BMW E60 N52 Intake System
Installation Instructions



Proper service and repair procedures are vital to the safe, reliable operation of all motor vehicles as well as the personal safety of those performing the repairs. Standard safety procedures and precautions (including use of safety goggles and proper tools and equipment) should be followed at all times to eliminate the possibility of personal injury or improper service which could damage the vehicle or compromise its safety.

INSTALLATION NOTES

- **RH** refers to the ***passenger side*** of the vehicle.
- **LH** refers to the ***driver side*** of the vehicle.
- Always use the proper torque specifications.
- If applicable to this installation, torque specifications will be listed throughout the document and at the end as well.
- Please read all of these instructions and familiarize yourself with the complete process **BEFORE** you begin.

GENERAL PREPARATION AND SAFETY INFORMATION

Turner Motorsport cares about your health and safety, please read the following safety information. This information pertains to automotive service in general, and while it may not pertain to every job you do, please remember and share these important safety tips.

- Park your car in a safe, well lit, level area.
- Shut the engine off and remove the key from the ignition switch.
- Make sure any remote start devices are properly disabled.
- **ALWAYS** wear safety glasses.
- Make sure the parking brake is applied until the vehicle is safely lifted and supported.
- Whether lifting a vehicle using an automotive lift or a hydraulic jack, be sure and utilize the factory specified lift points.
- Lifting a vehicle in an incorrect location can cause damage to the suspension/running gear.
- **ALWAYS** support the vehicle with jack stands.
- **ALWAYS** read and follow all safety information and warnings for the equipment you are using.

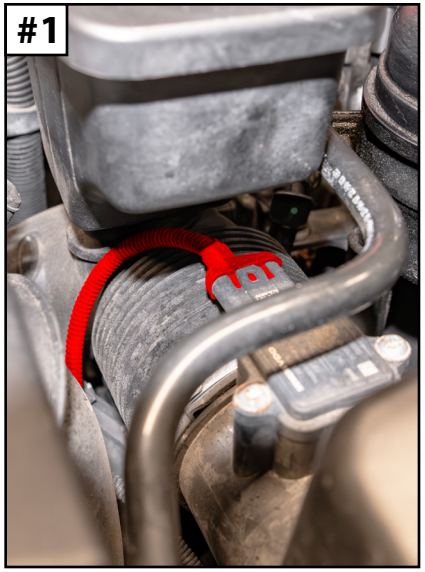


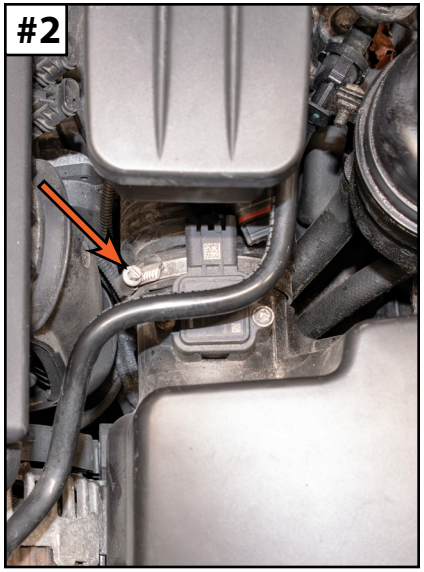
NEVER get underneath a vehicle that is supported only by a jack, and ALWAYS make sure that the vehicle is securely supported on jack stands.

REMOVING THE STOCK INTAKE SYSTEM

Step 1: 6mm Socket & Ratchet

Disconnect the MAF sensor connector (highlighted in **RED** in **Photo #1**), then loosen the clamp (arrow in **Photo #2**) that secures the intake tube to the airbox.





