advanced FLOW engineering

Instruction Manual

P/N: 77-86005 SCORCHER BLUE POWER MODULE

Make: **Toyota**	Model: **Land Cruiser (J300)***	Year: **2022**	Engine: **V6-3.5L (tt)**
Make: **Toyota**	Model: **Tundra**	Year: **2022**	Engine: **V6-3.5L (tt)**
Make: **Lexus**	Model: **LX 600**	Year: **2022**	Engine: **V6-3.5L (tt)**

***Non-U.S. Model**

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.

DISCLAIMER OF WARRANTY AND LIMITATION OF LIABILITY: Advanced FLOW Engineering, Inc. (also known as aFe or aFe POWER) and its successors, distributors, jobbers, and dealers (hereafter "SELLER") shall in no way be responsible for the product's improper use and service. It is the installer's responsibility to check for proper installation and if in doubt, contact the manufacturer. The SELLER assumes no liability regarding the improper installation or misapplication of its products. BUYER acknowledges it has had the opportunity to fully inspect the product. Accordingly, BUYER acknowledges that the product is being sold in "AS IS/WHERE IS" condition. SELLER shall not be held liable for special, indirect, incidental or consequential damages of any nature with respect to the products (including, without limitation, lost profits, lost sales, loss of production, property damage, personal injury or loss or damage resulting from interruption or failure in operation of the products) and BUYER hereby expressly waives and disclaims all such liability claims. The BUYER acknowledges and agrees that the disclaimer of liability contained herein is a material term of the sale of the product and, to the fullest extent permitted by law, BUYER shall defend, indemnify and hold SELLER harmless from any and all claims, demands, causes of action, controversies, liabilities, fines, losses, costs and expenses (including, but not limited to attorneys' fees, expert witness expenses and litigation expenses) arising from or related to SELLER's products.

Before proceeding with the installation:

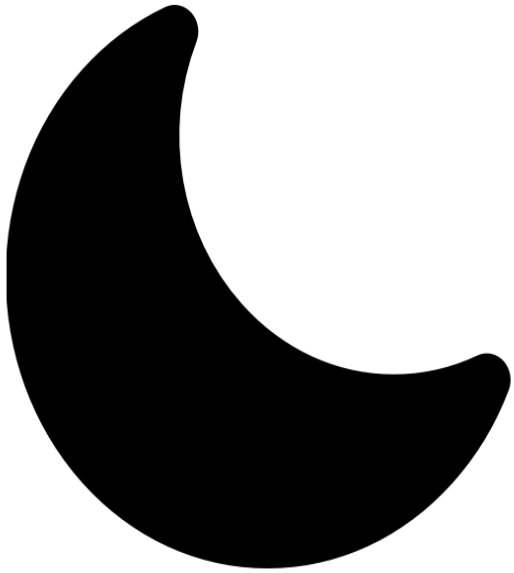
- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- If you are missing any of the components, call customer support at 951-493-7185.
- Ensure you have all necessary tools before proceeding. Do not attempt to work on your vehicle when the engine 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	R77-86005
B	1	LED Switch	05-70029
C	1	Bypass Plug	05-70017
D	1	Harness	AFE-10-257
E	2	Velcro (2” Inches)	05-01244
F	5	Cable Ties	05-60167
G	2	Double Sided Tape	07-90001

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

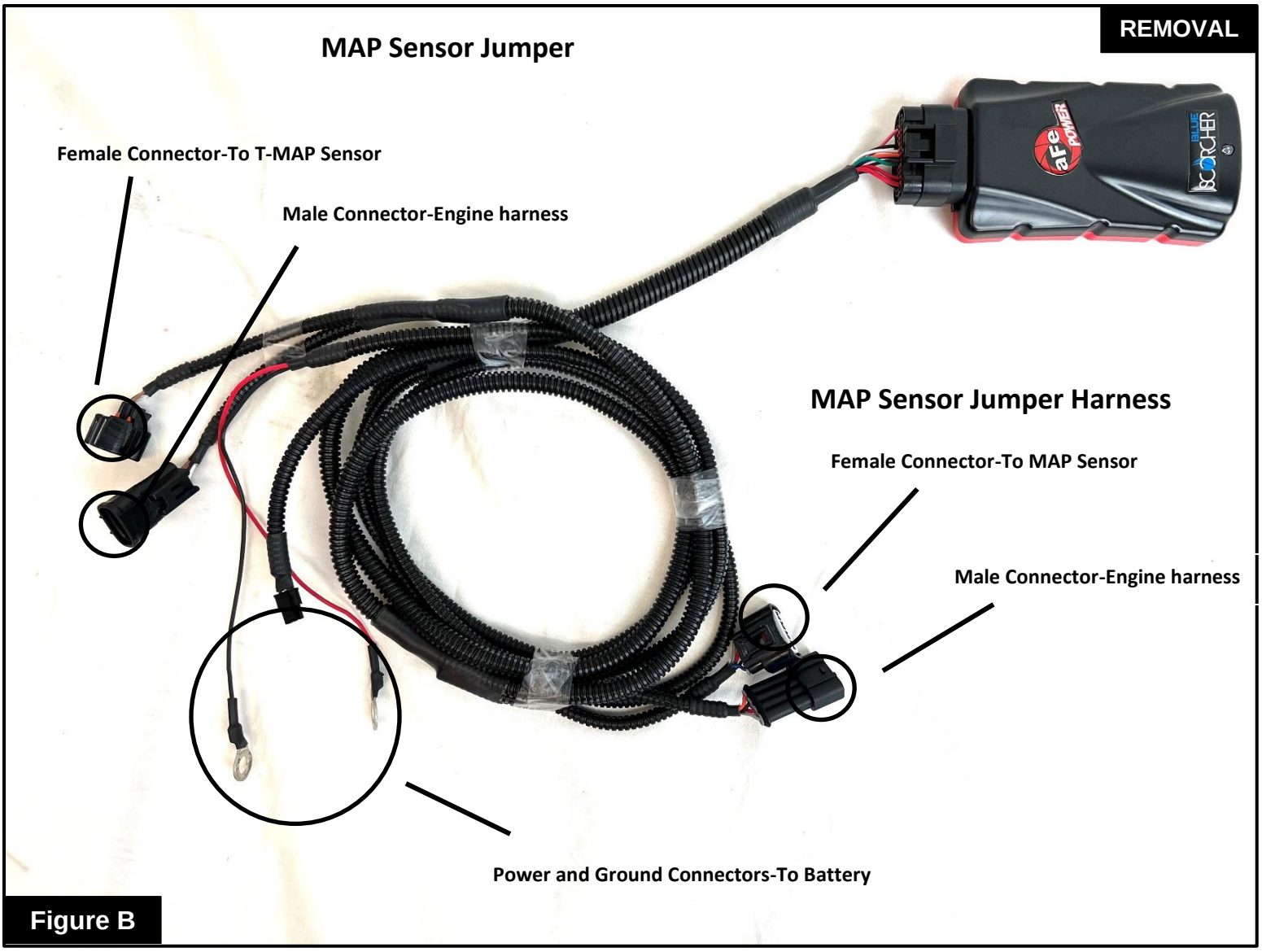


Figure B

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 MAP sensor jumper harness will be the shorter set of wires. It has a 4 wires connector.
- The T-MAP sensor jumper harness will be the longer set of wires. It has a 3 wires connector.

