



advanced FLOW engineering

Instruction Manual

P/N: 77-46904

SCORCHER GT POWER MODULE

Make: Alfa Romeo
Make: Alfa Romeo

Model: Guilia
Model: Stelvio

Year: 2017- 2021
Year: 2017- 2021

Engine: L4-2.0L (t)
Engine: L4-2.0L (t)



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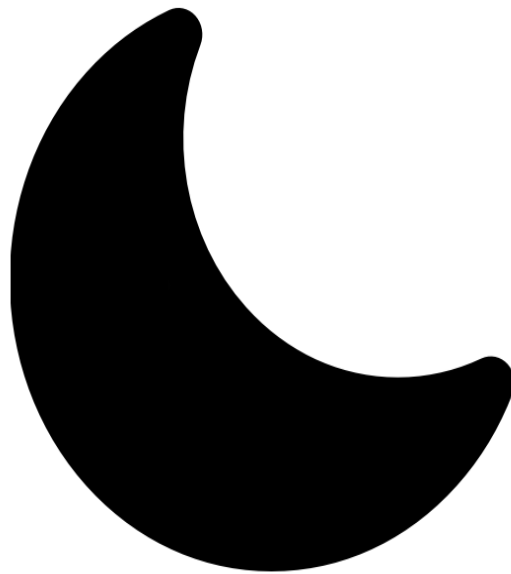
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Before proceeding with the installation:

- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- Ensure you have all necessary tools before proceeding. Do not attempt to work on your vehicle when the engine is hot.

Label	Qty.	Description	Part Number
A	1	Module	R77-46904
B	1	LED Switch	05-70029
C	2	Velcro (2" Inches)	05-01244
D	4	Cable Ties	05-60167





