



advanced FLOW engineering

Instruction Manual

P/N: 77-86207

SCORCHER BLUE POWER MODULE

Make: **Jeep**

Model: **Wrangler (JL)**

Year: **2020-2021**

Engine: **V6-3.0L (td) EcoDiesel**

Make: **Jeep**

Model: **Gladiator (JT)**

Year: **2021**

Engine: **V6-3.0L (td) EcoDiesel**

Make: **RAM**

Model: **1500**

Year: **2020-2021**

Engine: **V6-3.0L (td) EcoDiesel**



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.
- Ensure you have all necessary tools before proceeding. Do not attempt to work on your vehicle when the engine is hot.

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	R77-86207
B	1	LED Switch	05-70029
C	1	Bypass Plug	05-70017
D	1	Harness	AFE-10-119
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**

**Figure B****Refer to Figure B for Steps 2-4**

Step 2: Remove the oil cap (Engine cover cannot be removed with the oil cap in place)

Step 3: Remove the two 10mm bolts. The engine cover can now be lifted and removed.

Step 4: After removing the engine cover, re-install the oil cap for the time being so that small objects cannot fall into the oil filler neck.

***Jeep Wrangler EcoDiesel shown in pictures. Installation on the RAM 1500 will be similar and sensors will be in the same location.**

