

advanced FLOW engineering

Instruction Manual P/N: 77-46306

Make: **BMW** Model: **M3/M4 (F80/82/83)** Year: **2015-2016** Engine: **L6-3.0L (tt) S55**

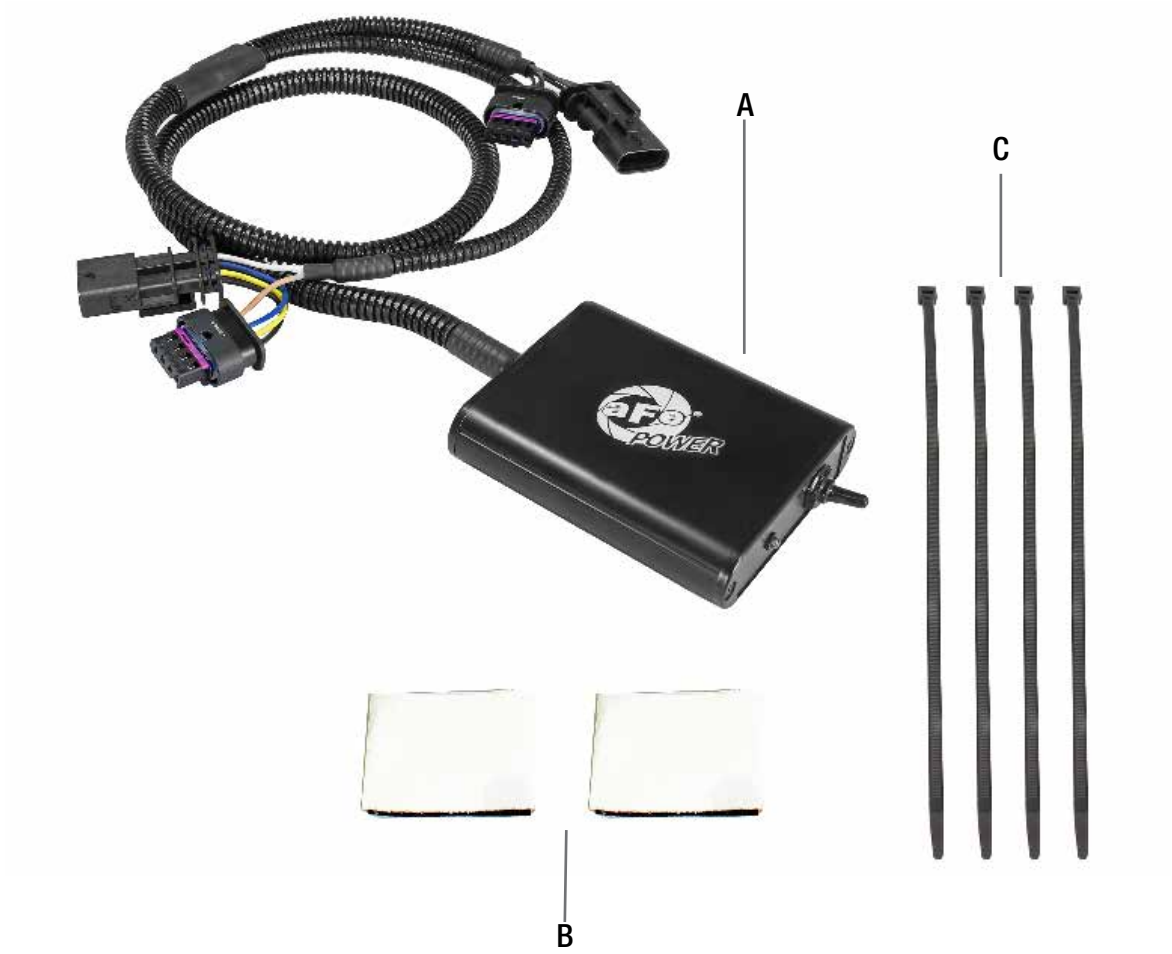


- **Please read the entire instruction manual before proceeding.**
- **Ensure all components listed are present.**
- **If you are missing any of the components, call customer support at 951-493-7100.**
- **Ensure you have all necessary tools before proceeding.**
- **Do not attempt to work on your vehicle 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	R77-46306
B	2	Velcro (2 Inches)	05-01244
C	4	Cable Ties	05-60167

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

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.



Installation

Step 1: Before installing the aFe module, you will have to place the vehicle ECU in sleep mode. In order to place the vehicles ECU insleep mode you will need to do the following:

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



Figure A

Refer to Figure A for steps 2-4

Step 2: Remove the push clip (1) on the driver side windshield cover.

Step 3: Unlock the three 10mm nuts (2) retaining the windshield cover and remove.

Step 4: Remove the two T27 Screws off the top expansion tank and pop off grommet.



Figure B

Refer to Figure B for step 5-7

Step 5: Pass the aFe module harness through frame brace.

