advanced FLOW engineering

Instruction Manual

P/N: 77-42015 SCORCHER GT POWER MODULE

Make: **Dodge**	Model: **Challenger**	Year: **2011- 2022**	Engine: **V8-5.7L HEMI**
Make: **Dodge**	Model: **Charger**	Year: **2011- 2022**	Engine: **V8-5.7L HEMI**
Make: **Chrysler**	Model: **300**	Year: **2011- 2022**	Engine: **V8-5.7L HEMI**

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:

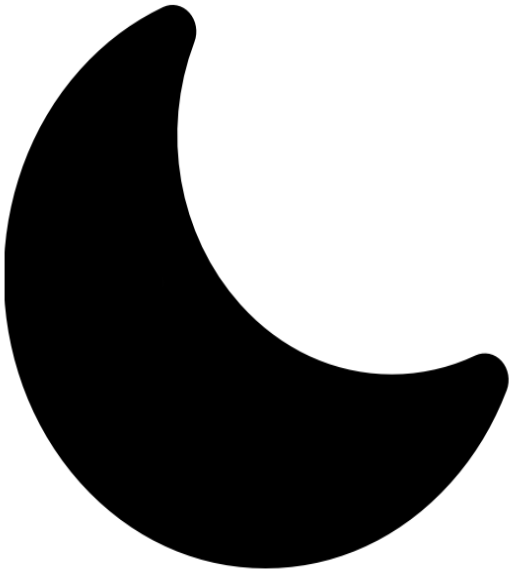
- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- If you are missing any of the components, call customer support at 951-493-7185.
- Ensure you have all necessary tools before proceeding. Do not attempt to work on your vehicle when the engine 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	R77-42015
B	2	Velcro (2” Inches)	05-01244
C	4	Cable Ties	05-60167