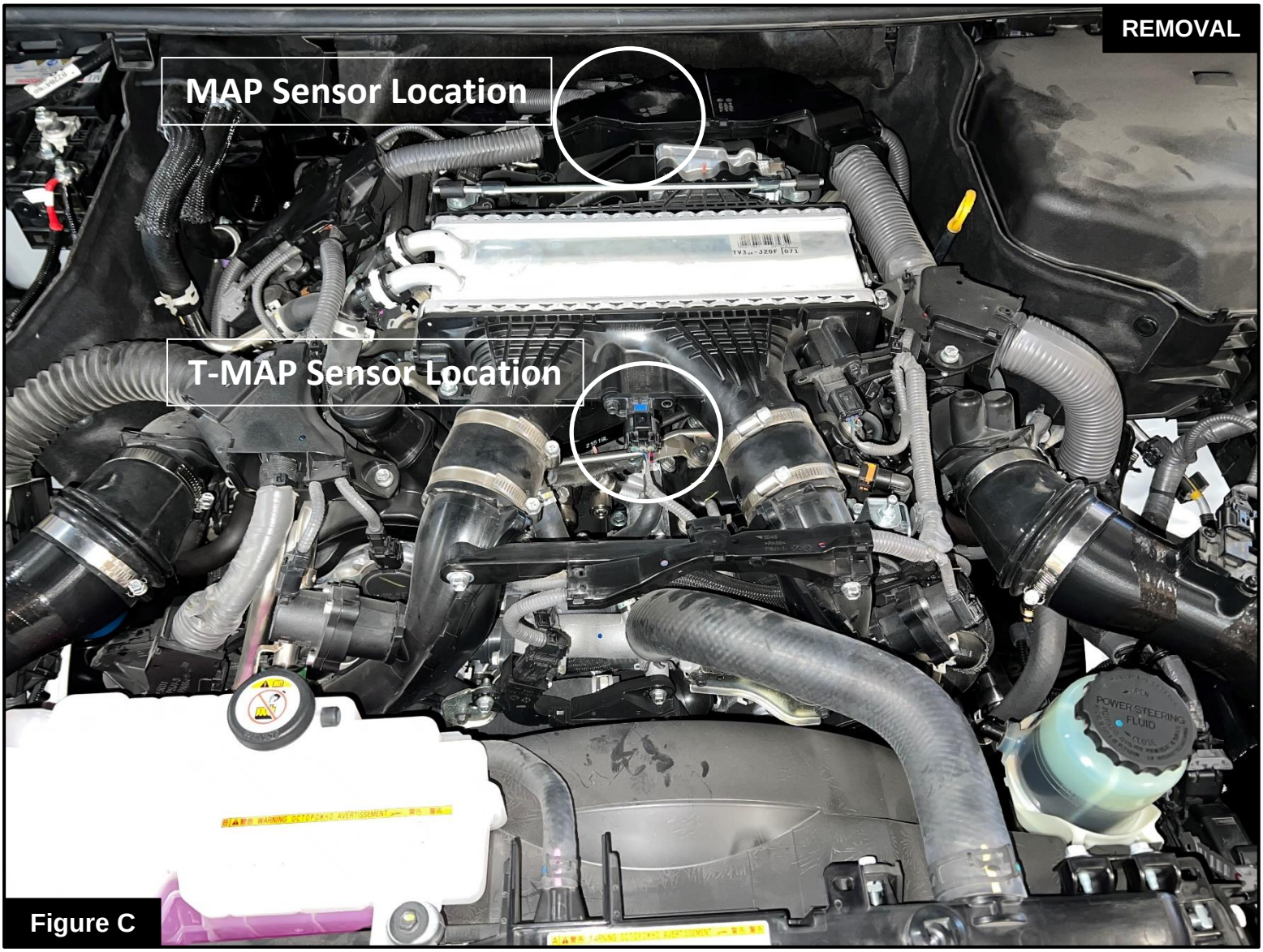


Figure C

Refer to Figure C for Steps 3-5

Step 3: Lift up on the engine cover and remove it from the engine bay to gain access to the sensors required for the installation.

Step 4: Locate the MAP sensor. The MAP sensor is located on top of the intake manifold towards the back of the engine bay. It has a 4-wires connector that sits at a 90 degrees angle.

Step 5: The T-MAP sensor is located on the heat exchanger manifold in the middle of the engine bay. It has a 3-wires connector.

