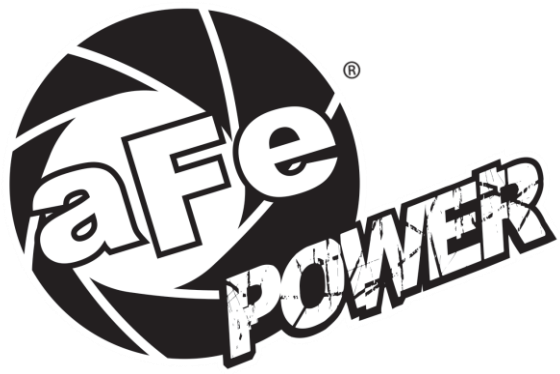




advanced FLOW engineering

Instruction Manual

P/N: 77-46016

SCORCHER HD POWER MODULE

Make: **Toyota**

Model: **Hilux**

Year: **2020-2026**

Engine: **L4-2.8L (td)**

Make: **Toyota**

Model: **Fortuner**

Year: **2020-2026**

Engine: **L4-2.8L (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.

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.

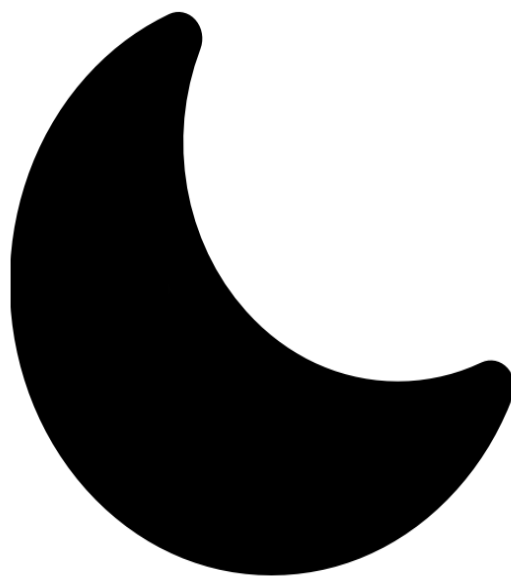
Warranty Information available at <https://afepower.com/contact#warranty>

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	R77-46016
B	1	Harness	AFE-11-102
C	1	LED Switch	05-70029
D	1	Bypass Plug	ADS-03-053
E	2	Velcro (2" Inches)	05-01244
F	5	Cable Ties	05-60167
G	2	Double Sided Tape	07-90001





