BMW Z3 M44 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.

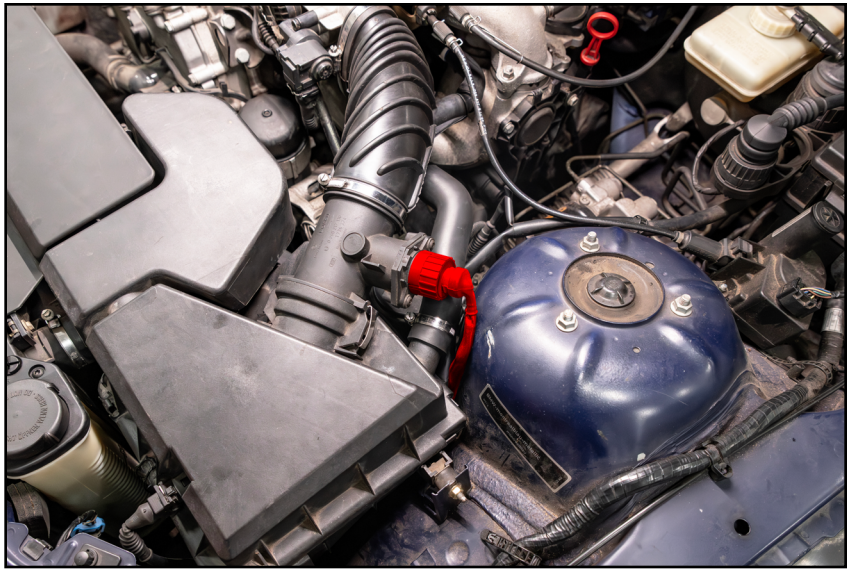


NEVER get underneath a vehicle that is supported only by a jack, and ALWAYS make sure that the vehicle is securely supported on jack stands.

REMOVING THE STOCK INTAKE SYSTEM

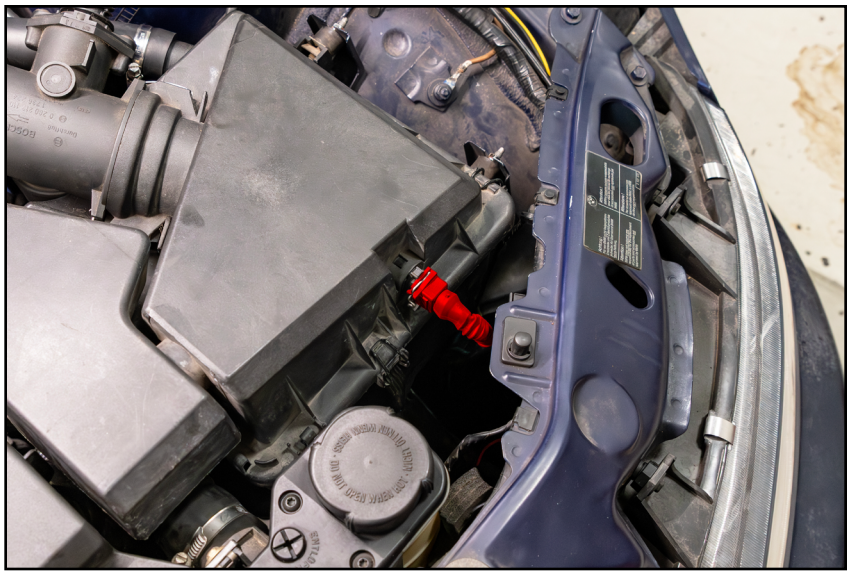
Step 1:

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



Step 2:

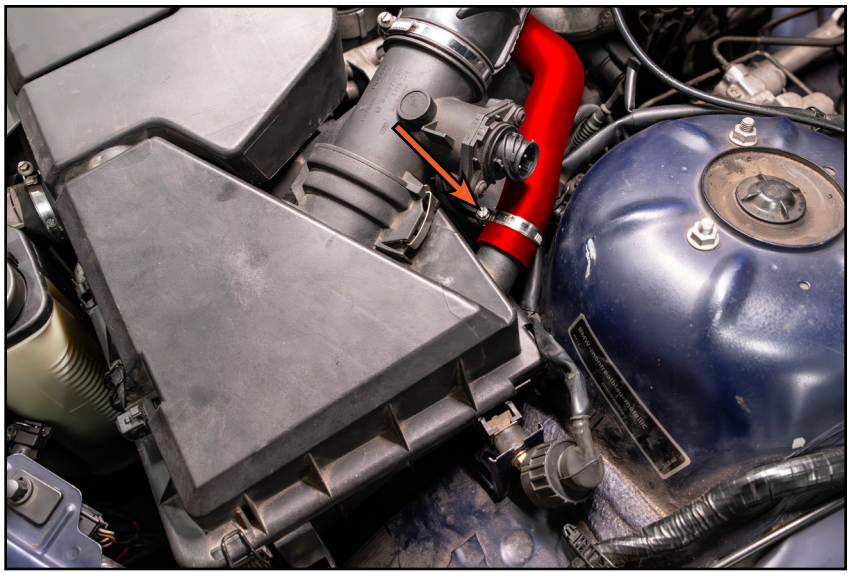
Depress the retaining clip and disconnect the IAT sensor connector (highlighted in **RED**).



REMOVING THE STOCK INTAKE SYSTEM

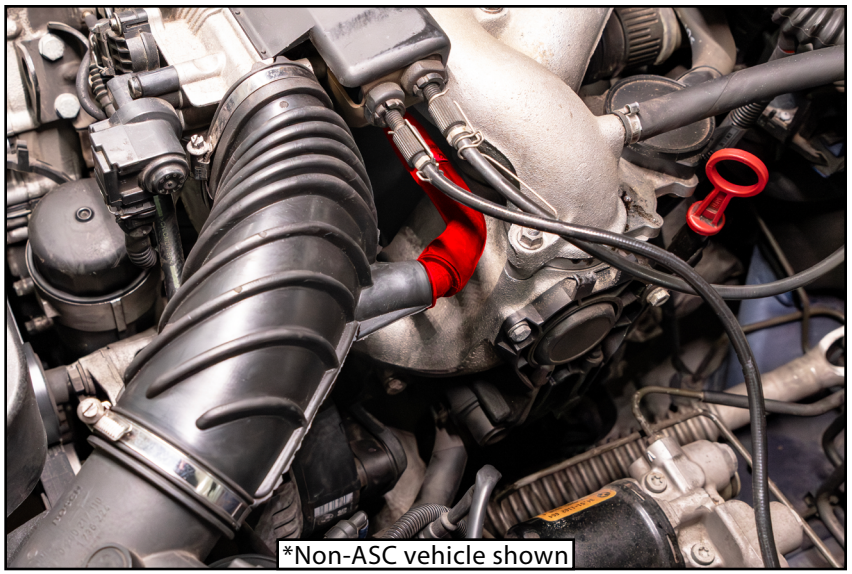
Step 3: 6mm Socket & Ratchet

If equipped, loosen the clamp (arrow), disconnect the SAI hose (highlighted in **RED**) from the airbox and remove the hose from the vehicle.



Step 4:

Pull the idle control valve hose (highlighted in **RED**) free from the intake hose.