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**

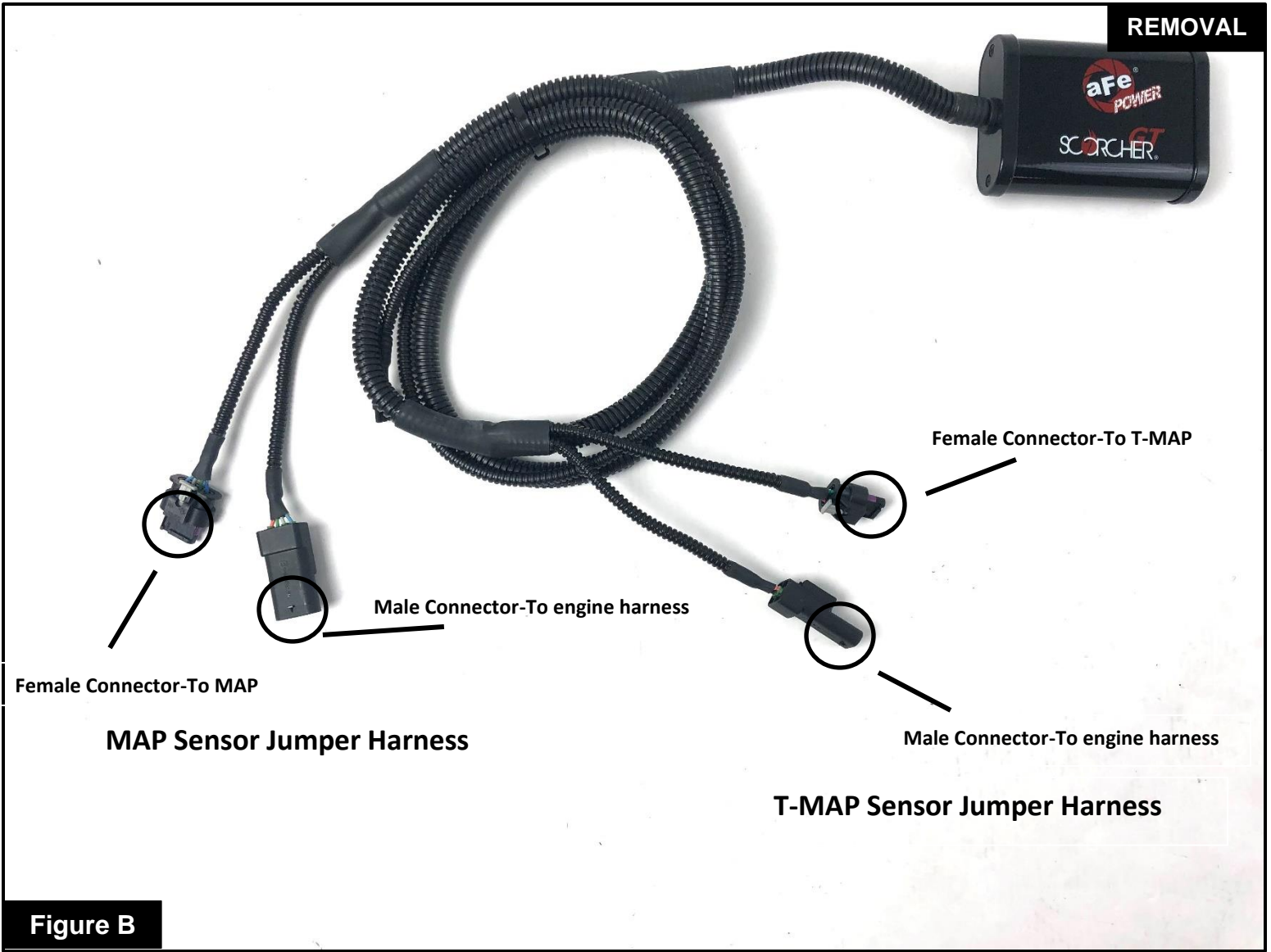


Figure B

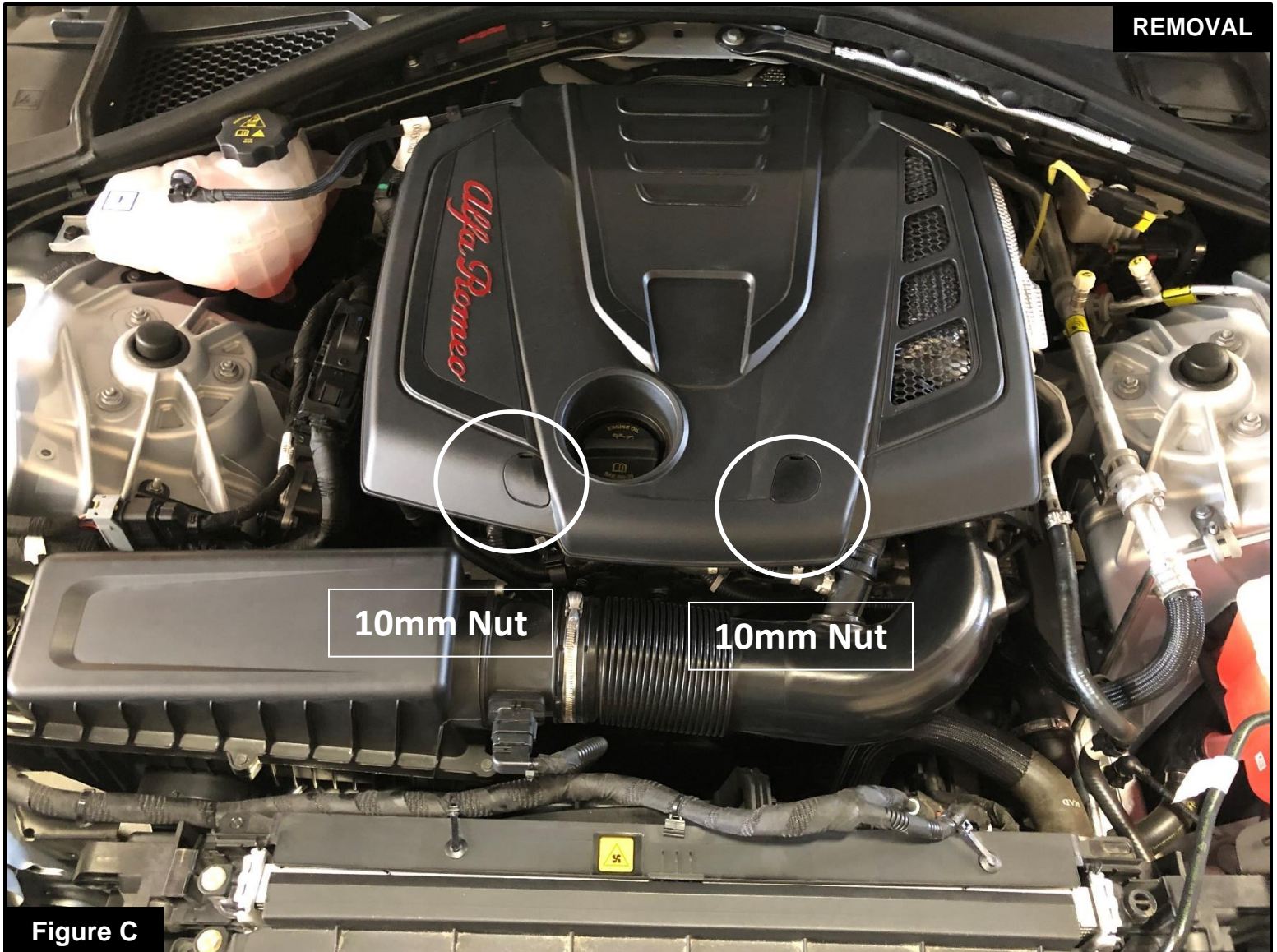
Refer to Figure B for Step 2

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

- The T-MAP sensor jumper harness will be the shorter set of wires.
- The MAP sensor jumper harness will be the longer set of wires.



Installation on 2021 Alfa Romeo Giulia is shown. Installation will be exactly the same for the Alfa Romeo Stelvio.

**Refer to Figure C for Step 3**

Step 3: Remove the engine cover by first prying up on the tabs, removing the two 10mm nuts, and then lifting up the cover.

