

advanced FLOW engineering

Instruction Manual P/N: 51-11951 / 54-11951

Make: **BMW** Model: **Z3 (E36/37)** Year: **1997-1999** Engine: **L6-2.8L**



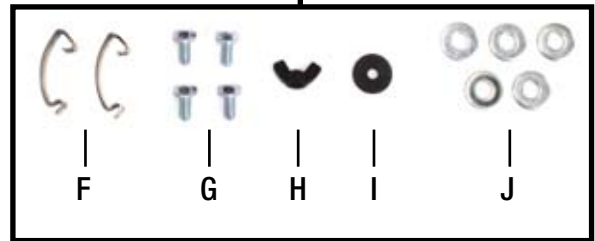
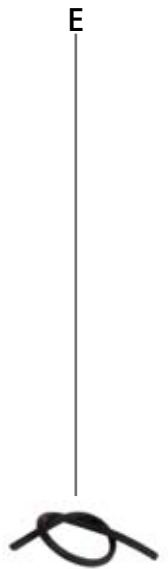
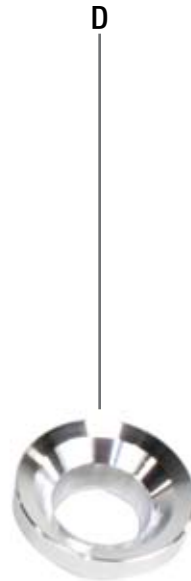
- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- If you are missing any of the components, call customer support.
- Ensure you have all necessary tools before proceeding.
- Do not attempt to work on your vehicle when the engine is hot.
- Disconnect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

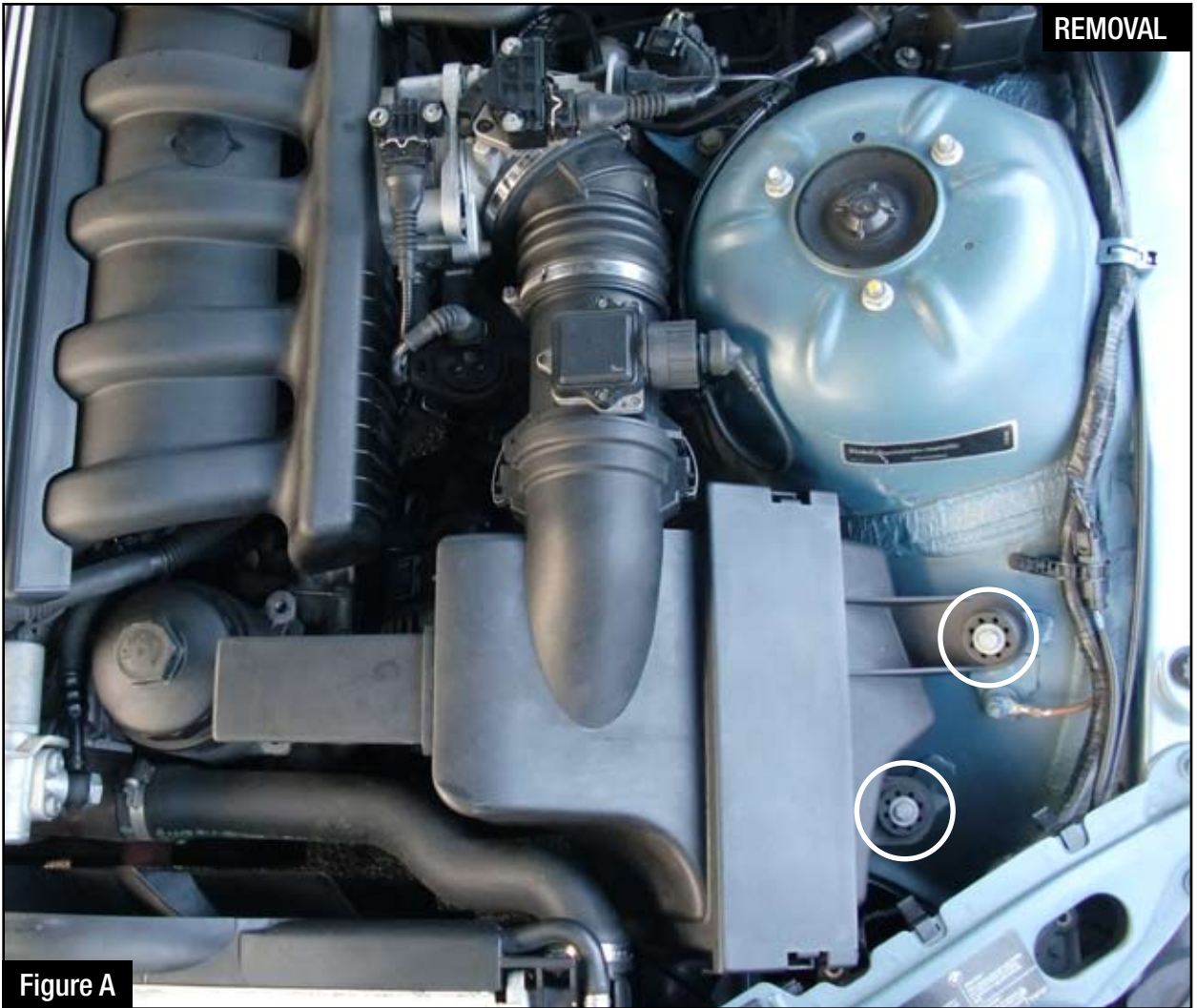
| Label | Qty. | Description | Part Number |
|-------|------|-----------------------|-------------|
| A1 | 1 | Air Filter | R21-55505 |
| A2 | 1 | Air Filter | R24-55505 |
| B | 1 | Housing | 05-11951B1 |
| C | 1 | Trim Seal - (38") | 05-00789 |
| D | 1 | Adaptor | 05-00393 |
| E | 1 | Trim Seal - (12") | 05-00149 |
| F | 2 | Spring Clips | 03-50109 |
| G | 4 | Screw - Hex M6 | 03-50032 |
| H | 1 | Nylon Wing Nut | 03-50226 |
| I | 1 | Washer - Sealing 1/4" | 03-50104 |
| J | 5 | Washer - Flat 1/4" | 03-50043 |