Step 2:

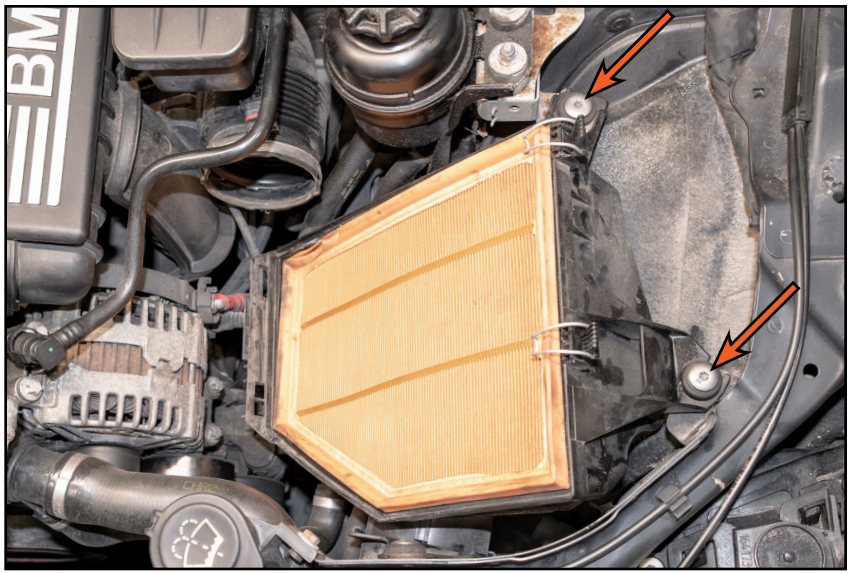
Open the latches (arrows) and remove the airbox lid.



REMOVING THE STOCK INTAKE SYSTEM

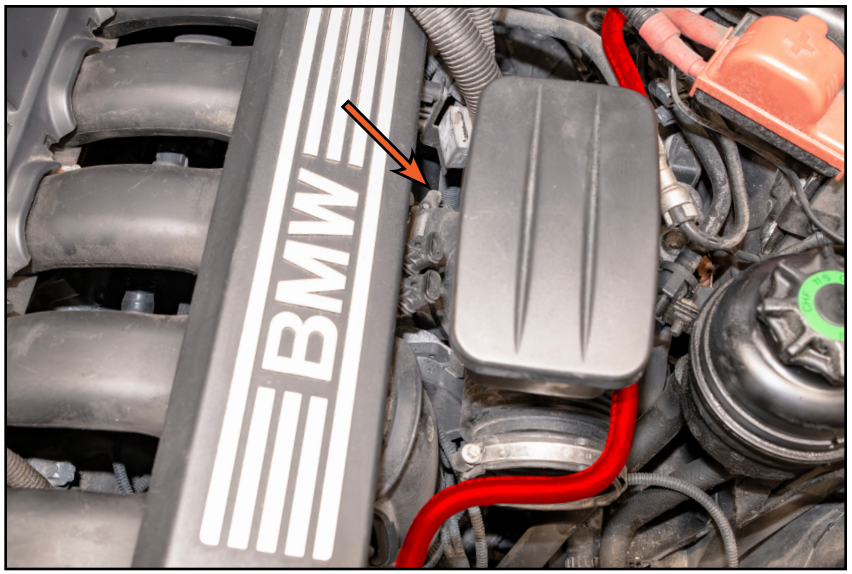
Step 3: T30 Torx Socket & Ratchet

Remove the screws (arrows) and remove the airbox.



Step 4: 6mm Socket & Ratchet

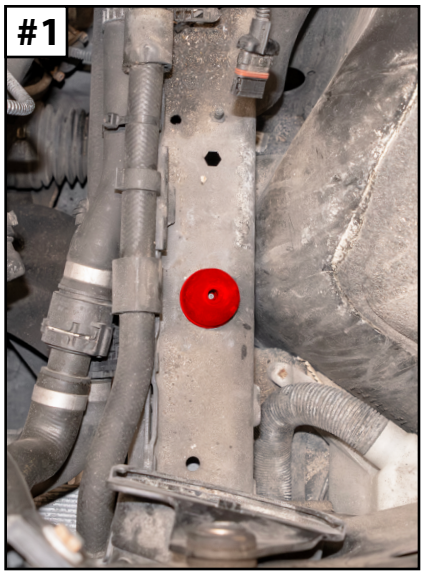
Free the vacuum pipe (highlighted in **RED**) from the clip on the intake tube, then loosen the clamp (arrow) and remove the intake tube.