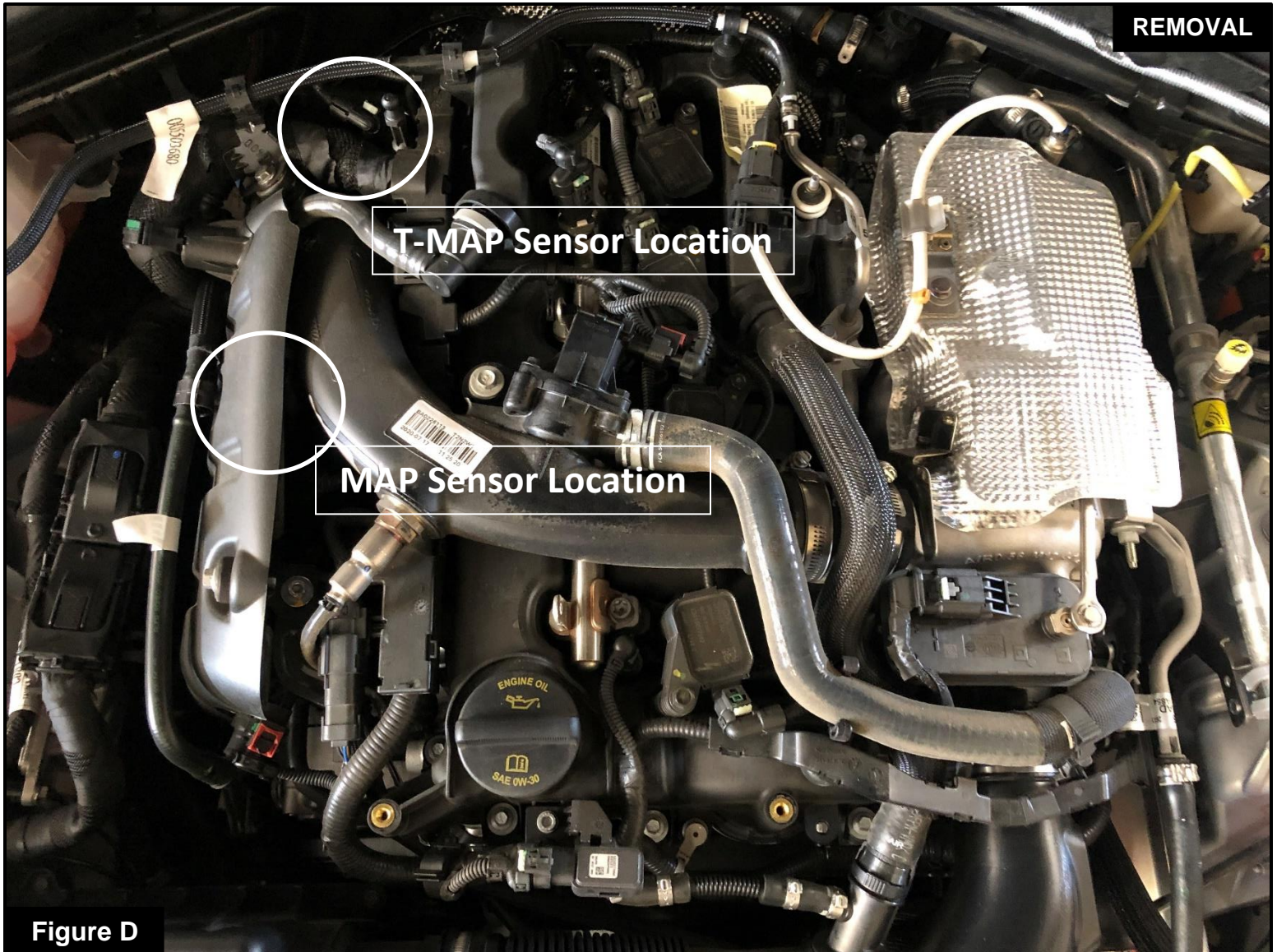


Figure D

Refer to Figure D for Steps 4-5

Step 4: Locate the T-MAP sensor. The T-MAP sensor is located on the side of the charge pipe, on the passenger side of the engine bay towards the firewall.

Step 5: Locate the MAP sensor. The MAP sensor is located on the top of the intake manifold, behind the heat shield.

**Figure E****Refer to Figure E for Step 6**

Step 6: Disconnect the T-MAP sensor by pulling back on the locking tab, pressing down on the connector and sliding it out of the sensor.