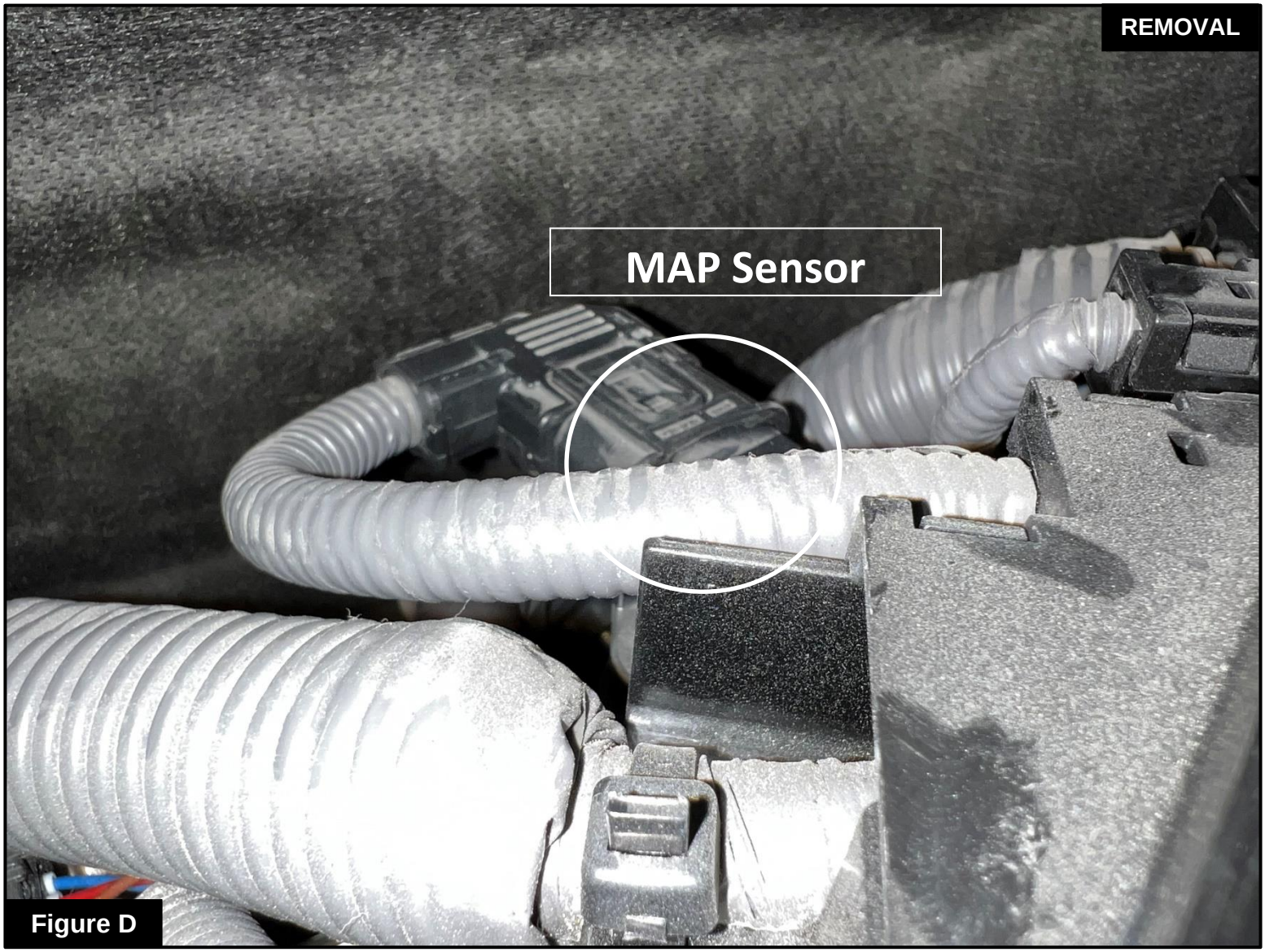


Figure D

Refer to Figure D for Step 6

Step 6: Disconnect the MAP sensor by pressing down on the connector and sliding it out of the sensor.

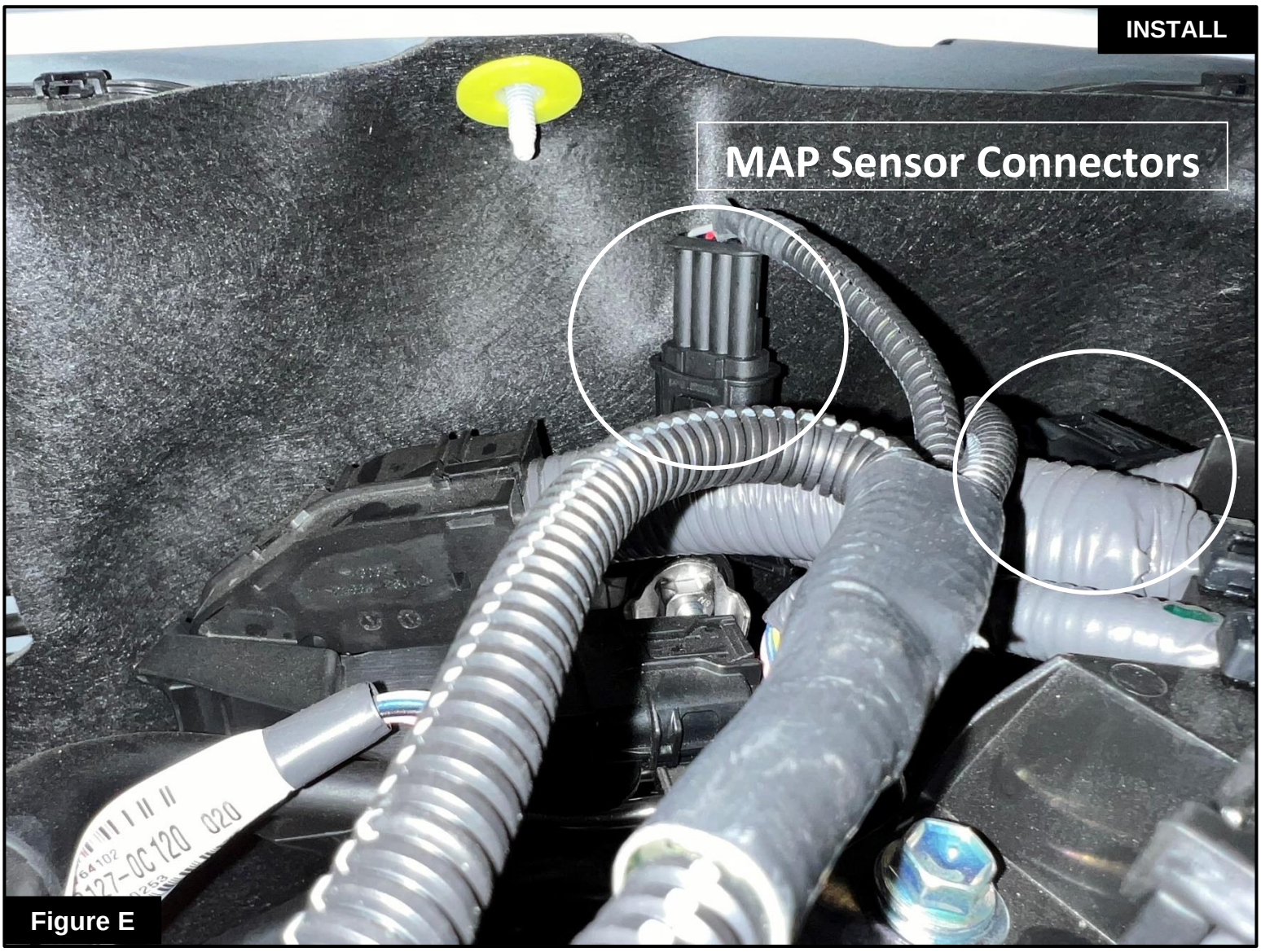


Figure E

Refer to Figure E for Steps 7-9

Step 7: Locate the 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 “MAP”.

Step 8: 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.

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.