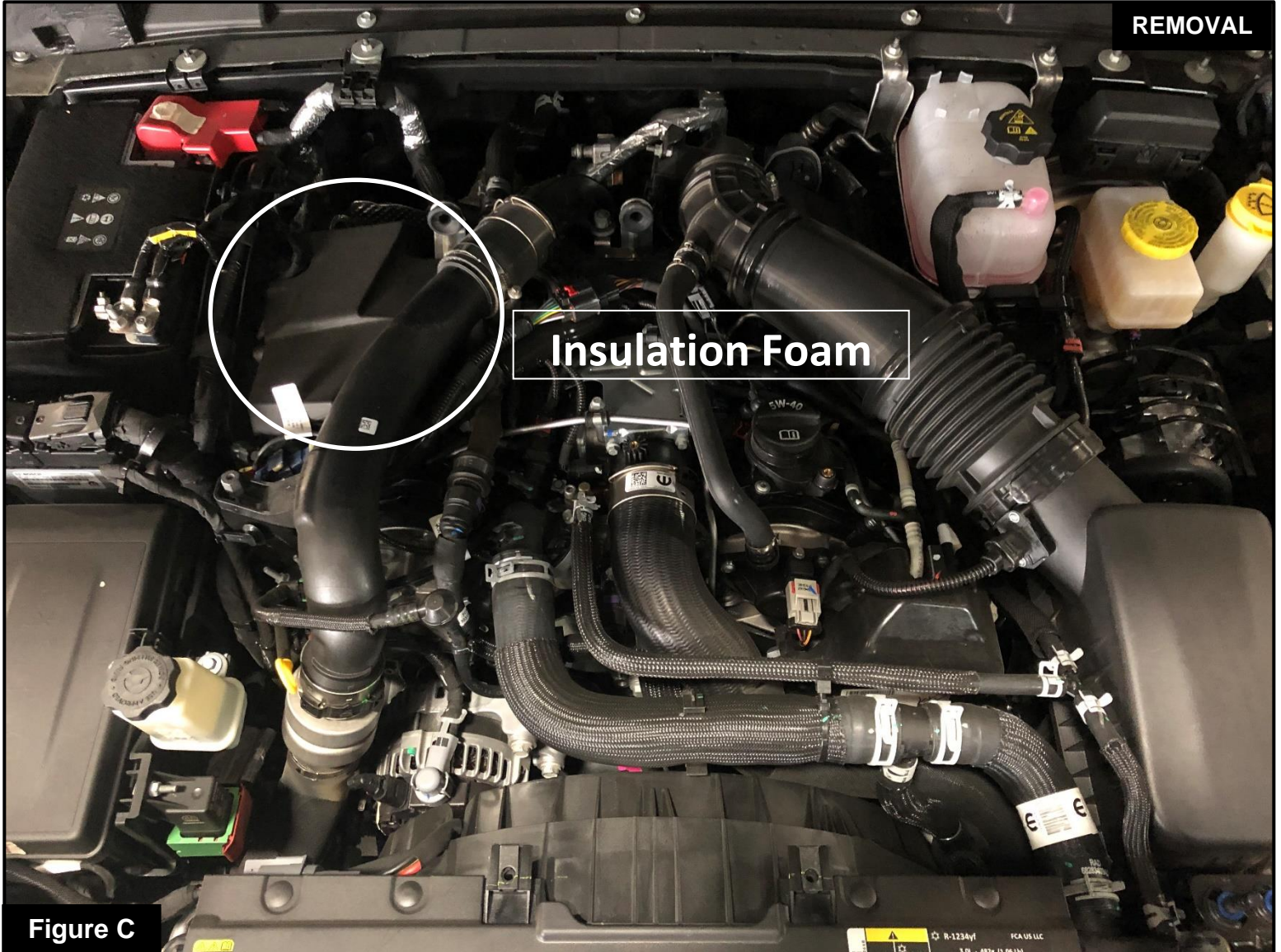


Figure C

Refer to Figure C for Step 5

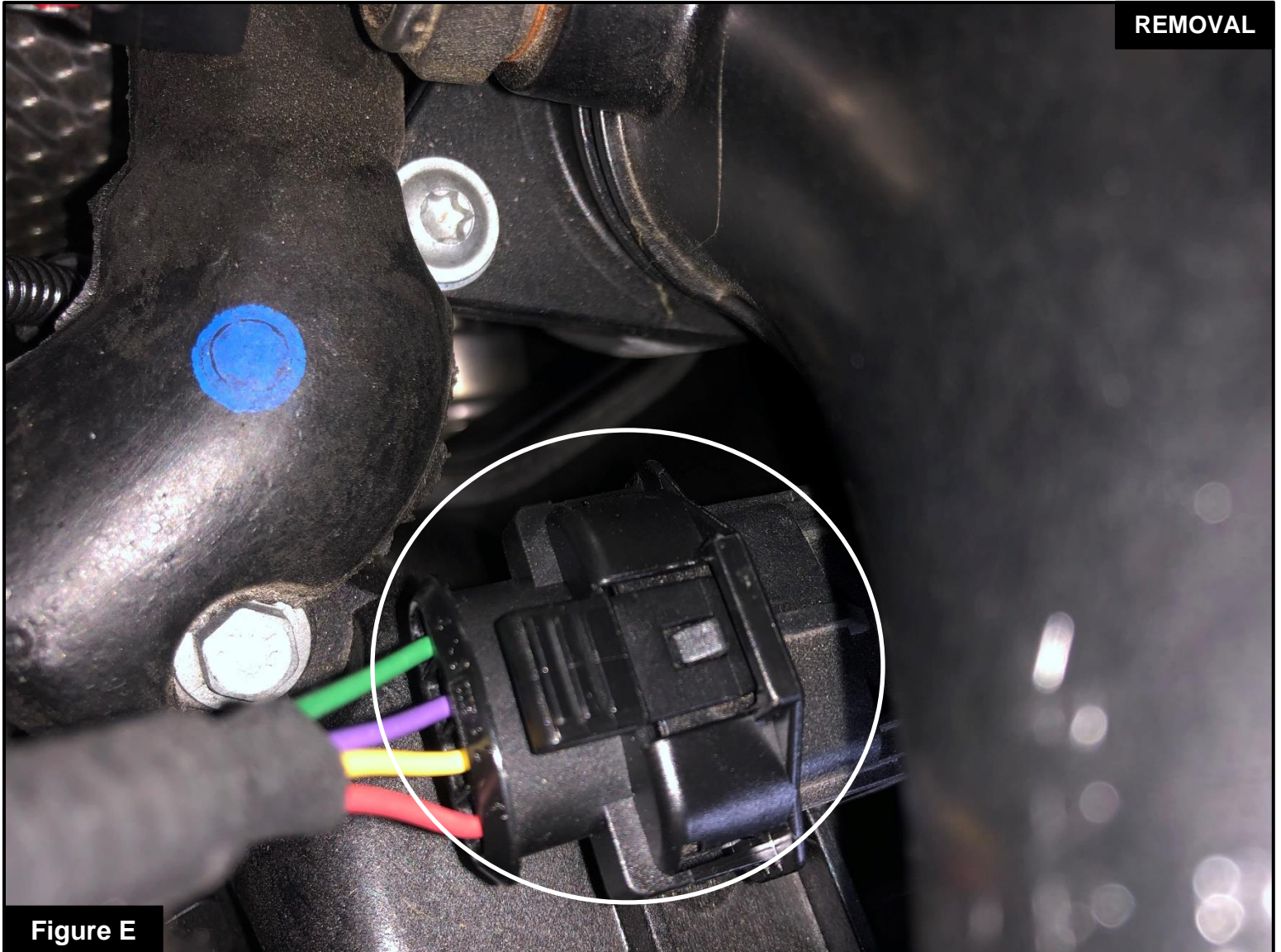
Step 5: Remove the insulation foam on the passenger side of the vehicle to gain easier access to the MAP and Fuel Pressure Sensor.



