

advanced FLOW engineering

Instruction Manual P/N: 77-46307

| | | |
|------------------|---------------------------------|--|
| Make: BMW | Model: M5 (F10) | Year: 2012-2017 Engine: V8-4.4L (tt) S63 |
| Make: BMW | Model: M6 (F12/F13/F06) | Year: 2012-2017 Engine: V8-4.4L (tt) S63 |
| Make: BMW | Model: X5M/X6M (F85/F86) | Year: 2015-2019 Engine: V8-4.4L (tt) S63 |



- 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 | R77-46307 |
| B | 2 | Velcro (2 Inches) | 05-01244 |
| C | 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.



Installation

Step 1: Before installing the aFe module, you will have to place the vehicle ECU in sleep mode. In order to place the vehicles ECU insleep mode you will need to do the following:

- 1) If the engine is cold, open the hood, close the doors, lock the car and wait 30 seconds.
- 2) If the engine is warm, open the hood, close the doors, lock the car and wait 20 minutes.
- 3) If the engine is warm and you can't wait 20 minutes, disconnect the battery.

**Figure A****Refer to Figure A for Steps 2-5**

- Step 2: Loosen factory clamps on the OE air boxes and unclip hoses from the factory air boxes.
- Step 3: With a T30 torx driver, remove the two screws holding the passenger and driver side air boxes (one screw on each air box).
- Step 4: Firmly pull the driver side factory air box out of its mounting location and unclip hoses attached to it then remove it as one piece out of the vehicle.
- Step 5: Do the same thing with the passenger side factory air box. First pull it out of its mounting location then take it out of the vehicle.