T-MAP Sensor Connectors

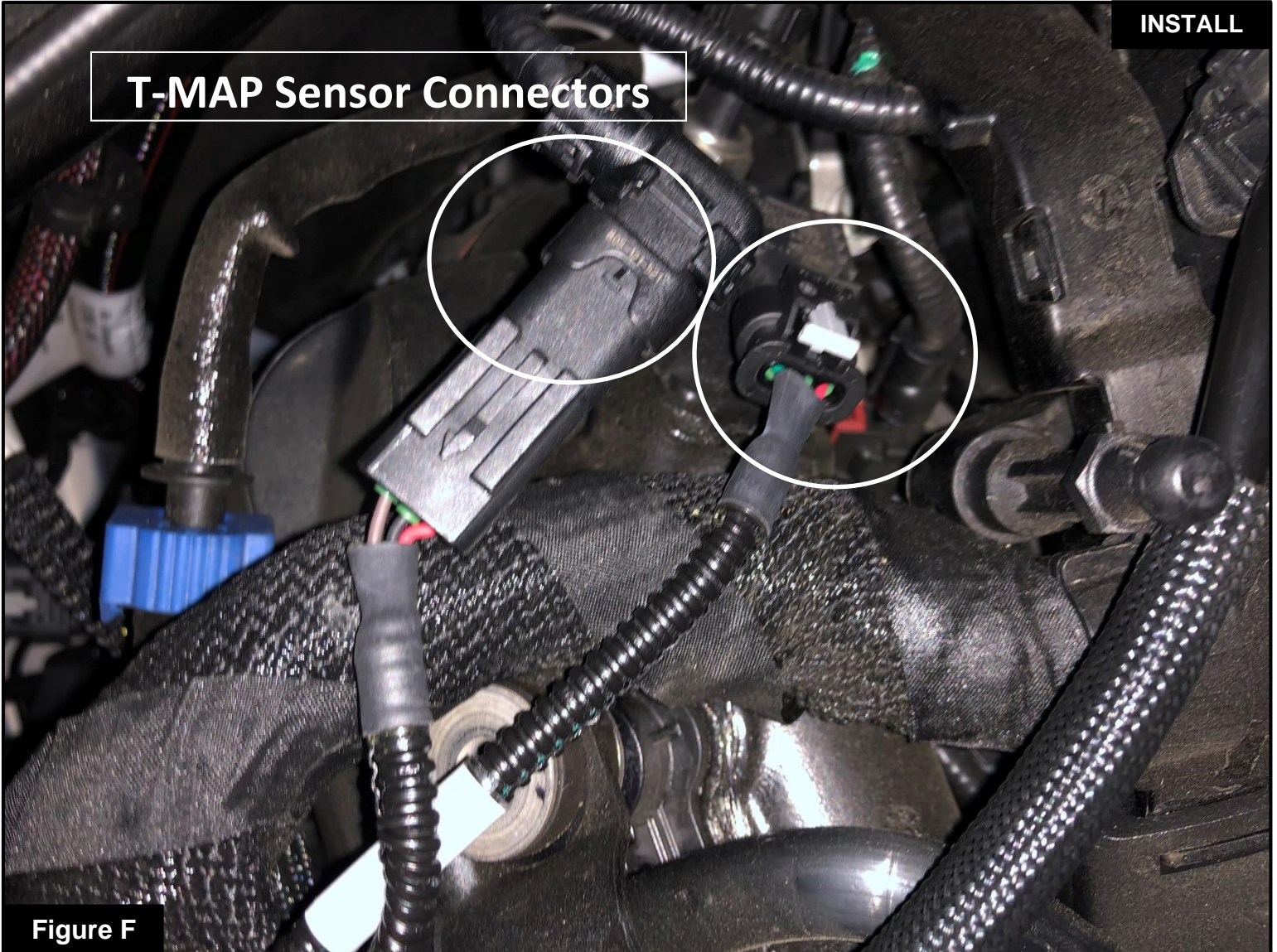


Figure F

Refer to Figure F for Steps 7-9

Step 7: Locate the T-MAP sensor jumper harness on the aFe POWER harness. It is the first, shorter set of connectors coming out of the aFe Power module. It is labeled "T-MAP".

Step 8: Plug the female connector of the aFe POWER harness to the T-MAP sensor, then take the male connector of the aFe POWER harness and connect it to the female connector of the engine harness. Slide the locking tabs back into place.

Step 9: Check with the picture to make sure the connectors are fully seated and that the locking tab is slid back into place.