SLEEP MODE

Figure A

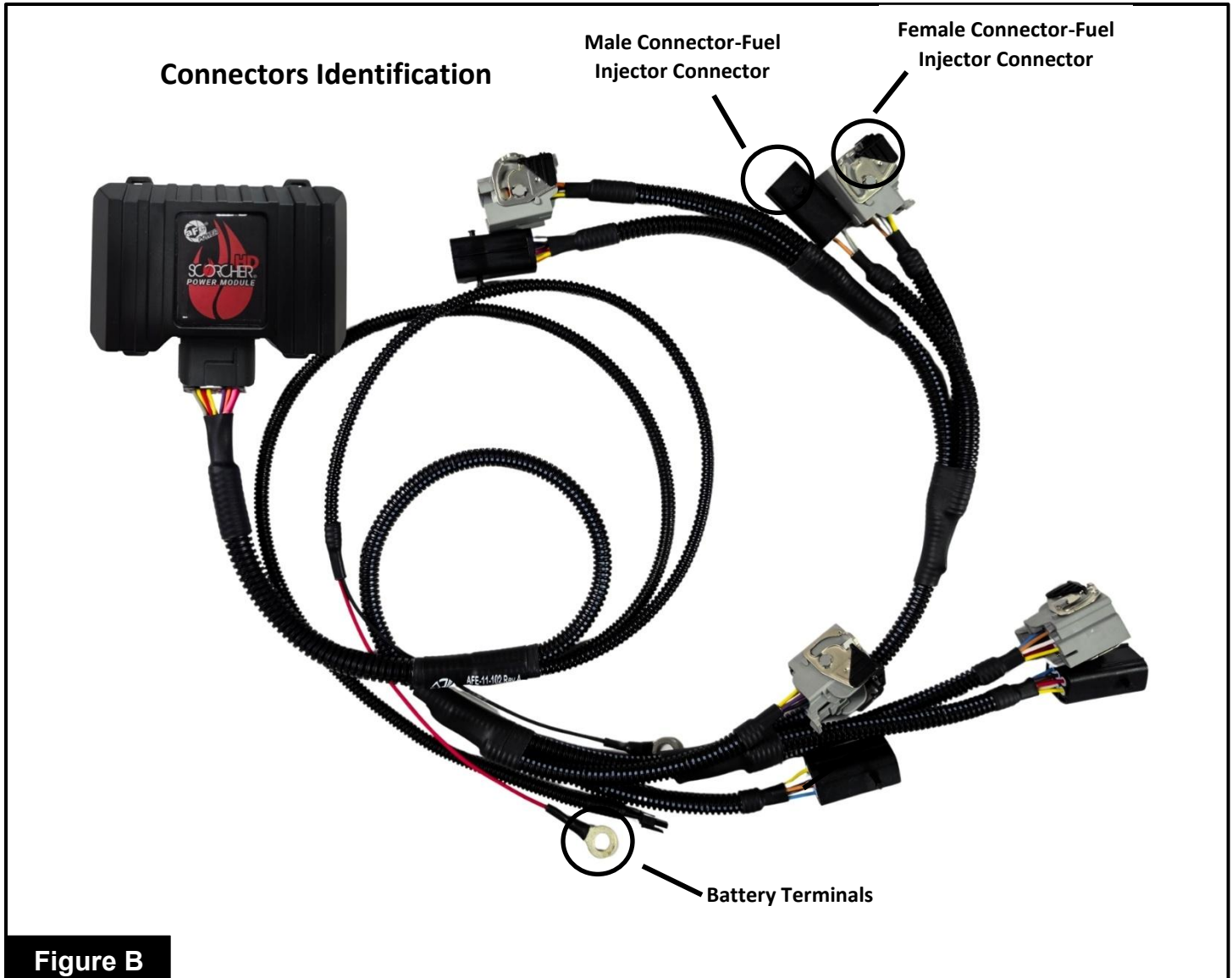
Refer to Figure A for Step 1

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.

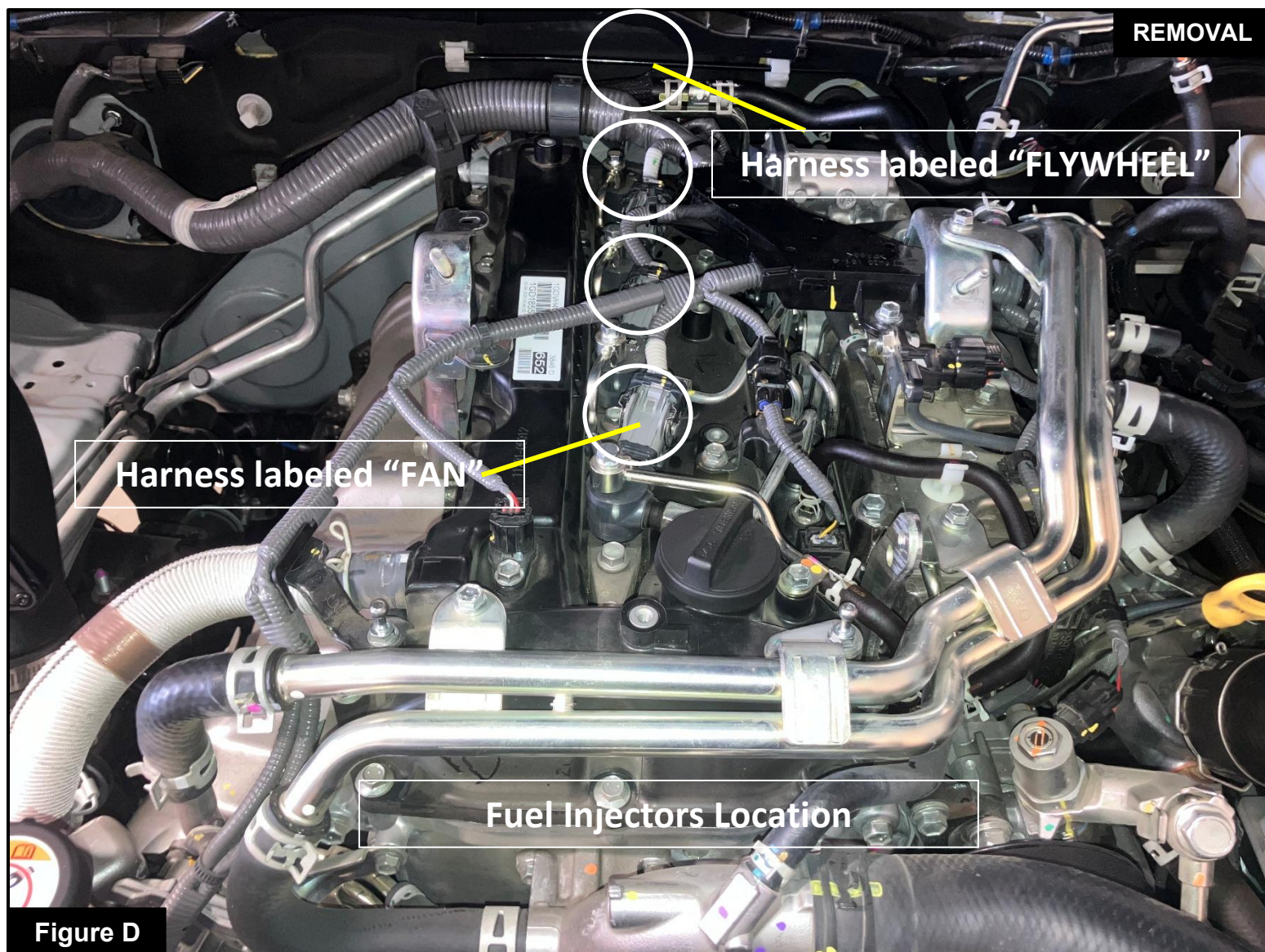
- The 4 sets of connectors (Each has a male and female counterpart) will plug into the fuel injectors. One set of connectors will be labeled “FAN” and another set of connectors will be labeled “FLYWHEEL”. The connectors labeled “FAN” will be installed onto the first injector, towards the front of the engine bay. The connectors labeled “FLYWHEEL” will be installed onto the last injector, towards the firewall of the engine bay.
- The Red and Black wires will go onto the positive and negative battery terminals.



