advanced FLOW engineering

Instruction Manual P/N: 77-42003

Make: **RAM** Model: **1500 EcoDiesel** Year: **2014-2018** Engine: **V6-3.0L**

- **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 951-493-7100.**
- **Ensure you have all necessary tools before proceeding.**
- **Do not attempt to work on your vehicle when the engine is hot.**
- **Disconnect the negative battery terminal before proceeding.**
- **Retain factory parts for future use.**

Label	Qty.	Description	Part Number
A	1	Module	R77-42003
B	2	Velcro (2 Inches)	05-01244
C	4	Cable Ties	05-60167

Note: Legal in California for use on race vehicles only. The use of this device on vehicles used on public streets or highways is strictly prohibited in California and others states that have adopted California emission regulations.

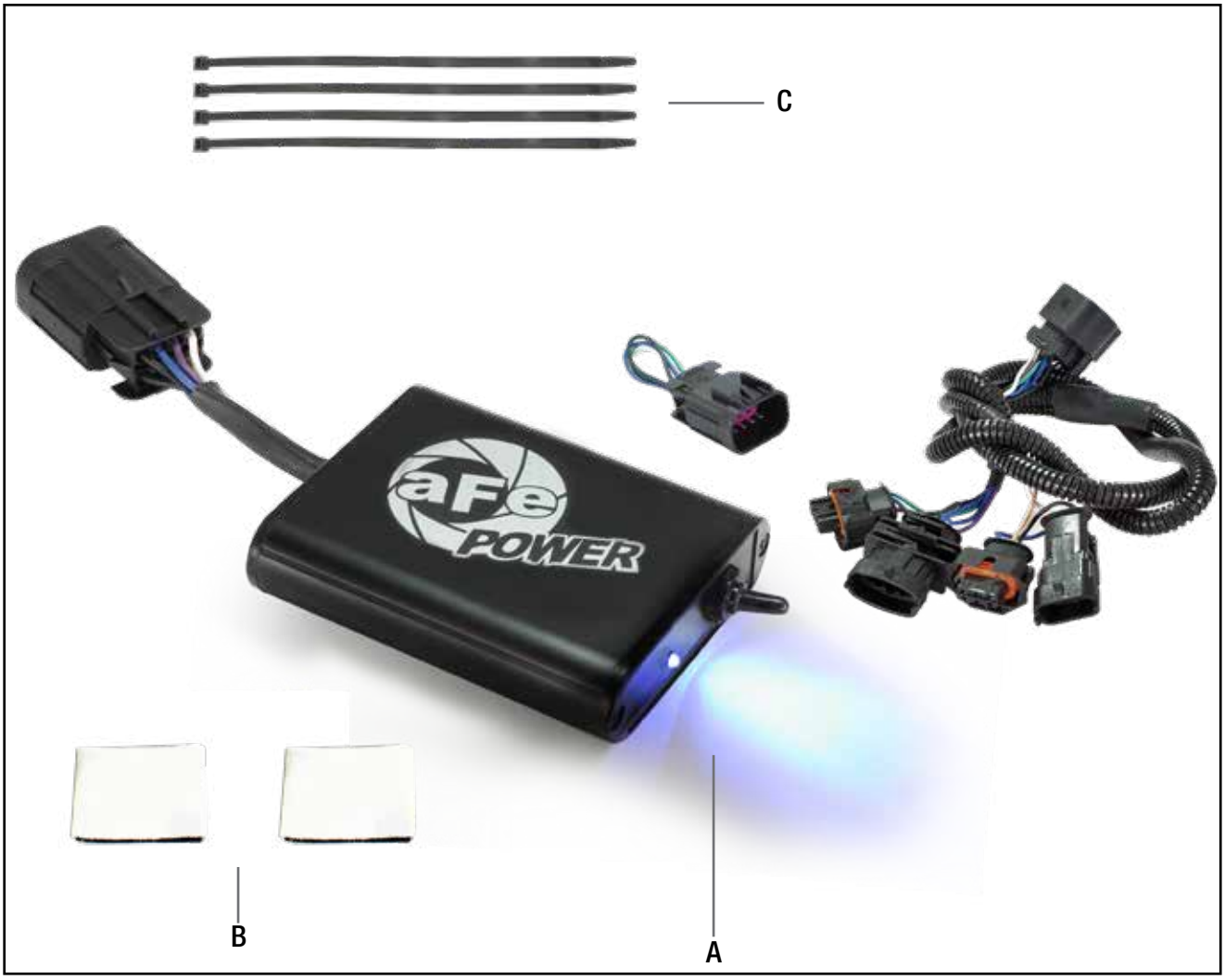
C
aFe
POWER
B
A

Figure A

Refer to Figure A for steps 1-4

Sleep Mode

Before installing your aFe Module you will have to place your vehicles ECU in sleep mode. In order to place your vehicles ECU in sleep mode you will need to do the following:

Step 1: If the engine is cold, open the hood, close the doors, lock the car and wait 30 seconds.
Step 2: If the engine is warm, open the hood, close the doors, lock the car and wait 20 minutes.
Step 3: If the engine is warm and you can't wait 20 minutes, disconnect the battery.
Step 4: Remove the engine cover (1).

