



BMW E39 M54 Luft-Technik Intake System Installation Instructions - [Click HERE to Shop](#)



Skill Level
1 - Easy
Basic Skills
Required



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

ECS Tuning 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.

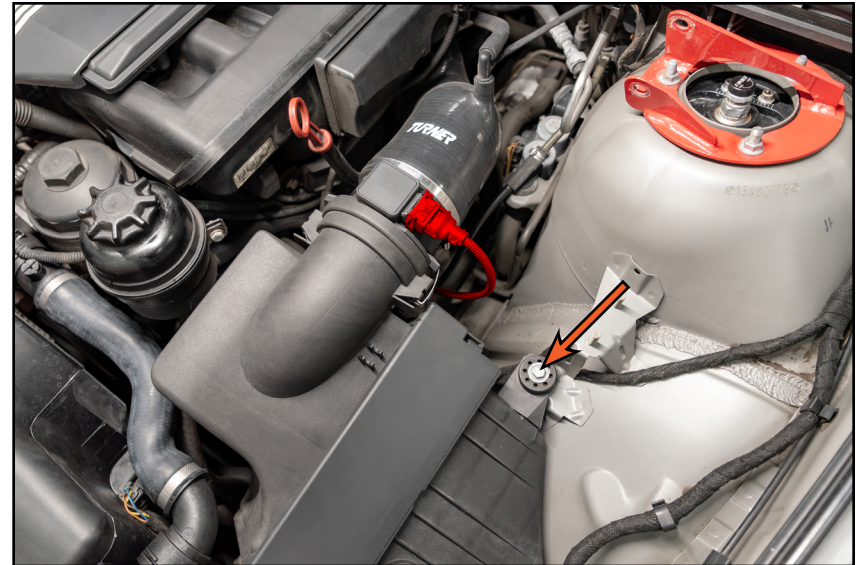


NEVER get underneath a vehicle that is supported only by a jack, and **ALWAYS** make sure that the vehicle is securely supported on jack stands.

REMOVING THE STOCK INTAKE SYSTEM

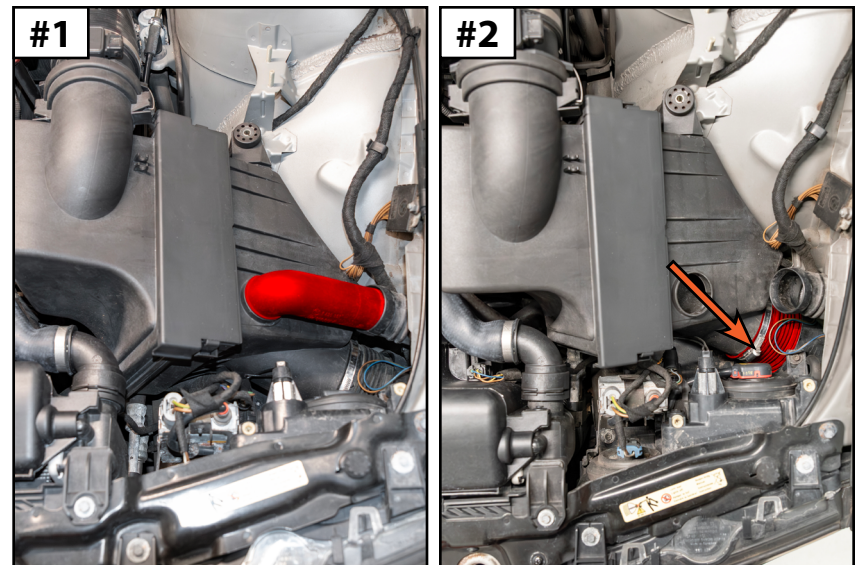
Step 1: 10mm Socket & Ratchet

Depress the retaining clip and disconnect the connector (highlighted in **RED**) from the MAF sensor. Remove the screw (arrow) that secures the airbox to the vehicle.