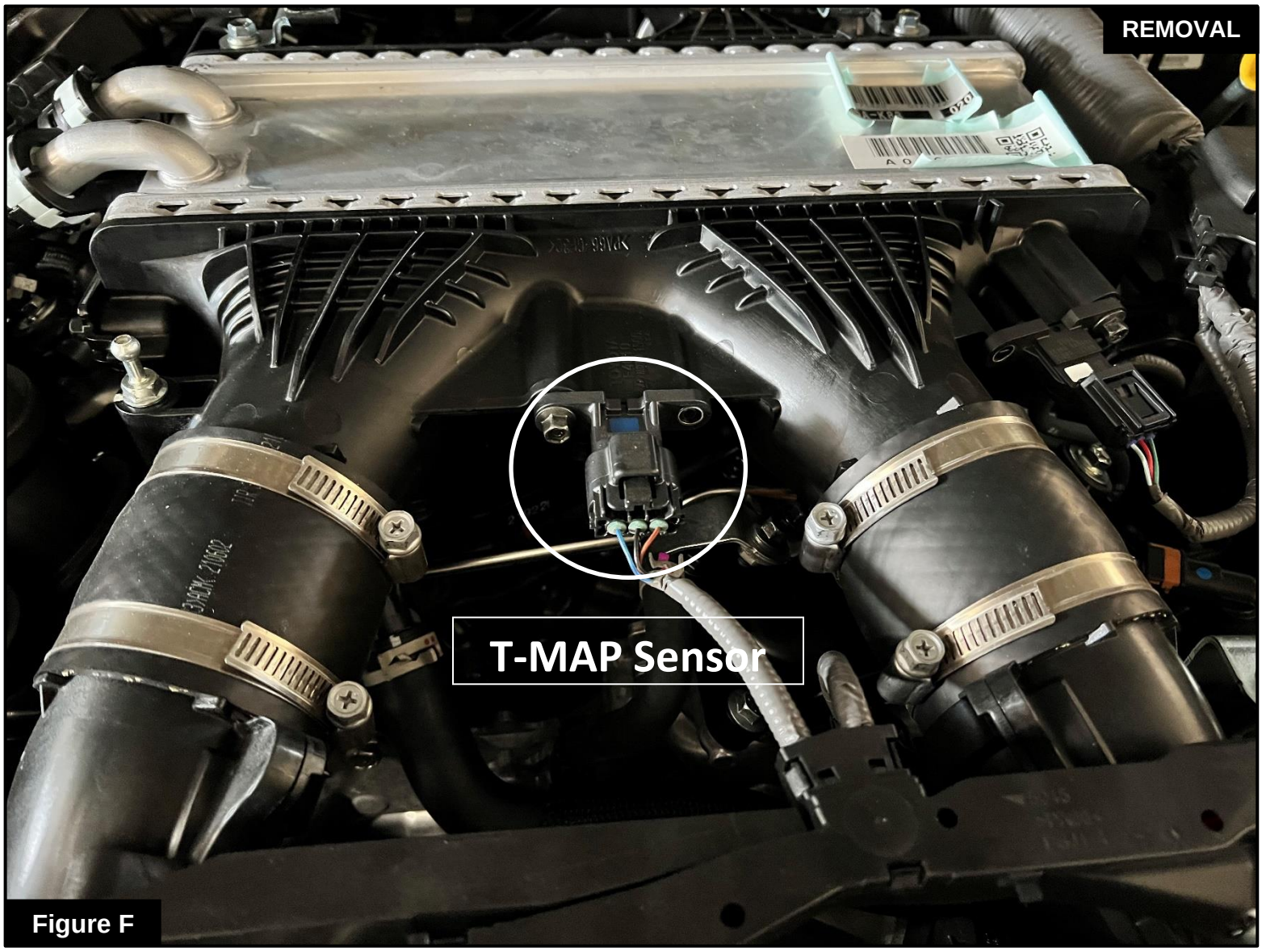


Figure F

Refer to Figure F for Steps 10-11

Step 10: Locate the T-MAP sensor on the intercooler.

Step 11: Disconnect the T-MAP sensor by pressing down on the connector and sliding it out of the sensor.

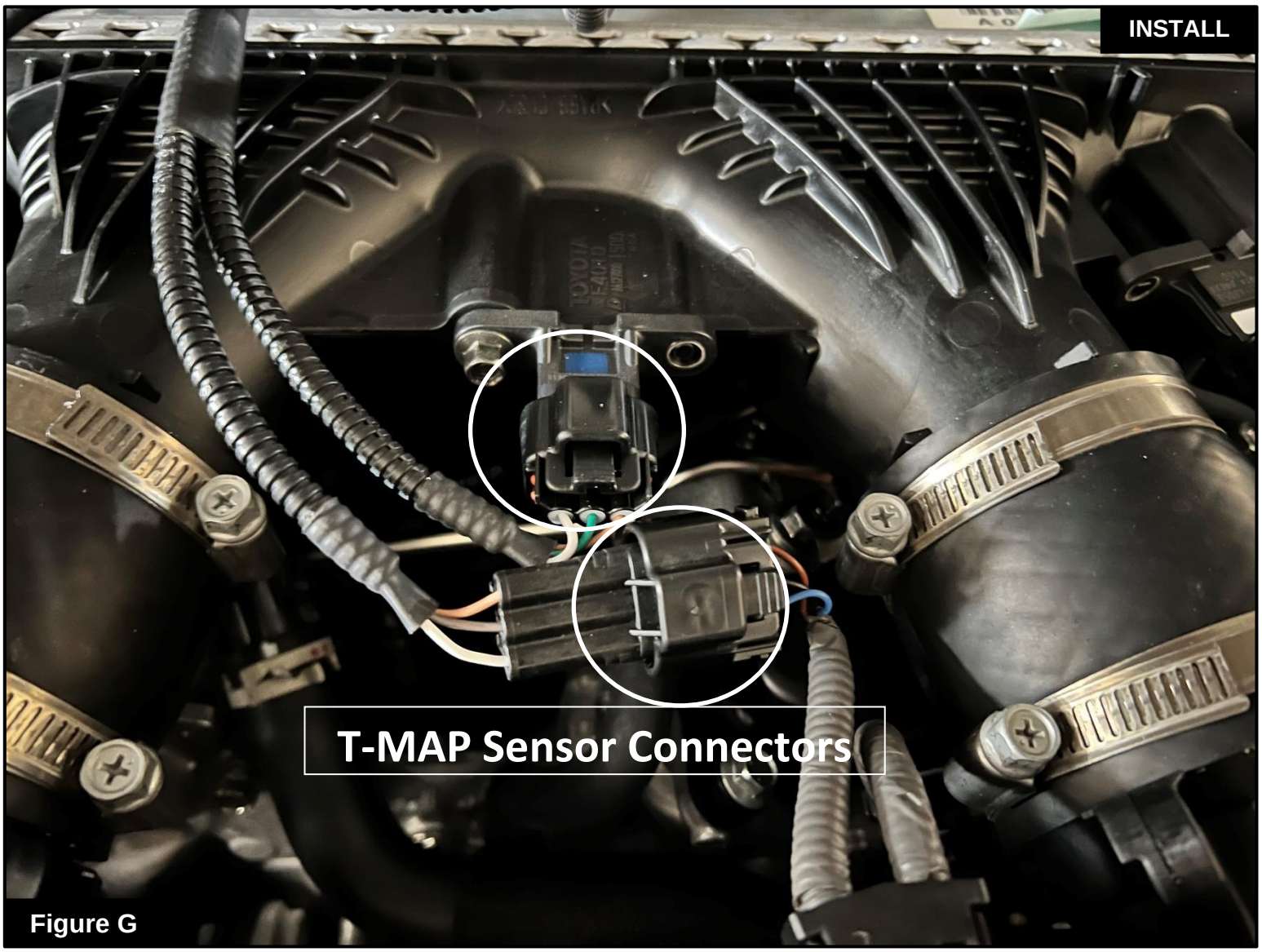


Figure G

Refer to Figure G for Steps 12-15

Step 12: Locate the T-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 “T-MAP”.