Step 6: Pop off the trim seal of the frame brace to allow more space.

Step 7: Locate the MAP Sensor and TMAP sensor. The MAP sensor is on top of the manifold (under the intercooler). The TMAP sensor is on the bank of the intercooler.

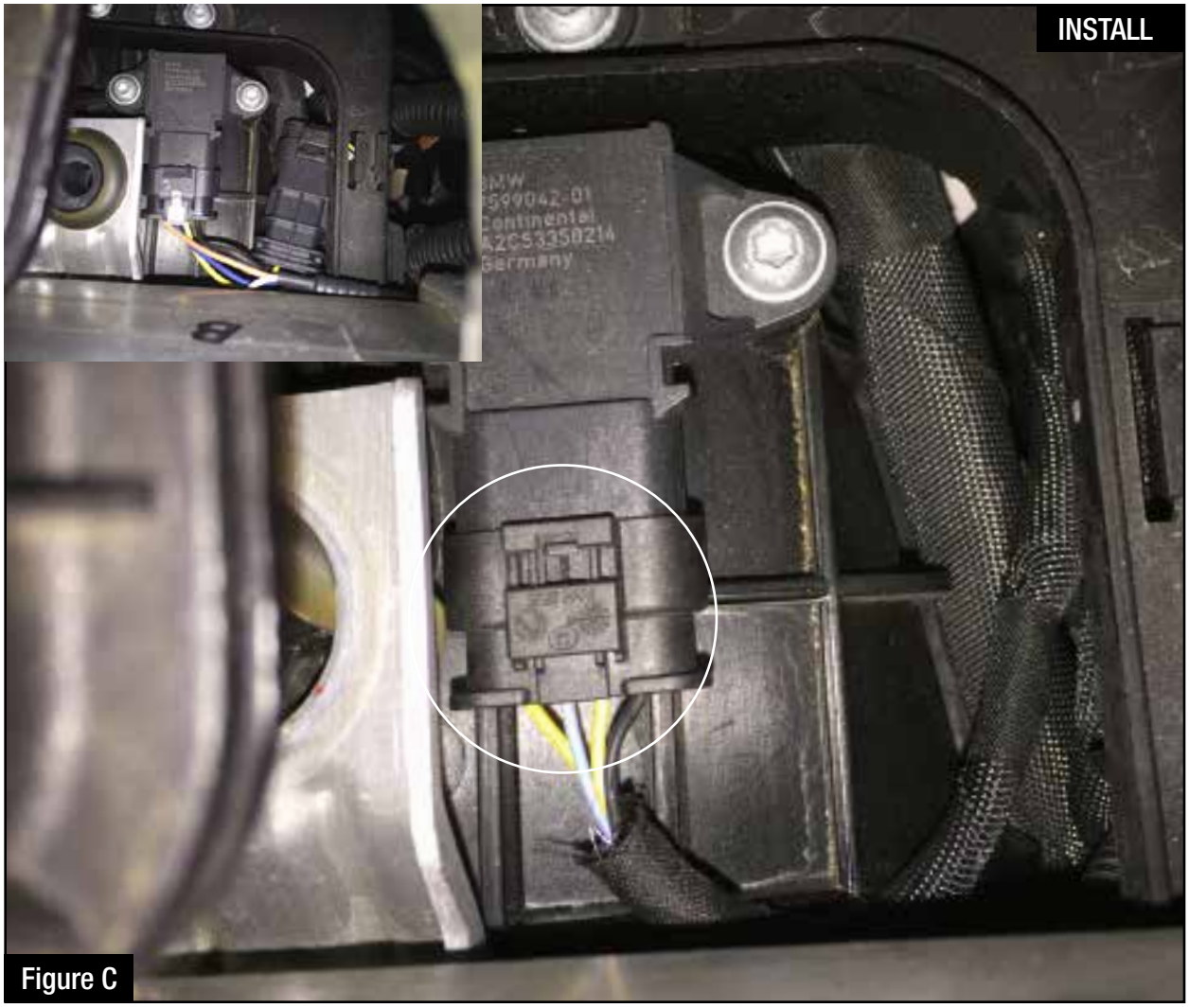


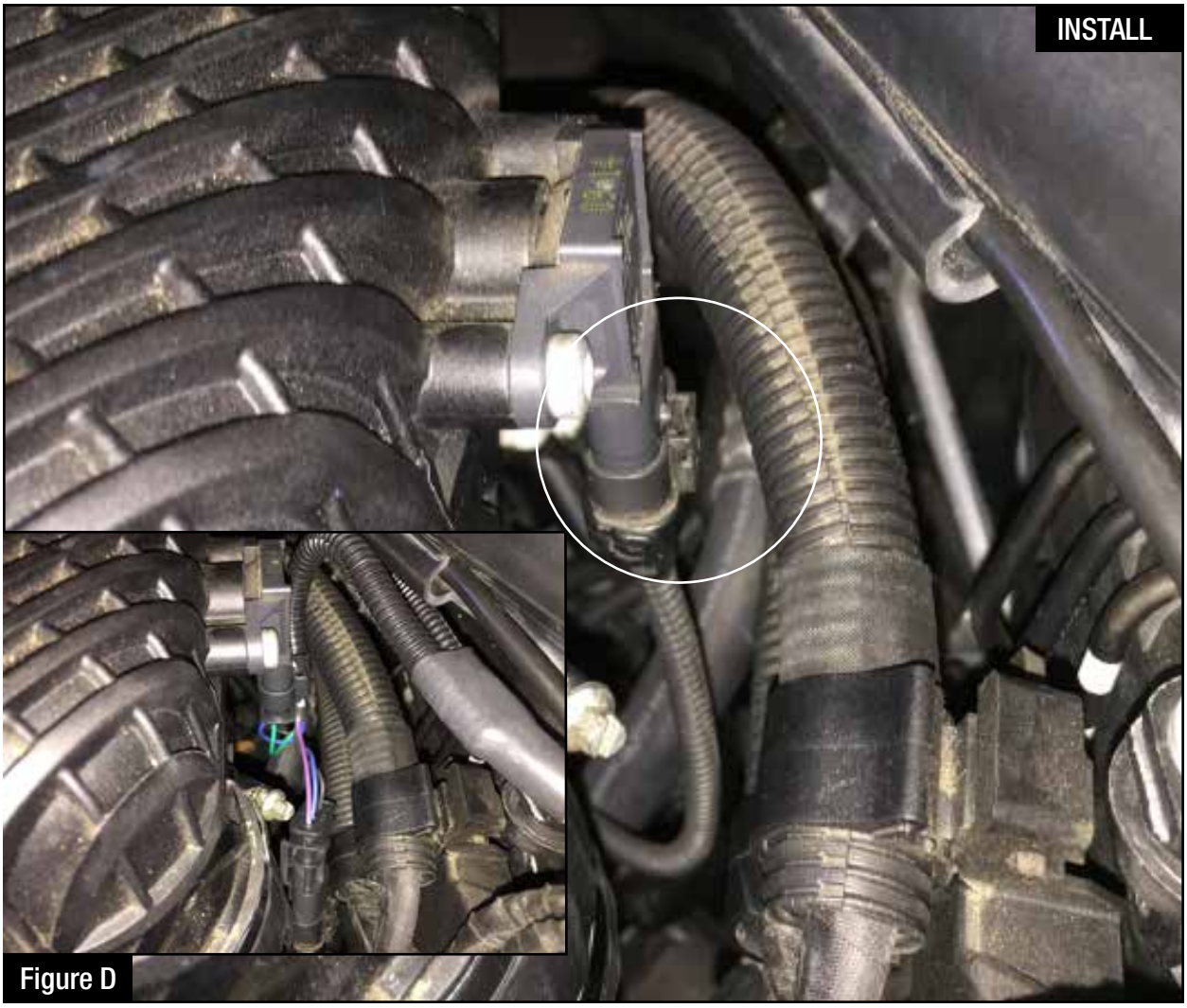
Figure C

Refer to Figures C for steps 7-9

Step 7: Disconnect the MAP sensor harness. (Circled in white.)

Step 8: Locate the MAP sensor jumper harness on the aFe module. It is a 4 wire harness with tan, black, yellow and blue colored wires.

Step 9: Plug the female connector on to the stock engine harness and the male connector to the MAP sensor as shown in detail picture.



Refer to Figure D for steps 10-12

Step 10: Disconnect the TMAP sensor. (Circled in white.)

Step 11: Located the TMAP sensor jumper harness on your aFe module. Itis a 3 wire harness with purple, black and blue colored wires.

Step 12: Plug the female connector on to the stock engine harness and the male connector to the TMAP senor as shown in detail picture.



Figure E

Refer to Figure E for steps 13-15

Step 13: Route the aFe module harness then use the supplied cable ties to secure it.

Step 14: Using the supplied high temp velcro, find a clean, flat surface and firmly mount the module.

Step 15: Re-install the windshield cover back on the expansion tank. Refer to steps 1-3.

Note: If the sticky side of the velcro ever gets pulled off, replace it with a brand new high temp piece.



Figure F

Refer to Figure F for steps 16-17

Step 16: The aFe Scorcher Module has three adjustable settings via a switch next to the blue LED.

1. Switch in the center position: Factory setting.
2. Switch toward blue LED: Stage 1 seeting (mid gains.)
3. Switch away from blue LED: Stage 2 setting (high gains.)

Adjust the module to the desired setting after installation and when needed but make sure to do it only while the vehicle is in sleep mode.

Step 17: Your installation is now complete! Thank you for choosing aFe Power!

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