



advanced FLOW engineering

Instruction Manual P/N: 77-46208 **SCORCHER GT PLUS POWER MODULE**

Make: **Jeep**
Make: **Jeep**

Model: **Wrangler (JL)**
Model: **Gladiator (JT)**

Year: **2018-2023**
Year: **2020-2023**

Engine: **V6-3.6L**
Engine: **V6-3.6L**



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
A	1	Module	R77-46208
B	1	LED Switch	05-70029
C	1	Bypass Plug	ADS-03-053
D	1	Harness	AFE-11-126
E	2	Velcro (2" Inches)	05-01244
F	4	Cable Ties	05-60167
G	2	Double Sided Tape	07-90001





SLEEP MODE

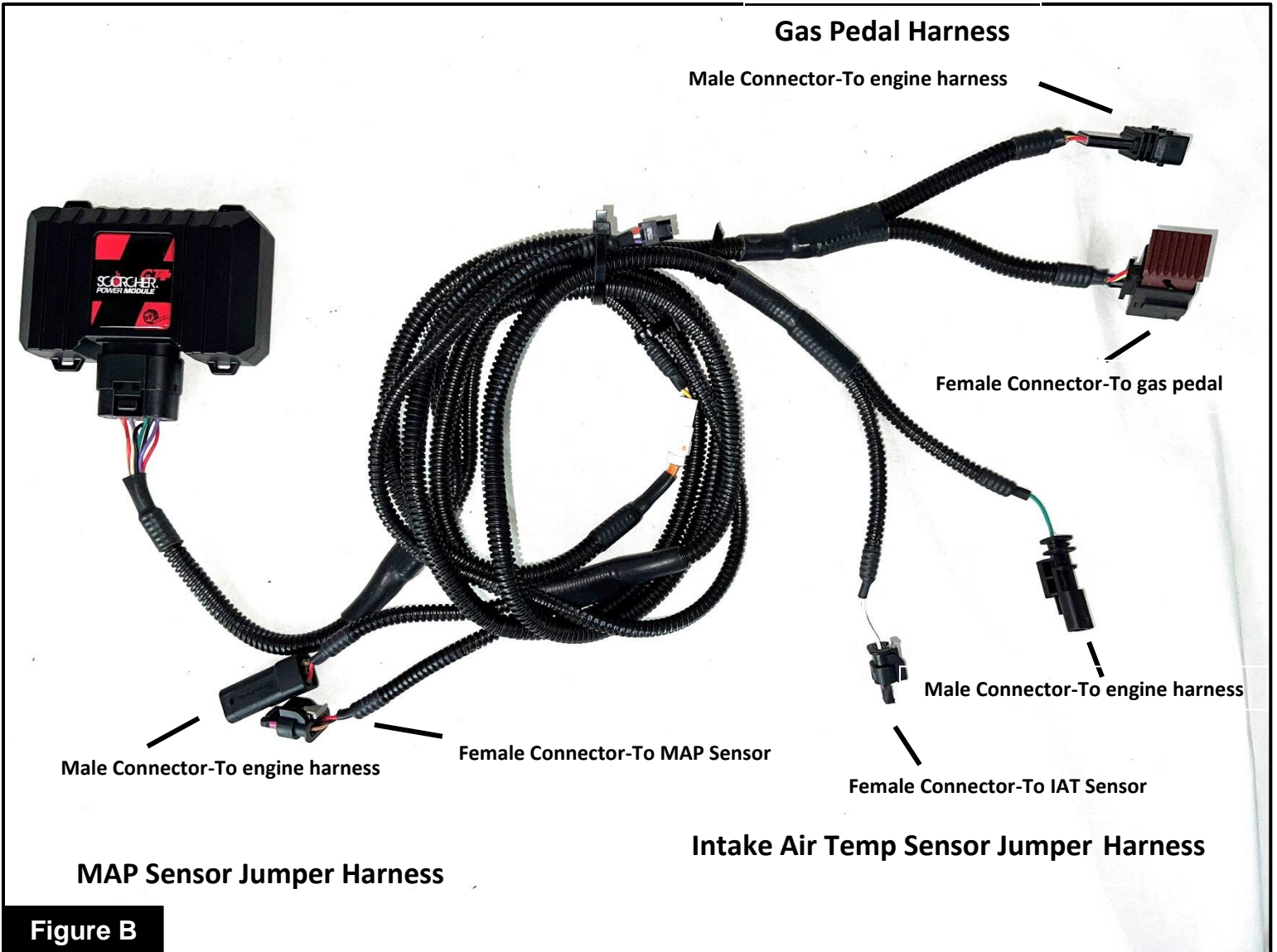
Figure A

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 their corresponding sensors that they plug into.

- a. The MAP sensor jumper harness will be the longer set of wires. It has a 4 wires connector and is labeled "MAP".
- b. The Intake Air Temp sensor jumper harness will be the shorter set of wires. It has a 2 wires connector and is labeled "IAT"
- c. The Gas Pedal Harness is the largest set of connectors. It has 6 wires and the female connector will have a red locking tab.