Step 13: 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.

Step 14: Check with the picture to make sure the connectors are fully seated and that the locking tab is slid back into place.

Step 15: Reinstall the engine cover.

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

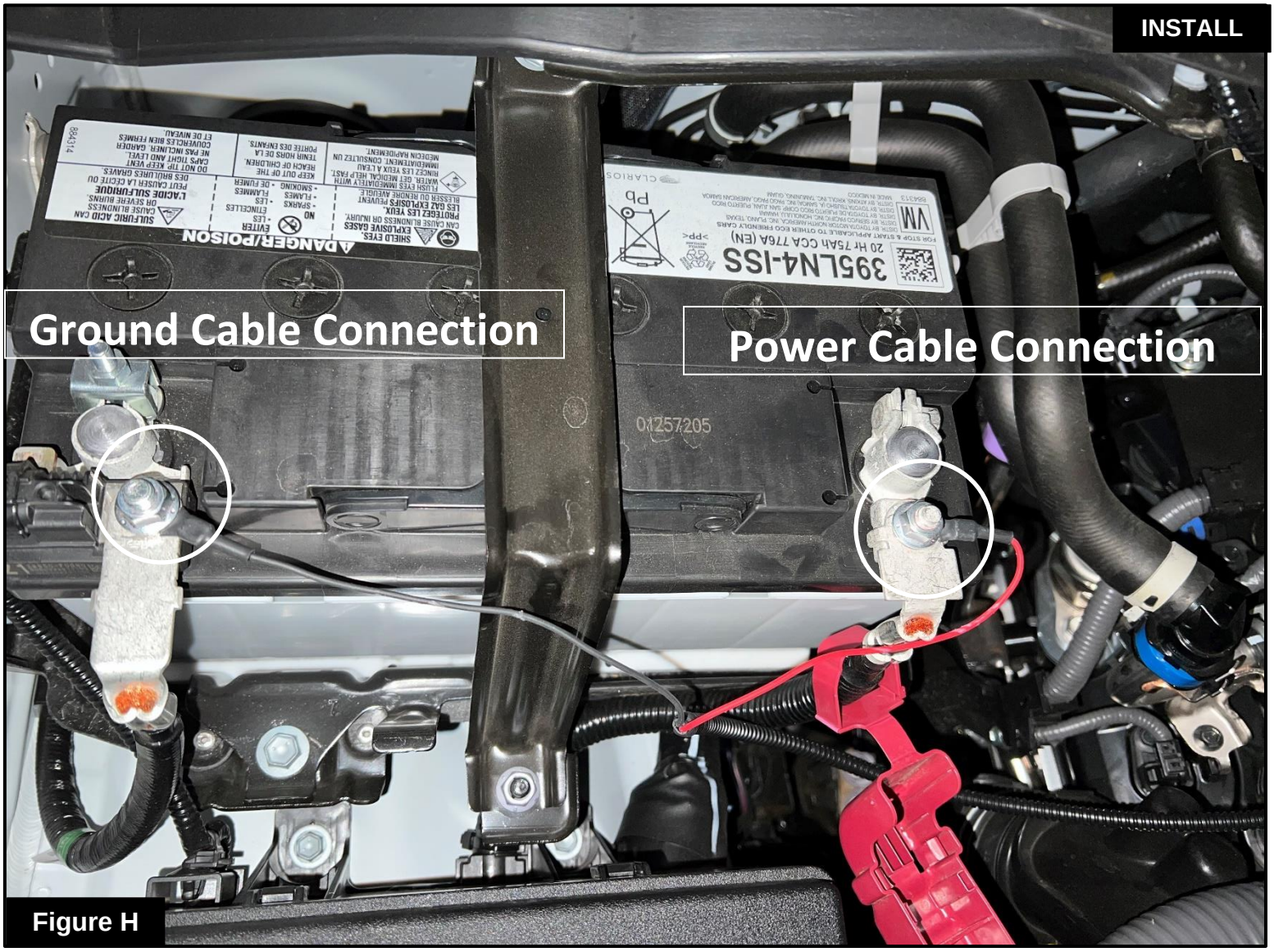


Figure H

Refer to Figure H for Steps 16-18

Step 16: Locate the battery on the passenger side of the engine bay.

Step 17: Connect the black ground terminal cable of the aFe POWER module harness to the negative battery terminal.

Step 18: Connect the red power terminal cable of the aFe POWER module harness to the positive battery terminal.

If the vehicle needs to be jump-started, the module will have to be disconnected from the harness, and the bypass plug installed in place of the module. This is to protect the Scorcher Blue module from any damage that may occur when jump-starting.