Step 2: 6mm Socket & Ratchet

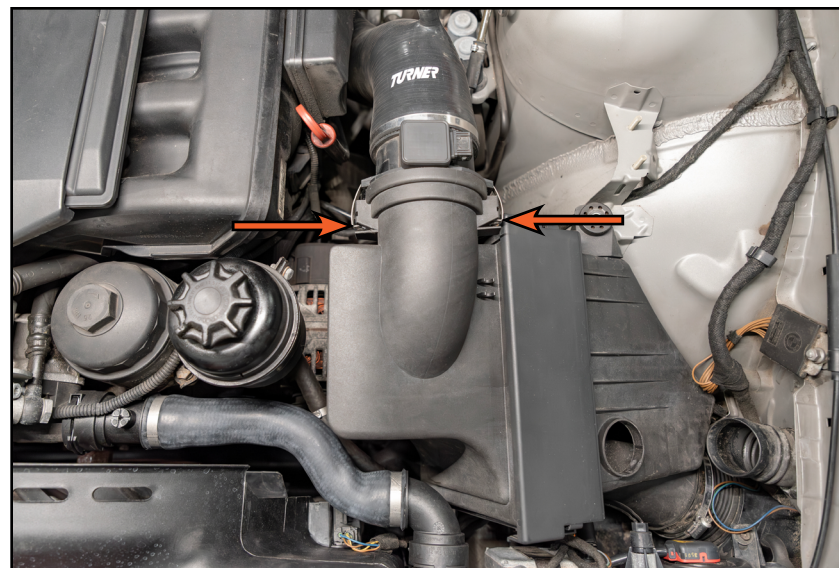
Pull up to remove the upper inlet duct (highlighted in **RED** in **photo #1**), then loosen the clamp (arrow) and disconnect the lower inlet duct (highlighted in **RED** in **Photo #2**) from the airbox.



REMOVING THE STOCK INTAKE SYSTEM

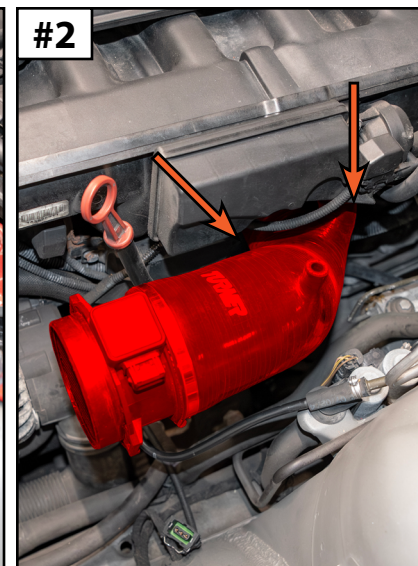
Step 3: Flat Head Screwdriver

Open both the latches (arrows) that secure the MAF sensor to the airbox, then lift up to remove the airbox from the vehicle.



Step 4: 6mm Socket & Ratchet

Pull the vacuum lines (highlighted in **RED** in **Photo #1**) from the intake hose, then loosen the two clamps (arrows) and remove the intake hose (highlighted in **RED** in **Photo #2**) from the throttle body.



REMOVING THE STOCK INTAKE SYSTEM

Step 5: 6mm Socket & Ratchet

Loosen the clamp (arrow) and pull the MAF sensor (highlighted in **RED**) free from the intake hose and set it aside.



Step 6:

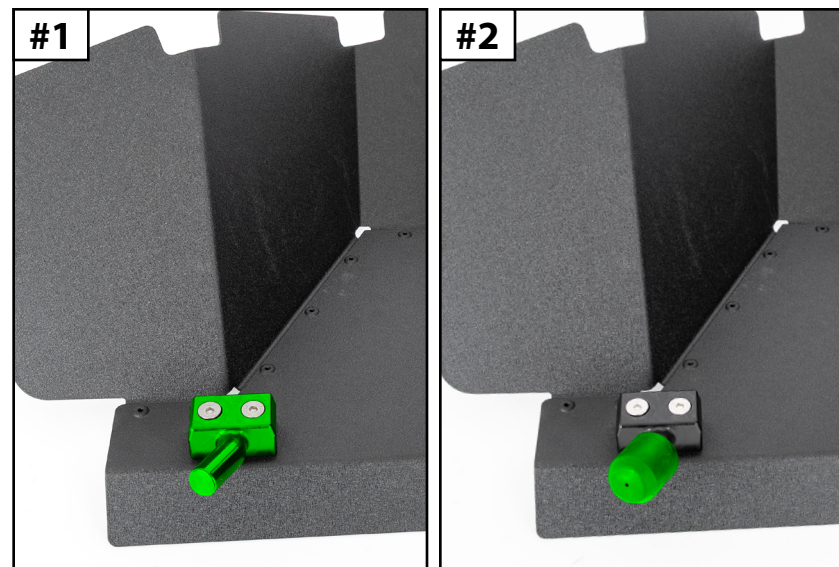
Pull the rubber bumper (highlighted in **RED**) free from the airbox and set it aside.