Figure B

Refer to Figure B for step 5

Step 5: Unplug your MAF sensor first, located on OE cartridge right off the filter (2).

Figure C

Refer to Figures C for steps 6-7

Step 6: Remove the entire intake assembly.

Step 7: Also remove the formed-foam cover. It will help in accessing the MAP and Fuel Pressure Sensor.

Figure D

Refer to Figure D for steps 8-9

Step 8: Locate the Fuel Pressure Sensor (**FPS**) (3) and the Manifold Absolute Pressure (**MAP**) sensor (4).

Step 9: Disconnect both sensors by first sliding the lock forward then squeezing the clip to remove.

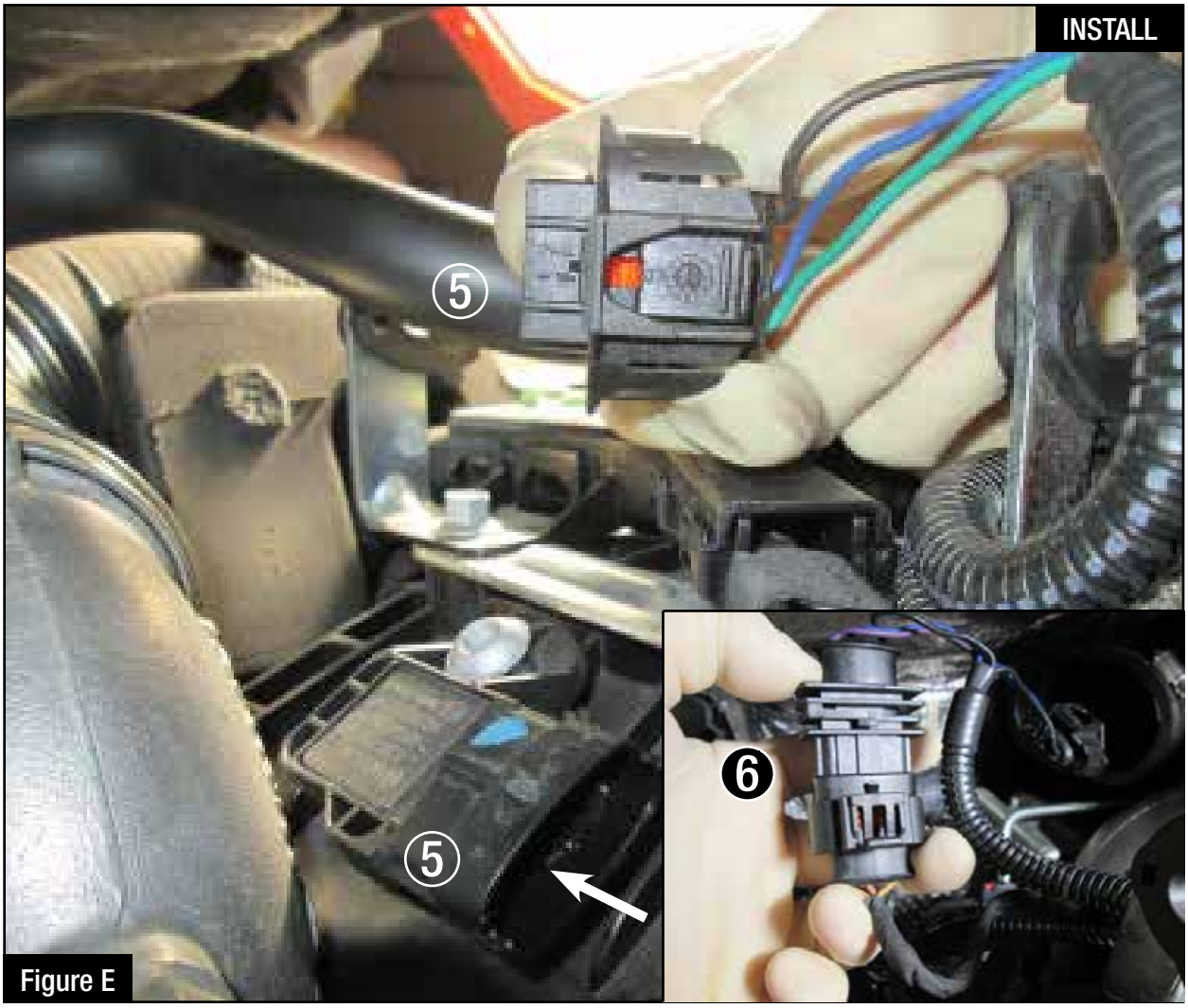

Figure E

Refer to Figure E for steps 10-11

Installation of Scorcher Module

Step 10: Insert the female MAP sensor connector (5) into the MAP sensor until you hear a click.

