



advanced FLOW engineering

Instruction Manual P/N: 77-46314

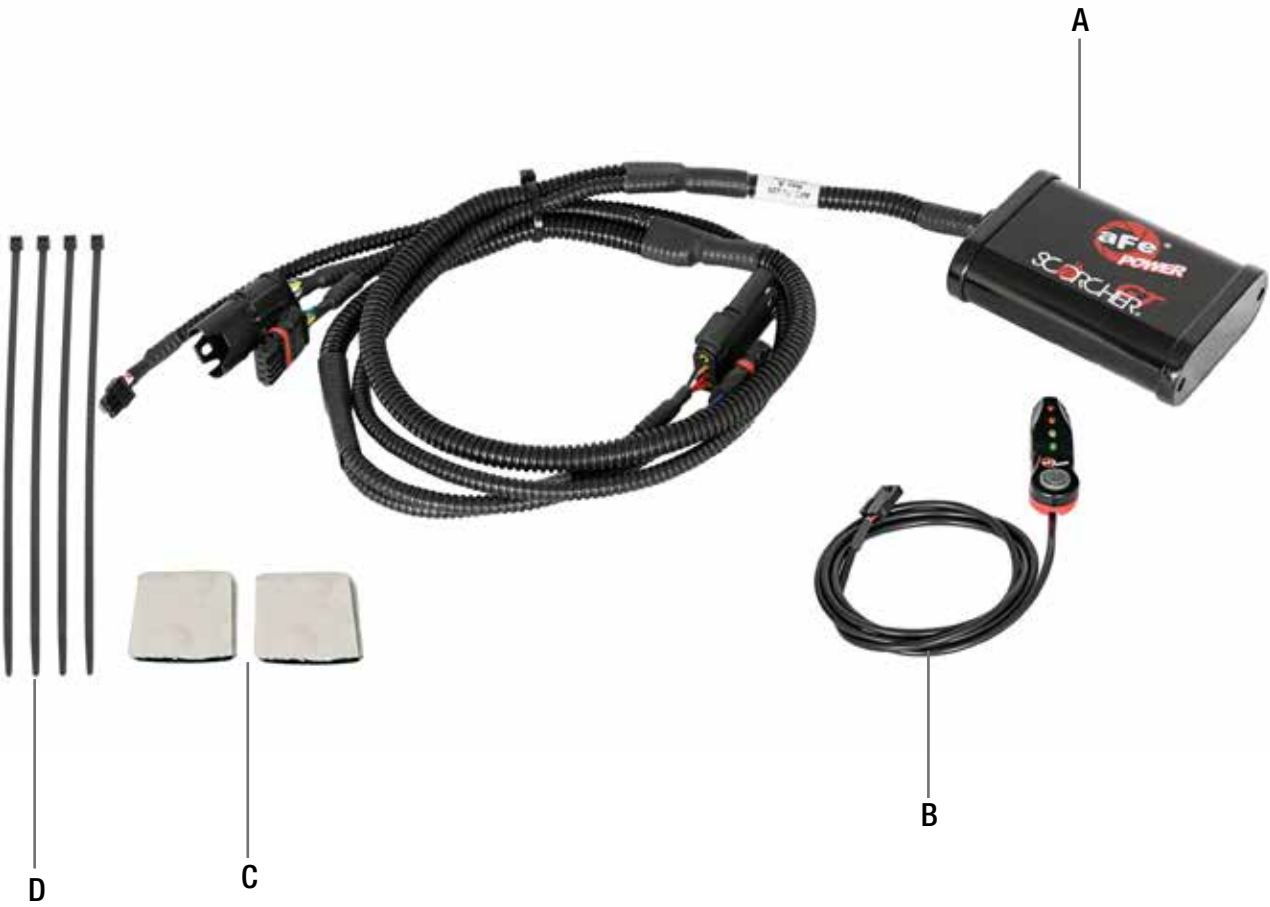
Make: **BMW** Model: **335i (E9X)** Year: **2011-2012** Engine: **L6-3.0L (t) N55 Sensor 1**



- 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	R77-46314
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.





The 2011-2012 BMW's with the N55 engine came with two styles of TMAP and MAP sensors depending on your vehicles build date. Please use the photos below to determine which style sensors your vehicle is equipped with and confirm you have the correct module. The breaking year is 2011. Vehicles before mid 2011 have the sensor 1 style. Vehicles after mid 2011 have the sensor two style. Please see part number 77-46311 for the sensor 2 style module.

Sensor Style 1 TMAP Sensor



Sensor Style 2 TMAP Sensor



NOTE: Installation photos are from a BMW 335i (E90) 2011 L6-3.0L Turbo (N55).



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.



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

**Figure B****Refer to Figure B for Steps 2-3.**

Step 2: Locate the MAP sensor. The MAP sensor is located on the top of the intake manifold next to a set of wires.

Step 3: Locate the TMAP sensor. The TMAP sensor is located in front of your throttle body on the charge pipe.