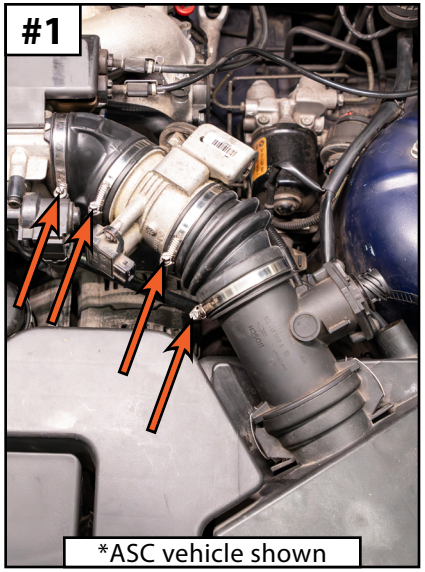
*Non-ASC vehicle shown

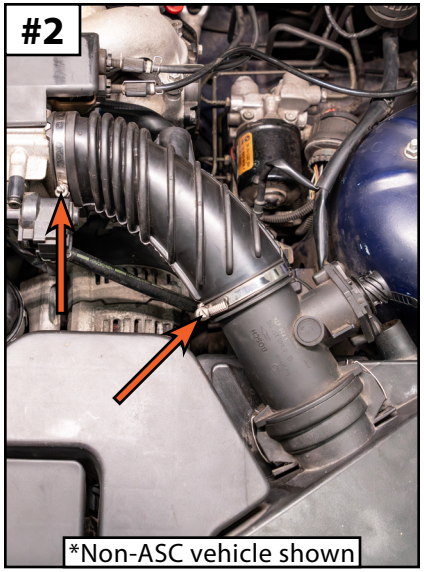
REMOVING THE STOCK INTAKE SYSTEM

Step 5: 6mm Socket & Ratchet

Vehicles with ASC ONLY: Disconnect the connector and cable from the ASC throttle body, loosen the clamps (arrows in **Photo #1**) and remove the intake hoses and ASC throttle body.

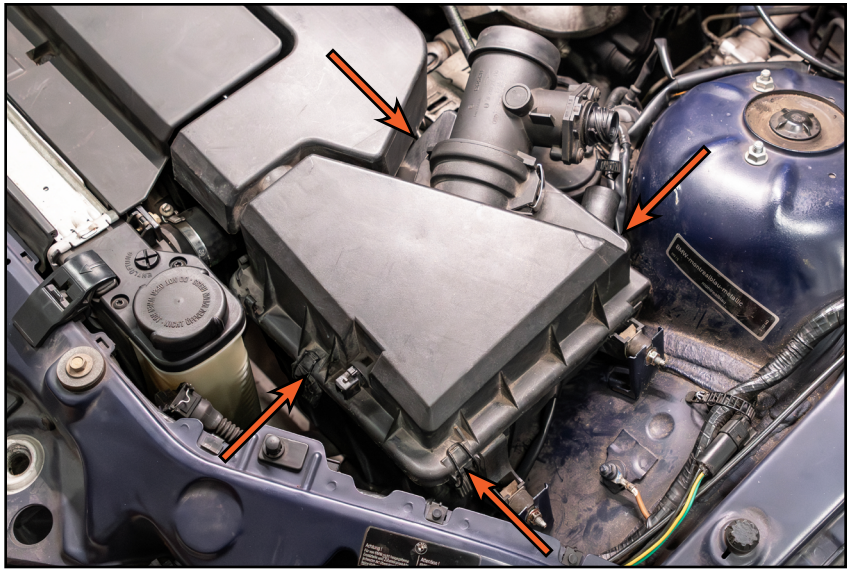
Vehicles without ASC: Loosen the clamps (arrows in **Photo #2**) and remove the intake hose.





Step 6:

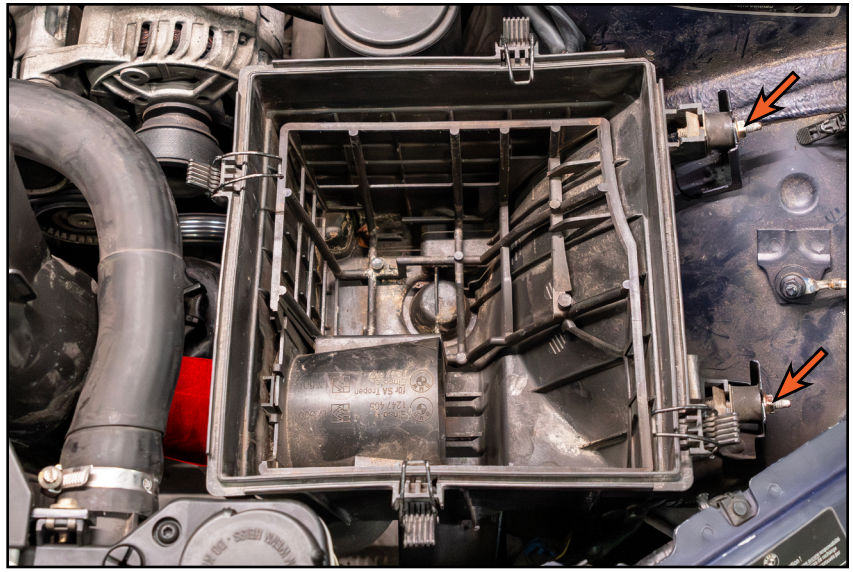
Open the latches (arrows) and remove the lid the airbox.