Step 11: Connect the female OE MAP sensor connector you removed to the male MAP sensor connector (6). The inset picture shows the correct orientation

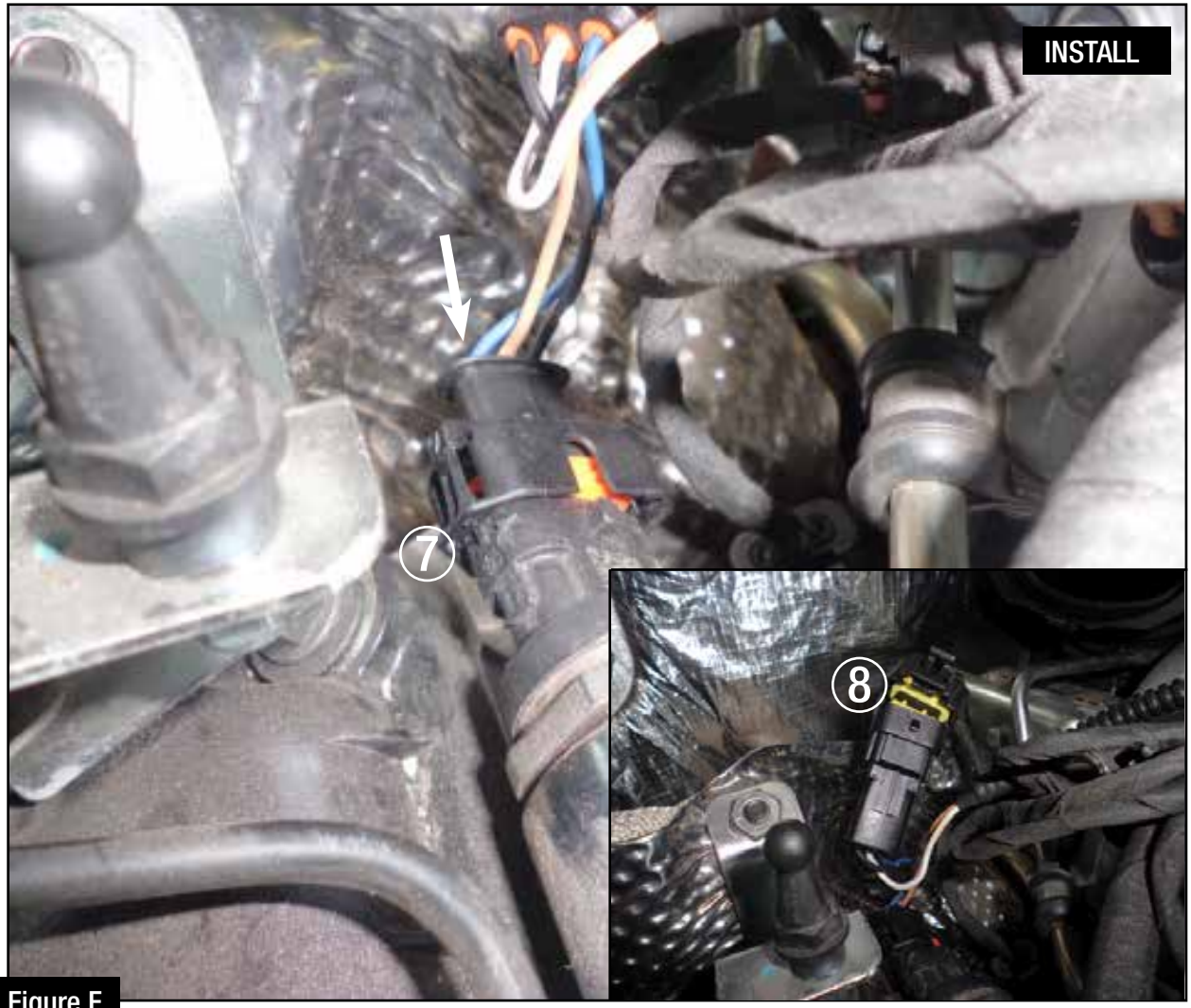

Figure F

Refer to Figure F for steps 12-13

Step 12: Connect the female **FPS** connector (7) to the **FPS**.

Step 13: Connect the female OE **FPS** connector you removed to the male **FPS** connector (8). The inset picture shows the correct orientation.