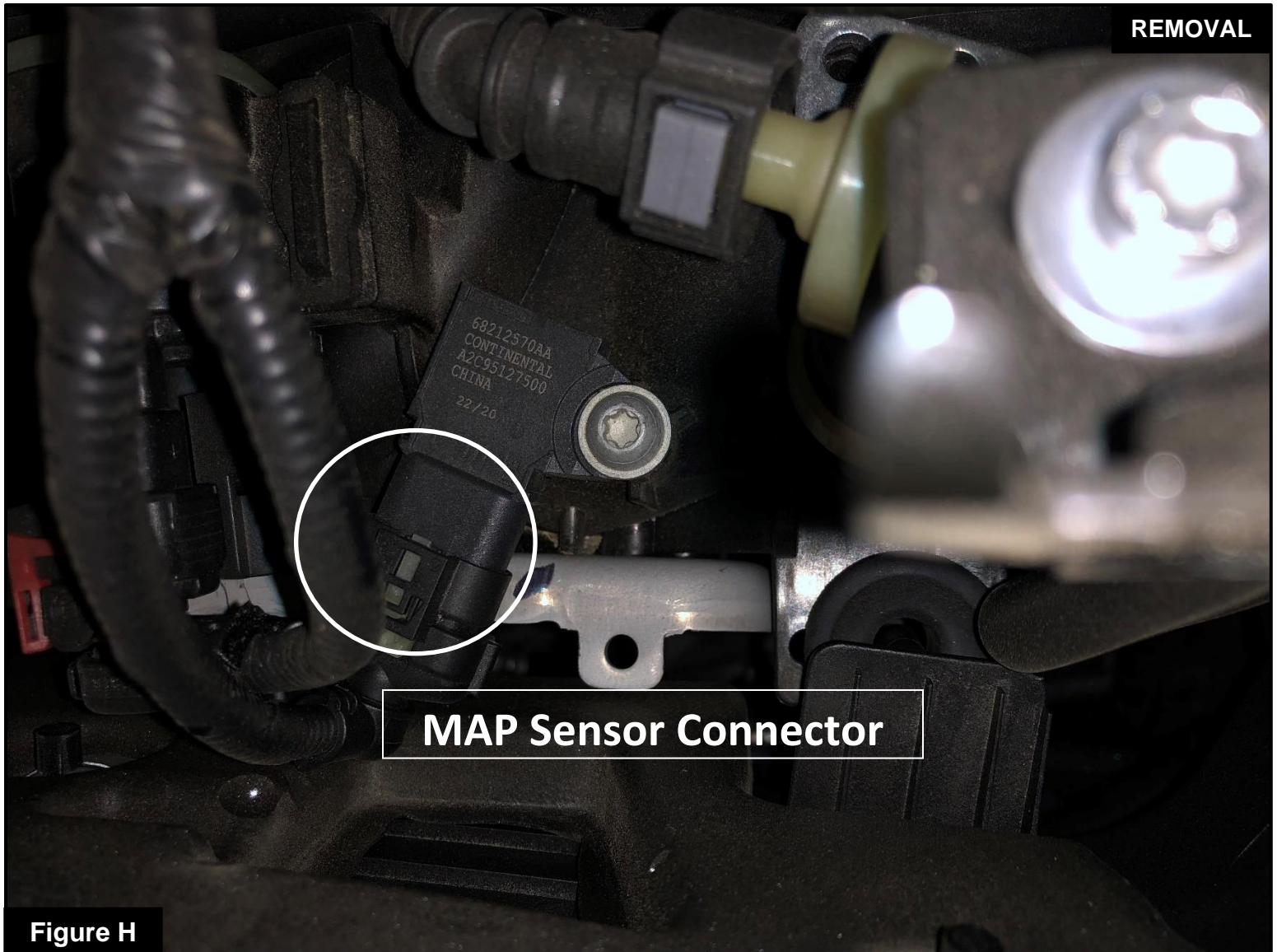
 **Make sure that the connections are fully engaged and not reversed. Usually, connectors make a snapping sound when fully engaged.**



Figure G

Refer to Figure G for Step 10

Step 10: To gain access to the MAP sensors, first remove the two 10mm bolts and slightly pull back the heat shield.



Refer to Figure H for Steps 11-12

Step 11: Locate the MAP sensor on top of the intake manifold.

Step 12: Disconnect the MAP sensor by pulling back the white locking tab, then pressing down on the connector and sliding it out of the sensor.