REMOVING THE STOCK INTAKE SYSTEM

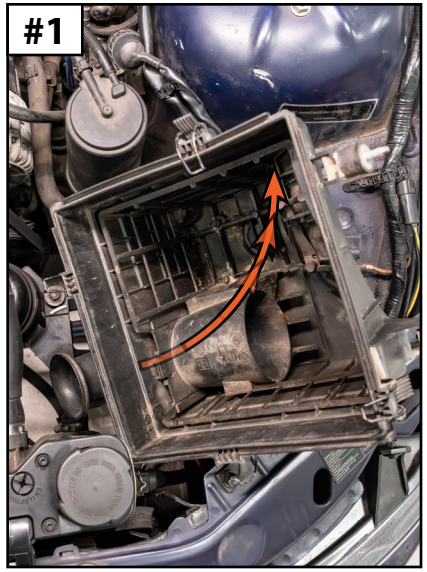
Step 7: 10mm Socket & Ratchet

Loosen the two nuts (arrows) that secure the airbox to the vehicle, then disconnect the inlet tube (highlighted in **RED**) from the inlet duct.



Step 8:

Lift the airbox upward (as shown in **Photo #1**) and guide it free from the engine. Remove the rubber bumper (circled in **RED** in **Photo #2**) from the stud on the frame rail.

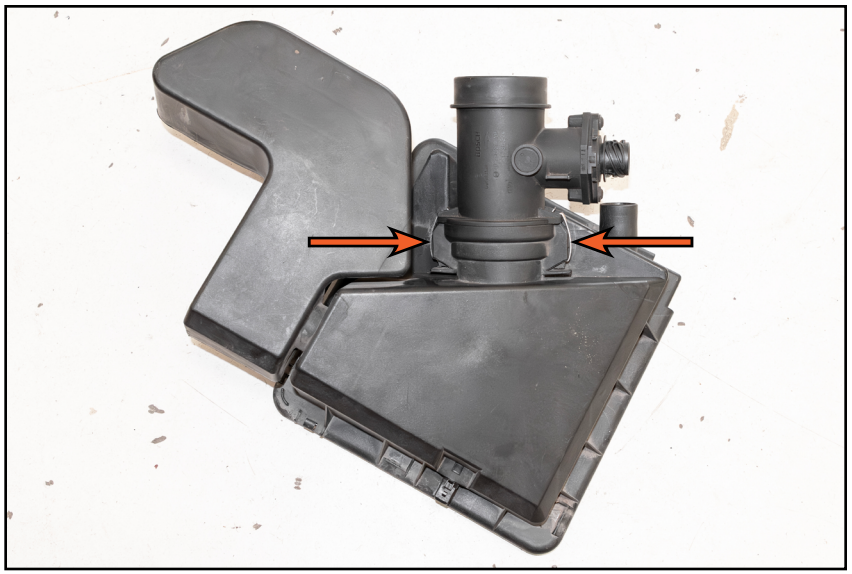




REMOVING THE STOCK INTAKE SYSTEM

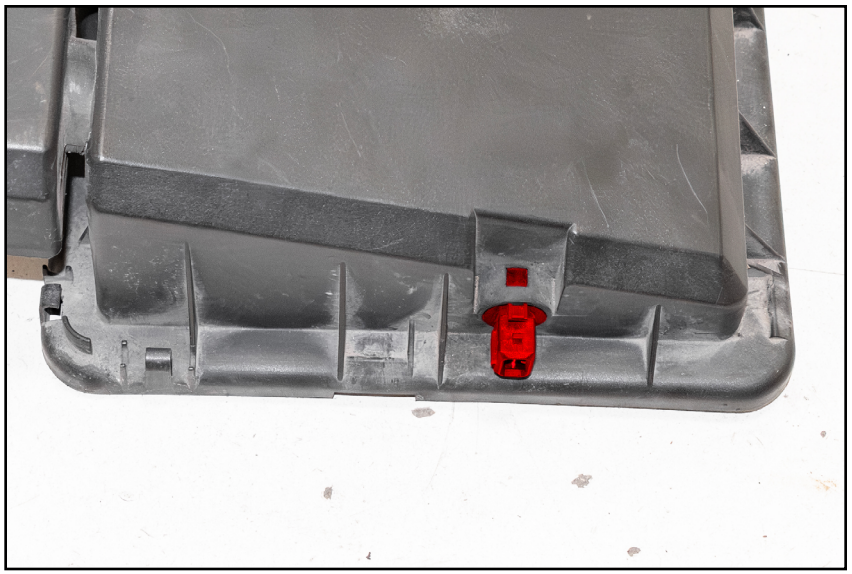
Step 9:

Open the latches (arrows) and pull the MAF sensor free from the airbox lid.



