



advanced FLOW engineering

Instruction Manual P/N: 77-43018

Make: **Ford** Model: **F-150** Year: **2011-2014** Engine: **V6-3.5L (tt) EcoBoost**



- 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	R77-43018
B	1	LED Switch	05-70013
C	2	Velcro (2 Inches)	05-01244
D	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.





REMOVAL

Figure A

Refer to Figure A for Step 1.

- Step 1: Before installing the aFe POWER Module you must place your vehicles ECU in sleep mode. In order to place your vehicles ECU in sleep mode 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.

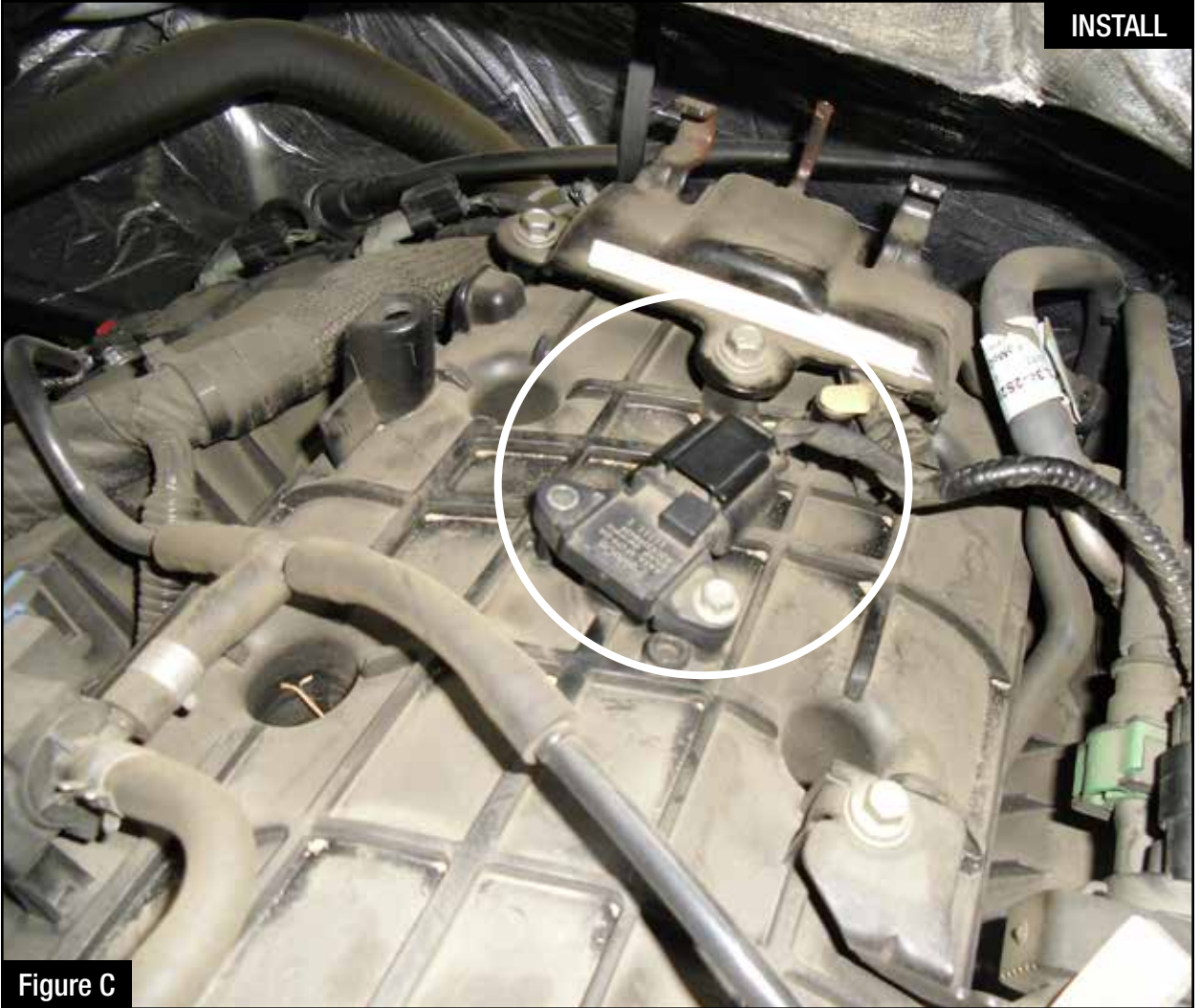
NOTE: Do NOT open the doors or start the vehicle when one of the sensor is disconnected.



Refer to Figure B for Steps 2-3.

Step 2: Remove engine cover to gain access to the MAP sensor.

Step 3: Locate the MAP and TMAP sensor. The MAP sensor is located on the back of the intake manifold towards the firewall. The TMAP sensor is located on the charge intake tube just before the throttle body.

**Figure C****Refer to Figures C for Steps 4-5.**

Step 4: Locate and disconnect the MAP sensor connector, by pressing down on the locking tab of the connector, and sliding it out of the sensor.

Step 5: Locate the MAP sensor jumper harness on the aFe module. This is the shorter harness. Plug the female connector of the module to the stock MAP sensor, then take the male connector of the module and connect to the female connector of the engine harness.



Refer to Figure D for Step 6.

Step 6: Check with the pictures to make sure the connectors are correctly connected.

Note: Make sure connections are fully engaged. Usually, connectors make a snapping sound when fully engaged.



Figure E

Refer to Figure E for Steps 7-8.

- Step 7: Locate and disconnect the TMAP sensor connector, by pressing down on the locking tab of the connector, and sliding it out of the sensor.
- Step 8: Locate the TMAP sensor jumper harness on the aFe module. This is the longer harness. Plug the female connector of the module into the stock TMAP sensor, then the male connector of the module into female connector of the engine harness.



Figure F

Refer to Figure F for Step 9.

Step 9: Check with the pictures to make sure the connectors are correctly connected.

Note: Make sure connections are fully engaged. Usually, connectors make a snapping sound when fully engaged.



Figure G

Refer to Figure G for Steps 10-11.

Step 10: Carefully route the switch cable behind steering wheel cover.

Step 11: Mount the Switch on an open, flat surface.



Figure H

Refer to Figure H for Step 12.

Step 12: Route the switch cable through firewall and into the engine bay. Follow the main harness through the grommet into the firewall. Plug the end of the cable to the module harness.



Figure I

Refer to Figure I for Steps 13-14.

Step 13: Mount the module in a safe location, such as the recessed area on the inner fender, using the supplied Velcro strip. Then, secure the wires and module away from any extreme heat and moving parts, with the provided ties. Make sure all connections are secured and fully engaged.

Step 14: Reinstall the engine cover.



Figure J

Refer to Figure J for Step 15.

Step 15: When turning on the vehicle, the switch will go through the light. It will stop at its last setting.

The LED on the switch represents the different level 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 moment.

Thank you for choosing aFe POWER!



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advanced FLOW engineering, inc.
252 Granite Street Corona, CA 92879
TEL: 951.493.7100 TECH: 951.493.7134
E-Mail: Tech@aFepower.com