Installation will require the following tools:

Flat head screw driver, Phillips screw driver, 8mm socket, 10mm socket, Ratchet & 5/16 nut driver.

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: Remove the two screws holding down the OE filter housing by using a 10mm nut driver.

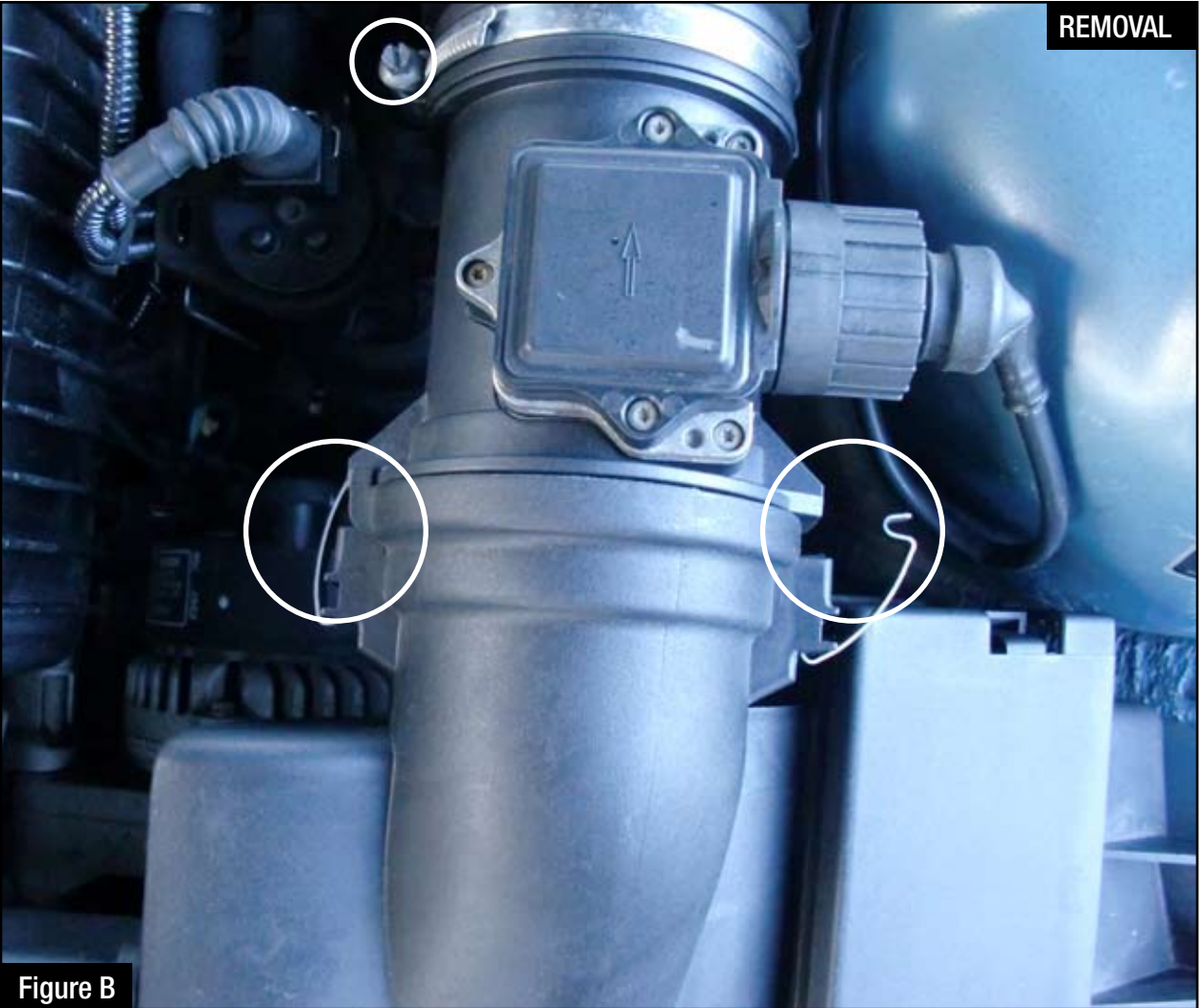
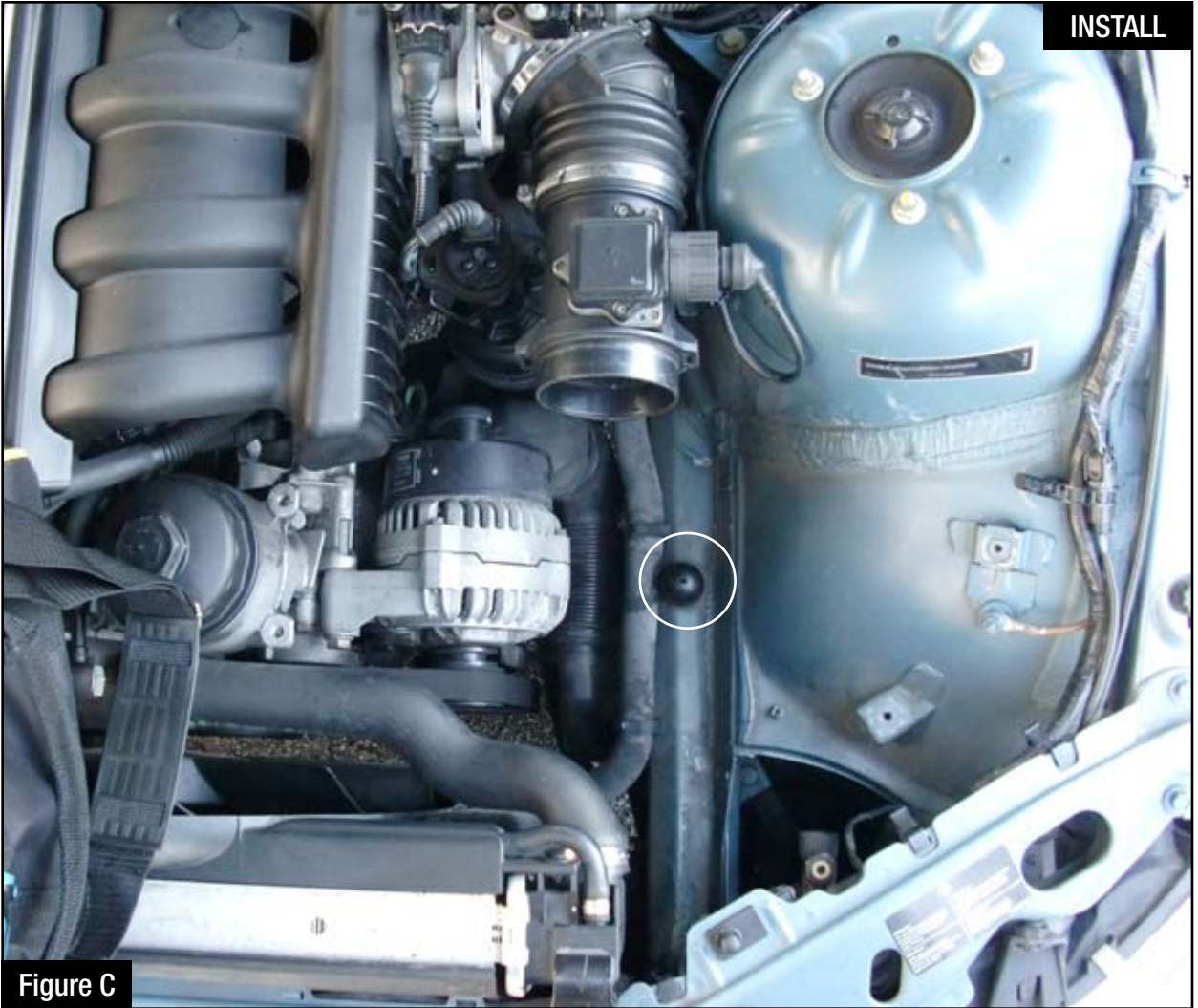