INSTALLING THE NEW INTAKE SYSTEM

Step 1:

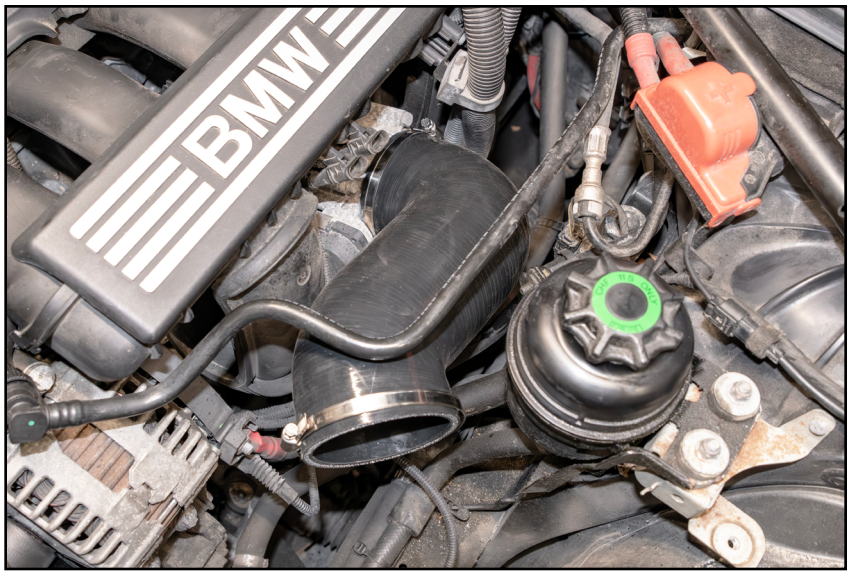
Remove the airbox mount (highlighted in **RED** in **Photo #1**) from the frame rail, and install the new standoff (highlighted in **GREEN** in **Photo #2**) in its place.





Step 2:

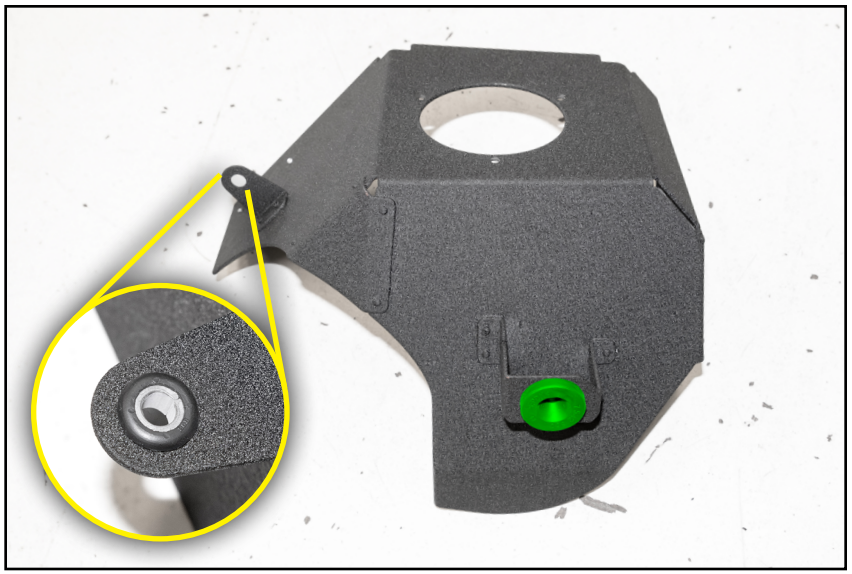
Install the new intake hose onto the throttle body as shown.