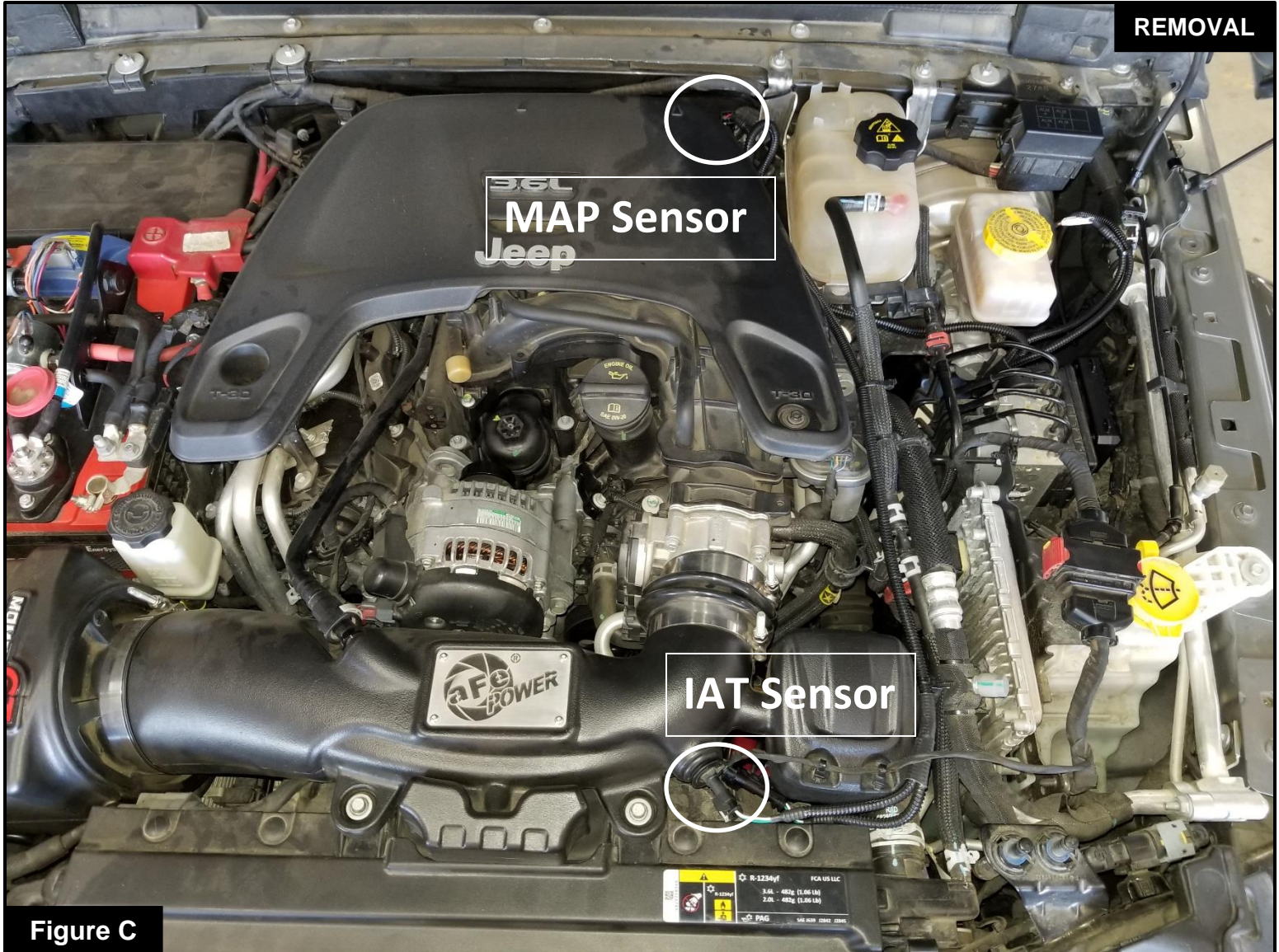


Figure C

Refer to Figure C for Step 3

Step 3: Locate the MAP and IAT sensors.

- a. The MAP (Manifold Absolute Pressure) sensor is located on top of the intake manifold towards the rear on the driver side of the engine bay.
- b. The IAT (Intake Air Temperature) sensor is located on the intake tube towards the front on the driver side of the engine bay.

**Figure D****Refer to Figure D for Step 4**

Step 4: Disconnect the MAP sensor by pulling back on the locking tab, pressing down on the connector and sliding it out of the sensor.



MAP Sensor Connectors

Figure E

Refer to Figure E for Steps 5-7

Step 5: Locate the MAP sensor jumper harness on the aFe POWER harness. It is the longer set of connectors and is labeled "MAP".

Step 6: 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 locking tabs back into place.

Step 7: Check with the picture to make sure the connectors are fully seated and that the locking tabs are 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 F

Refer to Figure F for Steps 8-9

Step 8: Locate the IAT sensor on the intake tube.

Step 9: Disconnect the IAT sensor by pressing down on the connector and sliding it out of the sensor.