Figure D

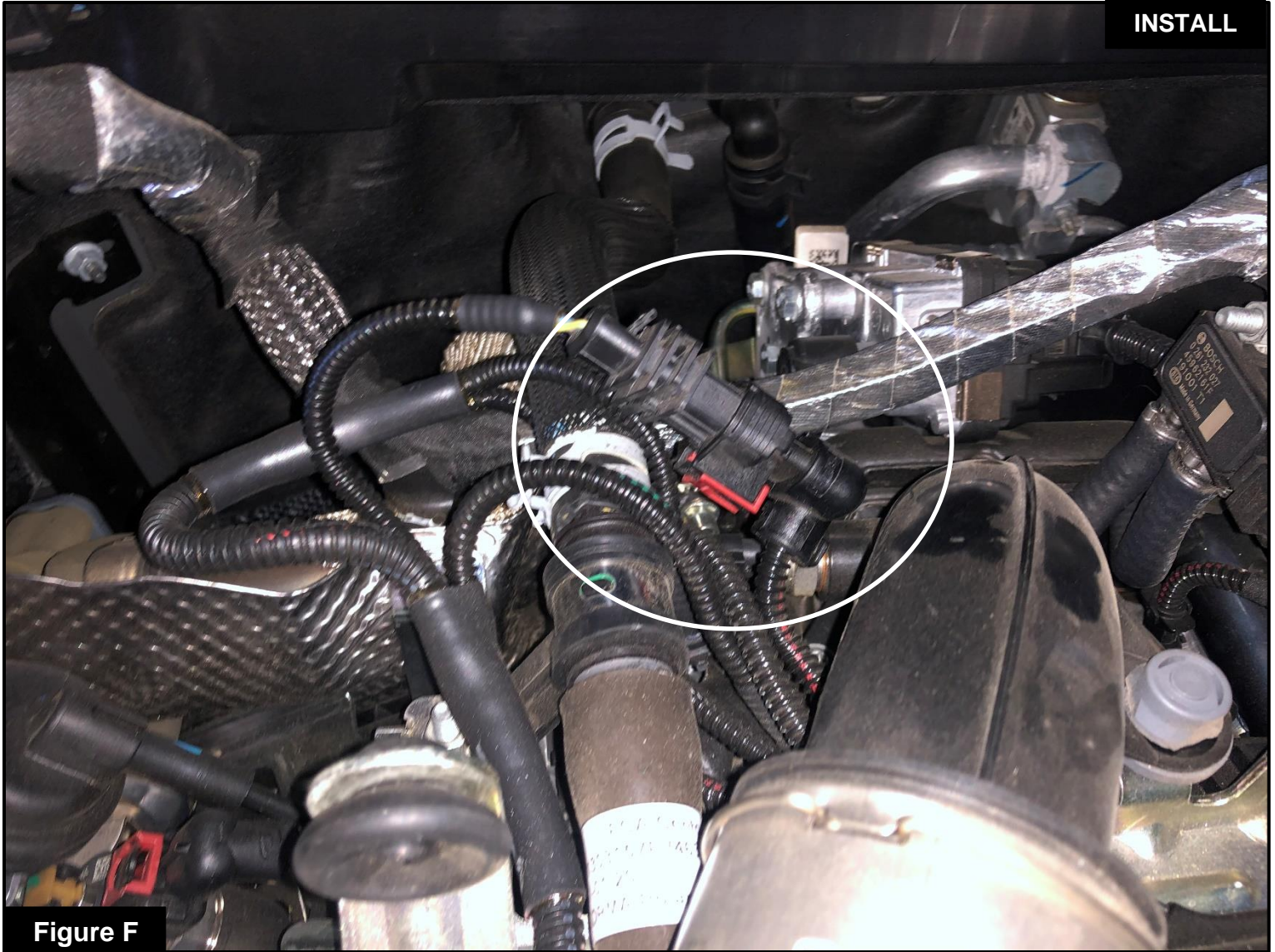
Refer to Figure D for Step 6

Step 6: Locate the MAP sensor and the Fuel Pressure Sensor. The sensors are located on the back of the engine bay near the firewall and under the charge pipe.

**Figure E****Refer to Figure E for Steps 7-8**

Step 7: Locate the MAP sensor. It is on top of the intake manifold underneath the charge pipe. Disconnect it by pressing down on the locking tab and sliding the connector out of the sensor.

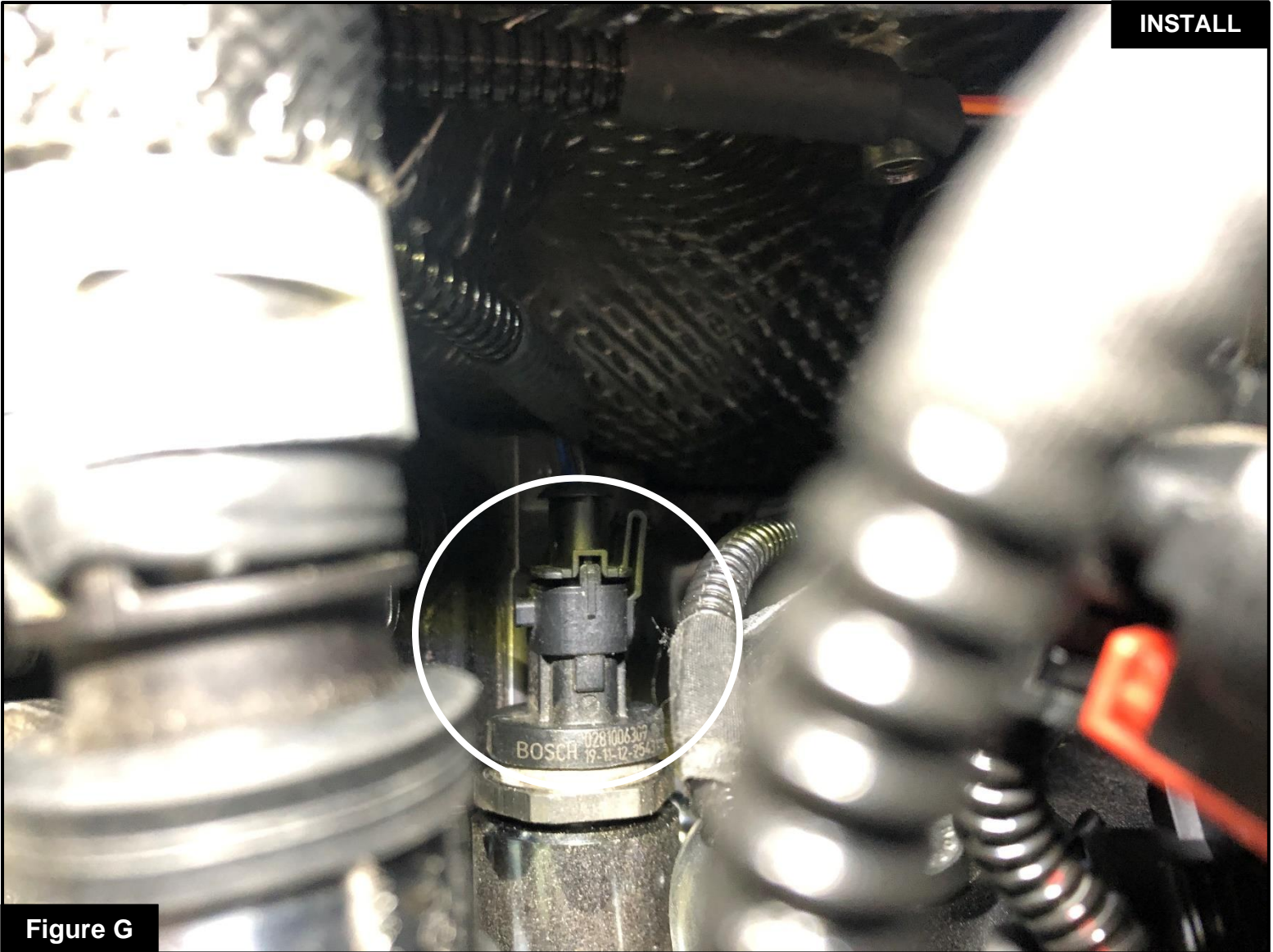
Step 8: Locate the MAP sensor jumper harness on the aFe POWER harness. This is the harness labeled "MAP". Plug the female connector of the aFe POWER harness to the MAP sensor, then take the male connector of the aFe POWER harness and connect it to the female connector of the engine harness.