INSTALLING THE NEW INTAKE SYSTEM

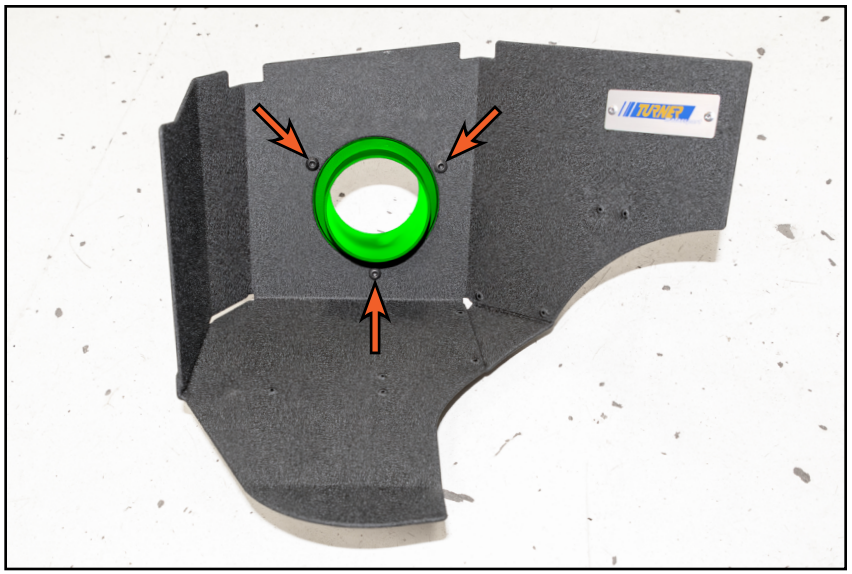
Step 3:

Install the provided rubber mount (highlighted in **GREEN**) into the opening on the bottom of the new heat shield, then install the grommet and spacer (inset photo) into the mounting tab on the side of the heat shield.



Step 4: 4mm Hex (Allen) Socket & Ratchet

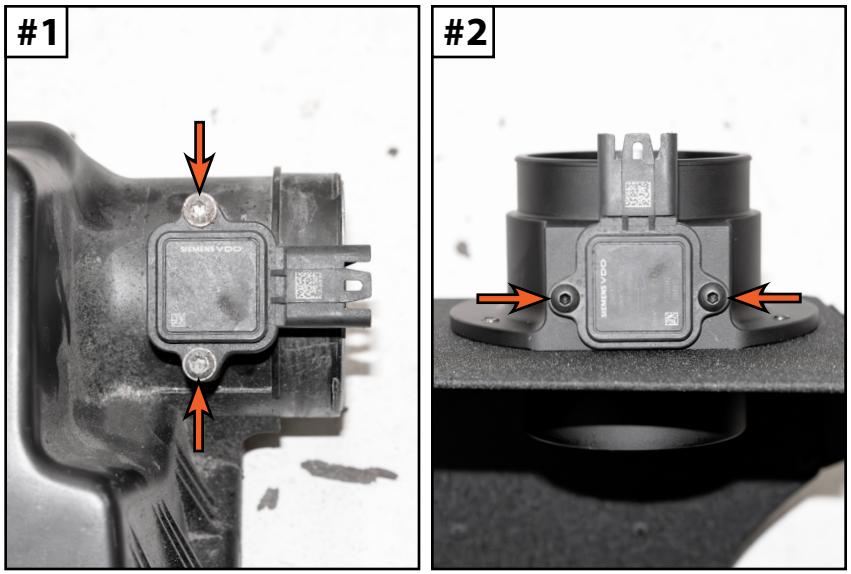
Install the MAF housing (highlighted in **GREEN**) into the heat shield, securing it in place with the provided M6 x 10mm screws (arrows).