INSTALLING THE NEW INTAKE SYSTEM

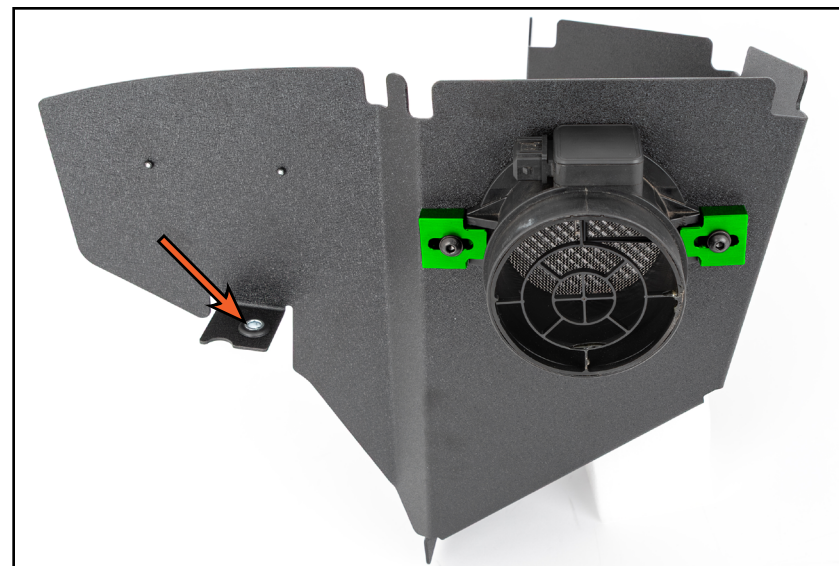
Step 1: 4mm Hex (Allen) Socket & Ratchet

Install the mounting post (highlighted in **GREEN** in **Photo #1**) onto the heat shield and secure it in place with the provided M6 x 30mm screws, then slide the OE rubber bumper (highlighted in **GREEN** in **Photo #2**) onto the post.



Step 2: 4mm Hex (Allen) Socket & Ratchet

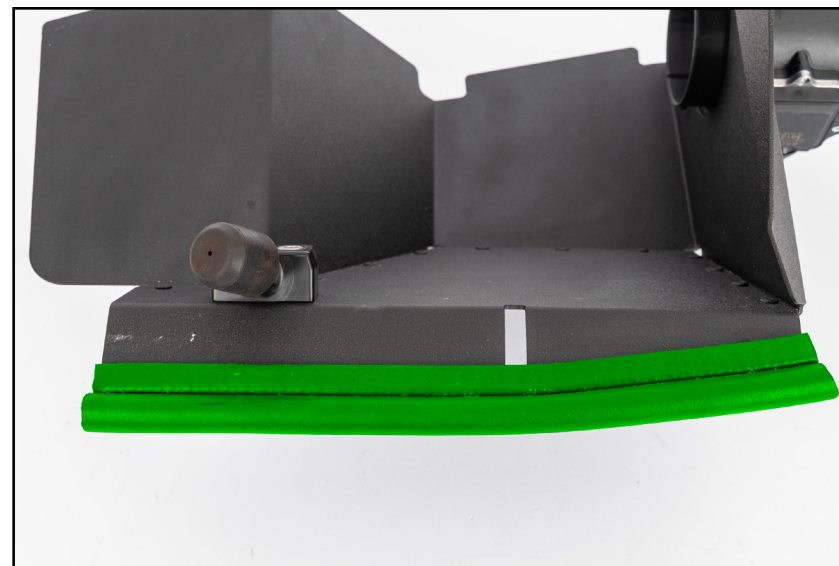
Slide the MAF sensor into the heat shield as shown, securing it into place with the provided clamping blocks (highlighted in **GREEN**) and M6 x 25mm screws. Install the provided grommet and spacer (arrow) into the mounting tab on the heat shield.



