



BMW E46 M3 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

Step 1:

Disconnect the connectors (highlighted in **RED**) from the LH (driver's) side headlight ballast.



Step 2:

Lift the plastic cover (arrow) off the ballast.



REMOVING THE STOCK INTAKE

Step 3: 10mm Socket & Ratchet

Remove the three fasteners (circled in **RED**) which secure the ballast and airbox in place. Carefully move the ballast out of the way.



Step 4:

Disconnect the connector (highlighted in **RED**) from the MAF sensor.



REMOVING THE STOCK INTAKE

Step 5:

Remove the intake tube (highlighted in **RED**) from between the inlet duct and the airbox.



Step 6: 6mm Socket & Ratchet

Loosen the clamp (arrow) and lift up to pop the airbox free from its mounting grommets. Remove the airbox from the vehicle.



REMOVING THE STOCK INTAKE

Step 7: 6mm Socket & Ratchet

Loosen the clamp (arrow) and pull the intake hose free from the intake manifold.



Step 8:

Remove the stock airbox mount (highlighted in **RED**) from the frame rail.



INSTALLING THE NEW INTAKE SYSTEM

Step 1: 6mm Hex (Allen)

Install the provided standoffs (highlighted in **GREEN**) onto the studs on the frame rail.



Step 2: 7mm Socket & Ratchet

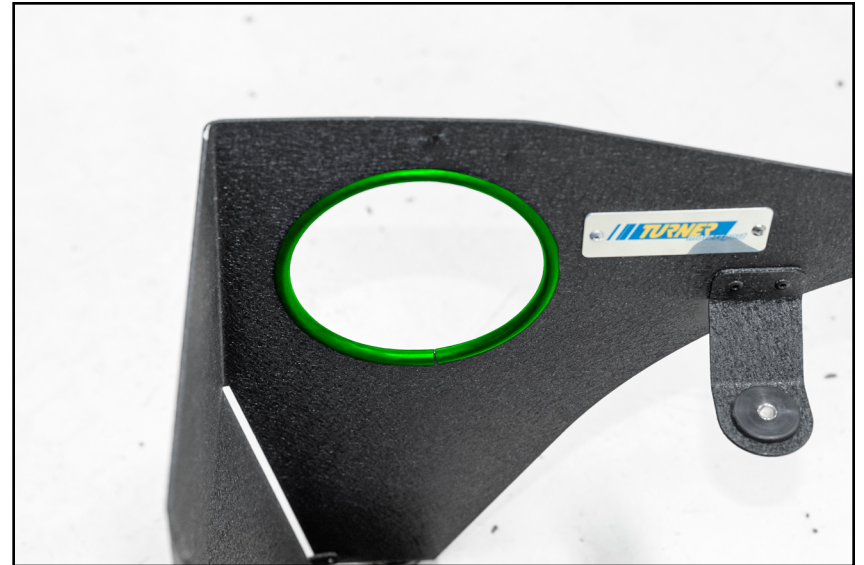
Install the new intake hose onto the intake manifold, rotate it to ensure proper clearance for the strut bar and strut tower, then tighten the clamp (arrow) until snug.



INSTALLING THE NEW INTAKE SYSTEM

Step 3:

Install the provided rubber edge trim (highlighted in **GREEN**) onto the large opening in the heat shield, trimming as needed.



Step 4: T20 Torx

Remove the MAF sensor from the stock airbox and transfer it to the new intake pipe using the provided hardware as shown.



INSTALLING THE NEW INTAKE SYSTEM

Step 5:

Route the intake pipe through the opening in the heat shield as shown.



Step 6: 10mm Socket & Ratchet

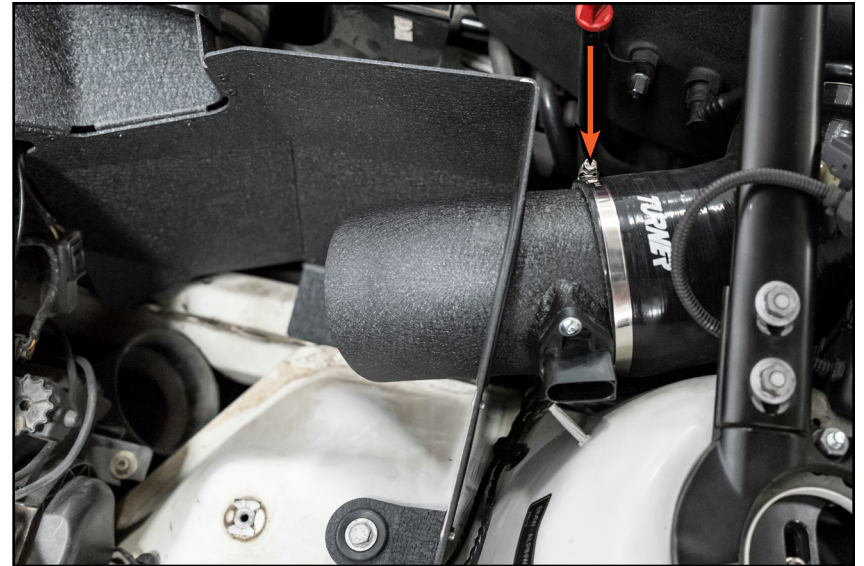
Install the heat shield and intake pipe as shown, push down to pop the mounting grommets onto the standoffs, then reinstall the bolt (circled in **YELLOW**) to secure the heat shield in place.