**Figure F****Refer to Figure F for Step 9**

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



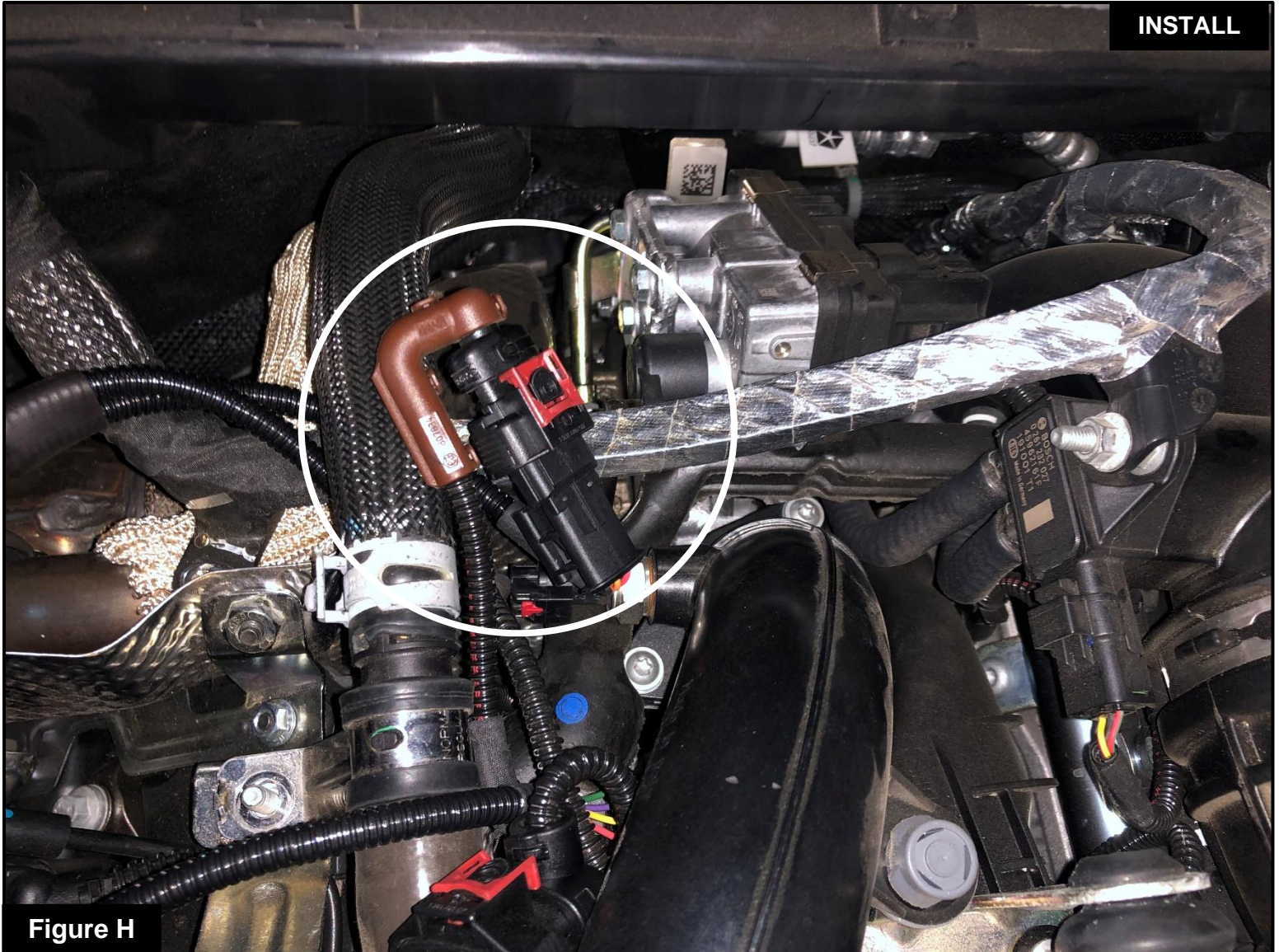
Make sure that the connections are fully engaged and not reversed. Usually, connectors make a snapping sound when fully engaged.