Refer to Figure C for Steps 3-4

Step 3: Remove the two 10mm bolts securing the engine dust cover.

Step 4: Remove the engine cover by lifting up on it.



Refer to Figure D for Step 5

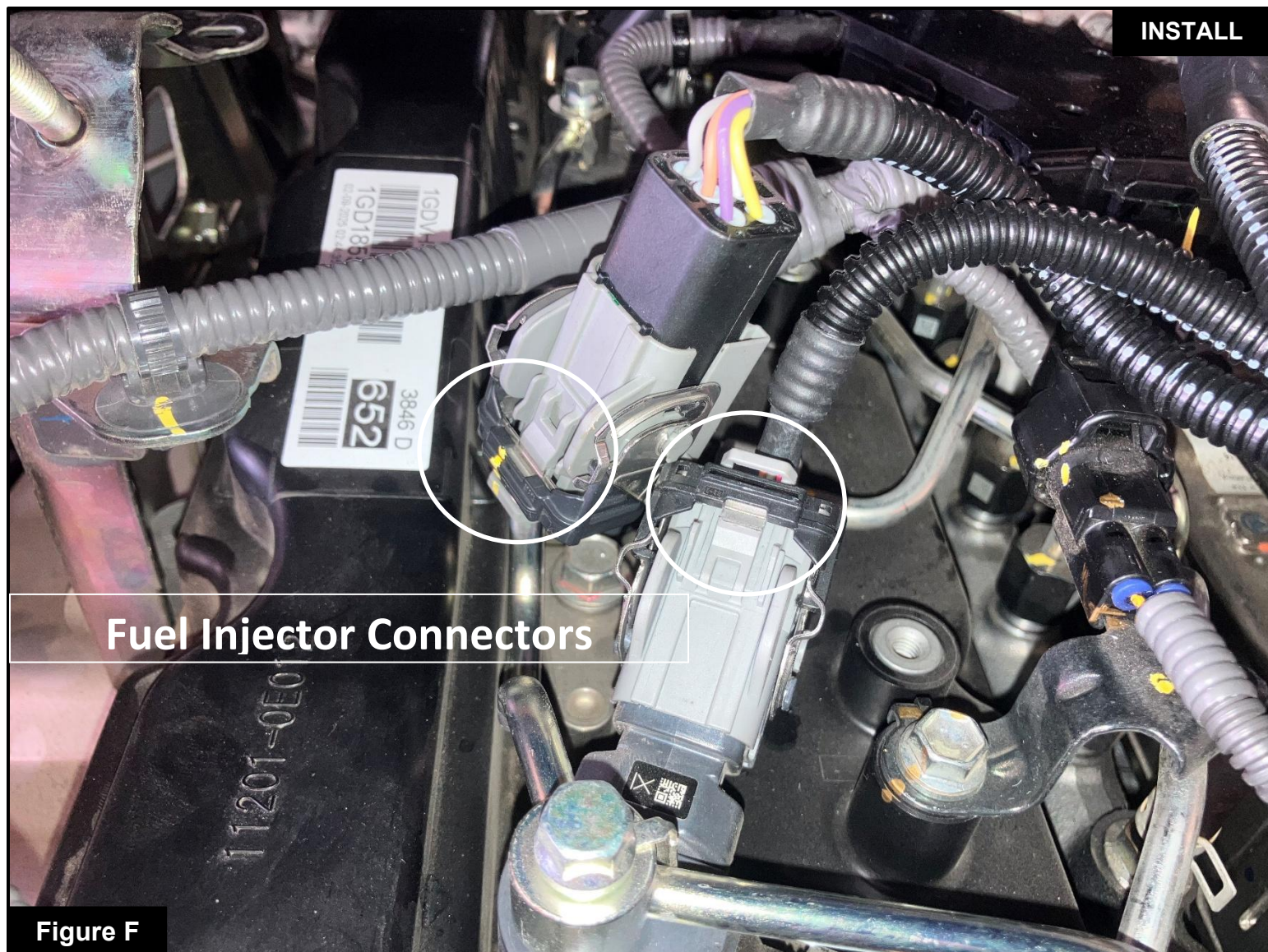
Step 5: Locate the 4 fuel injectors. The fuel injectors are located in line from front to back of the engine bay, and have gray locking cam connectors. The front injector is where the aFe POWER harness labeled "FAN" will be plugged into. The rear injector towards the firewall is where the aFe POWER harness labeled "FLYWHEEL" will be plugged into.



