



advanced FLOW engineering

Instruction Manual P/N: 77-43026

Make: **Ford** Model: **Ranger (T6)** Year: **2011-2019** Engine: **L5-3.2L (td)**



- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- 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	R77-43026
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 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 the engine cover to gain access to the Fuel pressure sensor.

Step 3: Locate the MAP and Fuel Pressure Sensors. The MAP sensor is on top of the charge tube to the right of the engine. The fuel pressure sensor is at the end of the fuel rail, near the firewall.



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 longer harness with a 3 wire connector. 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: Locate and disconnect the fuel pressure sensor.

Step 7: Locate the fuel pressure sensor jumper harness on the aFe module. This is the shorter harness with a 4 wire connector. Plug the male connector of the module to the stock fuel pressure sensor, then the female connector of the module male connector of the engine harness.

Note: This connector can be hard to remove and install so be careful not to damage it.



Figure E

Refer to Figure E for Steps 8-9.

Step 8: Carefully route the connector end of switch cable behind the dash, going through the gap around the steering wheel is the easiest option.

Step 9: Mount the Switch on an open, flat surface. Make sure it is positioned so that the cable reaches the firewall.



Figure F

Refer to Figure F for Step 10.

Step 10: Using the pictured grommet if available, route the switch cable through firewall and into the engine bay. If this grommet is unavailable you will have to use a different grommet. Plug the end of the cable to the module harness with the smallest 3 wire connector.

**Figure G****Refer to Figure G for Steps 11-12.**

Step 11: Mount the module in a safe location, such as the flat surface under the brake master cylinder, 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!