Figure B

Refer to Figure B for steps 2-3

Step 2: Unclip the two clips from the OE duct that the MAF (Mass Air Flow) sensor is secured with by using the flat head screwdriver.

Step 3: Loosen, but do not remove the clamp from the OE duct by using a 6mm nut driver.

**Figure C****Refer to Figure C for steps 4-5**

Step 4: Now carefully remove the OE filter housing from the Engine bay. To remove just pull away from the engine and it should just come out. There also is a rubber O-Ring inside the OE intake inlet. Remove and save for use in the aFe filter adaptor.

Step 5: Now remove the rubber-housing mount located right under the OE housing.



Figure D

Refer to Figure D for steps 6-9

Step 6: Assemble the intake housing (B), attach the adaptor (D) using the washers (J) and screws (G).

Step 7: Place the trim seal (C) on top of the housing and small trim seal (E) on its bracket.

Step 8: Insert O-ring in the Filter adaptor.


Figure E

Refer to Figure E for step 17

Step 9: Insert the two spring clips (F) on the OE MAF duct.

Step 10: Place housing in vehicle and adjust the OE duct for best fit and secure clips onto the adaptor.

Step 11: Screw the housing down using the OE screws. Insert the washer (I) (rubber side down) and Nylon wing nut (H) onto the sheet metal screw from the bottom and tighten.

Step 13: Install the filter (A) onto the adaptor. Make sure everything is tight and secure.

Installation is now complete.

NOTE: Retighten all connections after approximately 100-200 miles.



Pro DRY S Air Filter



P/N: 21-60505

Pro 5R Air Filter



P/N: 24-60505

Pre-Filters



P/N: 28-10091 Yellow
P/N: 28-10092 Red
P/N: 28-10093 Black
P/N: 28-10094 Blue

Pro DRY S Restore Kit



P/N: 90-59999

Blue Aerosol Restore Kit



P/N: 90-50001

Blue Squeeze Restore Kit



P/N: 90-50501

aFe Power Hat



P/N: 40-10083

aFe Key Chain



P/N: 40-10103

Warranty

aFe warrants their intake systems to be free of defects from workmanship and materials for a period of two (2) years, provided the intake system was: A) installed in an aFe recommended application according to aFe installation instructions; and B) the air filter has been properly cleaned utilizing an aFe cleaning solution and oil (not applicable on Pro DRY S filters). Damage from abuse, improper cleaning, improper oil and improper installation or from open flame is not covered by this limited warranty. In the event of a defect of an aFe product within the period covered by this limited warranty, the purchaser can return the product to the dealer where it was purchased or send the product to aFe at the address listed on the back after obtaining a Return Good Authorization (RGA) number from aFe. The original register receipt will be required as proof of purchase. Purchaser will be entitled to a refund of the entire purchase price or a replacement of the product at aFe's discretion. Purchaser shall be responsible for the cost of shipping the defective product to aFe. An RGA number can be obtained by calling aFe customer service. Products shipped without an RGA number will be refused. A refund or replacement of the product shall be the sole remedy available under this limited warranty and aFe shall not be responsible for consequential or incidental damages. (Some states do not allow this exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply). This warranty gives you specific legal rights, and you may have other rights, which vary from state to state.