INSTALLING THE NEW INTAKE SYSTEM

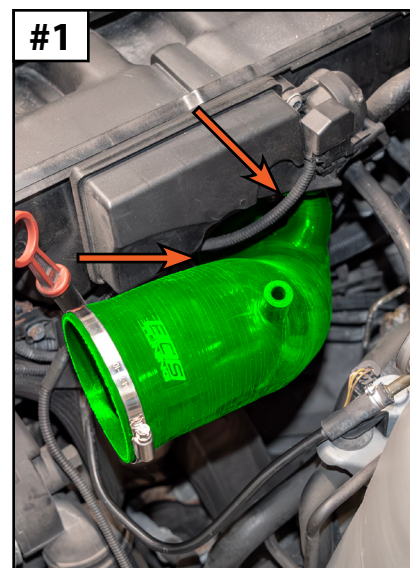
Step 3: Cutters

Install the provided bulb seal (highlighted in **GREEN**) along the bottom of the heat shield as shown, trimming to length as needed.



Step 4: 7mm Socket & Ratchet

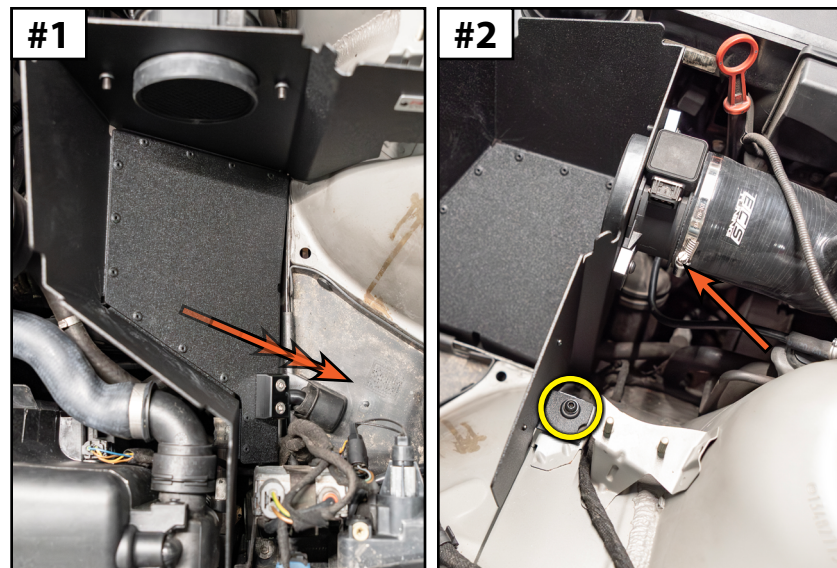
Slide the new intake hose (highlighted in **GREEN** in **Photo #1**) onto the throttle body, ensuring both ports are fully seated before tightening the clamps (arrows) until snug. Install the vacuum lines (highlighted in **GREEN** in **Photo #2**) into the port on the top of the new intake hose.



