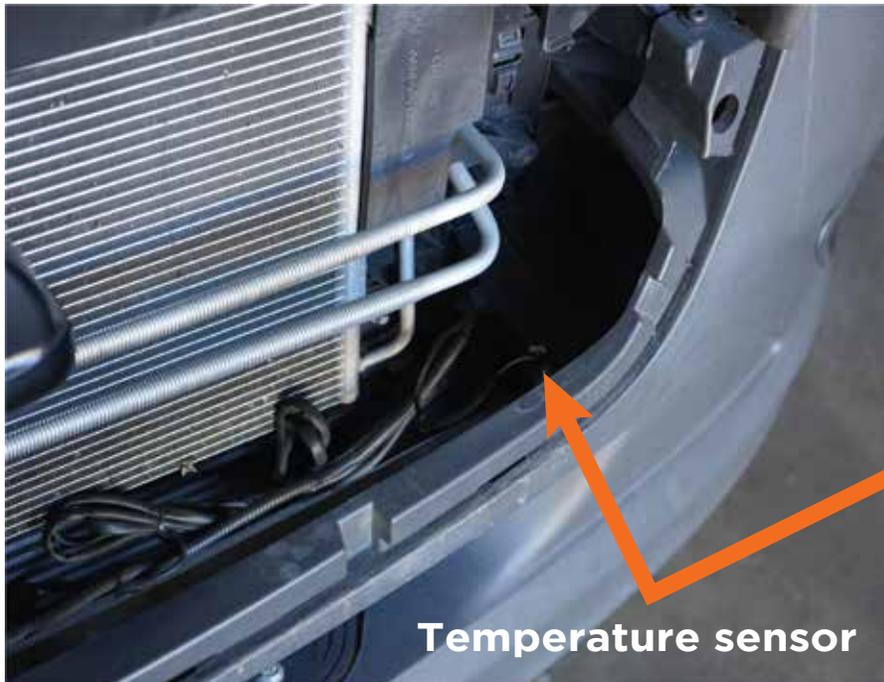


4. Use a T-30 torx to remove the 2 bumper bolts located next to the radiator support.

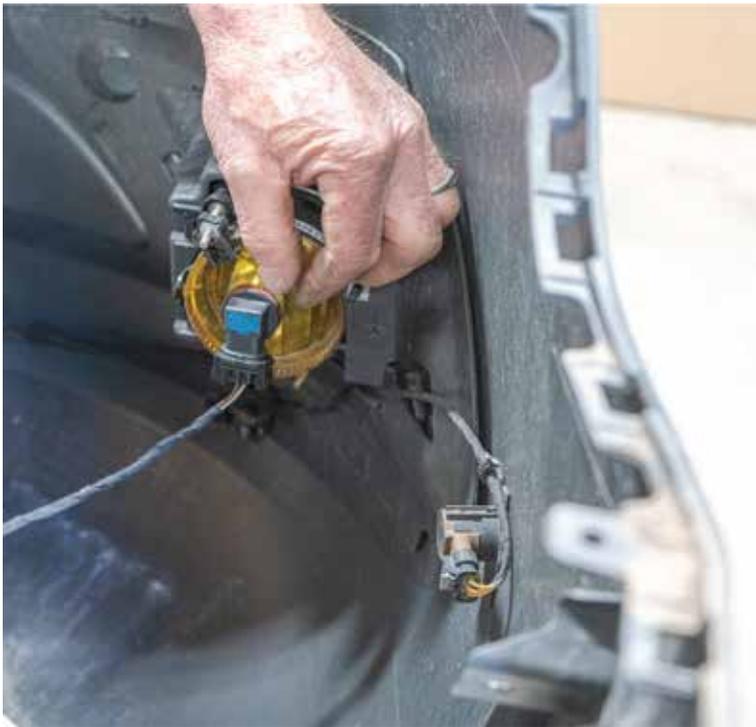


5. Remove the temperature sensor found on the top of the driver's side corner of the bumper cover. Use a T-45 torx to remove the 2 bolts in the front step. Pull along the edges of the bumper cover to remove it from the vehicle. Set the bumper cover aside.