Step 10: Angled Pick

Depress the retaining tab and pull the IAT sensor (highlighted in **RED**) free from the airbox lid.

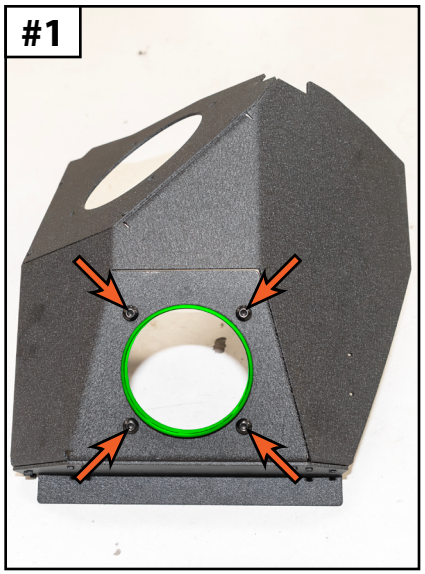


INSTALLING THE NEW INTAKE SYSTEM

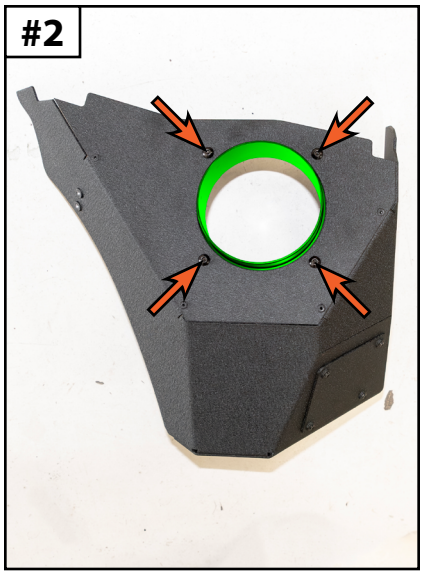
Step 1: 3mm Hex (Allen) Socket & Ratchet

Install the provided inlet duct flange (highlighted in **GREEN** in **Photo #1**) into the opening in the bottom of the heat shield and secure it in place with the provided M5 x 8mm screws (arrows). Install the provided air filter adapter (highlighted in **GREEN** in **Photo #2**) into the opening in the top of the heat shield and secure it in place with the provided M5 x 8mm screws (arrows).

#1



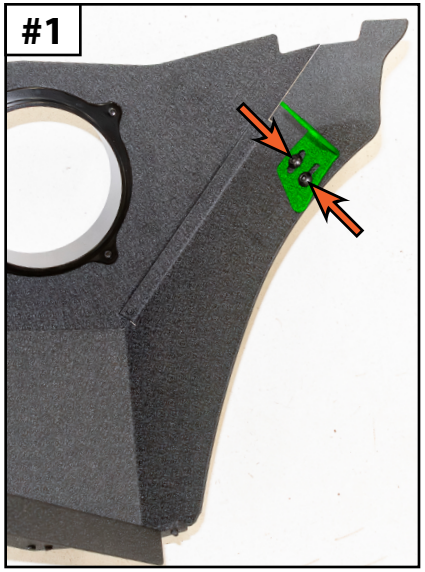
#2



Step 2: 3mm Hex (Allen) Socket & Ratchet

Install the mounting bracket (highlighted in **GREEN** in **Photo #1**) onto the heat shield as shown and loosely secure it in place with the provided M5 x 8mm screws (arrows). Secure the IAT sensor (highlighted in **GREEN** in **Photo #2**) to the holes in the heat shield using the provided cable tie.