**Figure G****Refer to Figure G for Steps 10-11**

Step 10: Locate the fuel pressure sensor. It is underneath the heater hose and the main engine harness.

Disconnect it by pressing down on the locking tab and sliding the connector out of the sensor.

Step 11: Locate the fuel pressure sensor jumper harness on the aFe POWER module. This is the harness labeled "Fuel". Plug the female connector of the module to the stock fuel pressure sensor, then take the male connector of the module and connect it to the female connector of the engine harness.

**Figure H****Refer to Figure H for Step 12**

Step 12: Check with the picture to make sure the connectors are correctly seated and that the red tab is locked back into place.



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

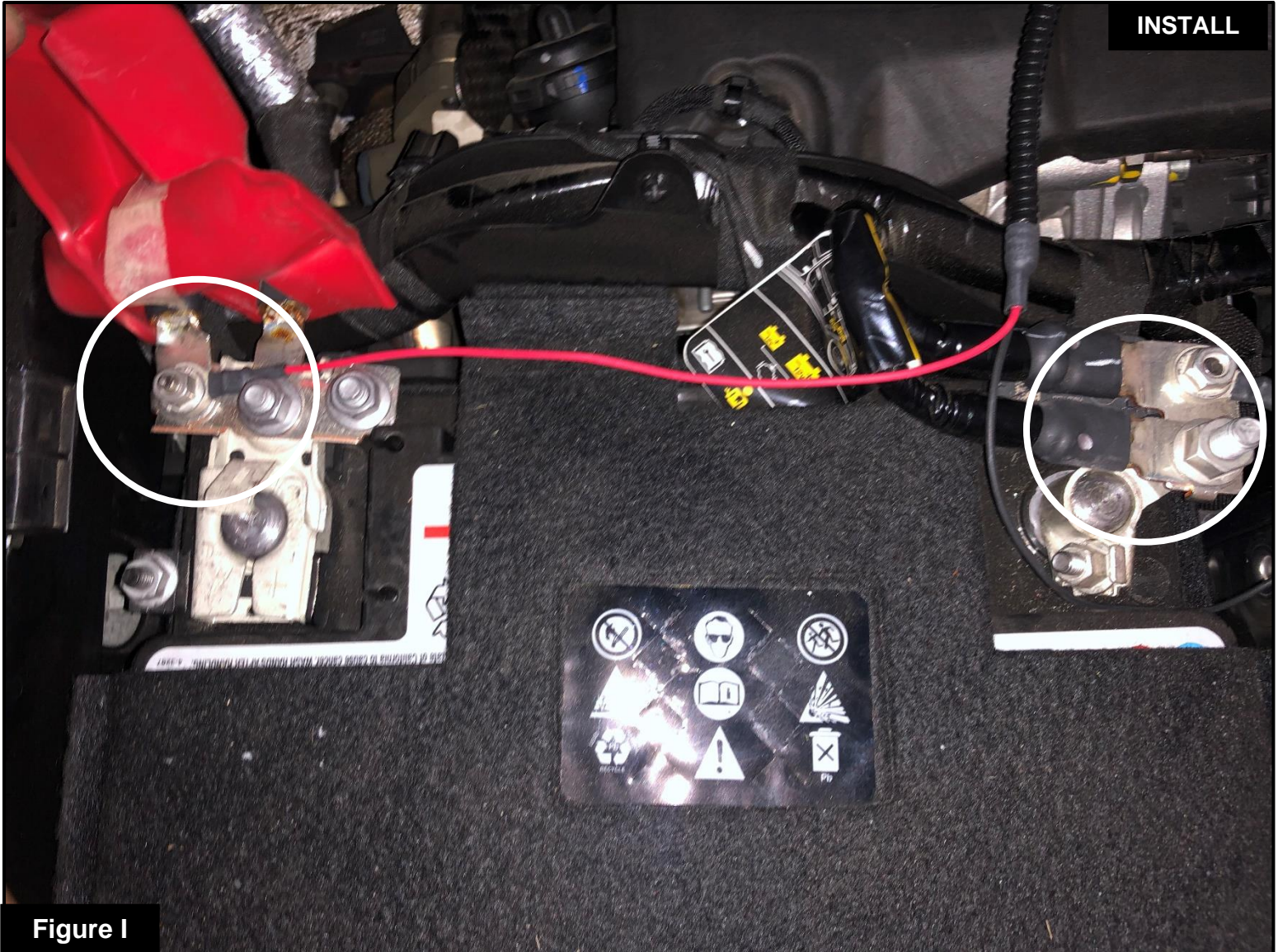


Figure I

Refer to Figure I for Steps 13-14

Step 13: Connect the black ground terminal cable of the aFe POWER module harness to the negative battery terminal.

Step 14: Connect the red power terminal cable of the aFe POWER module harness to the positive battery terminal.



