

**advanced FLOW engineering**

**Instruction Manual** P/N: 77-46320

Make: **BMW** Model: **328d/dx (F30/F31)** Year: **2014-2017** Engine: **L4-2.0L (td) N47**

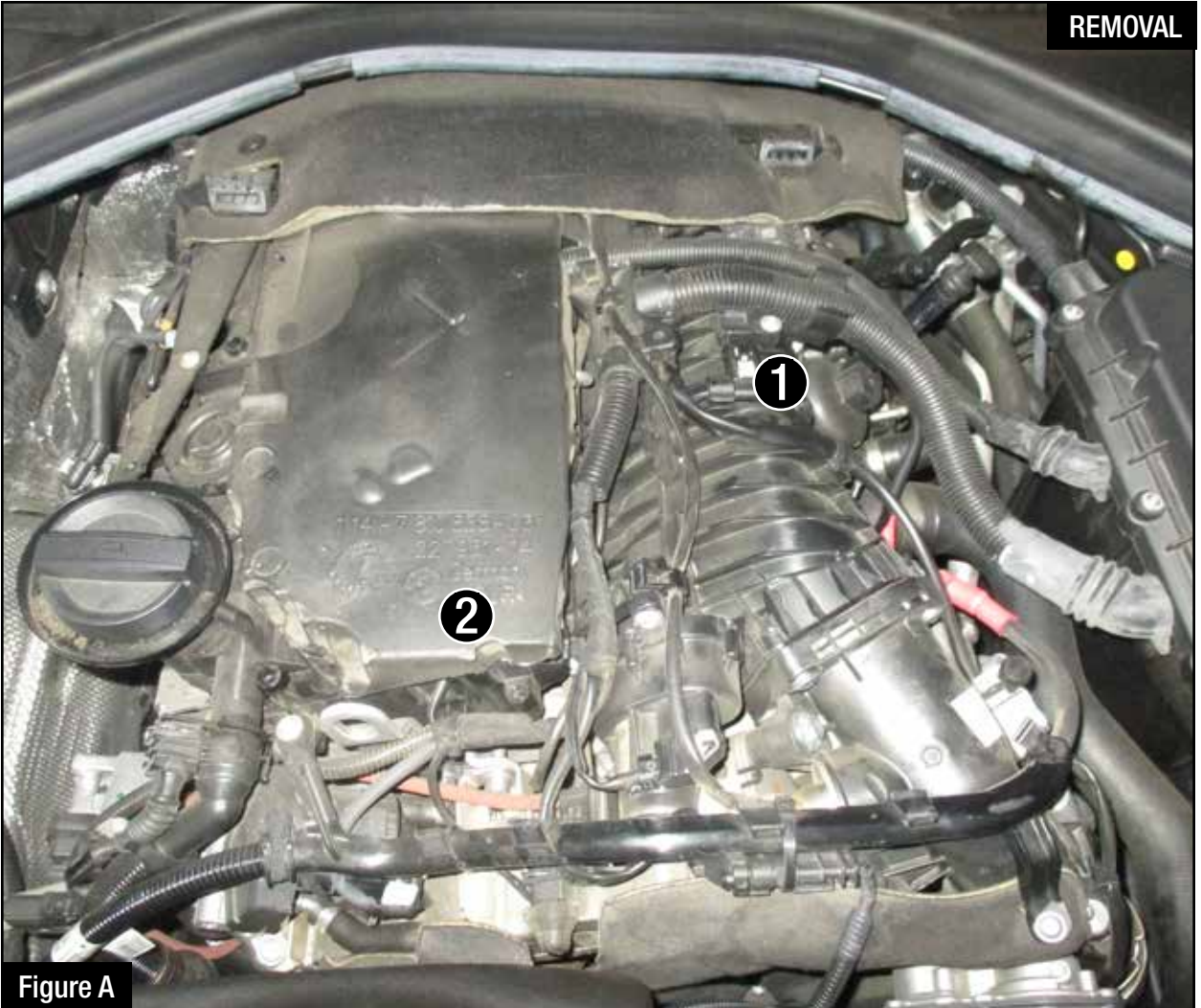


- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- If you are missing any of the components, call customer support.
- Ensure you have all necessary tools before proceeding.
- Do not attempt to work on your vehicle when the engine is hot.
- Disconnect the negative battery terminal before proceeding.
- Retain factory parts for future use.

Label	Qty.	Description	Part Number
A	1	Module	R77-46320
B	1	LED Switch	05-70005
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.



**Figure A****Refer to Figure A for Steps 1-2.**

Step 1: Remove engine cover and foam insulation to gain access to the sensors.

Step 2: Locate the MAP sensor (1) and the fuel pressure sensor (2). The Map sensor is located on top of the intake manifold. The fuel pressure sensor is located on the end of the fuel rail towards the front of the engine.