#1



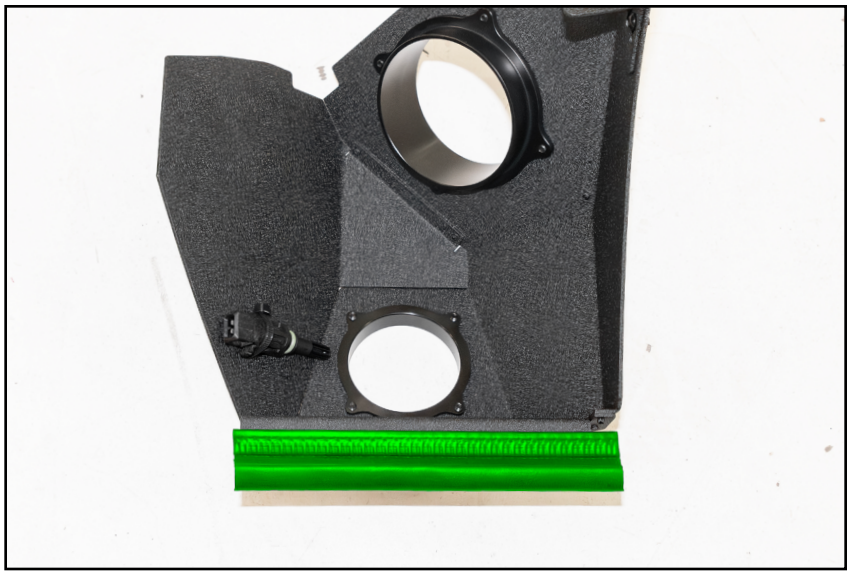
#2



INSTALLING THE NEW INTAKE SYSTEM

Step 3:

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



Step 4: 7mm Socket & Ratchet

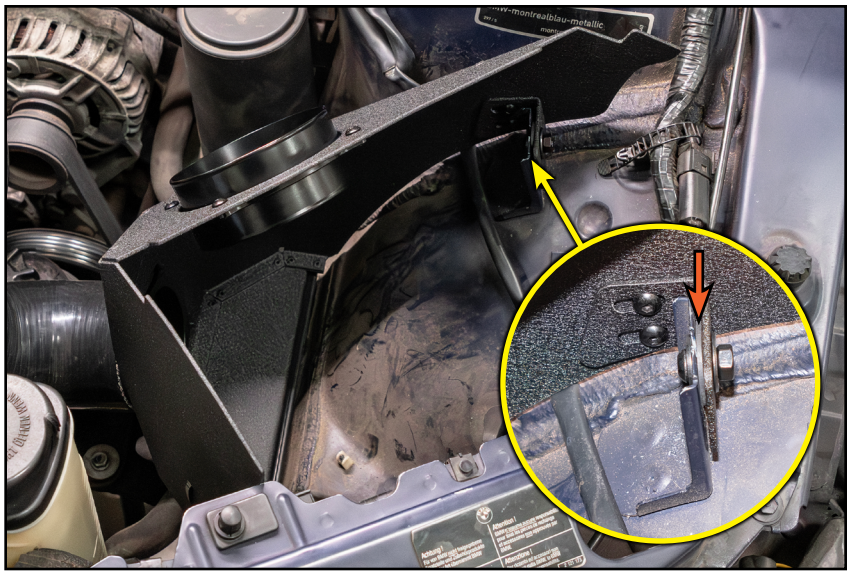
Install the provided inlet duct hose onto the inlet duct and tighten the clamp (arrow) to secure it in place.



INSTALLING THE NEW INTAKE SYSTEM

Step 5: 4mm Hex (Allen), 10mm Socket & Ratchet

Carefully guide the heat shield into place, then secure it to the mounting tab on the strut tower with the provided M6 screw, washers, and nut, sandwiching the provided rubber washer (arrow in inset photo) between the bracket and mounting tab.



Step 6:

Vehicles with ASC only: Install the throttle body hose, ASC throttle body, and intake coupler as shown and tighten then the throttle body hose clamps (arrows in **Photo #1**) until snug, leaving the other two clamps loose to allow for adjustment. Reconnect the ASC cable and connector (not shown).

Vehicle without ASC: Install the intake hose and tighten the clamp (arrow in **Photo #2**) until snug.