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

REMOVAL

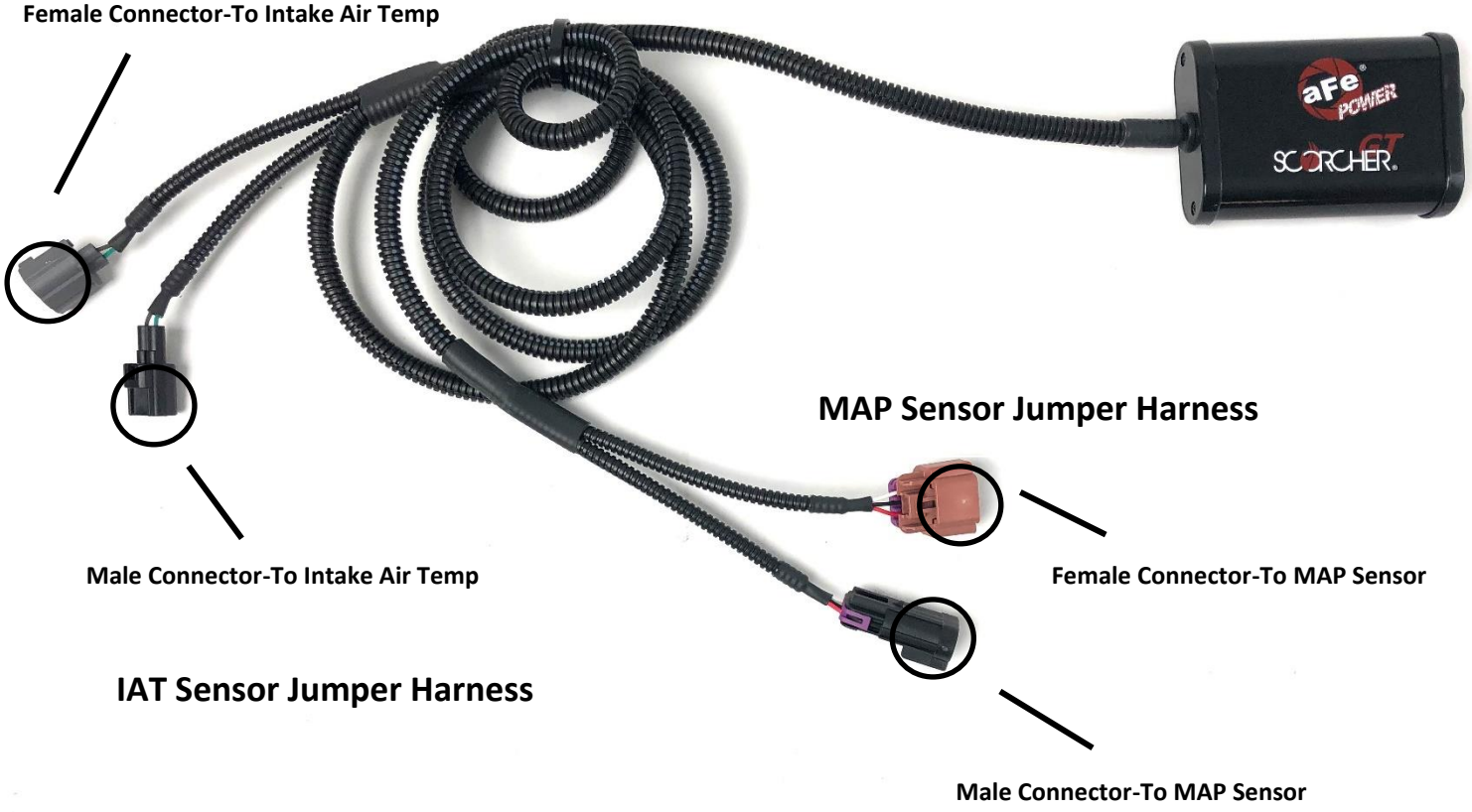


Figure B

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

Installation on 2020 Dodge Challenger R/T is shown. Installation will be very similar on other applications.

