



advanced FLOW engineering

Instruction Manual P/N: 77-46503 SCORCHER HD POWER MODULE

Make: Mercedes-Benz Model: Sprinter 2500 Year: 2014-2022 Engine: L4-2.1L (td)

Make: Mercedes-Benz Model: Sprinter 2500 Year: 2014-2022 Engine: L4-2.1L (td)
Make: Mercedes-Benz Model: Sprinter 3500 Year: 2014-2022 Engine: L4-2.1L (td)
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Make: Mercedes-Benz Model: Sprinter 3500 Year: 2010-2022 Engine: L4-2.1L (td)





THIS IS A HIGH-PERFORMANCE PRODUCT: Do not use this product until you have carefully read the following agreement and installation instruction. This sets forth the terms and conditions for the use of this product. The installation of this product indicates that the BUYER has read and understands this agreement and accepts its terms and conditions.

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Before proceeding with the installation:

- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- If you are missing any of the components, call customer support at 951-493-7185.
- Ensure you have all necessary tools before proceeding. Do not attempt to work on your vehicle when the engine is hot.

Warranty Information available at https://afepower.com/contact#warranty

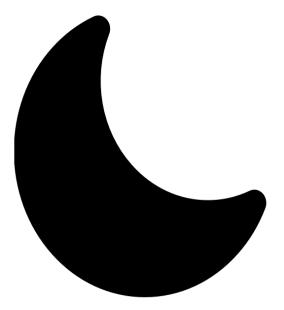
Emission Disclaimer: This product is not currently CARB exempt and is not available for purchase in California or for use on any vehicle registered with the California Department of Motor Vehicles.



Label	Qty.	Description	Part Number
Α	1	Module	R77-46503
В	1	LED Switch	05-70029
С	2	Velcro (2" Inches)	05-01244
D	4	Cable Ties	05-60167



REMOVAL



SLEEP MODE

Figure A

Refer to Figure A for Step 1

Step 1: Before installing your aFe POWER module, you will have to place your vehicle's ECU in sleep mode. In order to do this, you will need to do the following:

- If the engine is cold: open the hood, close the doors, lock the car and wait 30 seconds.
- If the engine is warm: open the hood, close the doors, lock the car and wait 20 minutes.
- If the engine is warm and you can't wait 20 minutes: disconnect the battery.



Note: Do NOT open doors or start vehicle while one of the sensors is disconnected. This could create a check engine light





Refer to Figure B for Step 2

Step 2: Refer to the diagram to identify the connectors and the corresponding sensor and harness that they plug into.

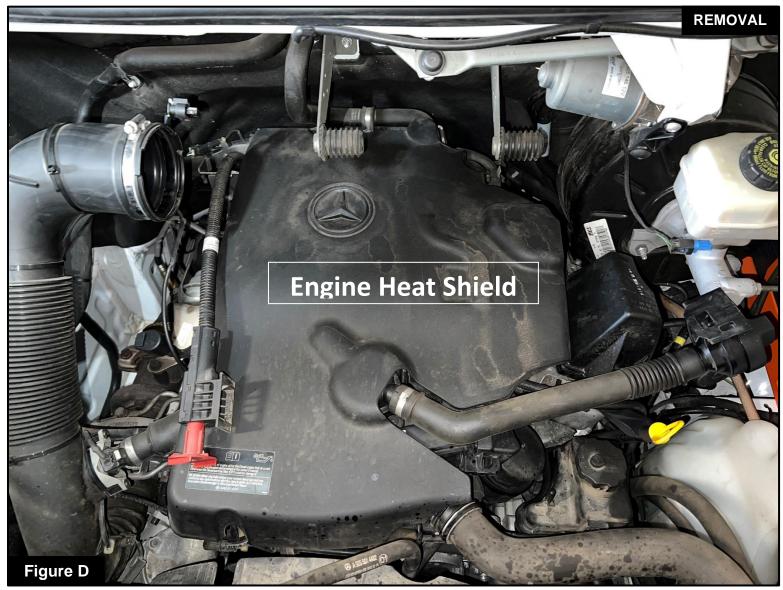




Refer to Figure C for Steps 3-5

- Step 3: In order to gain access to the fuel pressure sensor, the air filter housing will have to be removed.
- Step 4: Disconnect the mass airflow sensor and loosen the clamp from the tubing going into the air filter housing.
- Step 5: Lift up on the two front posts of the air filter housing and remove it from the engine bay.