*ASC vehicle shown

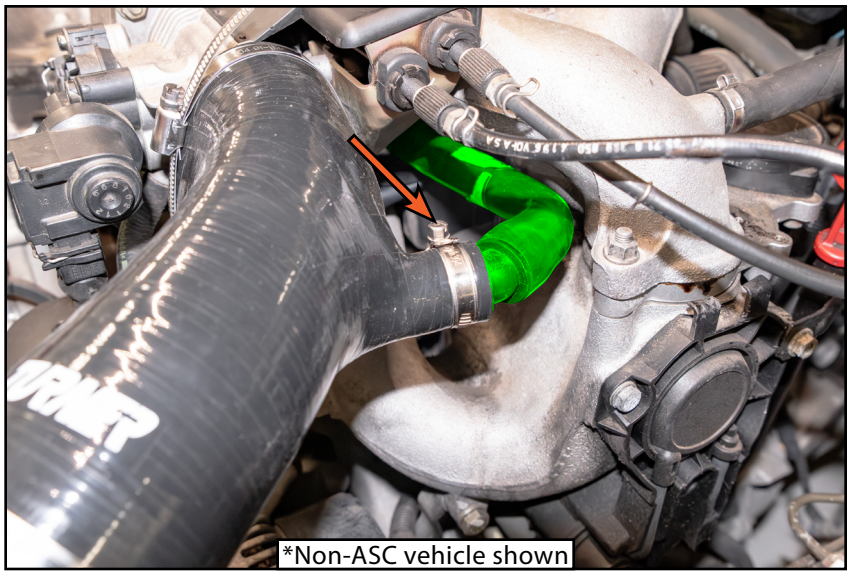


*Non-ASC vehicle shown

INSTALLING THE NEW INTAKE SYSTEM

Step 7: 7mm Socket & Ratchet

Connect the idle control valve hose (highlighted in **GREEN**) to the intake hose and tighten the clamp (arrow) until snug.



Step 8:

Slide the MAF sensor into the intake hose as shown.



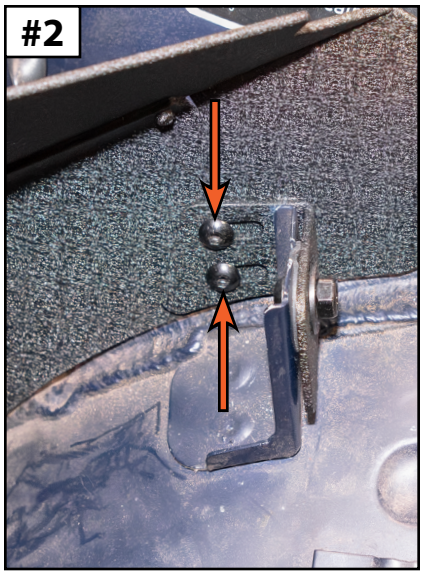
INSTALLING THE NEW INTAKE SYSTEM

Step 9: 7mm Socket & Ratchet

Install the provided intake coupler between the MAF sensor and air filter adapter and tighten all the clamps (arrows in **Photo #1**) until snug. Tighten the bracket screws (arrows in **Photo #2**) until snug.

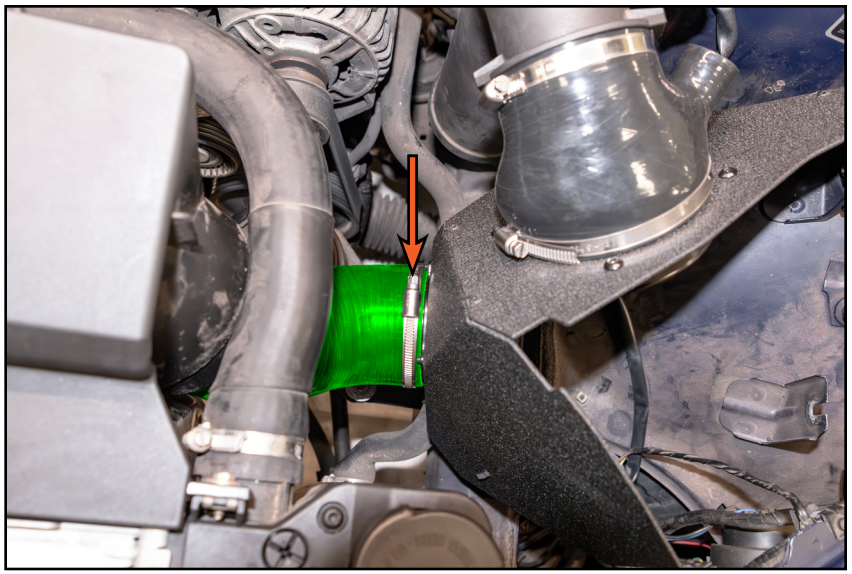


*ASC vehicle shown



Step 10: 7mm Socket & Ratchet

Connect the inlet duct hose (highlighted in **GREEN**) to the flange on the airbox and tighten the clamp (arrow) until snug.