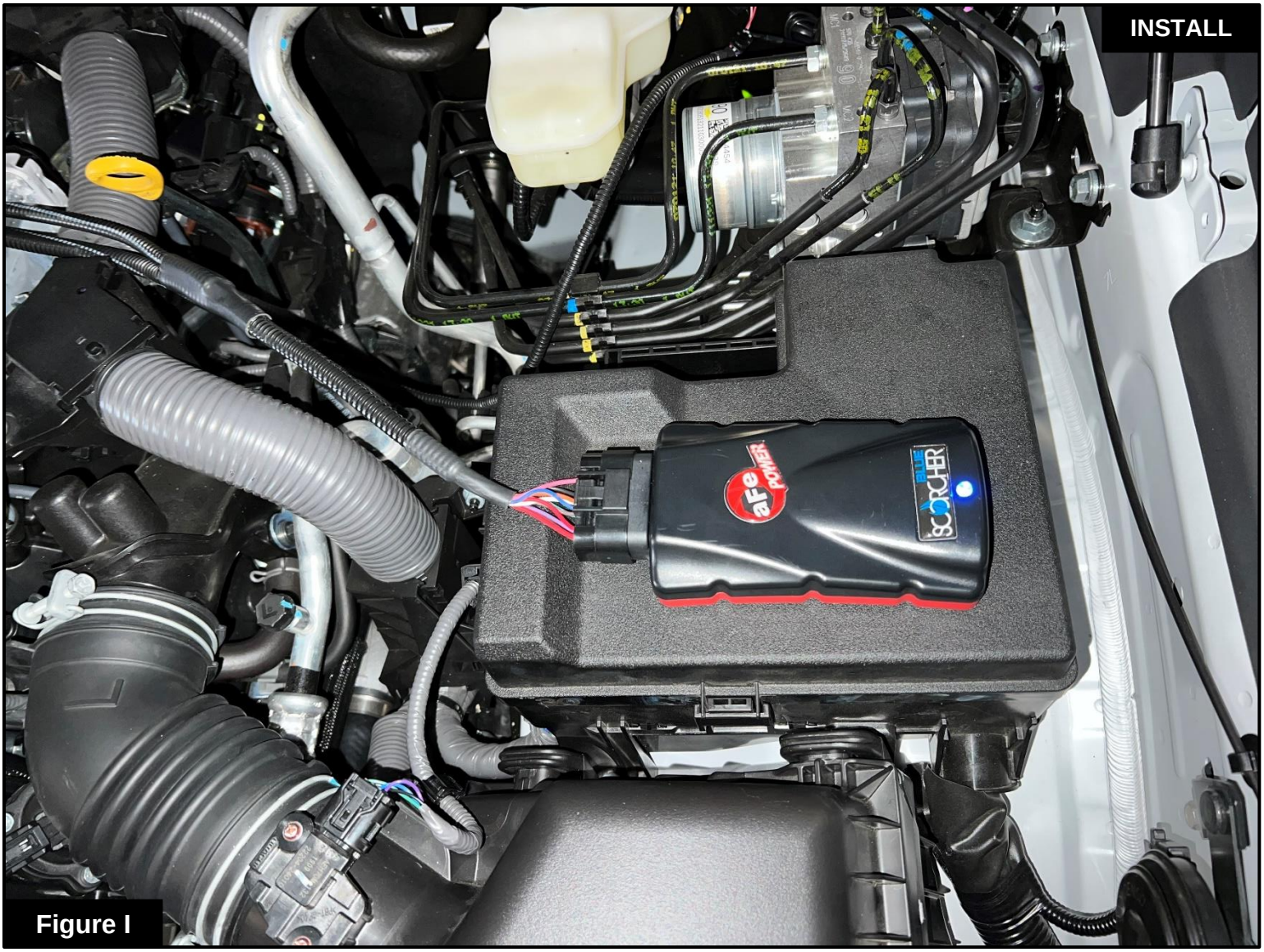


Figure I

Refer to Figure I for Steps 19-22

Step 19: Select a location to mount the Scorcher BLUE Power Module. We recommend that the module be mounted in a place that is dry, away from extreme heat and moving parts.

Step 20: For our installation, we found the best location to be on top of the fuse box on the driver side of the engine bay. Secure the Scorcher BLUE module in this location using the supplied velcro.

Step 21: Connect the aFe POWER harness to the Scorcher Blue module, making sure that the retaining tab clicks into place.

Step 22: Route the harness wires and secure them using the included zip ties for a neat installation.

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

Figure J

Refer to Figure J for Steps 23-24 (Optional)

Step 23: 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 24: Use the provided double sided tape to secure the LED switch in the desired location.

Figure K

Refer to Figure K for Steps 25-27 (Optional)

Step 25: 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 26: Locate the engine bay wiring access slot below the driver side kick panel.

Step 27: Route the switch cable through the firewall and into the engine bay using this slot.

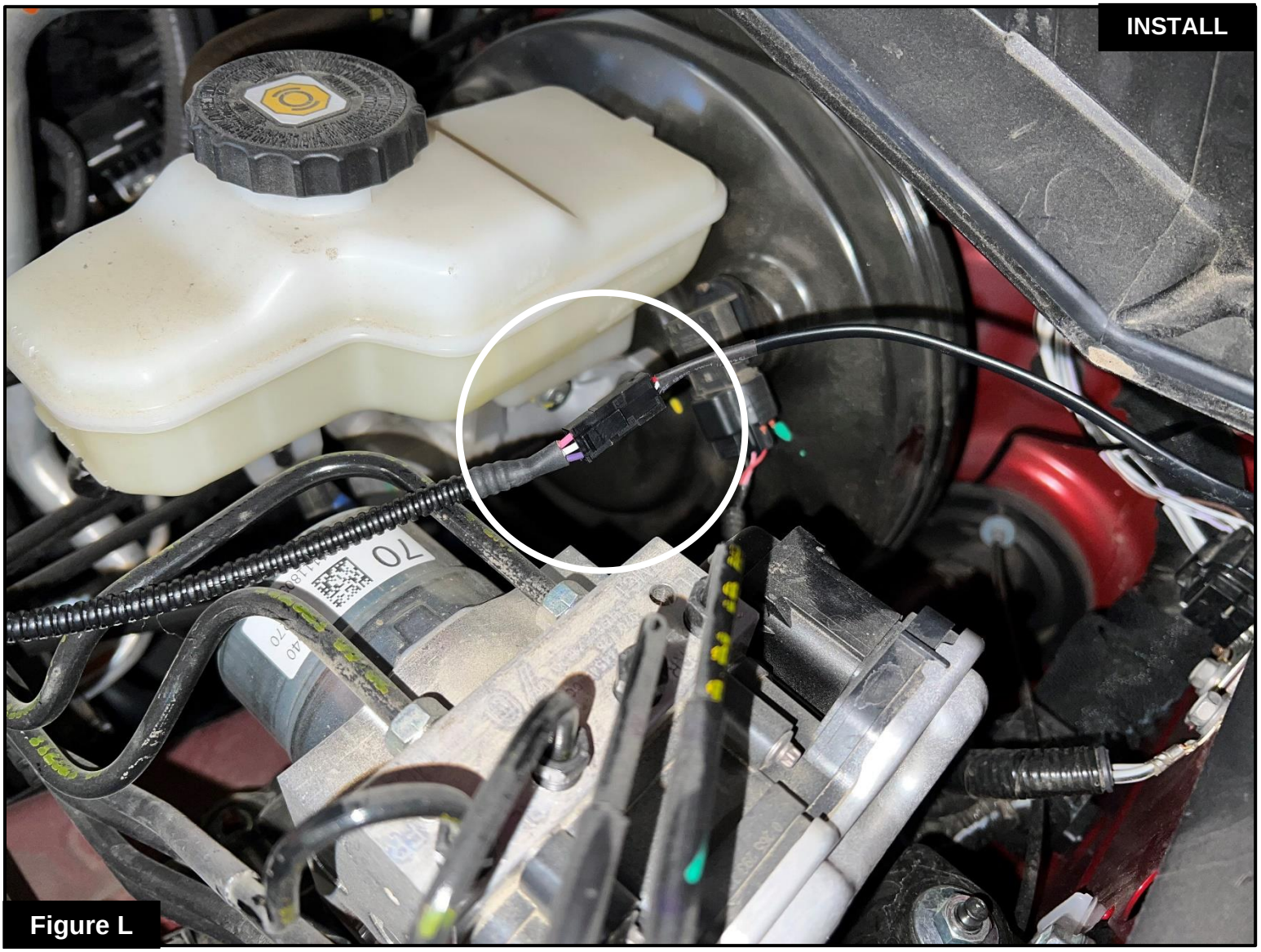


Figure L

Refer to Figure L for Steps 28-29 (Optional)

Step 28: Plug the end of the LED switch cable to the aFe POWER harness inside the engine compartment.