INSTALLING THE NEW INTAKE SYSTEM

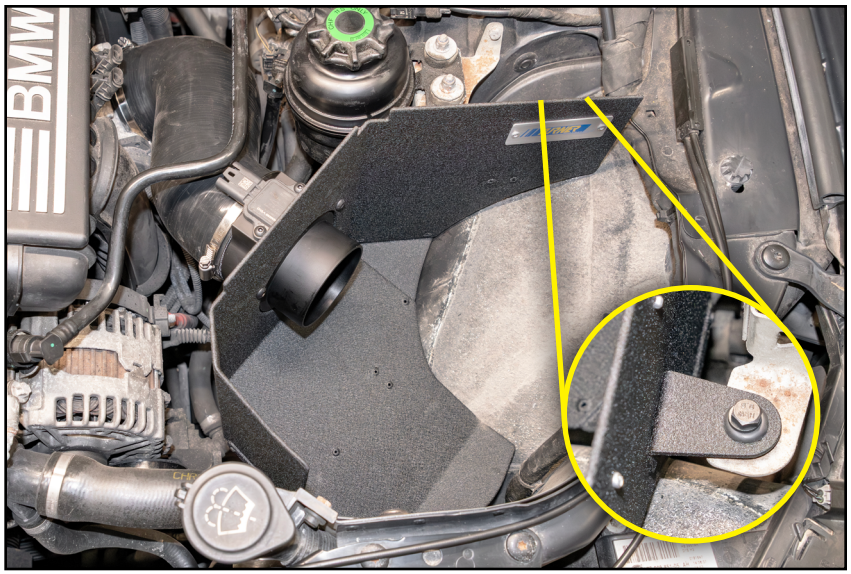
Step 5: T25 Torx, 3mm Hex (Allen) Socket & Ratchet

Remove the two screws (arrows in **Photo #1**), remove the MAF sensor from the airbox, and transfer it to the new MAF housing, securing it in place with the provided M5 x 10mm screws (arrows in **Photo #2**).



Step 6: 10mm Socket & Ratchet

Carefully lower the heat shield into place, ensuring the standoff pops into the rubber mount, then install the provided M6 x 16mm screw and washer (inset photo) to secure it to the vehicle. Slide the intake hose onto the MAF housing, then tighten both clamps until snug.



INSTALLING THE NEW INTAKE SYSTEM

Step 7: 8mm Socket & Ratchet

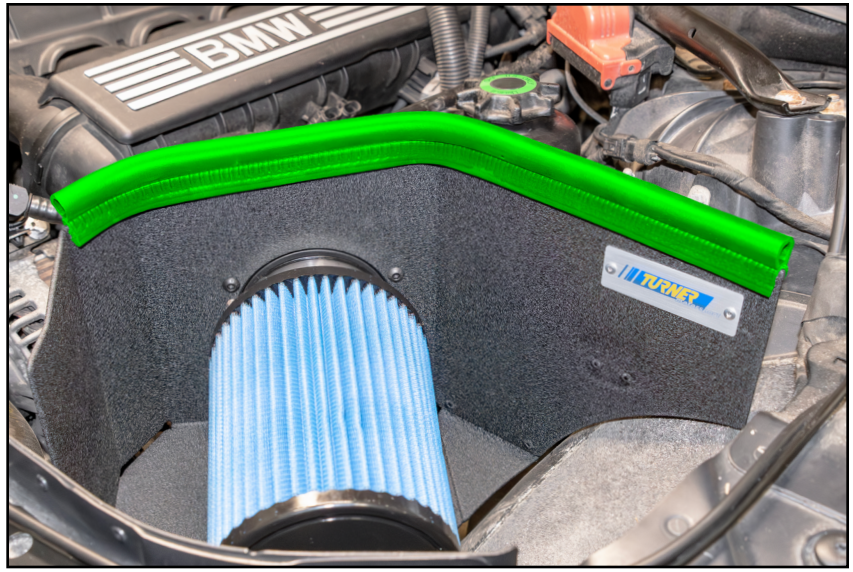
Slide the provided air filter onto the MAF housing and tighten the clamp (arrow in **Photo #1**) until snug. Reconnect the MAF sensor connector highlighted in **GREEN** in **Photo #2**).





Step 8:

Install the provided bulb seal (highlighted in **GREEN**) along the top of the heat shield as shown.



Congratulations, Your installation is complete!

Your Intake System installation is complete!



These instructions are provided as a courtesy by Turner Motorsport

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