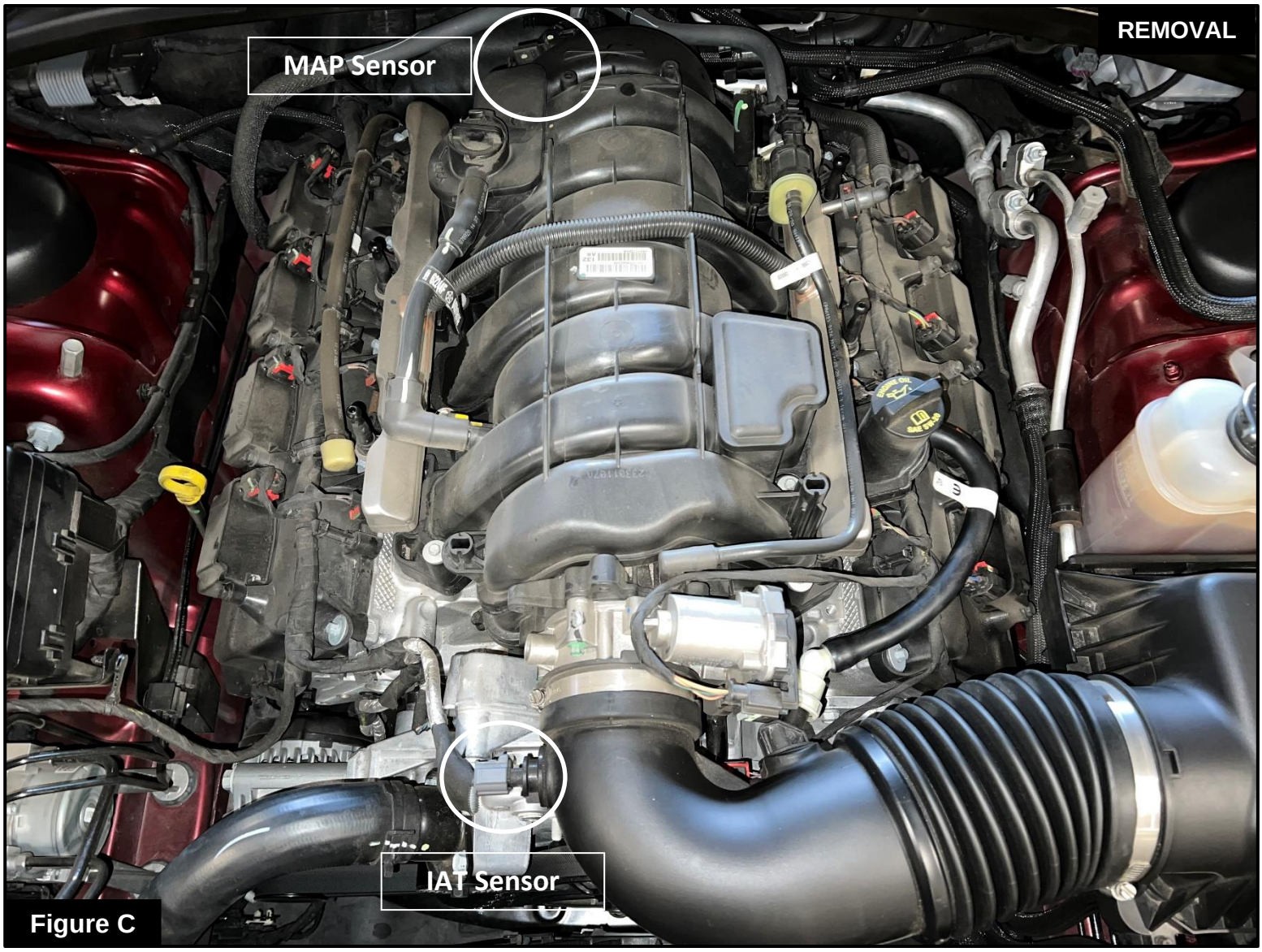


Figure C

Refer to Figure C for Steps 3-4

Step 3: Lift up on the engine cover and remove it from the engine bay to gain access to the MAP sensor.

Step 4: Locate the MAP and IAT sensors.