Refer to Figure E for Step 6

Step 6: Disconnect each of the fuel injector by pulling up on the black locking tab, rotating the tab all the way until it clicks and releases the connector from the injector.

Note: The connector is fully released from the injector when it automatically slides out and can be easily removed.



Fuel Injector Connectors

Figure F

Refer to Figure F for Steps 7-9

Step 7: Locate the first set of fuel injector connectors. Starting from the front of the engine to the back of the engine, the first set of connectors will be labeled “FAN”, and the last set of connectors will be labeled “FLYWHEEL”.

Step 8: Plug the female connector of the aFe POWER harness to the first fuel injector, 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 tabs are slid back into place.



Make sure that the locking cams and tabs are secure and fully snapped back into place.

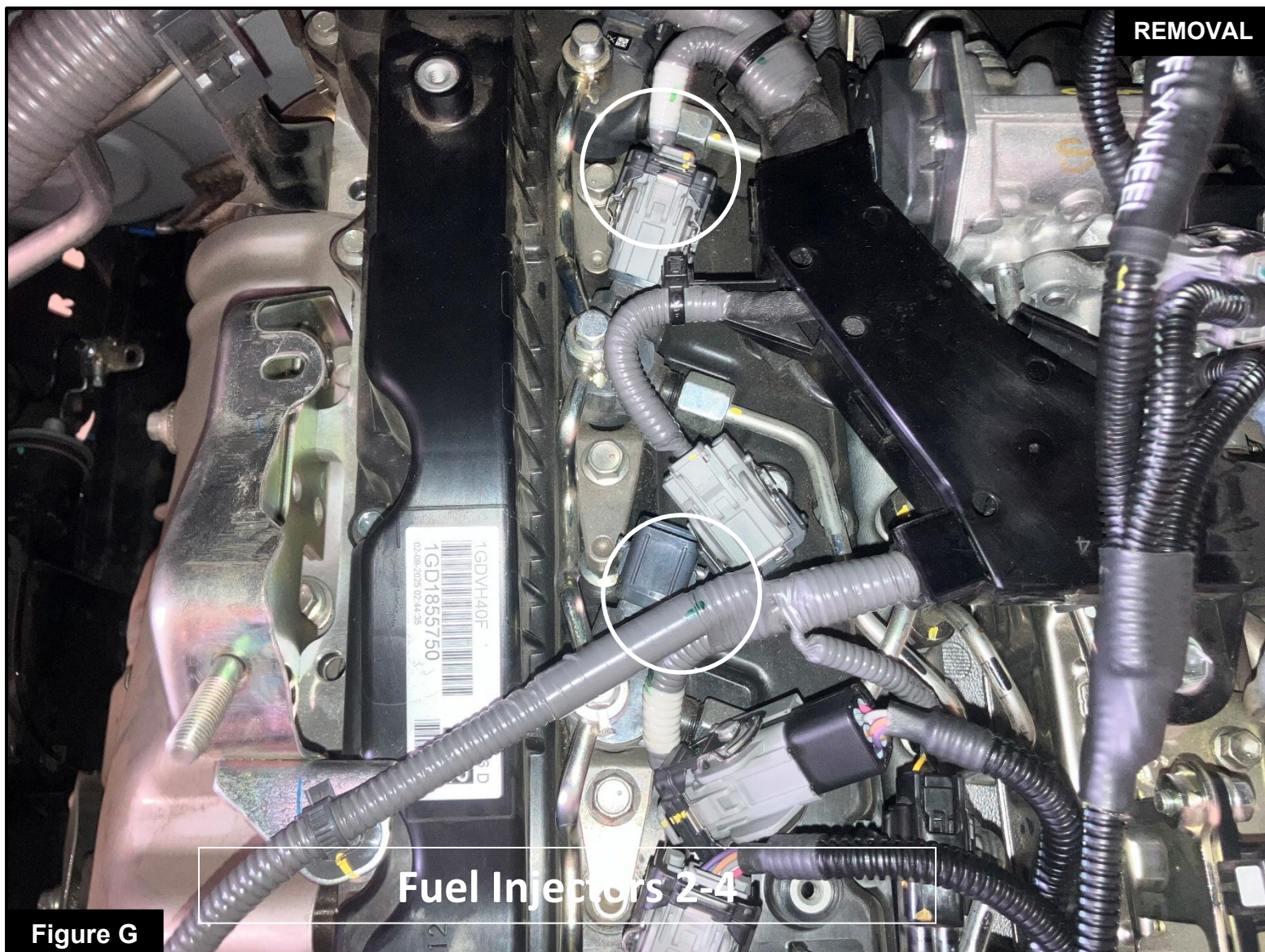


Figure G

Refer to Figure G for Step 10

Step 10: Repeat steps 6-8 from page 9 for the fuel injectors # 2-3.



Make sure that the locking cams and tabs are secure and fully snapped back into place.



Figure H

Refer to Figure H for Steps 11-12

- Step 11: Injector #4 is located close to the firewall, and can be accessed by reaching over the hose and clamp as pictured above. The #4 injector on the aFe POWER harness will be labeled “FLYWHEEL”.
- Step 12: Repeat steps 6-8 on from page 9 to connect the #4 injector to the aFe POWER harness.



Make sure that the locking cams and tabs are secure and fully snapped back into place.

