

advanced FLOW engineering

Instruction Manual P/N: 77-46319

Make: **MINI** Model: **Cooper S (R56/R57)** Year: **2011-2015** Engine: **L4-1.6L (t) N18**



- 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	R77-46319
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.



A



D

C



B



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 Step 2.

Step 2: Locate the TMAP and MAP sensor. The TMAP Sensor is located on the charge pipe on the left side of the engine bay. The MAP sensor is on top of the intake manifold, underneath the air box.



Figure C

Refer to Figure C for Steps 3-4.

Step 3: Locate and disconnect the TMAP sensor.

Step 4: Locate the TMAP sensor jumper harness on the aFe module. This is the longer part of the harness, each connector has 4 wires. 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.



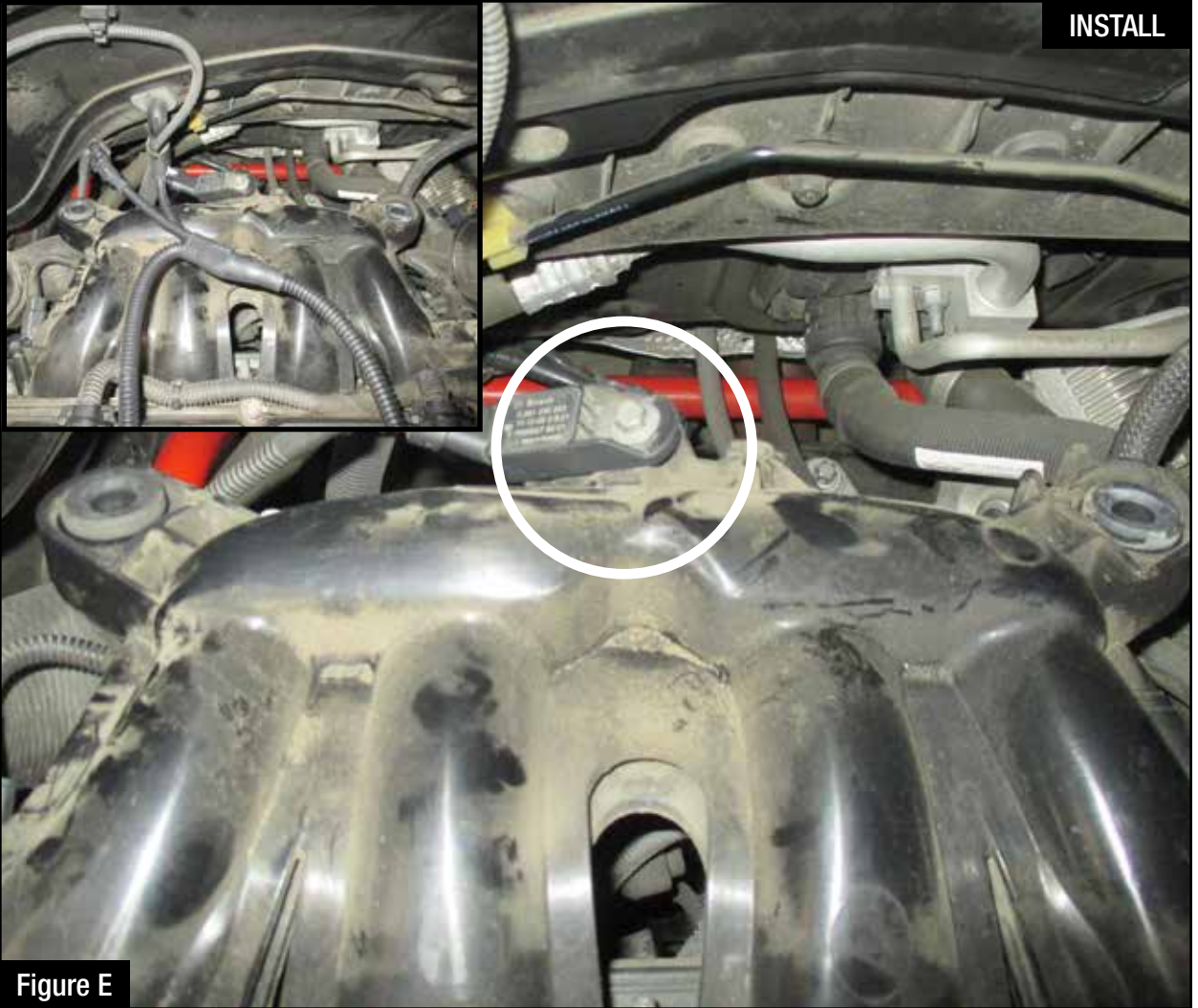
Note: Make sure connections are fully engaged. Usually, connectors make a snapping sound when fully engaged.



Figure D

Refer to Figures D for Step 5.

Step 5: Remove air box to gain access to the MAP sensor.

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

Step 6: Locate and disconnect the MAP sensor.

Step 7: Locate the MAP sensor jumper harness on the aFe module. This is the shorter harness, each connector has 3 wires. Plug the female connector of the module to the stock MAP sensor, then plug the male connector of the module into female connector of the engine harness.



Figure F

Refer to Figure F 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 G

Refer to Figure G 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 H

Refer to Figure H for Step 11.

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

**Figure I****Refer to Figure I for Step 12.**

Step 12: 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!

Air Intake System



P/N: 51-12452 (PDS)
54-12452 (P5R)

Sprint Booster V3



P/N: 77-16307

Turbo Downpipe



P/N: 48-36318-HC (Street)
48-36318-HN (Race)

Cat-Back Exhaust System



P/N: 49-36318

Rear-Down-Pipe/Mid-Pipe



P/N:48-36319-RN

aFe POWER T-Shirt



P/N: 40-30441-B (S)
40-30442-B (M)
40-30443-B (L)
40-30444-B (XL)
40-30445-B (2XL)