Step 29: 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 M

Refer to Figure M (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 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.

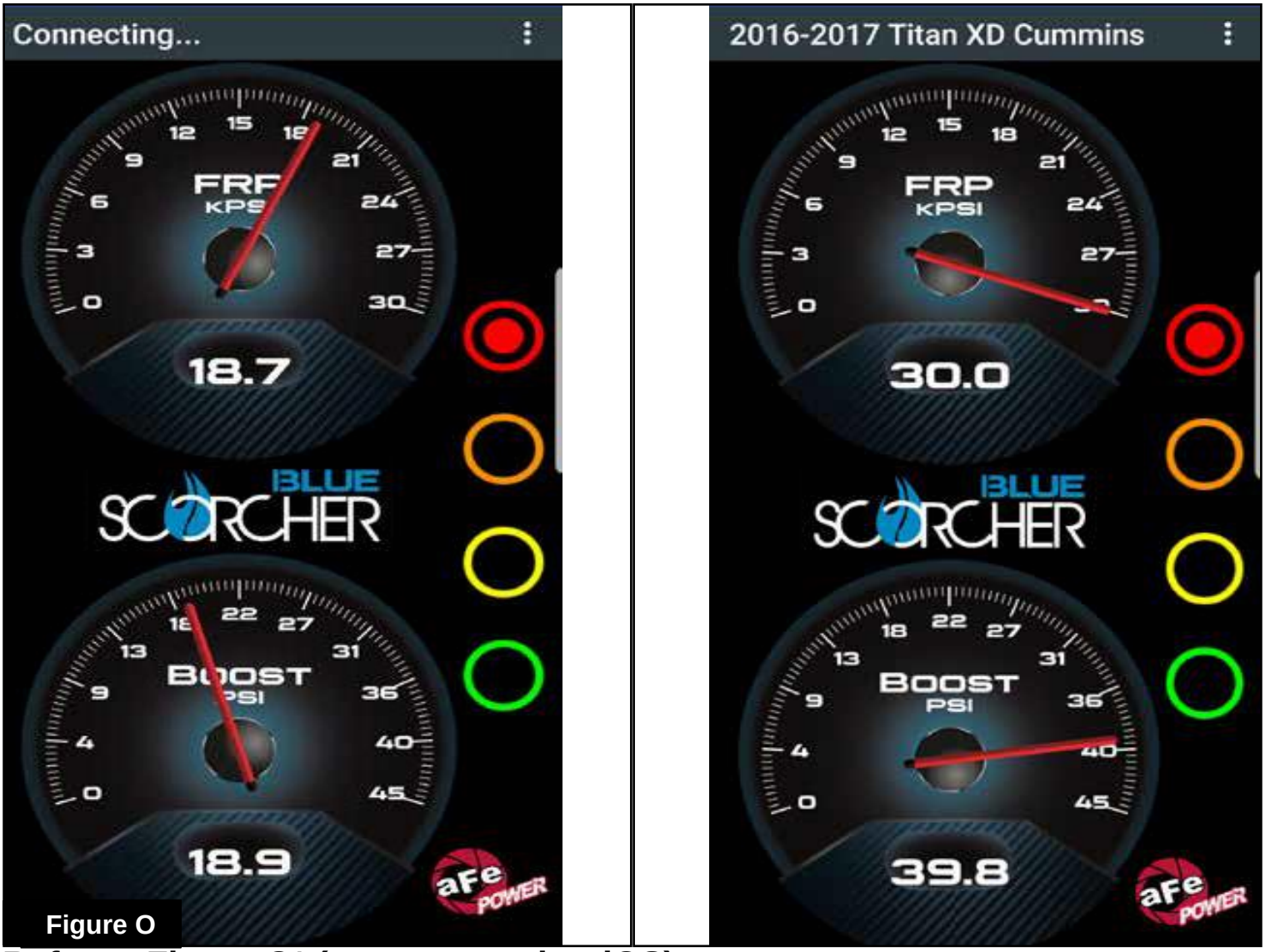


Figure O

Refer to Figure O* (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.*

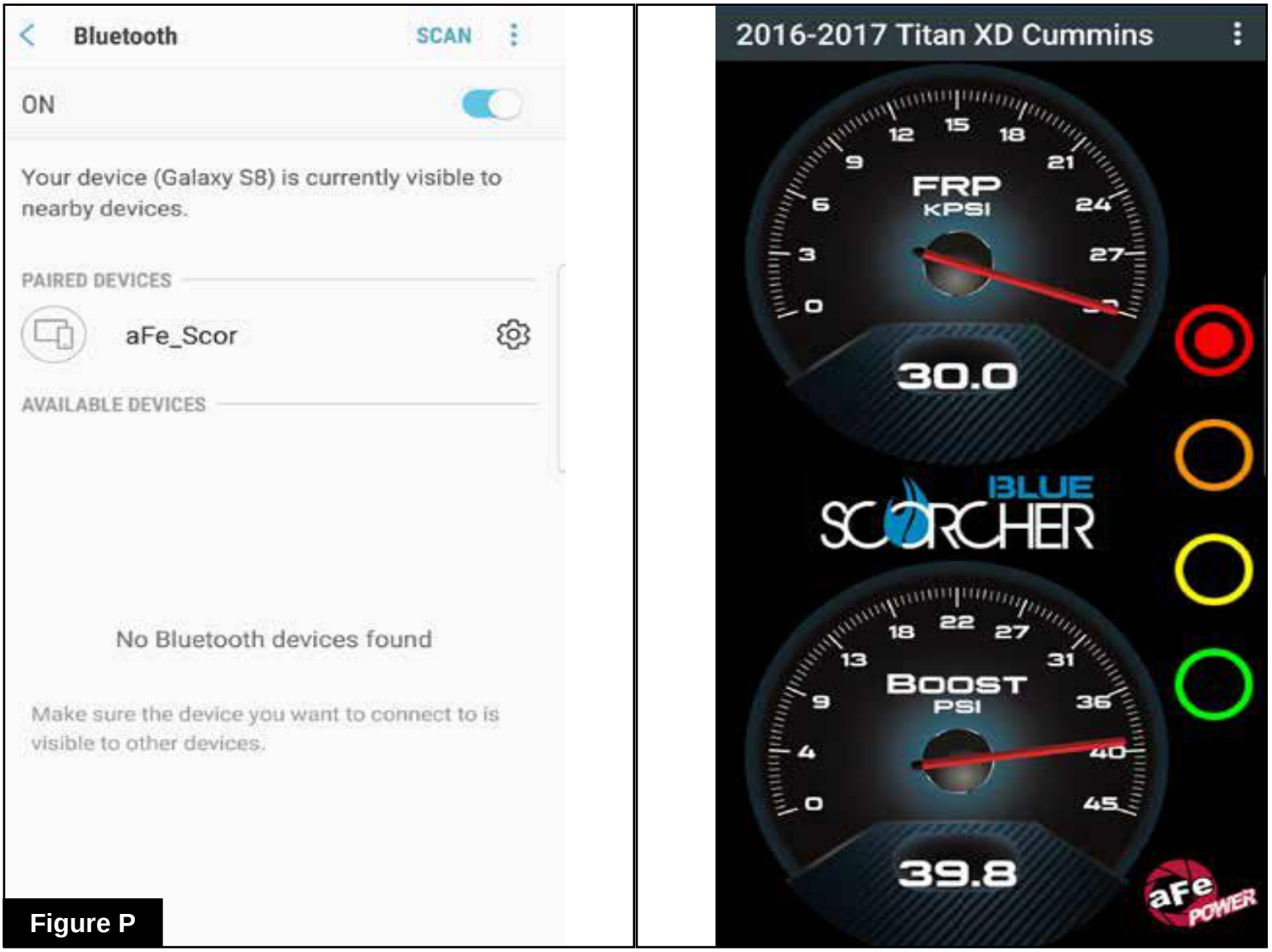


Figure P

Refer to Figure P* (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.

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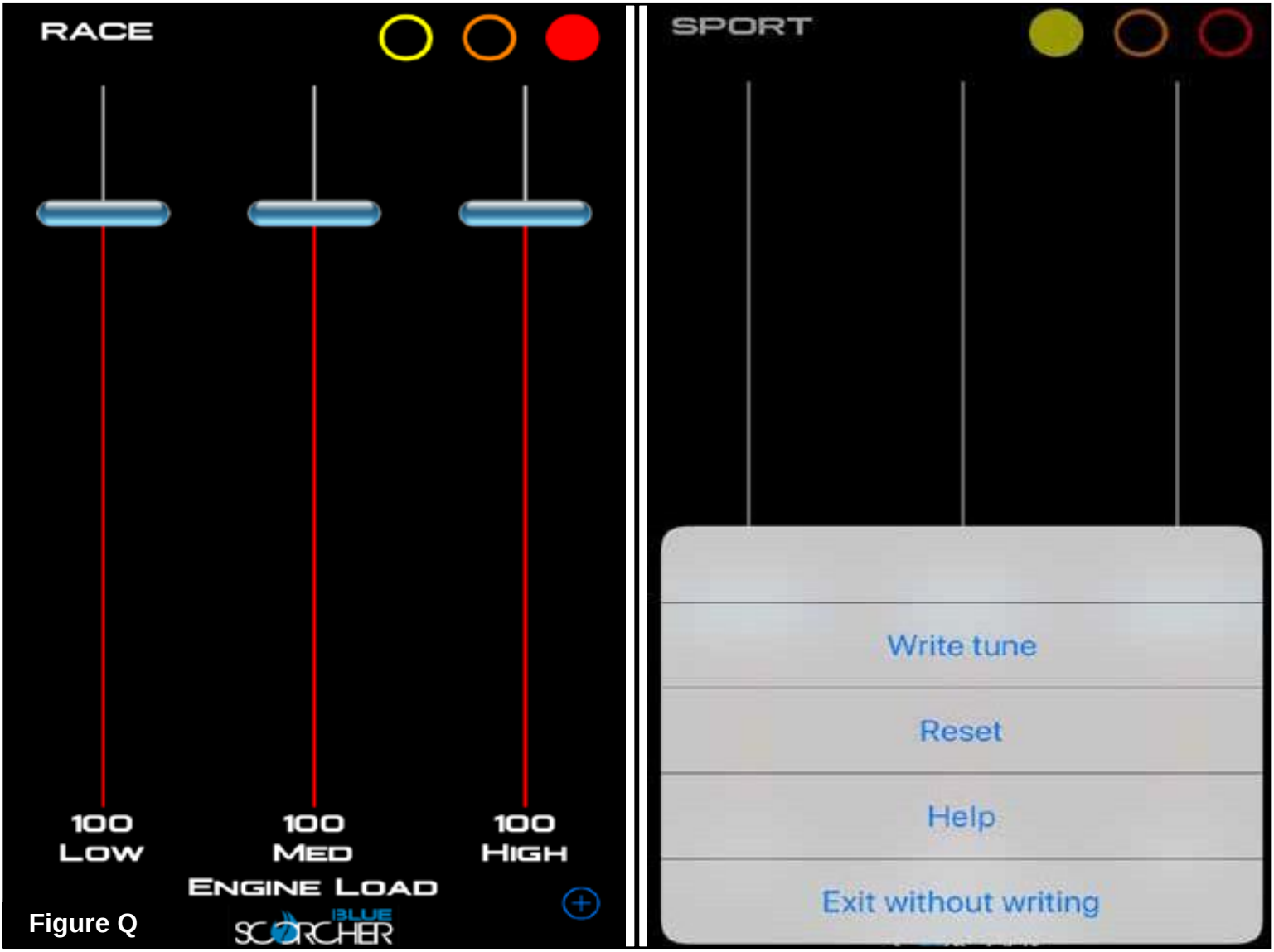

Figure Q

Refer to Figure Q (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 f. Configuring the tunes outside the default values may cause drivability issues and /or gine lights to occur.

Figure R

Refer to Figure R (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 S

Refer to Figure S (Bypass Plug)

A bypass plug is included in the kit. The plug can be connected to the harness instead of the module. This bypass plug will need to be used when the vehicle needs to be jump-started, or when there is an issue with the drivability of the vehicle. 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.

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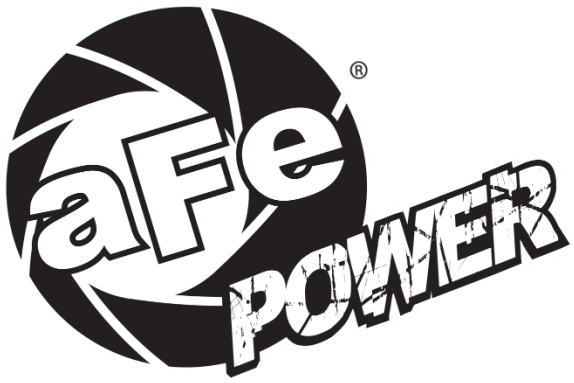

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