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

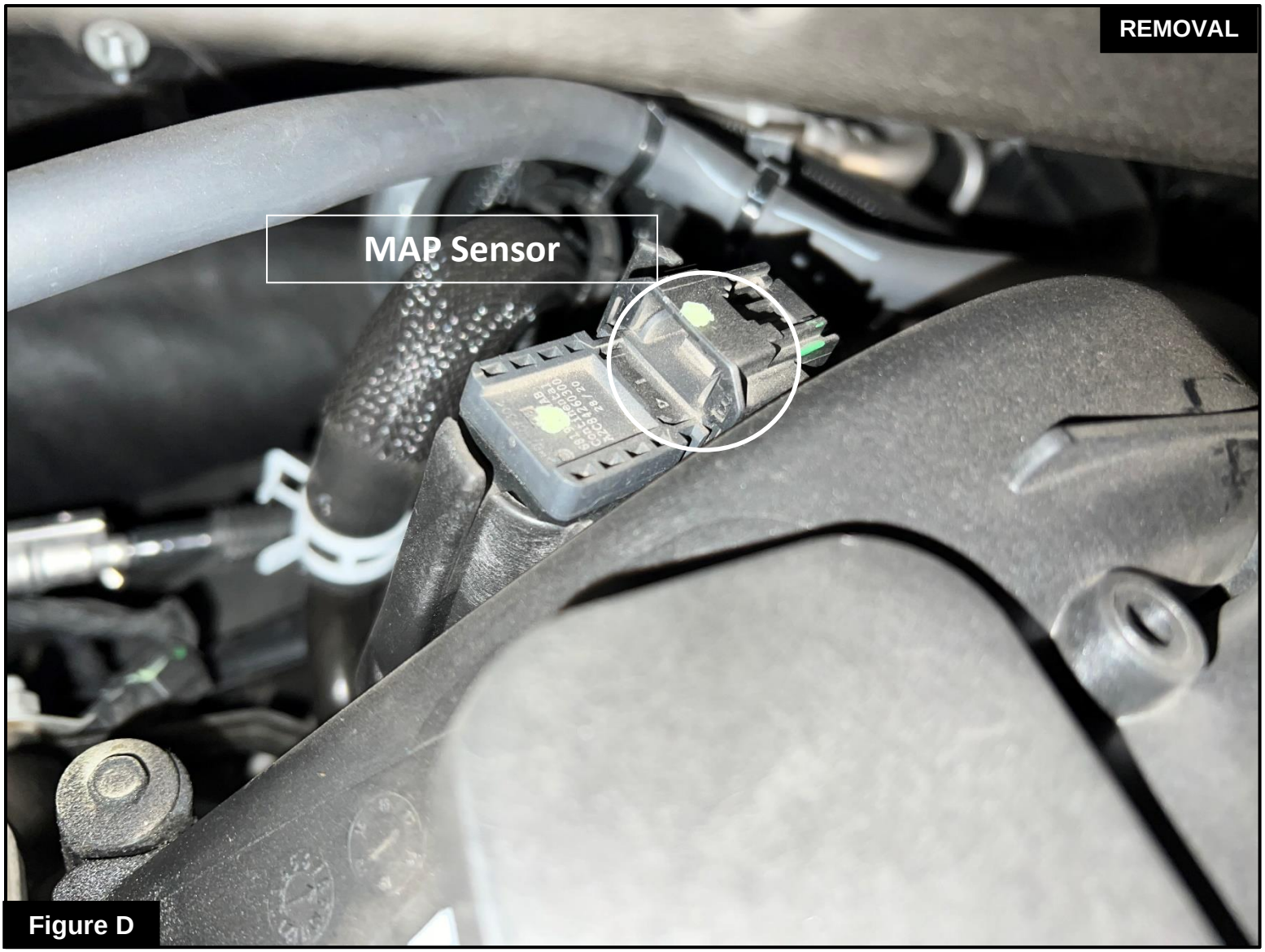


Figure D

Refer to Figure D for Step 5

Step 5: Disconnect the MAP sensor by pulling back on the locking tab, pressing down on the connector and sliding it out of the sensor.

