



## advanced FLOW engineering

### Instruction Manual P/N: 77-43023

Make: <b>Ford</b>	Model: <b>F-150 Raptor</b>	Year: <b>2017-2019</b>	Engine: <b>V6-3.5L (tt) EcoBoost</b>
Make: <b>Ford</b>	Model: <b>F-150 Limited</b>	Year: <b>2017-2019</b>	Engine: <b>V6-3.5L (tt) EcoBoost</b>
Make: <b>Ford</b>	Model: <b>Expedition Platinum</b>	Year: <b>2018-2019</b>	Engine: <b>V6-3.5L (tt) EcoBoost</b>
Make: <b>Lincoln</b>	Model: <b>Navigator</b>	Year: <b>2018-2019</b>	Engine: <b>V6-3.5L (tt) EcoBoost</b>



- 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.
- 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	R77-43023
B	1	LED Switch	05-70029
C	2	Hook and loop fastener (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 your aFe module, you will have to place your vehicles 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.



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 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.



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

Step 4: Locate and disconnect the MAP sensor.

Step 5: Locate the MAP sensor jumper harness on the aFe module. This is the shorter harness. Plug the male connector of the module to the stock MAP sensor, then take the female connector of the module and connect to the male 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 Figure D for Steps 6-7.**

Step 6: Disconnect the MAP 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.

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 11-12.**

Step 11: Mount the module in a safe location, using the supplied Hook and loop fastener 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.

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

Step 13: 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!



**OE Replacement Air Filter**



P/N: 30-10162 (P5R)  
31-10162 (PDS)

**Air Intake System**



P/N: 51-73115 (PDS)  
54-73115 (P5R)

**Cat-Back Exhaust System**



P/N: 49-43045-B (Blk Tip)  
49-43045-P (Pol Tip)

**Rear Differential Cover**



P/N: 46-70152-WL (w/ Oil)  
46-70152 (Blk)  
46-70150 (RAW)

**Cat-Back Side-Exit  
Exhaust System**



P/N: 49-43091-B (Blk Tip)  
49-43091-P (Pol Tip)

**Turbo Downpipes**



P/N: 48-43020-HC (Street)  
48-43020-HN (Race)

**Intercooler w/ Tubes**



P/N: 46-20292-B

**Sprint Booster V3**



P/N: 77-13001