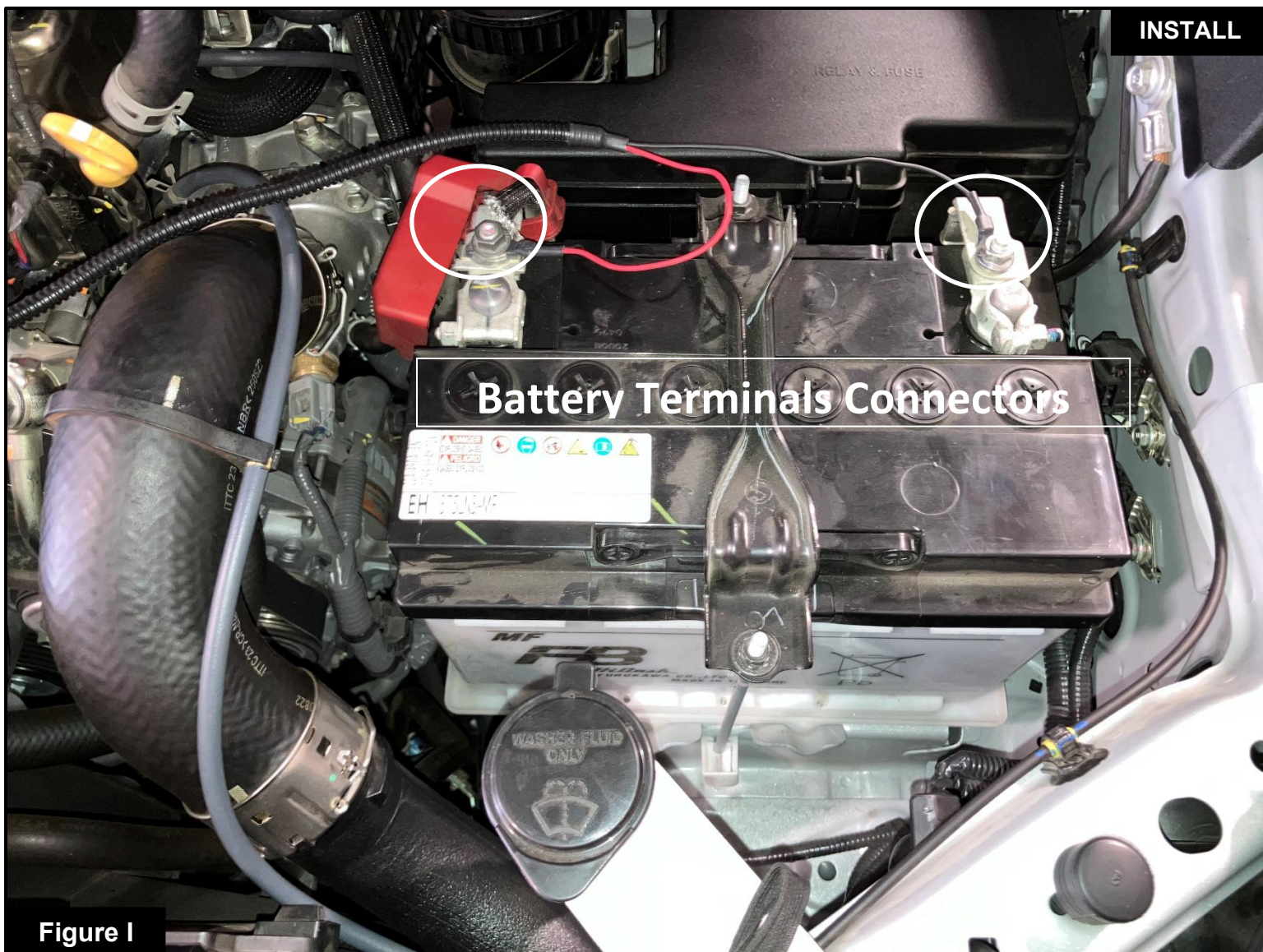


Figure I

Refer to Figure I for Steps 13-14

Step 13: Connect the red wire from the aFe POWER harness to the positive post on the battery terminal.

Step 14: Connect the black wire from the aFe POWER harness to the negative post on the battery terminal.

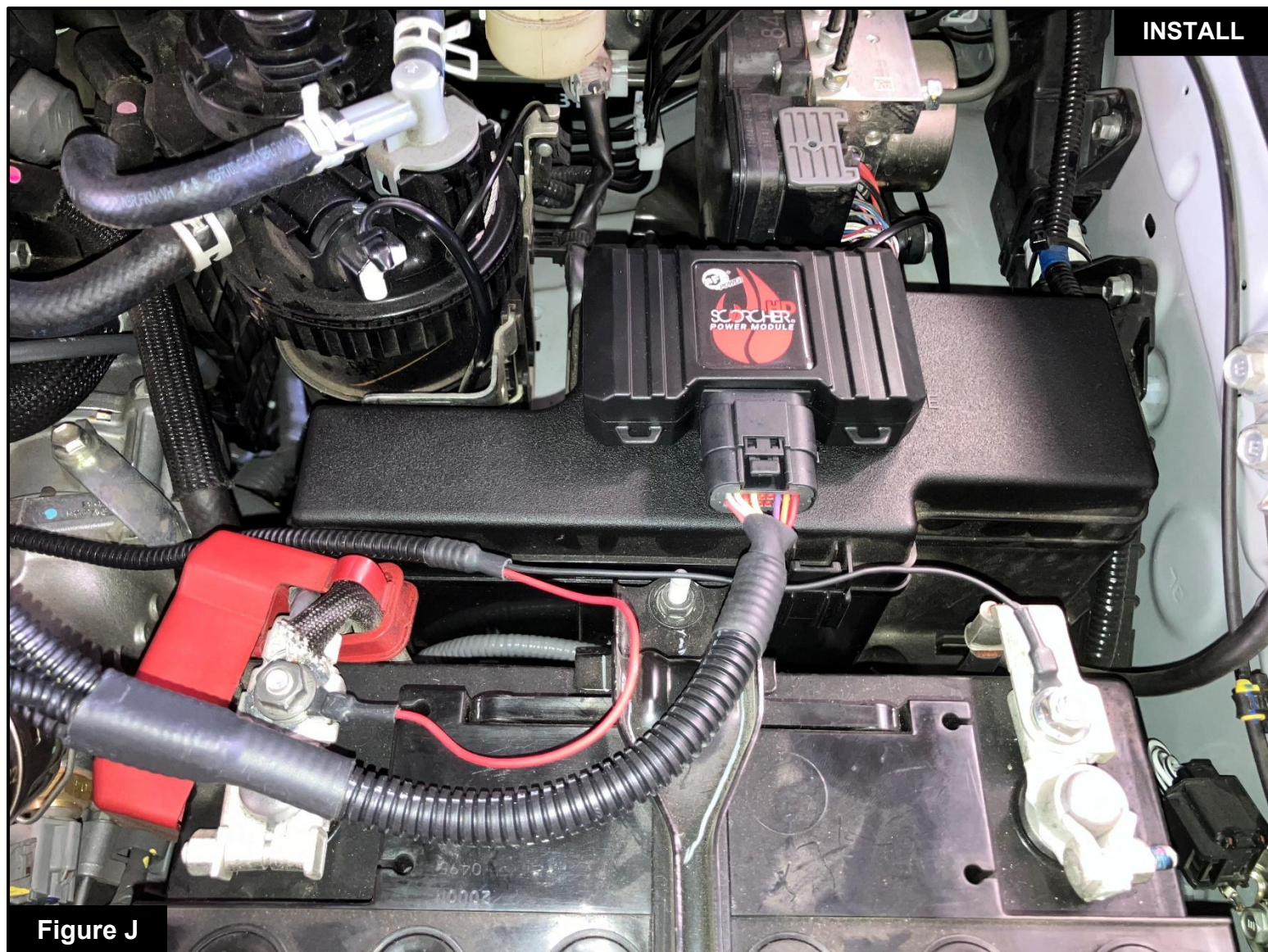


Figure J

Refer to Figure J for Steps 15-18

Step 15: Select a location to mount the Scorch HD. 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 top of the fuse box on the driver side of the engine bay.