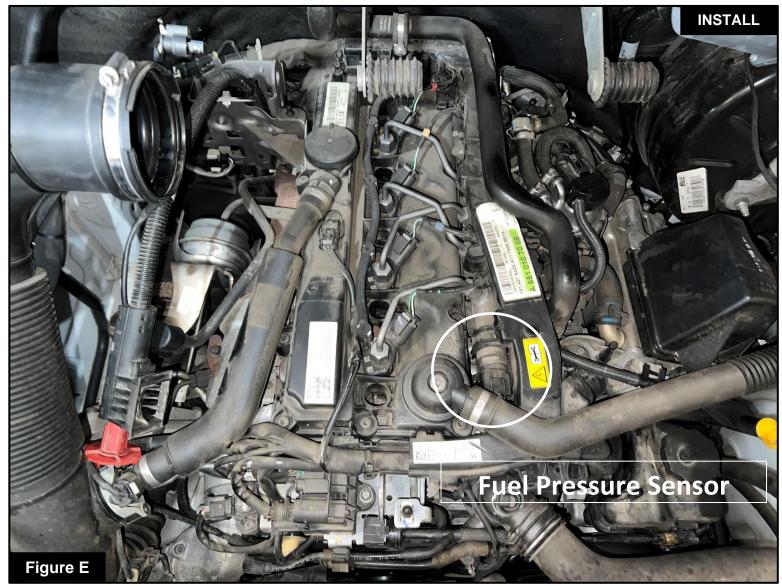




Refer to Figure D for Step 6

Step 6: Remove the engine heat shield

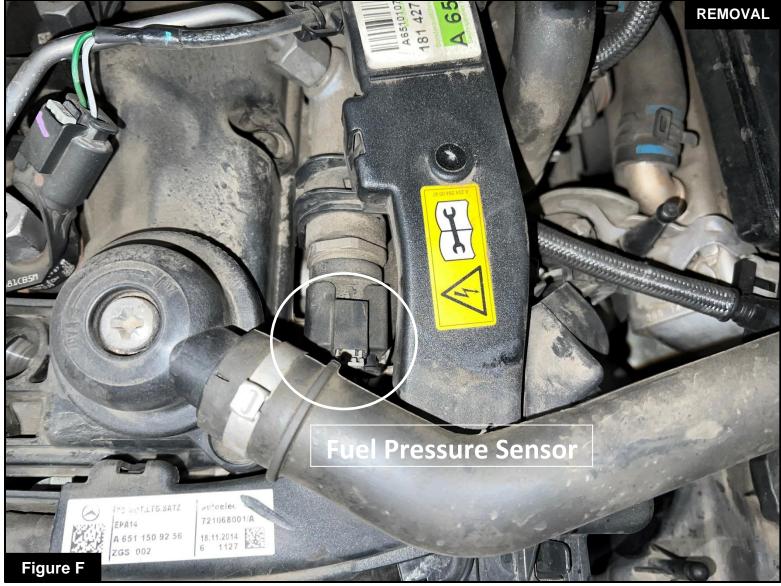




Refer to Figure E for Step 7

Step 7: Locate the fuel pressure sensor. It is on top of the engine bay at the end of the fuel rail.





Refer to Figure F for Step 8

Step 8: Disconnect the fuel rail pressure sensor by pulling back on the white locking tab, pressing down on the connector and sliding it out of the sensor. .