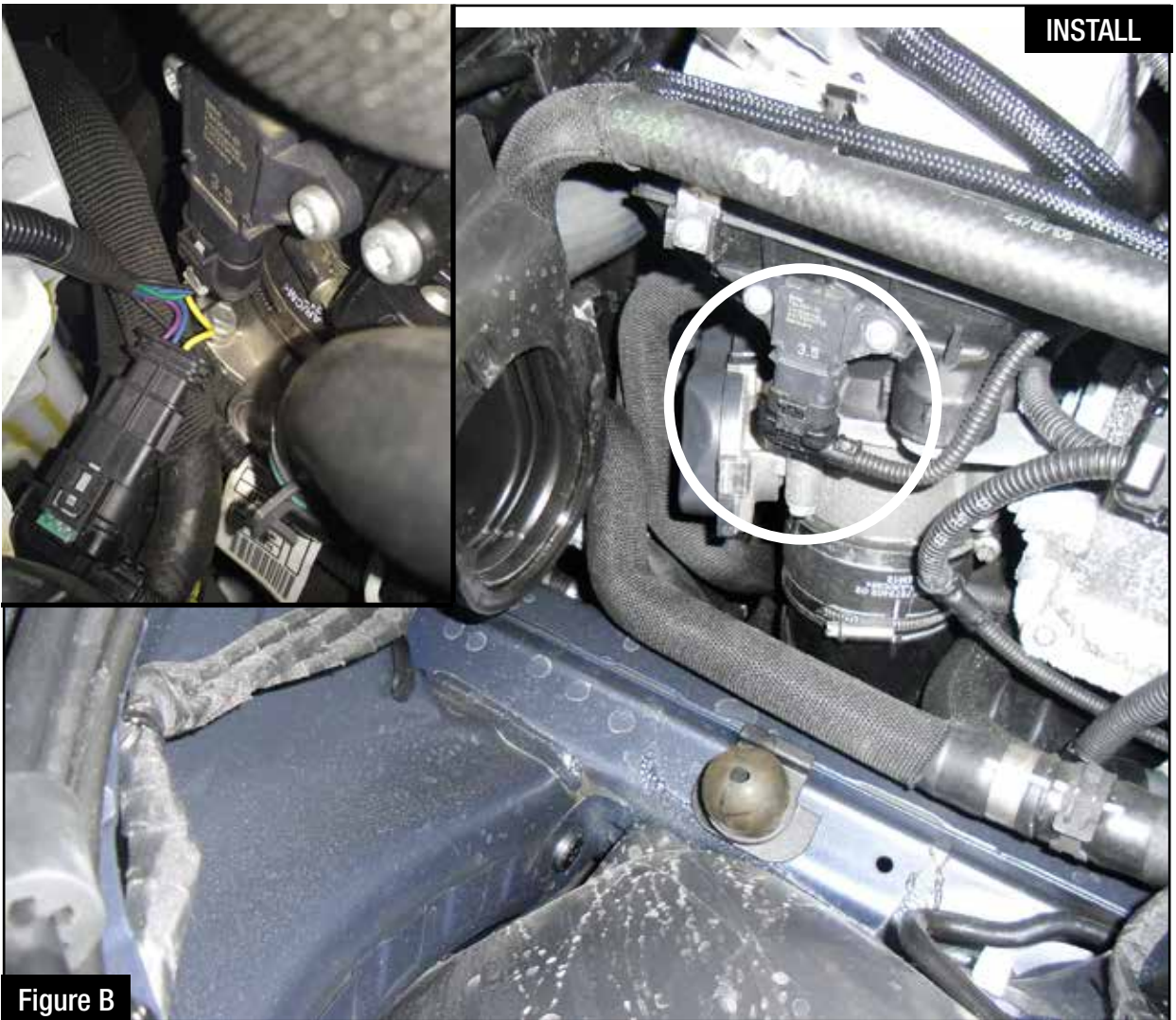


Figure B

Refer to Figure B for Steps 6-8

Step 6: Locate the MAP sensors, on each side of the intercoolers.

Step 7: Both intercept connectors on the aFe SCORCHER module are identical and can be connected either on the driver side or passenger side. Connect them accordingly to the desire of the module location and wire length.

Step 8: Plug the female connector on to the stock engine harness and the male connector to the MAP sensor as shown bottom side.

**Figure C****Refer to Figure C for Steps 9-11**

Step 9: Route the aFe module harness then use the supplied cable ties to secure it.

Step 10: Using the supplied high temp velcro, find a clean flat surface and firmly mount the module.

Step 11: Re-install the OE intake system. Refer to Steps 1-4.

Note: If the sticky side of the Velcro ever gets pulled off, replace it with a brand new high temp piece.



Figure D

Refer to Figure D for Step 12

Step 12: The aFe Scorcher Module has three adjustable settings via a switch next to the blue LED.

1. Switch in the center position: Factory setting.
2. Switch toward blue LED: Stage 1 setting (mid gains.)
3. Switch away from blue LED: Stage 2 setting (high gains.)

Adjust the module to the desired setting after installation and when needed but make sure to do it only while the vehicle is in sleep mode.

Step 9: Your installation is now complete! Thank you for choosing aFe Power!



This Page left blank intentionally.

This Page left blank intentionally.



Air Intake System



P/N: 54-76301 (P5R)
51-76301 (PDS)

Dynamic Air Scoops



P/N: 54-12489-C

Sprint Booster



P/N: 77-16302 A/T

aFe Gear



P/N: 40-30382 (M)
P/N: 40-30383 (L)
P/N: 40-30384 (XL)
P/N: 40-30385 (2XL)

OE Replacement Filter



P/N: 30-10222 (P5R)
31-10222 (PDS)

Exhaust System



P/N: 40-10135

Catback Exhaust Carbon Tips



P/N: 49-36317-C

Catback Exhaust Polished Tips



P/N: 49-36317-P

Caron Fiber Engine Cover



P/N: 79-13002

To purchase any of the items above, view airflow charts, dyno graphs, photos, and video please go to aFepower.com.

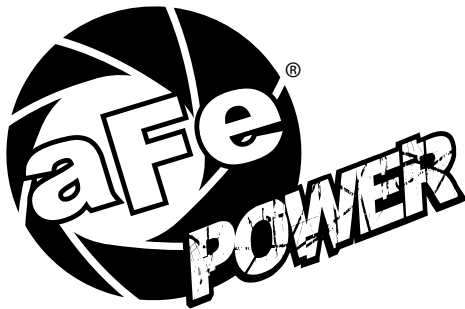
Warranty

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.

| Product Category | P/N Prefix | Warranty duration |
|----------------------------------|--------------------------------|--------------------------|
| Direct OE Replacement Filters | 10, 11, 30, 31, 71, 73 | Life of the vehicle |
| Racing Filters | 18 | 1 year |
| Universal | 21, 24, 72, TF | 2 years |
| Air Intake Systems | 50, 51, 54, 55, 75, TR, TA, TL | 2 years |
| Exhaust Systems | 49 | 2 years |
| Intercoolers & Intercooler Tubes | 46-2 | 2 years |
| Intake Manifolds | 46-1 | 2 years |
| Differential Cover | 46-7 | Life of the vehicle |
| Exhaust Manifolds | 46 | 2 years |
| Throttle Body Spacers | 46-3 | 2 years |
| Fluid Filters | 44 | 90 days |
| Pre-Filters | 28 | 2 years |
| Heavy Duty OE Replacement | 70 | 2 years |
| PowerSports OE Replacement | 81, 87 | 2 years |
| PowerSports Intake Systems | 85 | 2 years |
| Tuners | 77 | Contact aFe |

No other warranty expressed or implied applies nor is any person or advanced FLOW engineering authorized to assume any other warranty. Some States do not allow the exclusion or limitation of incidental or consequential damages or do not allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.



advanced FLOW engineering, inc.

252 Granite Street Corona, CA 92879

TEL: 951.493.7100 • TECH: 951.493.7134

E-Mail: Tech@aFepower.com