Step 17: Route the harness wires and secure them using the included zip ties for a neat installation.

Step 18: Reinstall the engine dust cover and the two 10mm bolts.

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



Figure K

Refer to Figure K for Steps 19-20

Step 19: 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 20: Use the provided double sided tape to secure the LED switch in the desired location.

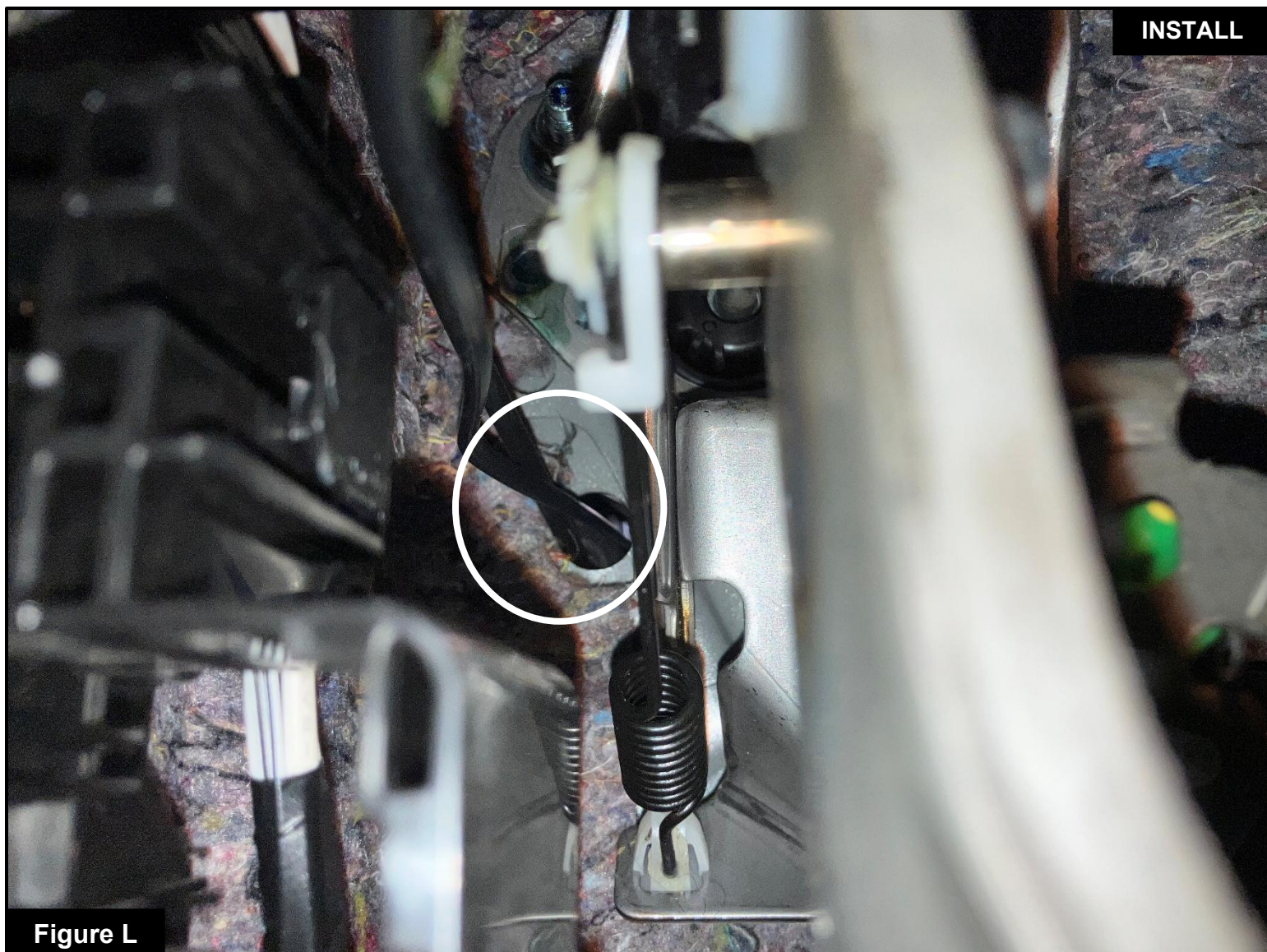


Figure L

Refer to Figure L for Steps 21-23

Step 21: 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 22: Locate the engine bay wiring access slot below the driver side kick panel.

Step 23: Route the switch cable through the firewall and into the engine bay using this slot.