Refer to Figure G for Steps 9-11

Step 9: Locate the Fuel Pressure sensor jumper harness on the aFe POWER harness. It is labeled "Fuel".

Step 10: Plug the female connector of the aFe POWER harness to the fuel pressure sensor, then take the male connector of the aFe POWER harness and connect it to the female connector of the engine harness.

Step 11: Check with the picture to make sure the connectors are fully seated and that the locking tab is slid back into place.



Make sure that the connections are fully engaged and not reversed. Usually, connectors make a snapping sound when fully engaged.





Refer to Figure H for Steps 12-17

- Step 12: Re-install the engine heat shield.
- Step 13: Reinstall the air filter housing and tighten the clamp connecting the tubing to the air filter housing.
- Step 14: Reconnect the Mass Airflow Sensor harness.
- Step 15: Select a location to mount the Scorcher HD Module. We recommend that the module be mounted in a place that is dry, away from extreme heat and moving parts.
- Step 16: For our installation, we found the best location to be on the side of the battery bracket.
- Step 17: Route the harness wires and secure them using the included zip ties for a neat installation.





Refer to Figure I for Steps 18-19

Step 18: Select the desired location for the LED switch. Route the cable on the back of the switch to exit towards the top or the bottom of the switch.

Step 19: Use the provided double sided tape to secure the LED switch in the desired location.

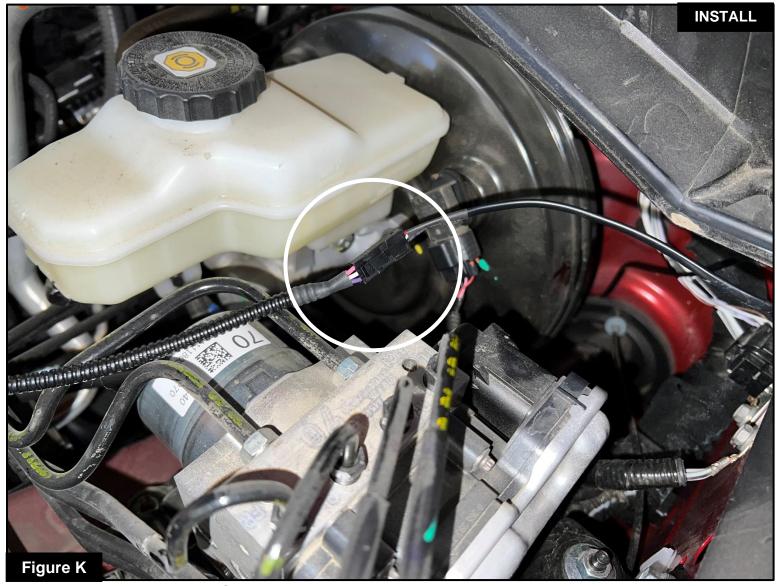




Refer to Figure J for Steps 20-22

- Step 20: Carefully route the switch cable behind the steering wheel cover or cabin trim cover. For the cleanest install, partially remove the cabin trim cover and run the LED swith wire between the trim panels.
- Step 21: Locate the engine bay wiring access slot below the driver side kick panel.
- Step 22: Route the switch cable through the firewall and into the engine bay using this slot.





Refer to Figure K for Steps 23-24

Step 23: Plug the end of the LED switch cable to the aFe POWER harness inside the engine compartment.

Step 24: Secure all wires away from any extreme heat and moving parts with the provided zip ties. Make sure all connections are secured and fully engaged.

The installation of the module itself is now complete. Keep reading the installation instructions to learn how to use all of its features.





Refer to Figure L (LED Switch)

When turning on the vehicle, each LED will flash, and it will stop at its last setting. The LED on the switch represents the different levels of power.

Green LED: Stock

Yellow LED: Sport

Orange LED: Sport+

Red LED: Race

Use the grey button to select the desired setting. Power adjustments can be done at any time while the unit is on.



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