



**advanced FLOW engineering**

**Instruction Manual** P/N: 77-43025

Make: **Ford** Model: **F-150 EcoBoost** Year: **2017-2020** Engine: **V6-3.5L (tt)**

Make: **Ford** Model: **F-150 EcoBoost** Year: **2018-2020** Engine: **V6-2.7L (tt)**

Make: **Ford** Model: **Expedition** Year: **2018-2020** Engine: **V6-3.5L (tt)**



- 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            | R77-43025   |
| B     | 1    | LED Switch        | 05-70029    |
| C     | 2    | Velcro (2 Inches) | 05-01244    |
| D     | 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.





# SLEEP MODE

**Figure A**

## **Refer to Figure A for Step 1.**

Step 1: Before installing the aFe Power Module you must place your vehicle's 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 batter



**Note: Do NOT open the doors or start the vehicle while one of the sensors is disconnected. This could cause a check engine light.**

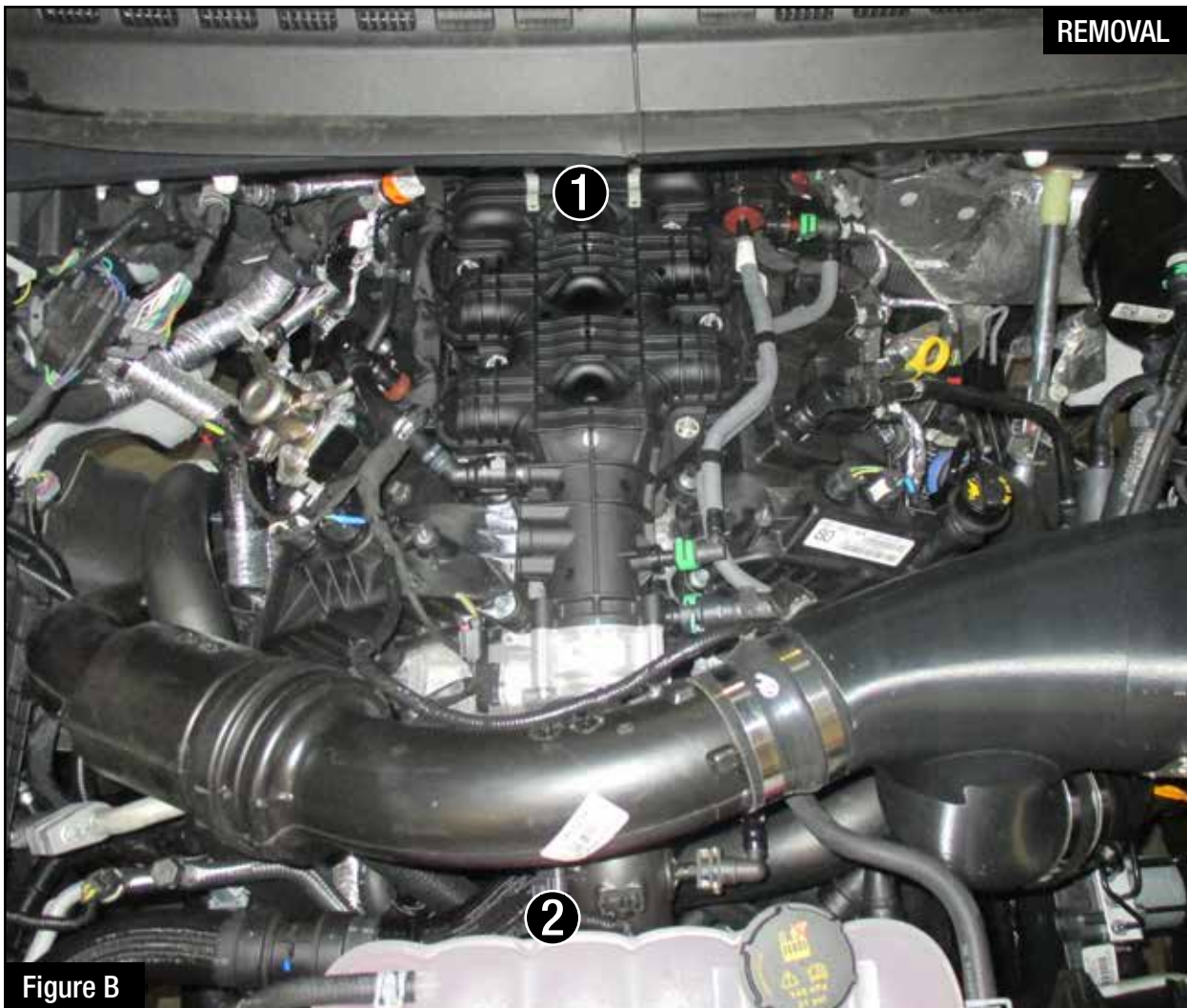


Figure B

**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 ① and TMAP ② 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 Figure C for Steps 4-5.**

Step 4: Locate and disconnect the MAP sensor, by sliding back the gray locking tab, then press down on the tab and slide the connector 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 into the MAP sensor, then take the male connector of the module and connect it to the female connector of the engine harness.



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



Figure D

### **Refer to Figures D for Steps 6-7.**

- Step 6: Disconnect the TMAP sensor, by sliding back the gray locking tab, then press down on the tab and slide the connector out of the sensor.
- Step 7: Locate the TMAP sensor jumper harness on the aFe module. This is the longer harness. Plug the male connector of the module to the stock TMAP sensor, then the female connector of the module male connector of the engine harness.



Figure E

**Refer to Figure E for Steps 8-9.**

Step 8: Carefully route the switch cable behind steering wheel cover. Route the cable on the back of the switch to exit toward the top or bottom.

Step 9: Mount the Switch on an open, flat surface.





**Refer to Figure F for Step 10.**

Step 10: 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.

**Figure G****Refer to Figure G for Steps 10-11.**

Step 11: Mount the module in a safe location, 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 12: Reinstall the engine cover.



**Refer to Figure H for Step 13.**

Step 13: 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 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!



**advanced FLOW engineering, inc.**  
252 Granite Street Corona, CA 92879