advanced FLOW engineering

Instruction Manual  P/N: 77-46323

Make: BMW  Model: 550i/ix (F1X)  Year: 2013-2017  Engine: V8-4.4L (tt) N63
Make: BMW  Model: 650i/ix/Gran Coupe (F0X/F1X)  Year: 2013-2018  Engine: V8-4.4L (tt) N63
Make: BMW  Model: 750i/ix/Li/Lix (F0X)  Year: 2013-2015  Engine: V8-4.4L (tt) N63
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.

<table>
<thead>
<tr>
<th>Label</th>
<th>Qty.</th>
<th>Description</th>
<th>Part Number</th>
</tr>
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<tbody>
<tr>
<td>A</td>
<td>1</td>
<td>Module</td>
<td>R77-46323</td>
</tr>
<tr>
<td>B</td>
<td>1</td>
<td>LED Switch</td>
<td>05-70029</td>
</tr>
<tr>
<td>C</td>
<td>2</td>
<td>Velcro (2 Inches)</td>
<td>05-01244</td>
</tr>
<tr>
<td>D</td>
<td>4</td>
<td>Cable Ties</td>
<td>05-60167</td>
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</table>

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.
Refer to Figure A for Step 1.

Step 1: Before installing your aFe module, you will have to place your vehicle's 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: Installation photos are from a 2015 BMW X5 xDrive 50i N63 V8-4.4L (tt).
Refer to Figures B for Steps 2-3.

Step 2: Locate both intercoolers and remove factory airbox, air duct or other components to get access to them. There is an intercooler on the driver side and passenger side. You need to get access to the TMAP located on each intercooler.

Step 3: Locate both TMAP sensors. The TMAP sensors are located on the intercooler bank.
Refer to Figure C for Steps 4-5.

Step 4: Disconnect the TMAP sensor on the driver side.

Step 5: Locate the driver side TMAP sensor jumper harness on the aFe module. This is the shorter harness. Plug the female connector of the module into the stock TMAP sensor, then take the male connector of the module and connect to the female 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.

Step 6: Disconnect the TMAP sensor on the passenger side.
Step 7: Locate the TMAP sensor jumper harness on the aFe module. This is the longer harness. Plug the female connector of the module into the TMAP sensor, then the male connector of the module to the female connector of the engine harness.
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.
Refer to Figure G for Steps 11-12.

Step 11: Mount the module in a safe location on the driver side, 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 components removed on Step 2.
Refer to Figure H for Step 13.

Step 13: When turning on the vehicle, each LED will flash. 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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To purchase any of the items above, view airflow charts, dyno graphs, photos, and video please go to aFepower.com.
Warranty

General Terms:

- aFe warrants their products to be free from manufacturer’s defects due to workmanship and material.
- This warranty applies only to the original purchaser of the product and is non-transferrable.
- Proof of purchase of the aFe product is required for all warranty claims.
- Warranty is valid provided aFe instructions for installation and/or cleaning were properly followed.
- Proper maintenance with regular inspections of product is required to insure warranty coverage.
- Damage due to improper installation, abuse, unauthorized repair or alteration is not warranted.
- Incidental or consequential damages or cost, including installation and removal of part, incurred due to failure of aFe product is not covered under this warranty.
- All warranty is limited to the repair and/or replacement of the aFe part. To request Return Goods Authorization ("RGA"), email RGA@afepower.com or call (951)493-7100. Upon receipt of the RGA, you must return the product to the address provided in the RGA, freight prepaid and accompanied with a dated proof of purchase and the RGA. Upon receipt of the defective product and upon verification of proof of purchase, aFe will either repair or replace the defective product within a reasonable time, not to exceed thirty days.

<table>
<thead>
<tr>
<th>Product Category</th>
<th>P/N Prefix</th>
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<td>Direct OE Replacement Filters</td>
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<td>Life of the vehicle</td>
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<tr>
<td>Racing Filters</td>
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<td>Universal</td>
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<tr>
<td>Air Intake Systems</td>
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<td>Exhaust Systems</td>
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<td>Intercoolers &amp; Intercooler Tubes</td>
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<td>Differential Cover</td>
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<td>Exhaust Manifolds</td>
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<td>Throttle Body Spacers</td>
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<td>PowerSports Intake Systems</td>
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<tr>
<td>Tuners</td>
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