Figure J

Refer to Figure J for Steps 15-19

- Step 15: Secure the Scorch Blue module on top of the fuse box using the supplied velcro
- Step 16: Connect the aFe POWER harness to the Scorch Blue module, making sure that the retaining tab clicks into place.
- Step 17: Use the included zip ties to secure the Scorch BLUE harness away from all moving parts and components that will get hot when the engine is running.
- Step 18: Re-install the insulation foam.
- Step 19: Remove the engine oil cap, and then reinstall the engine cover along with the two 10mm mounting bolts, and then reinstall the oil cap. Pay particular attention to how the cap screws on, as it is very easy to cross thread the oil cap and not making a tight seal.

The doors can now be opened to install the LED Switch (Optional if using the Bluetooth App)



Figure K

Refer to Figure K for Steps 20-21 (Optional)

Step 20: 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 21: Use the provided double sided tape to secure the LED switch in the desired location.

**Figure L****Refer to Figure L for Steps 22-24 (Optional)**

Step 22: 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 23: Locate the engine bay wiring access slot below the driver side kick panel.

Step 24: Route the switch cable through the firewall and into the engine bay using this slot.

**Figure M****Refer to Figure M for Steps 25-26 (Optional)**

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

Step 26: 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 (Picture is for reference)

The blue LED light will start flashing once the module is connected to the car and the ECU is on. The blue LED will become solid if the module gets connected through Bluetooth to a device



Figure O

Refer to Figure O (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. The LED switch can be used at the same time as the Bluetooth app.

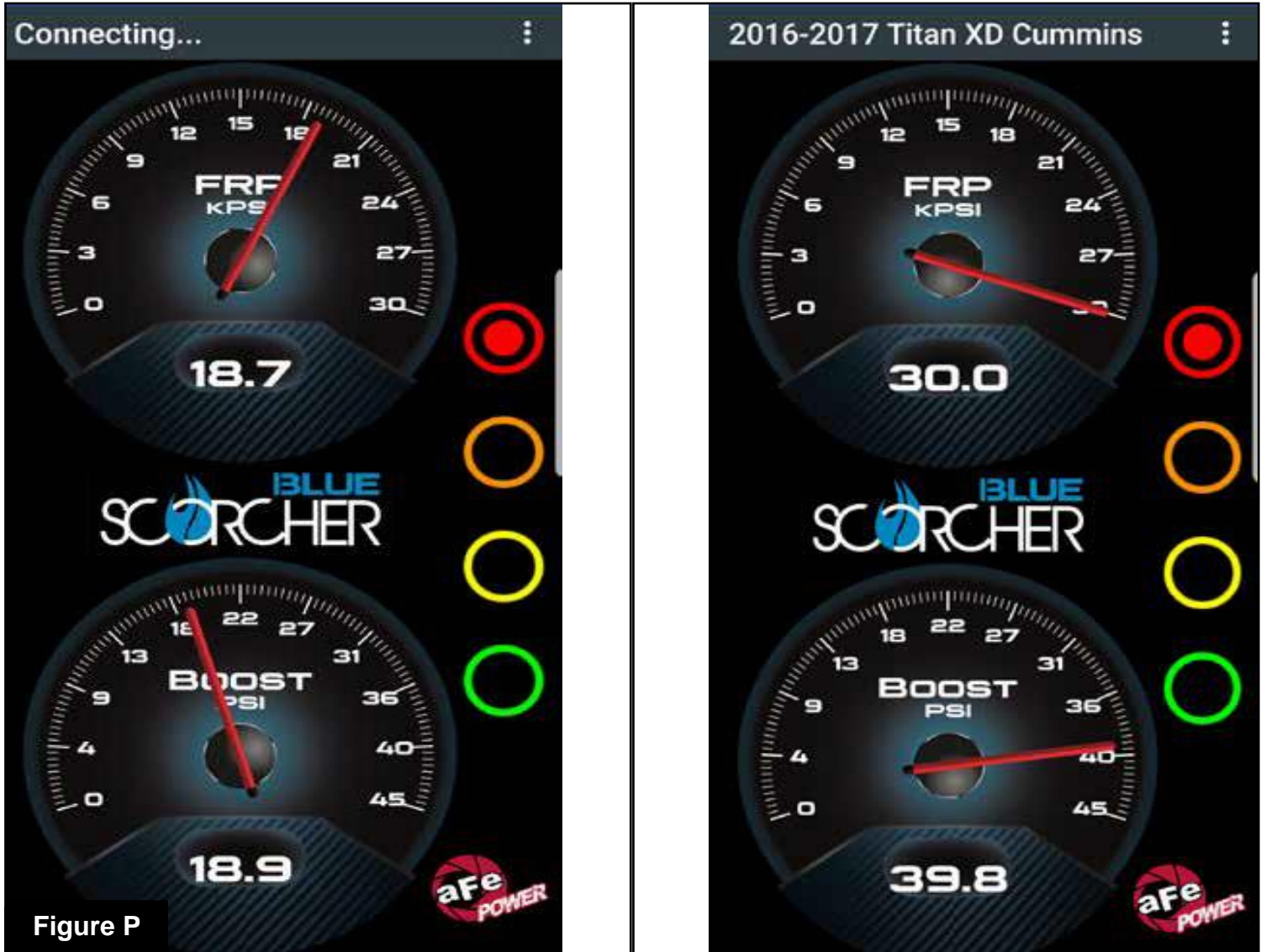


Figure P

Refer to Figure P* (app connection-iOS)

For iOS devices, download the app from the apps store. Make sure the Bluetooth is activated on your device. Open the app and it will automatically connect through Bluetooth to the SCORCHER BLUE module when both the vehicle and module are on. When connected, the vehicle description will appear on top of the screen and the gauges will show current data.