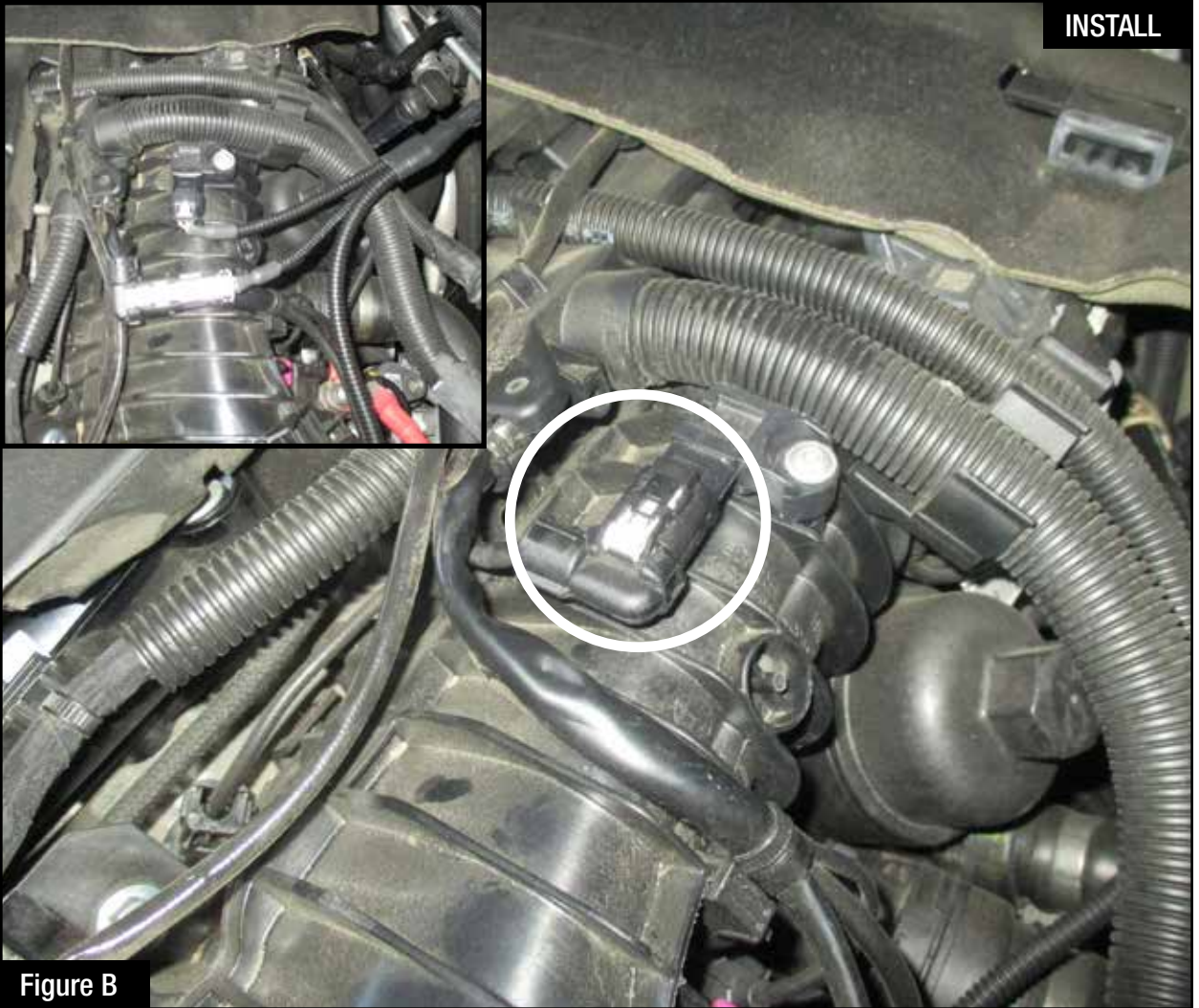


Figure B

**Refer to Figures B for Steps 3-4.**

Step 3: Disconnect the MAP sensor.

Step 4: Locate the MAP sensor jumper harness on the aFe module. This is the shortest harness. Plug the male connector of the module to the stock MAP sensor, then the female connector of the module male connector of the engine harness.

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





**Refer to Figure C for Steps 5-6.**

Step 5: Disconnect the fuel pressure sensor.

Step 6: Locate the fuel pressure sensor jumper harness on the aFe module. This is the longer harness. Plug the male connector of the module to the stock fuel pressure sensor, then take the female connector of the module and connect to the male connector of the engine harness.



Figure D

**Refer to Figure D for Steps 7-8.**

Step 7: Carefully route the switch cable behind steering wheel cover.

Step 8: Mount the Switch on an open, flat surface.



**Refer to Figure E for Steps 9-10.**

Step 9: Remove the push clip on the driver side windshield cover.

Step 10: Unlock the three 10mm nuts retaining the windshield cover and remove





Figure F

**Refer to Figure F for Steps 11-13.**

Step 11: Remove the two 10mm nuts holding the foot trim panel.

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.

Step 13: Re-install foot trim panel.


**Figure G**

**Refer to Figure G for Steps 14-16.**

Step 14: 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 cable ties. Make sure all connections are secured and fully engaged.

Step 15: Re-install windshield cover, refer to steps 3-4.

Step 16: Re-install foam insulation and engine cover.



Figure H

**Refer to Figure H for Step 17.**

Step 17: 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: 30-10225 (P5R)  
31-10225 (PDS)

**Air Intake System**



P/N: 54-76307 (P5R)  
51-76307 (PDS)

**Dynamic Air Scoop**



P/N: 54-12218 (Black)  
54-12218-C (C/F)  
54-12218-R (Red)  
54-12218-L (Blue)

**Intercooler**



P/N: 46-20301