INSTALLING THE NEW INTAKE SYSTEM

Step 7: 7mm Socket & Ratchet

Slide the intake pipe into the silicone hose as shown, then tighten the clamp (arrow) until snug.



Step 8:

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



INSTALLING THE NEW INTAKE SYSTEM

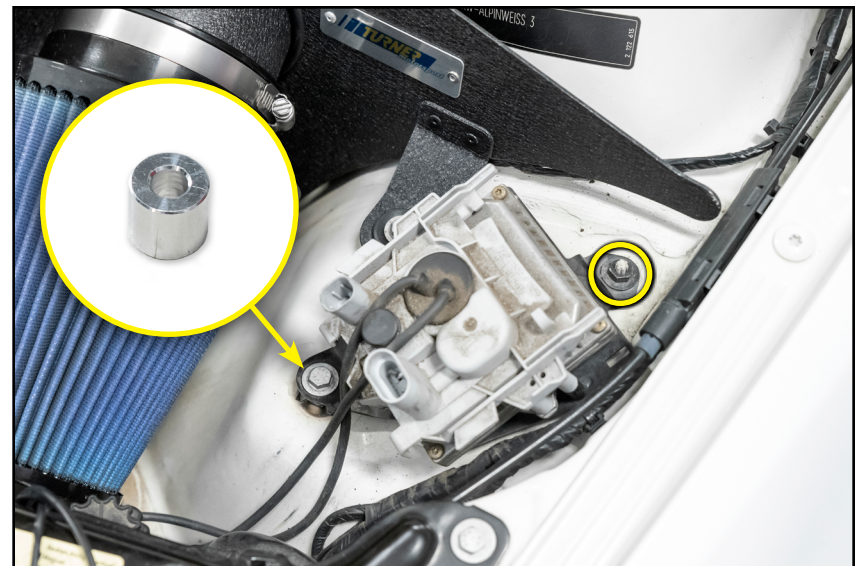
Step 9:

Slide the air filter onto the end of the intake pipe then tighten the clamp (arrow) until snug.



Step 10: 10mm Socket & Ratchet

Lay the ballast back into place and reinstall the nut (circled in **YELLOW**) to secure it in place. Slide the spacer (inset photo) between the body and the ballast, then reinstall the last remaining bolt to secure it in place.



INSTALLING THE NEW INTAKE SYSTEM

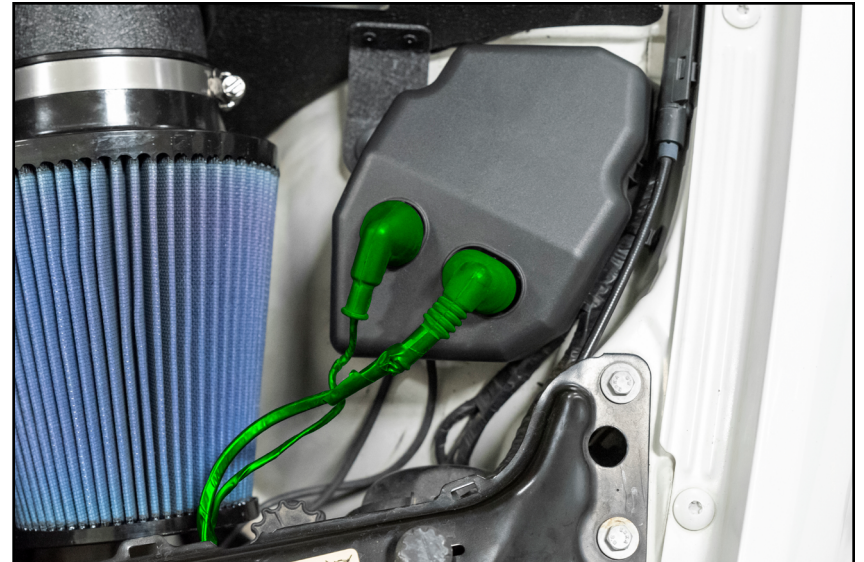
Step 11:

Reinstall the plastic ballast cover (arrow). Apply the provided bulb seal across the area highlighted in **YELLOW**, trimming as necessary.



Step 12:

Reconnect the connectors (highlighted in **GREEN**) to the headlight ballast.



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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