***Note: If equipped, disconnect fog lights and parking sensors before completely removing the bumper. See next page for removal instruction.*



****Note: Disconnect the park assist harness by pulling the white tab away and pressing it down.*



6. Remove the 2 T-25 Torx screws holding the “t-shaped” Distronic cruise control sensor bracket. Remove the bracket from the crash bumper and set it aside.



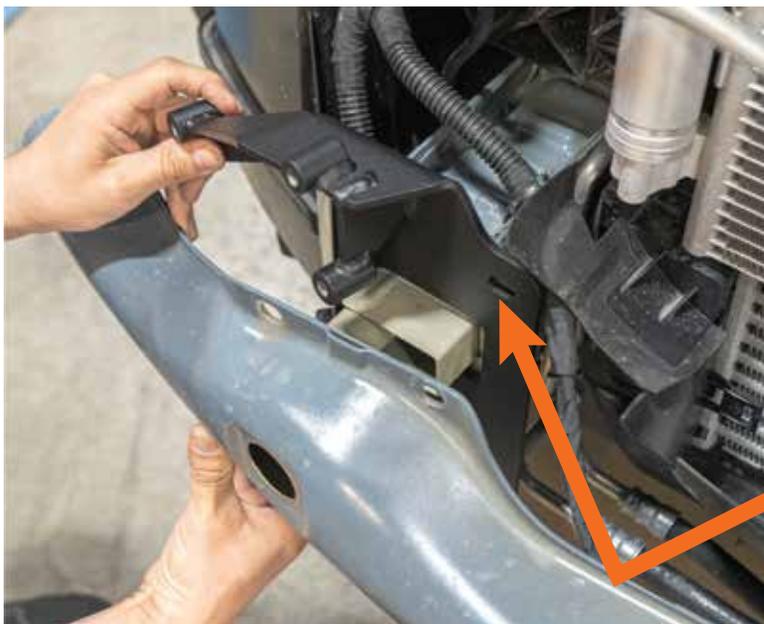
7. Use a 13mm socket to remove 3 out of 4 bolts holding the crash bumper on each side. Then loosen, but do not remove, the remaining 2 bolts holding the crash bumper.



8. Remove the loosened bolt holding the crash bumper on the driver's side and install the driver's side AO Light Bar Bracket. Align the mounting holes with the crash bumper holes. Install the bracket and the crash bumper to the vehicle using an 8mm bolt removed earlier. Use red thread locking compound when installing the bolt. Do not fully tighten it yet. Repeat the process on the passenger's side of the vehicle.

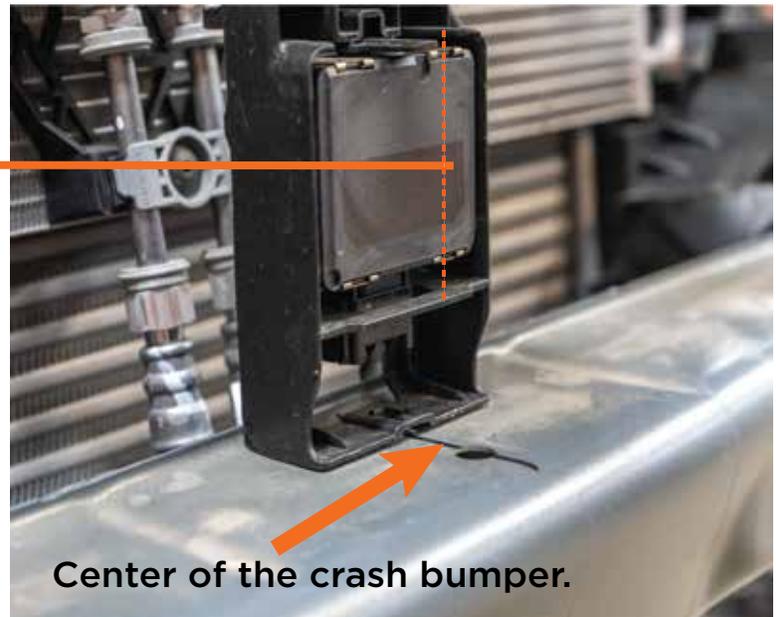


Driver's side bracket.