IAT Sensor Connectors

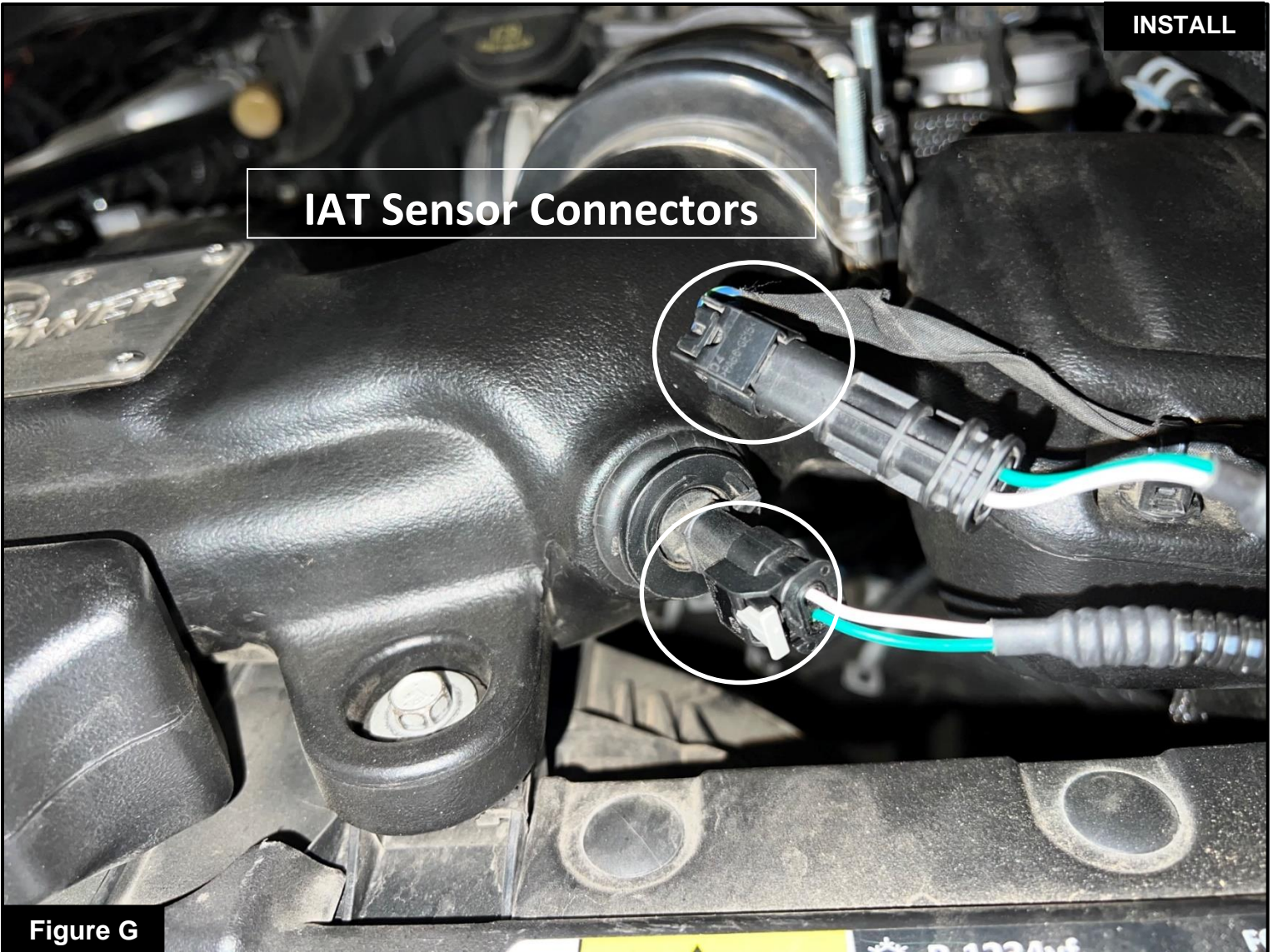


Figure G

Refer to Figure G for Steps 10-12

Step 10: Locate the IAT sensor jumper harness on the aFe POWER harness. It is the shorter set of connectors and is labeled "IAT".

Step 11: Plug the female connector of the aFe POWER harness to the IAT sensor, then take the male connector of the aFe POWER harness and connect it to the female connector of the engine harness.

Step 12: 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 H**

Refer to Figure H for Steps 13-15

Step 13: Find the desired location to mount and secure the Scorch GT PLUS module using the included Velcro and/or zip ties.

Step 14: Use the included zip ties to secure the Scorch GT PLUS harness away from all moving parts and components that will get hot when the engine is running.