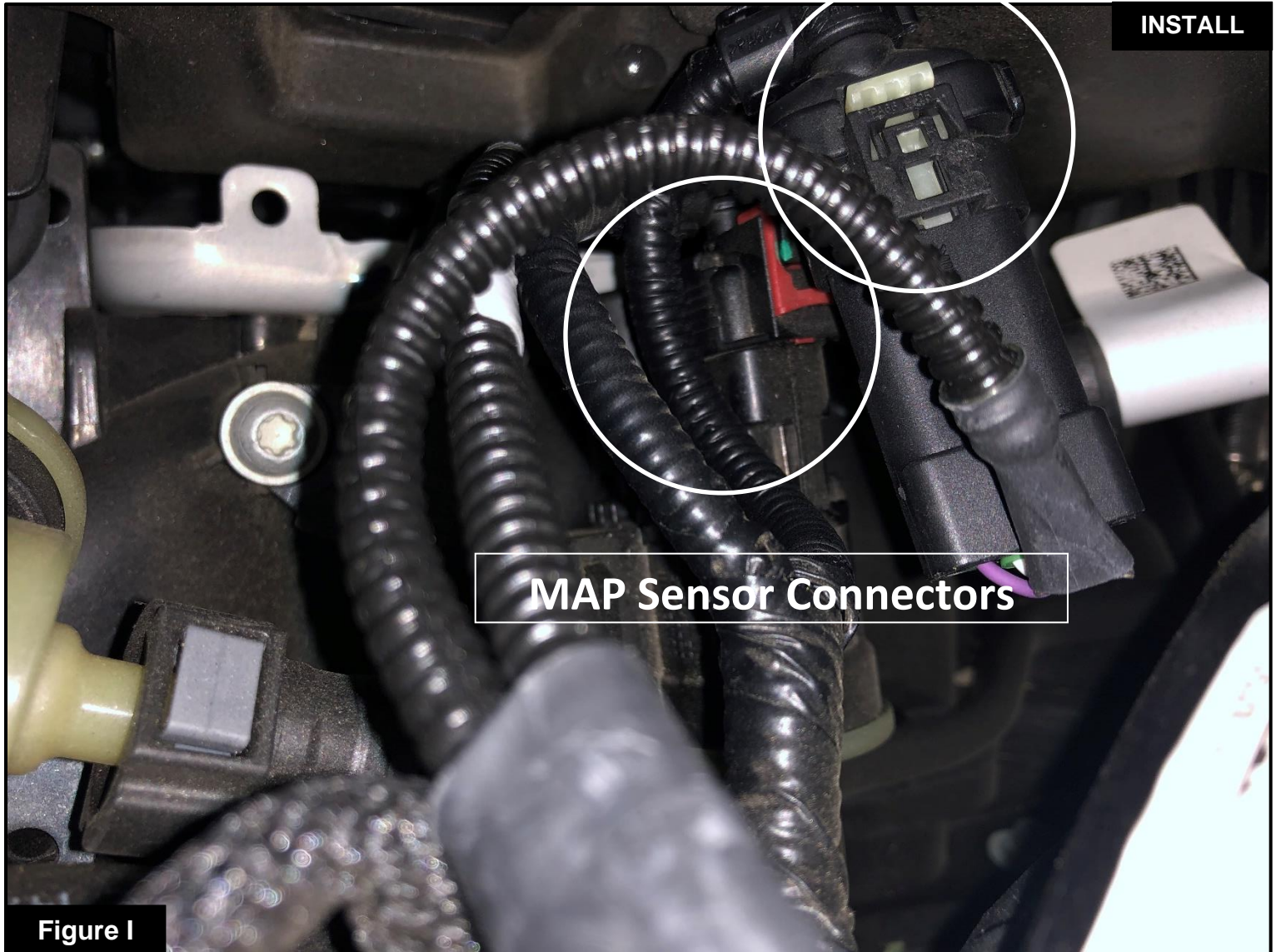


Figure I

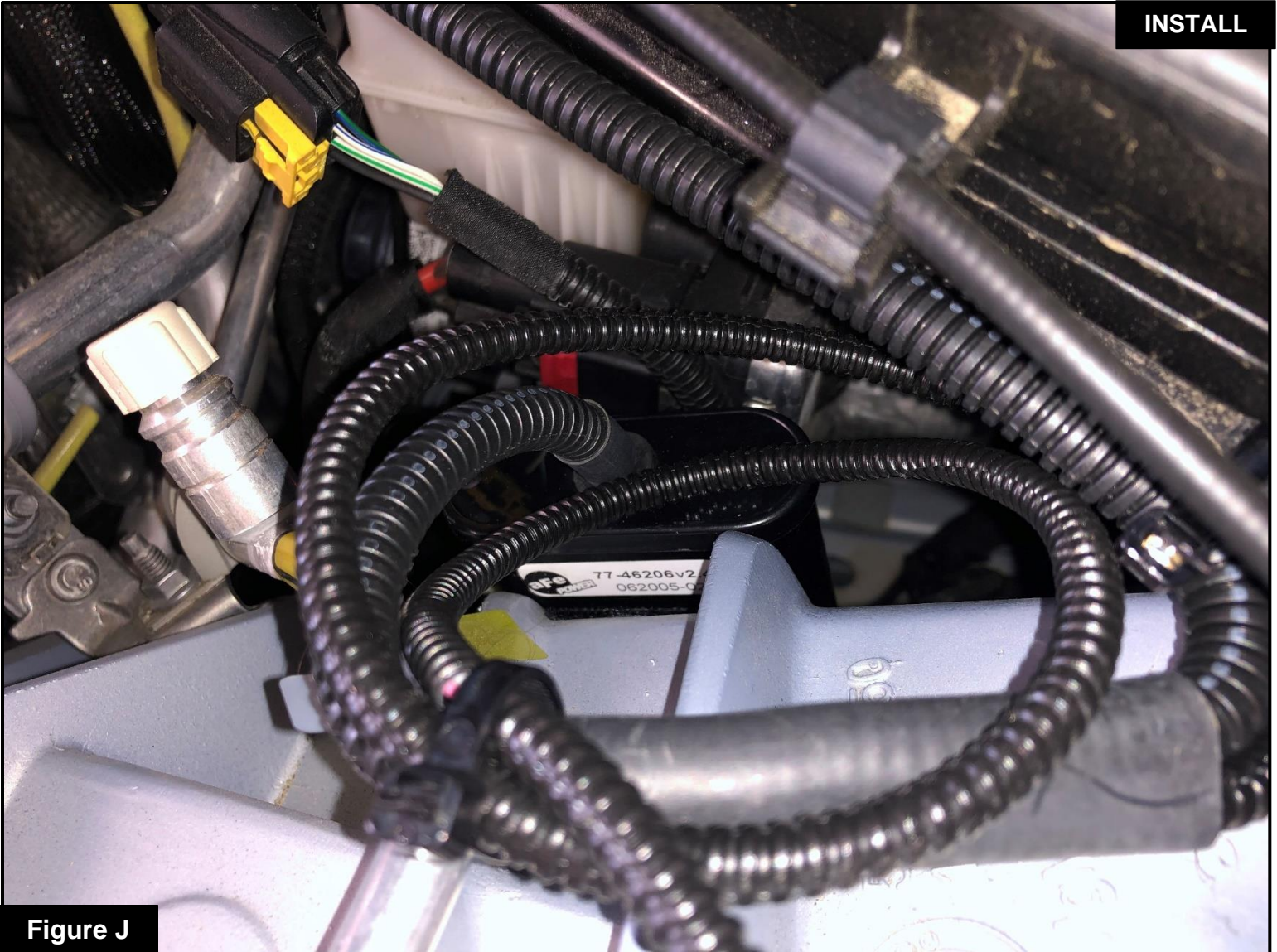
Refer to Figure I for Steps 13-15

Step 13: Locate the MAP sensor jumper harness on the aFe POWER harness. It is the longer, second set of connectors coming out of the aFe Power module. It is labeled “MAP”.

Step 14: Plug the female connector of the aFe POWER harness to the MAP sensor, then take the male connector of the aFe POWER harness and connect it to the female connector of the engine harness. Slide the connector locking tabs back into place.

Step 15: 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.**

**Figure J****Refer to Figure J for Steps 16-20**

Step 16: Reinstall the heat shield and the two 10mm bolts that were removed in Step 10.

Step 17: Select a location to mount the Scorch GT. We recommend that the module be mounted in a place that is dry, away from extreme heat and moving parts.

Step 18: For our installation, we found the best location to be on the side of the driver side strut tower.

Step 19: Route the harness wires away from moving parts and extreme heat. Secure the wires using the included zip ties for a neat installation.

Step 20: Reinstall the engine cover and the two 10mm nuts.

The doors can now be opened to install the LED Switch.

**Figure K****Refer to Figure K for Steps 21-22**

Step 21: 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 22: Use the provided double sided tape to secure the LED switch in the desired location.



Figure L

Refer to Figure L for Steps 23-25

Step 23: 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 switch wire between the trim panels.

Step 24: Locate the engine bay wiring access slot below the driver side kick panel.

Step 25: Route the switch cable through the firewall and into the engine bay using this slot.

**Figure M****Refer to Figure M for Steps 26-27**

Step 26: Plug the end of the LED switch cable to the aFe POWER harness inside the engine compartment.

Step 27: 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.



Figure N

Refer to Figure N (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.