Passenger's side bracket.

9. Install the remaining 6 8mm bolts. Use red thread locking compound when installing the bolts. Do not fully tighten them yet.
10. Find the center of the crash bumper and measure its distance to the inner light bar brackets mounting holes. Use pictures below for guidance. The distance between each bracket and the crash bumper center should be approximately 19-19 1/8". Adjust the brackets, then, fully tighten the 8 8mm bolts. Torque to 25 ft-lbs.



11. Hand thread the 6 supplied locating pins to the light bar brackets on each side of the crash bumper. Leave approximately 1/2" protruding from the bracket. Reinstall the front bumper cover. Install the 2 T-30 torx bolts in the upper radiator support to keep the bumper in place. Push the bumper cover clips back into place, starting under the headlights and working out to the sides of the vehicle. Then firmly push on the bumper with your fingers where the locating pins are to mark their locations on the inside of the bumper. Repeat on the other side of the bumper.



12. Remove the 2 T-30 torx upper bumper bolts and detach the bumper cover. Locate the 6 marking points from the locating pins on the inside of the bumper and drill small pilot hole through each marked point. Then, use a step bit to drill 7/8" holes for the Ferrata Light Bar.



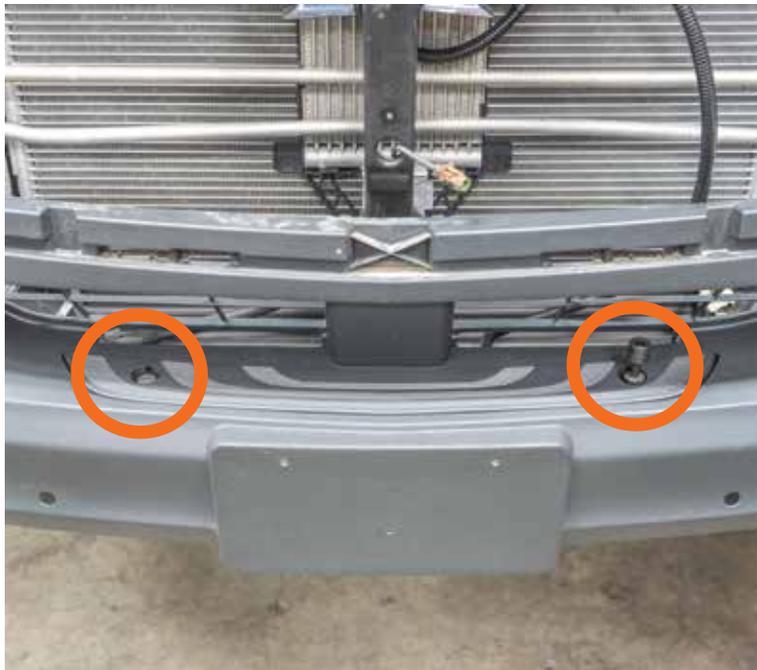
13. Insert the “t-shaped” DISTRONIC cruise control sensor bracket back into the crash bumper. Use the 2 T-25 Torx screws removed earlier to attach the top of the bracket into the vehicle.



14. Reconnect the parking sensor & fog lights harnesses to the vehicle before installing the bumper cover. Use the 2 T-30 torx upper bumper bolts to keep the bumper in place. Do not fully tighten them yet. Push the bumper cover clips back into place, starting under the headlights and working out to the sides of the vehicle. Then fully tighten the 2 T-30 torx upper bumper bolts.



15. Re-install all of the push pins in fender wells and the bottom of the bumper cover. Then, use a T-45 torx to reinstall the front step using the 2 bolts removed earlier.



16. Use the 6 supplied 3/8" allen bolts, washers, and spacers to install the Ferrata light bar onto the bumper. Use red thread locking compound when installing the bolts.



17. Reconnect the factory temperature sensor. Then reconnect the front camera and reinstall the front grille.



17. Congratulations Your installation is now complete.