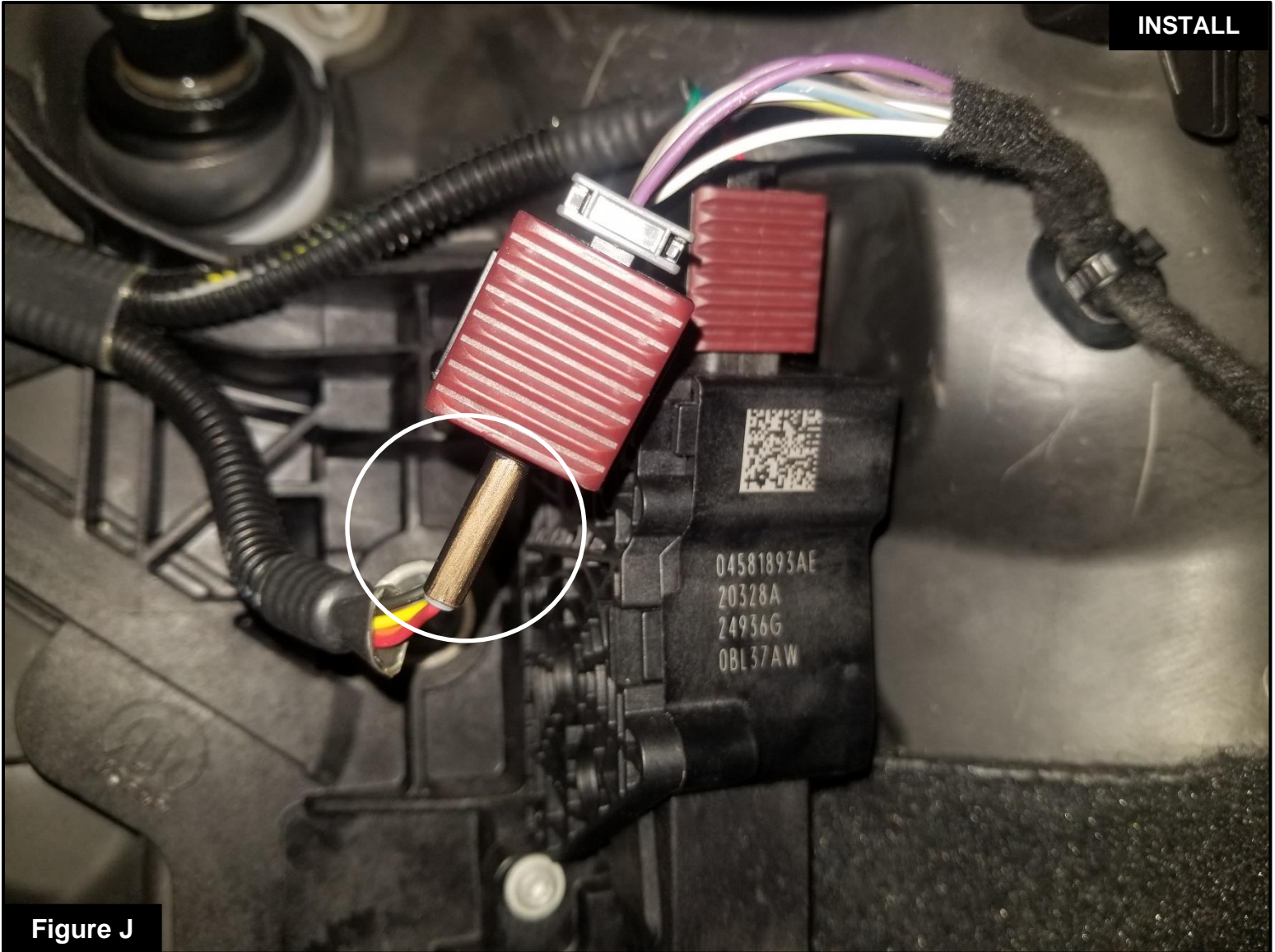
Step 15: Plug the aFe POWER harness into the module.

The doors can now be opened to install the Gas Pedal Harness and the LED Switch.

**Figure I****Refer to Figure I for Steps 16-17**

Step 16: Locate the connector for the gas pedal. It is located at the top of the gas pedal assembly.

Step 17: Disconnect the gas pedal harness by pulling out on the red locking tab and lifting up on the connector.

**Figure J****Refer to Figure J for Steps 18-20**

Step 18: Locate the gas pedal harness on the aFe Scorch GT PLUS. Plug the female connector of the aFe POWER harness into the male connector of the gas pedal assembly. Then plug the male connector of the aFe POWER harness into the female connector of the gas pedal harness.

Step 19: Push the red locking tabs on both the stock harness and the aFe POWER harness back into place.

Step 20: Use the provided cable ties to secure the harness and make sure it does not interfere with your foot or the gas pedal.

 **The male connector on the aFe POWER harness will have a silver marking. Make sure this marking faces the same direction as the red locking tab on the factory gas pedal connector.**



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 23-24**

Step 23: Locate the engine bay wiring access slot below the driver side kick panel.

Step 24: Route both the gas pedal harness wiring and the LED switch cable through the firewall and into the engine bay using this slot.

**Figure M****Refer to Figure M for Steps 25-27**

Step 25: Plug the end of the LED switch cable to the aFe POWER harness inside the engine compartment.

Step 26: Plug the end of the gas pedal harness into the white connector of 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 level 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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