INSTALLING THE NEW INTAKE SYSTEM

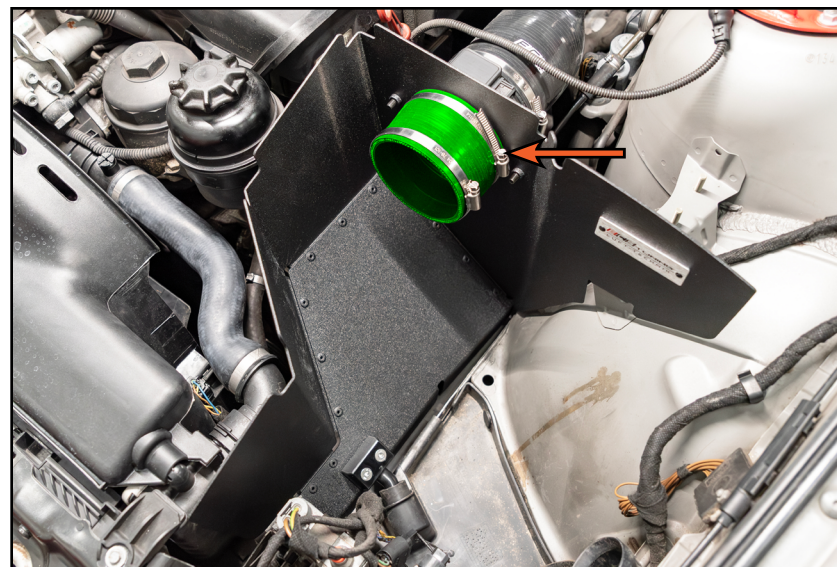
Step 5: 4mm Hex (Allen), 7mm Socket & Ratchet

Install the new heat shield, ensuring the rubber bumper engages the mounting socket on the vehicle (as shown in **Photo #1**), then install the provided M6 x 16mm screw (circled in **YELLOW** in **Photo #2**) to secure the heat shield to the vehicle. Slide the intake hose onto the MAF sensor then tighten the clamp (arrow) until snug.



Step 6: 7mm Socket & Ratchet

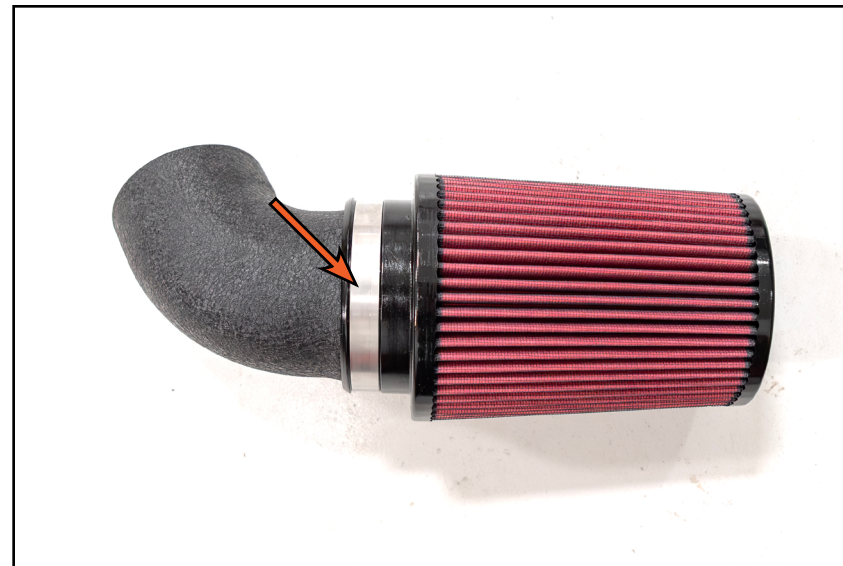
Slide the silicone adapter (highlighted in **GREEN**) onto the MAF sensor and tighten the clamp (arrow) until snug.



INSTALLING THE NEW INTAKE SYSTEM

Step 7: 8mm Socket & Ratchet

Slide the air filter onto the air filter tube and tighten the clamp (arrow) until snug.



Step 8: 7mm Socket & Ratchet

Slide the air filter tube into the MAF sensor adapter, adjust the angle of the tube to achieve proper fitment, then tighten the clamp (arrow) until snug.



INSTALLING THE NEW INTAKE SYSTEM

Step 9:

Reconnect the MAF sensor connector (highlighted in **GREEN**).



Step 10: Cutters

Install the provided bulb seal (highlighted in **GREEN**) along the top of the heat shield as shown, trimming to length as needed.



Congratulations, Your installation is complete!

Your Intake System installation is complete!



These instructions are provided as a courtesy by ECS Tuning

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