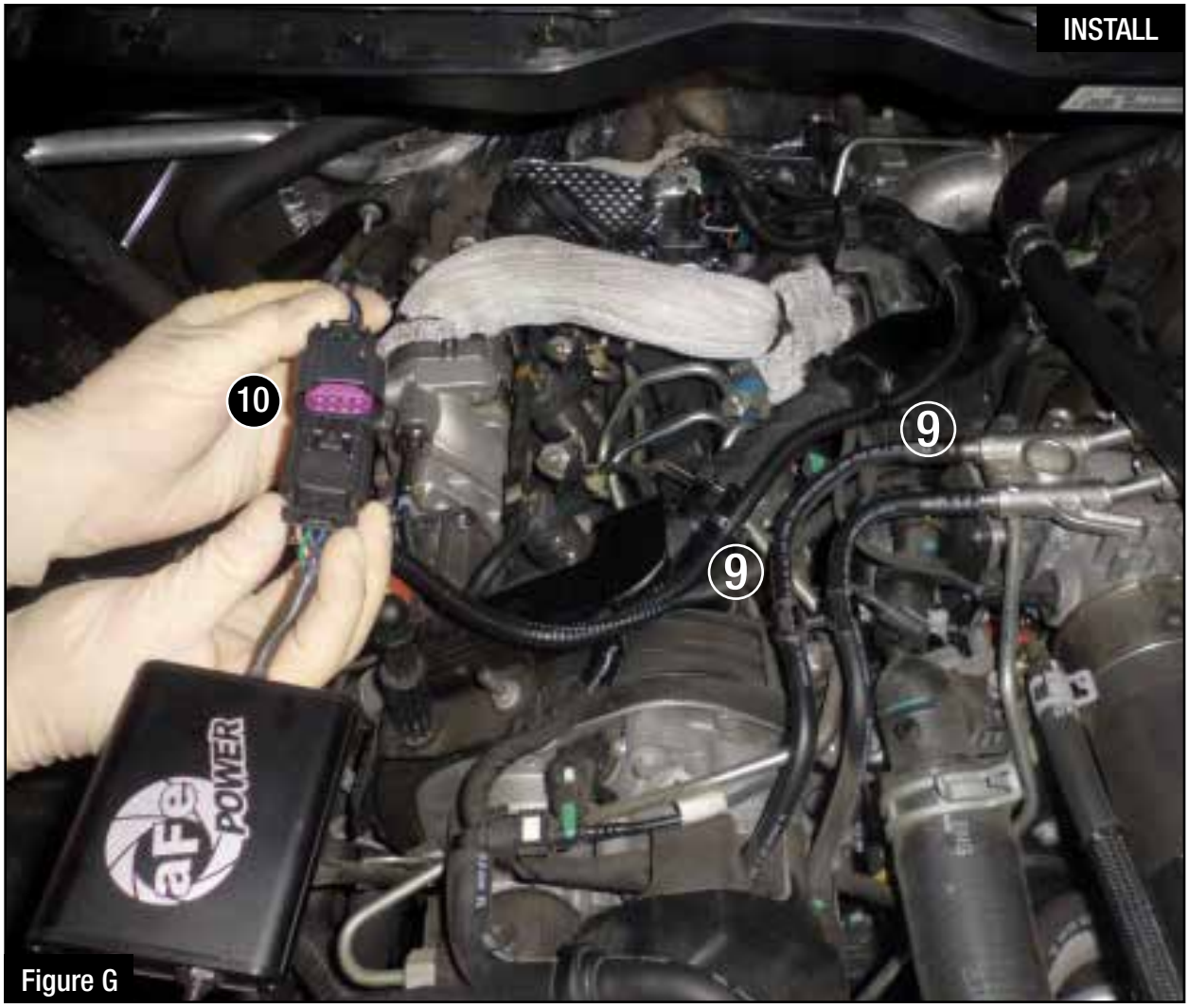

Figure G

Refer to Figure G for steps 14-15

Step 14: Using the supplied cable ties, neatly secure the aFe module wiring harness. A suggested location (9) is in the above photo.

Step 15: Connect the aFe module to the wiring harness (10) at this time.

***If at any point you wish to disconnect the aFe module, simply plug in the provided Jumper Plug.

Figure H

Refer to Figure H for steps 16-19

Step 16: Reinstall the air intake assembly.

Step 17: Reconnect the MAF sensor (11).

Step 18: Reinstall the engine cover.

Step 19: With the supplied Velcro, find a flat and clean surface to locate and secure your aFe module.

* One possible location is shown above on the back side of the engine cover.

The blue LED indicates that all processes are complete and functioning properly.

Figure I

Refer to Figure I for step 20

20: The aFe Scorcher Module has three adjustable settings via a switch next to the blue LED.

Adjust the module to the desired setting after installation and when needed.

1.Switch in the center position: Factory setting

2.Switch toward blue LED: Stage 1 setting (mid gains)

3.Switch away from blue LED: Stage 2 setting (high gains)

Your installation is now complete!

Be sure to check all connections after 100-200 miles.

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