The blue LED light on the module will become solid once connected to a Bluetooth device. Simply tap on the green, yellow, orange and red button to switch between the modes.

**Screen shots shown here are for example only. Actual screen display will vary depending on your vehicle.*

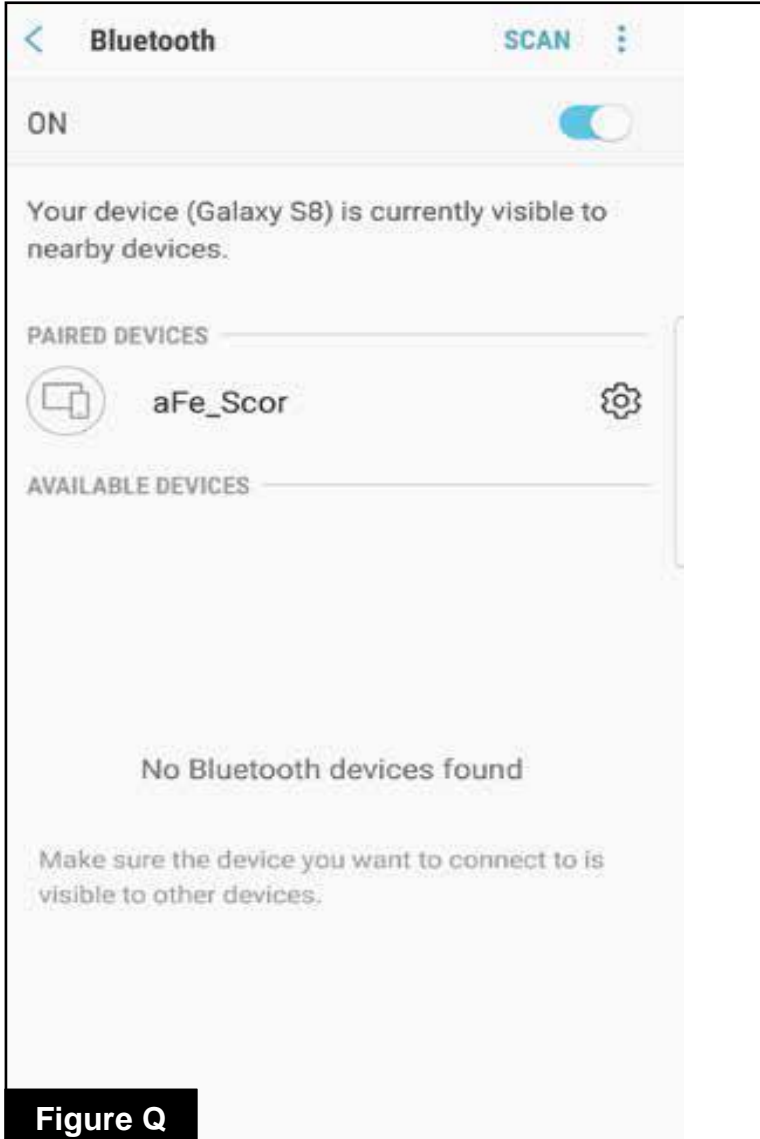


Figure Q

Refer to Figure Q* (app connection-Android)

For Android devices, download the app from the play store. For the initial connection, go to the Bluetooth settings of your device, turn on Bluetooth and scan for available devices. Select "aFe SCOR" and pair with device. The vehicle needs to be on and the module connected. Once shown as paired device, open the app on your device and it will automatically connect to the vehicle. The vehicle description will appear on top of the screen and the gauges will show current data.

The blue LED light on the module will become solid once connected to a Bluetooth device. Simply tap on the green, yellow, orange and red button to switch between the modes.