Note: Notice both sensors look very similar. **MAKE SURE** you do not plug the jumper harness into the wrong sensor.

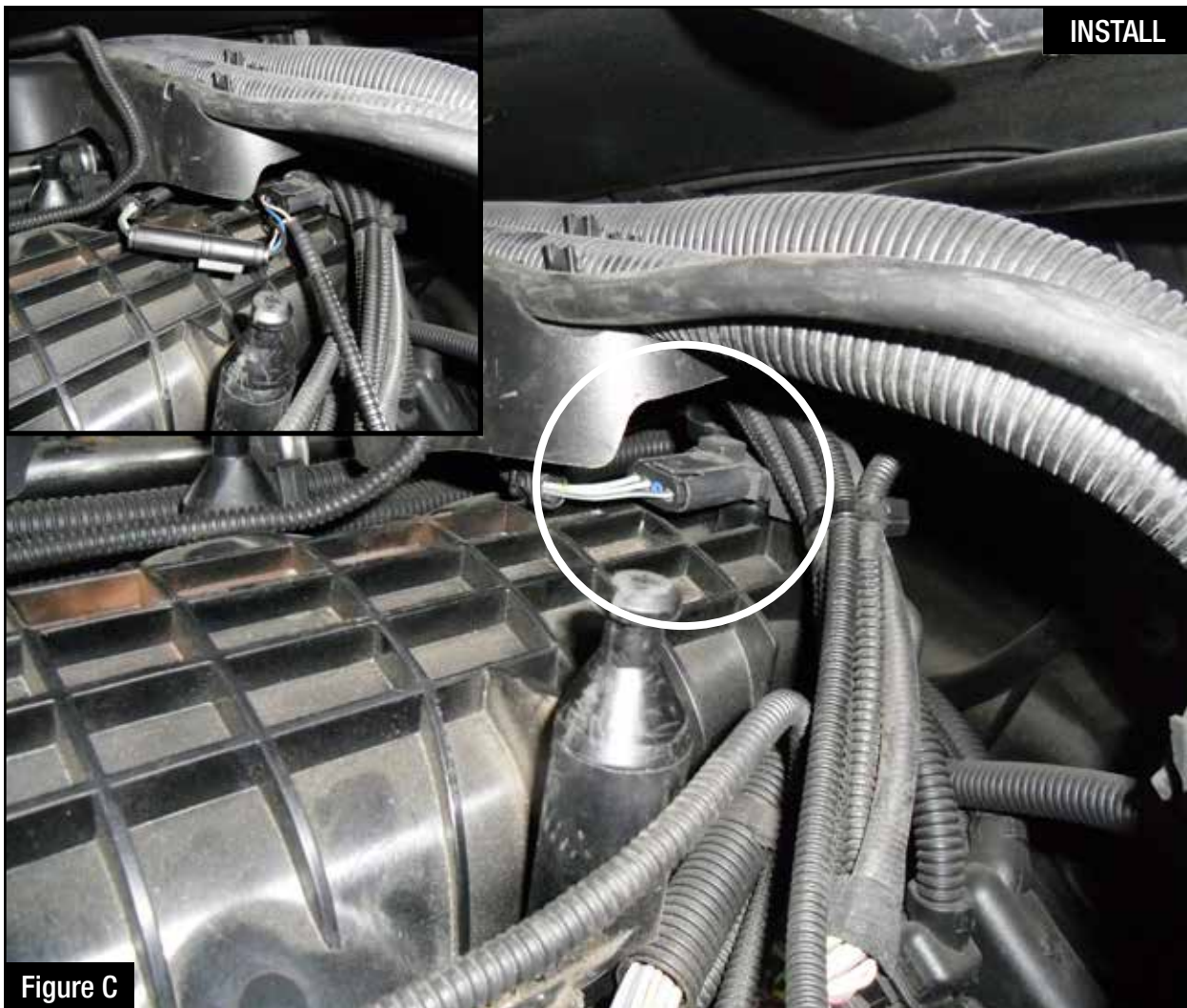


Figure C

Refer to Figures C for Steps 4-5.

NOTE: Pictures are from a 2011 BMW 335i (E90) L6-3.0L Turbo N55

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 3 wires going to each 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.

**Refer to Figure D for Steps 6-7.**

NOTE: Pictures are from a 2011 BMW 335i (E90) L6-3.0L Turbo N55

Step 6: Disconnect the TMAP sensor

Step 7: Locate the TMAP sensor jumper harness on the aFe module. This is the shorter harness with 4 wires going to each connectors. Plug the male connector of the module to the stock TMAP sensor, then the female connector of the module 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 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.



Figure F

Refer to Figure F for Steps 10-12.

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

Step 11: 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 12: Re-install foot trim panel.



Figure G

Refer to Figure G for Step 14.

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 ties. Make sure all connections are secured and fully engaged.


Figure H

Refer to Figure H 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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