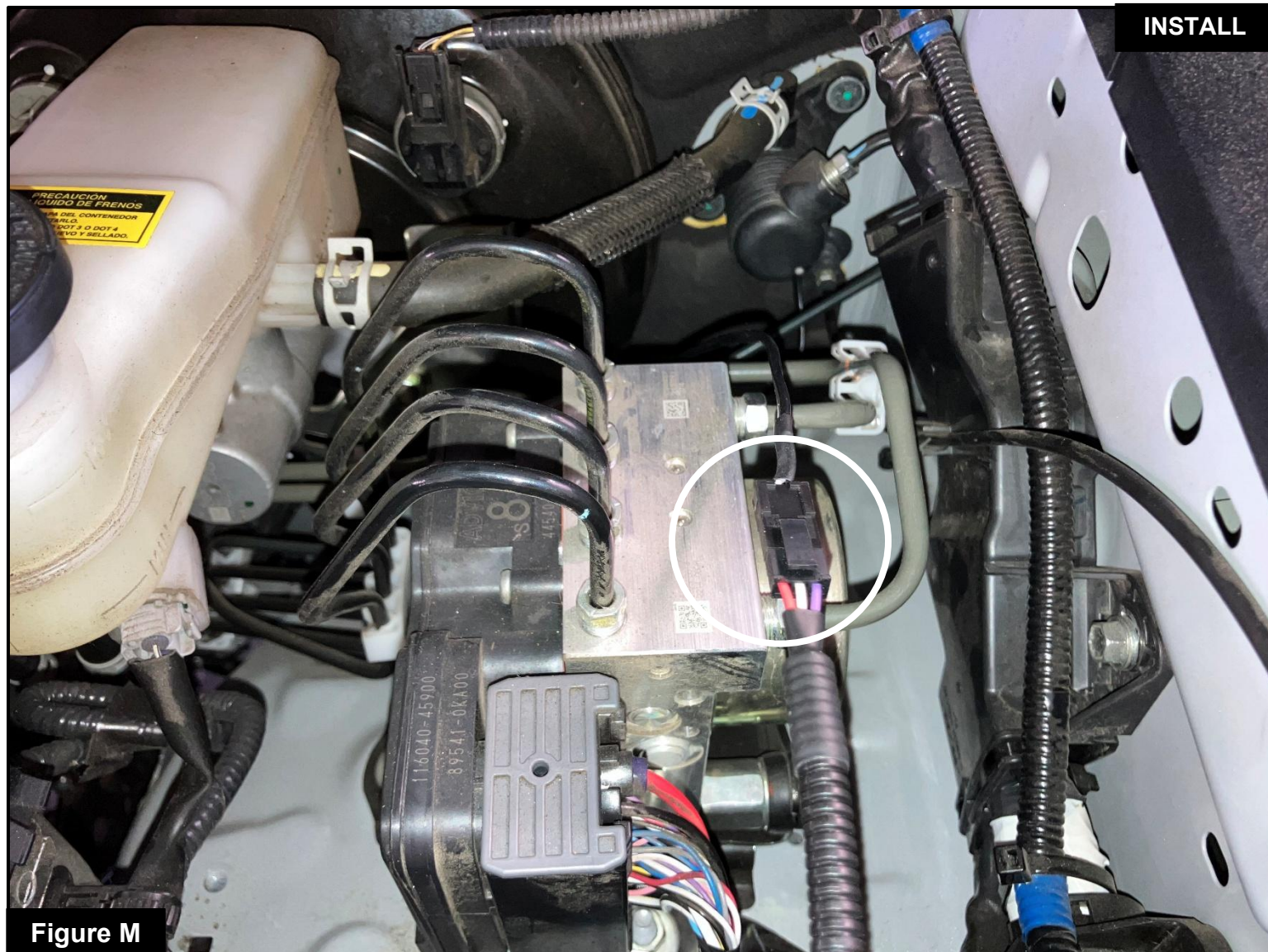


Figure M

Refer to Figure M for Steps 24-25

Step 24: Plug the end of the LED switch cable to the aFe POWER harness inside the engine compartment.

Step 25: 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

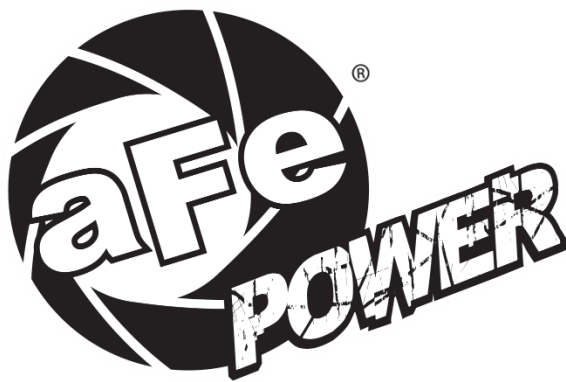
Use the grey button to select the desired setting. Power adjustments can be done at any time while the unit is on.



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