**Screen shots shown here are for example only. Actual screen display will vary depending on your vehicle.*

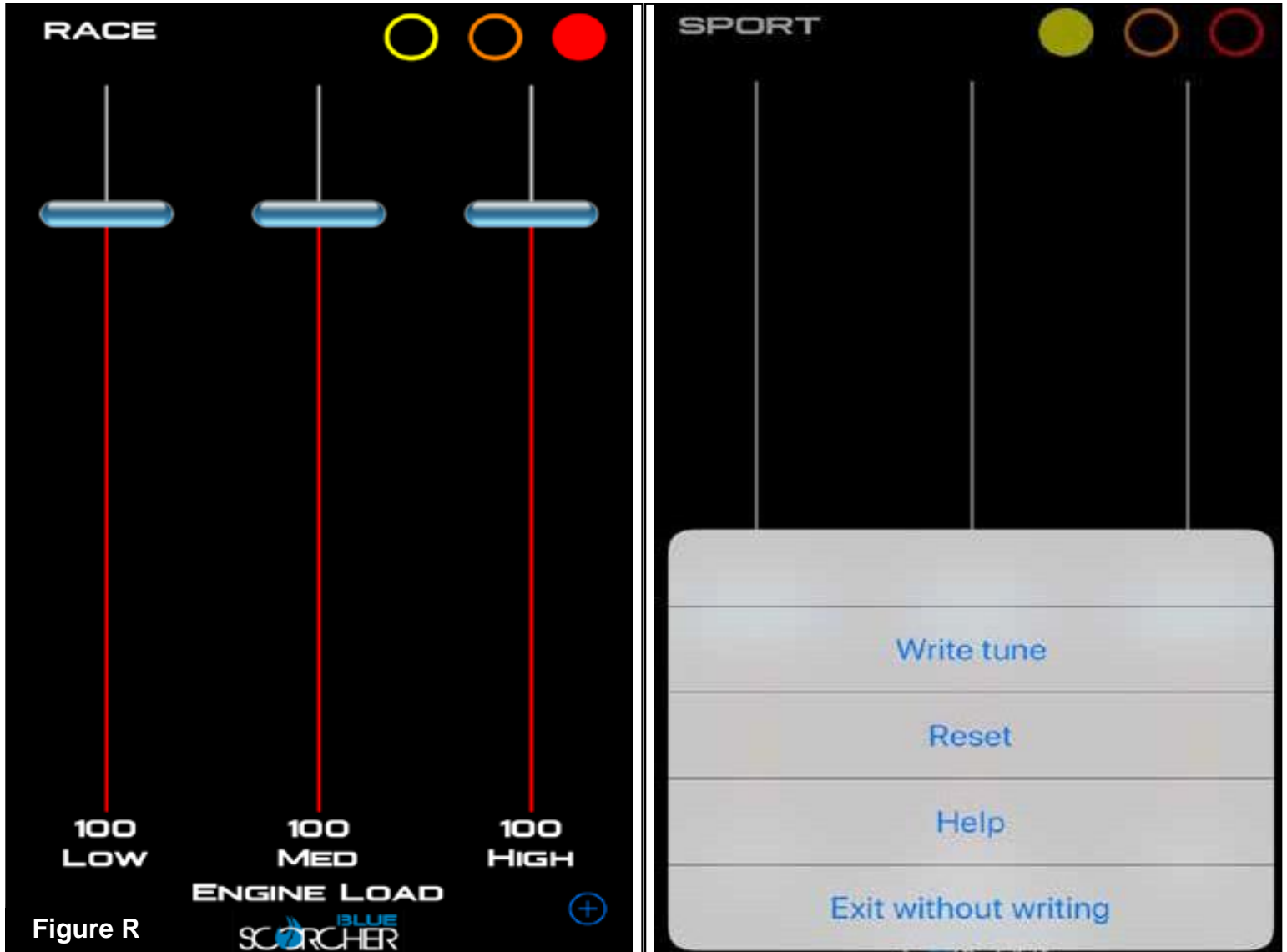


Figure R

Refer to Figure R (Custom Tuning)

The aFe POWER SCORCHER BLUE app offers the capability to custom tune the different modes. Go to the menu on the top right corner and select “Tune”. Select the mode you would like to custom tune and adjust the sliders at low, medium, and high load. You can either write the tune, reset, or exit without writing.



Disclaimer: Custom tuning should only be performed with the ignition in the “run” position and engine off. Configuring the tunes outside the default values may cause drivability issues and /or check engine lights to occur.



Refer to Figure S (Vehicle Performance Screen)

On the gauges screen, swipe to the left to get to the vehicle performance screen. When the vehicle is not moving, select the test you are wanting to attempt (0-60mph, ¼ mile or mile). The app will automatically detect the movement of the vehicle and the timer will start. Once you reach the speed or distance, the timer will stop. If you select a new mode, it will reset, and you can start again. If you need to stop the test at any point, hit the cancel button and leave the screen.


 Use the aFe POWER SCORCHER BLUE app responsibly. Always drive safely and obey traffic laws. aFe POWER is not responsible for any accidents, injuries, or property damage that may occur during its use.



Figure T

Refer to Figure T (Bypass Plug)

A bypass plug is included in the kit. The plug can be connected to the harness instead of the module. Once the bypass plug is connected, the vehicle will run in factory settings. Make sure the plug is fully engaged when connected to the harness. Thank you for choosing aFe POWER!



The vehicle needs to be in sleep mode when the module gets disconnected and the bypass plug connected. Wait for the blue LED on the module to stop flashing to make sure the vehicle is in sleep mode.



Sprint Booster V3



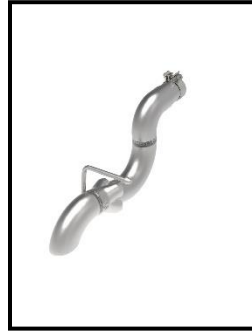
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Magnum FLOW air Filter



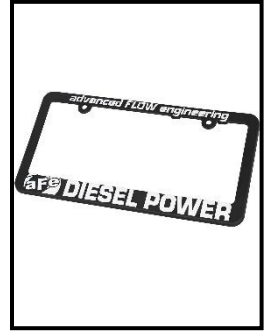
P/N: 30-10316

High-Tuck Exhaust System



P/N: 49-38091

aFe POWER Diesel Frame



P/N: 40-10204

Large Bore Exhaust System



P/N: 49-38092-B

aFE Diesel Tee-Shirt



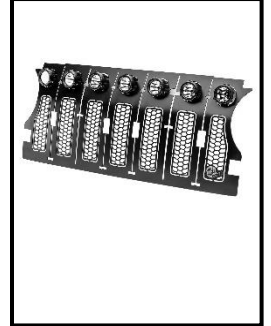
P/N: 40-30221

aFe POWER Tactical Backpack



P/N: 40-33205-B

Scorpion Insert Grille



P/N: 79-21004L