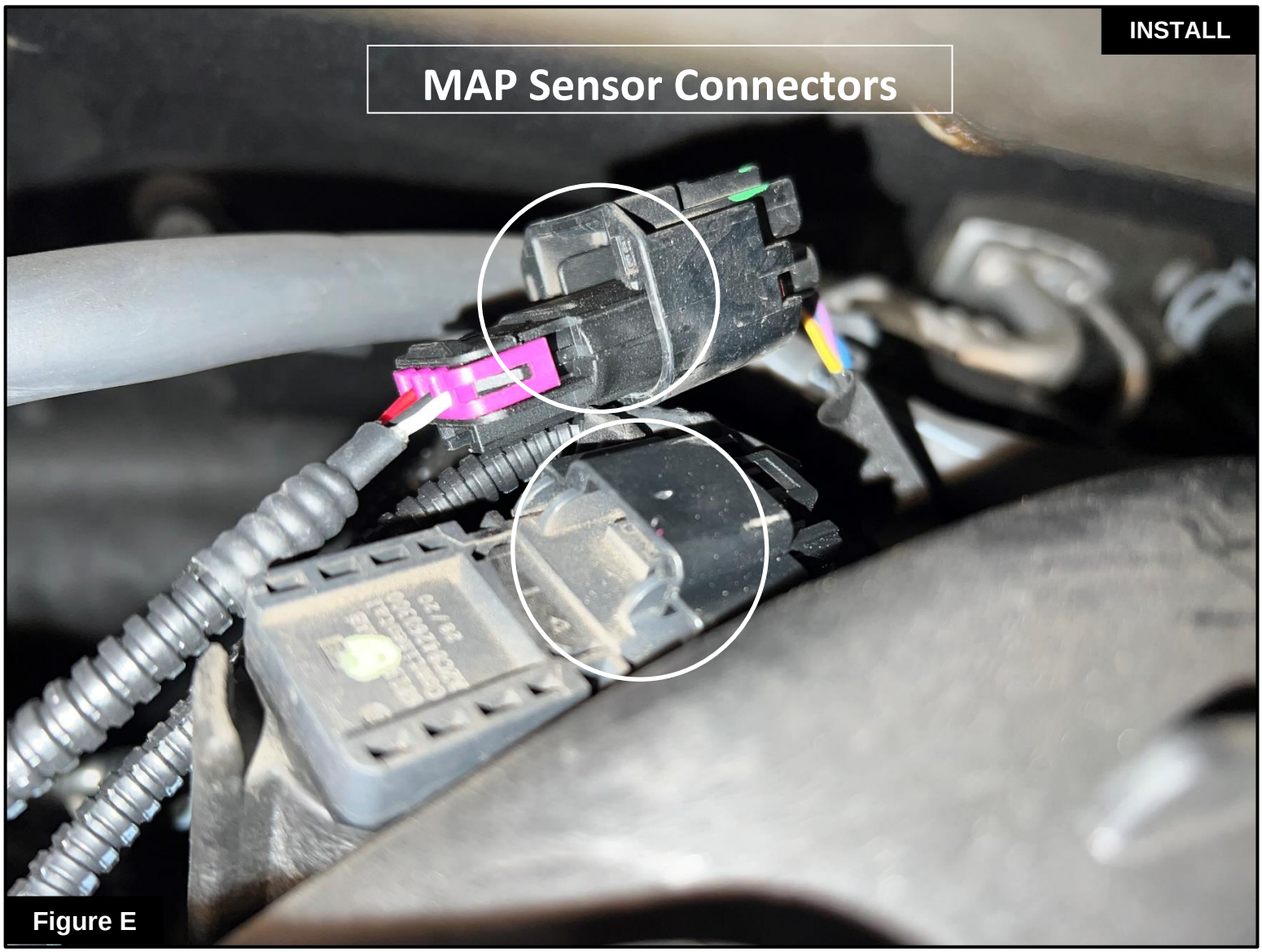


Figure E

Refer to Figure E for Steps 6-8

Step 6: Locate the MAP sensor jumper harness on the aFe POWER harness. It is the longer set of connectors coming out of the aFe POWER module. It is labeled “MAP”.

Step 7: 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 tab back into place.

Step 8: 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.

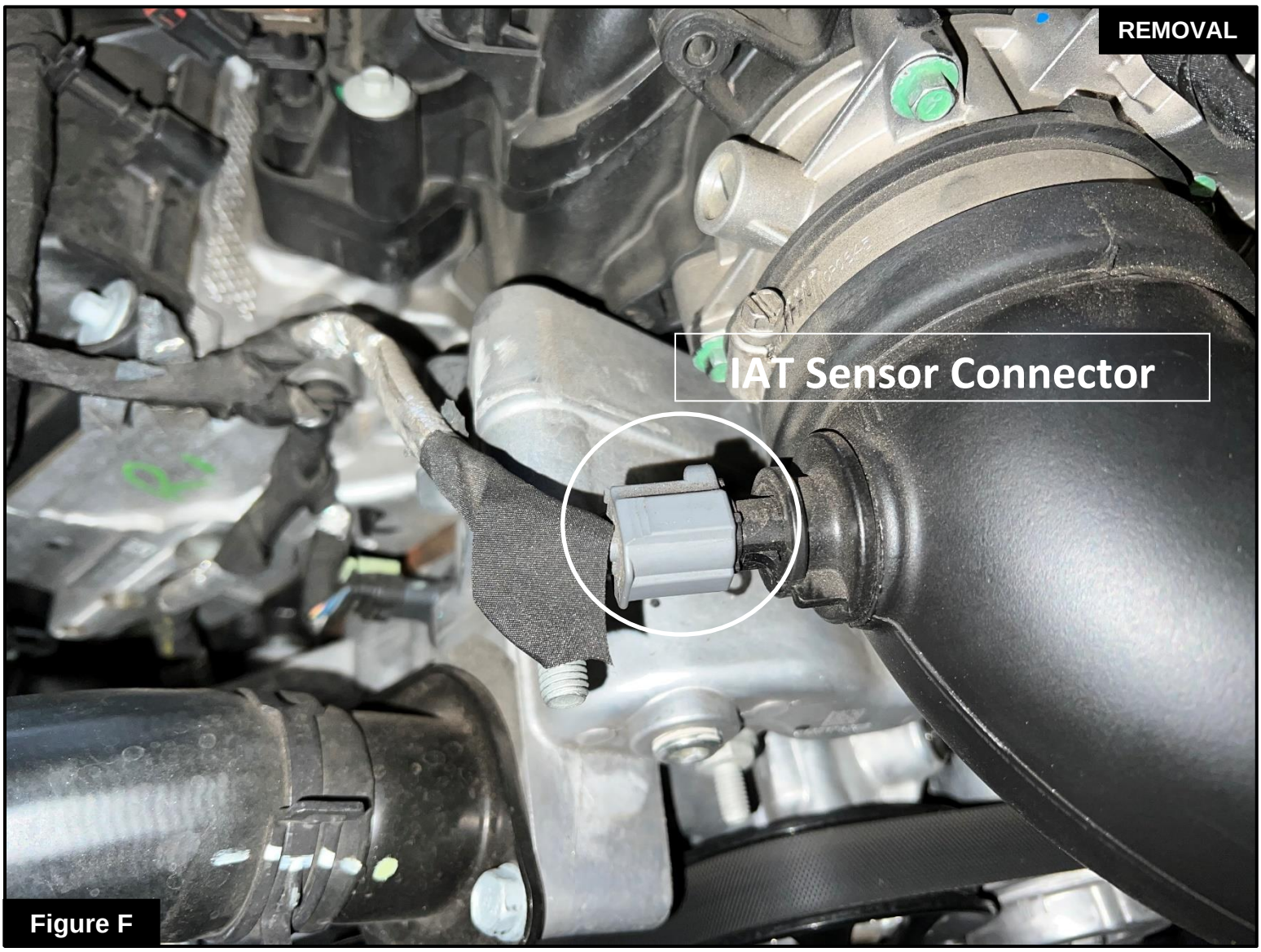


Figure F

Refer to Figure F for Steps 9-10

Step 9: Locate the IAT sensor on the intake tube.

Step 10: Disconnect the IAT sensor by pressing down on the connector and sliding it out of the sensor.

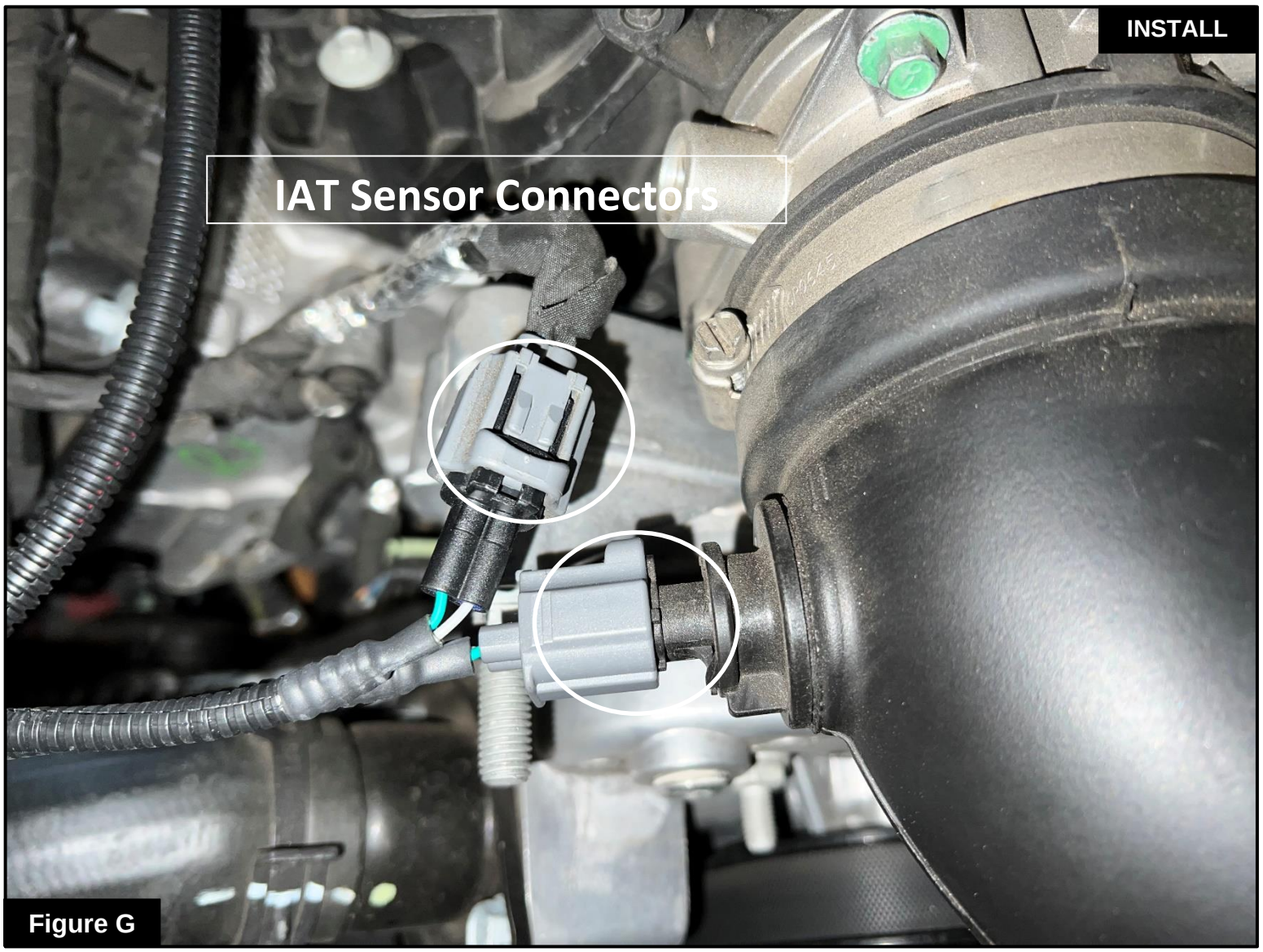


Figure G

Refer to Figure G for Steps 11-13

Step 11: Locate the IAT sensor jumper harness on the aFe POWER harness. It is the shorter set of connectors coming out of the aFe POWER module. It is labeled “IAT”.

Step 12: 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 13: 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 14-17

Step 14: Select a location to mount the Scorcher GT. We recommend that the module be mounted in a place that is dry, away from extreme heat and moving parts.

Step 15: For our installation, we found the best location to be on top of the fuse box on the passenger side of the engine bay.

Step 16: Route the harness wires away from moving parts and extreme heat. Secure the wires using the included zip ties for a neat installation.

Step 17: Reinstall the engine cover.

Figure I

Refer to Figure I

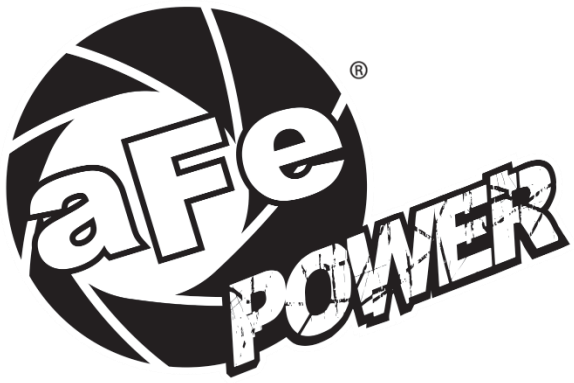
To turn the SCORCHER GT On or Off, simply press the button on the side of the module. The blue LED will illuminate indicating that the module is on. Thank you for choosing aFe POWER!

Note: You can turn it ON or OFF even when the vehicle is running or while the ECU is still on.

Page left blank intentionally.

Page left blank intentionally.

Page left blank intentionally.



advanced FLOW engineering, inc.
252 Granite Street Corona, CA 92879
https://afepower.com/contact