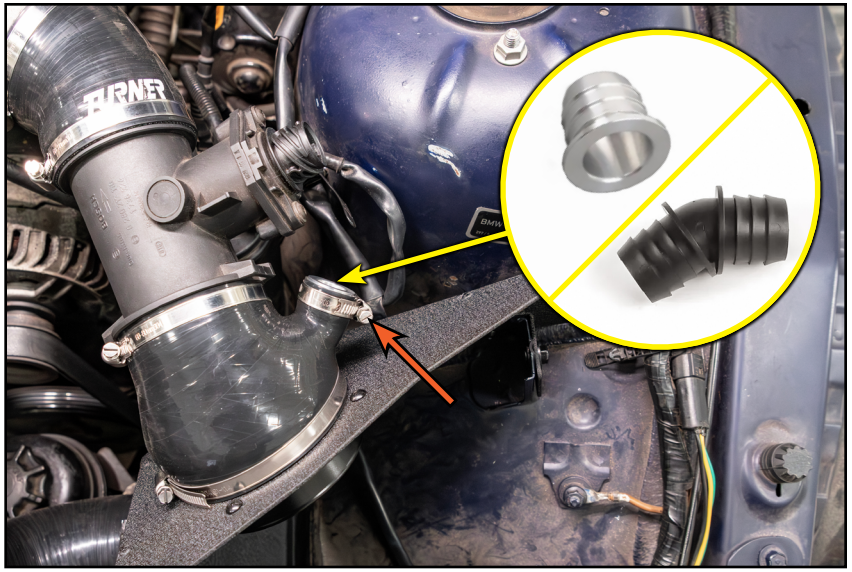


INSTALLING THE NEW INTAKE SYSTEM

Step 11: 7mm Socket & Ratchet

Install the provided block-off plug or SAI fitting (inset photo), and tighten the clamp (arrow) until snug.

If equipped, install the provided silicone SAI hose onto the SAI pump and connect it to the fitting (not shown).



Step 12:

Reconnect the IAT and MAF sensor connectors (highlighted in **GREEN** in **Photos #1 & #2**).





INSTALLING THE NEW INTAKE SYSTEM

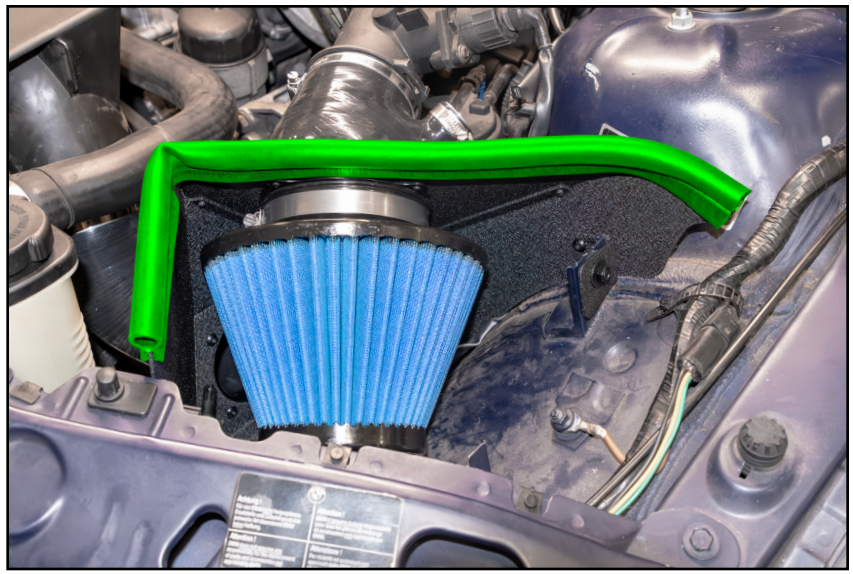
Step 13: 8mm Socket & Ratchet

Slide the air filter onto the end of the air filter adapter and tighten the clamp (arrow) until fully snug.



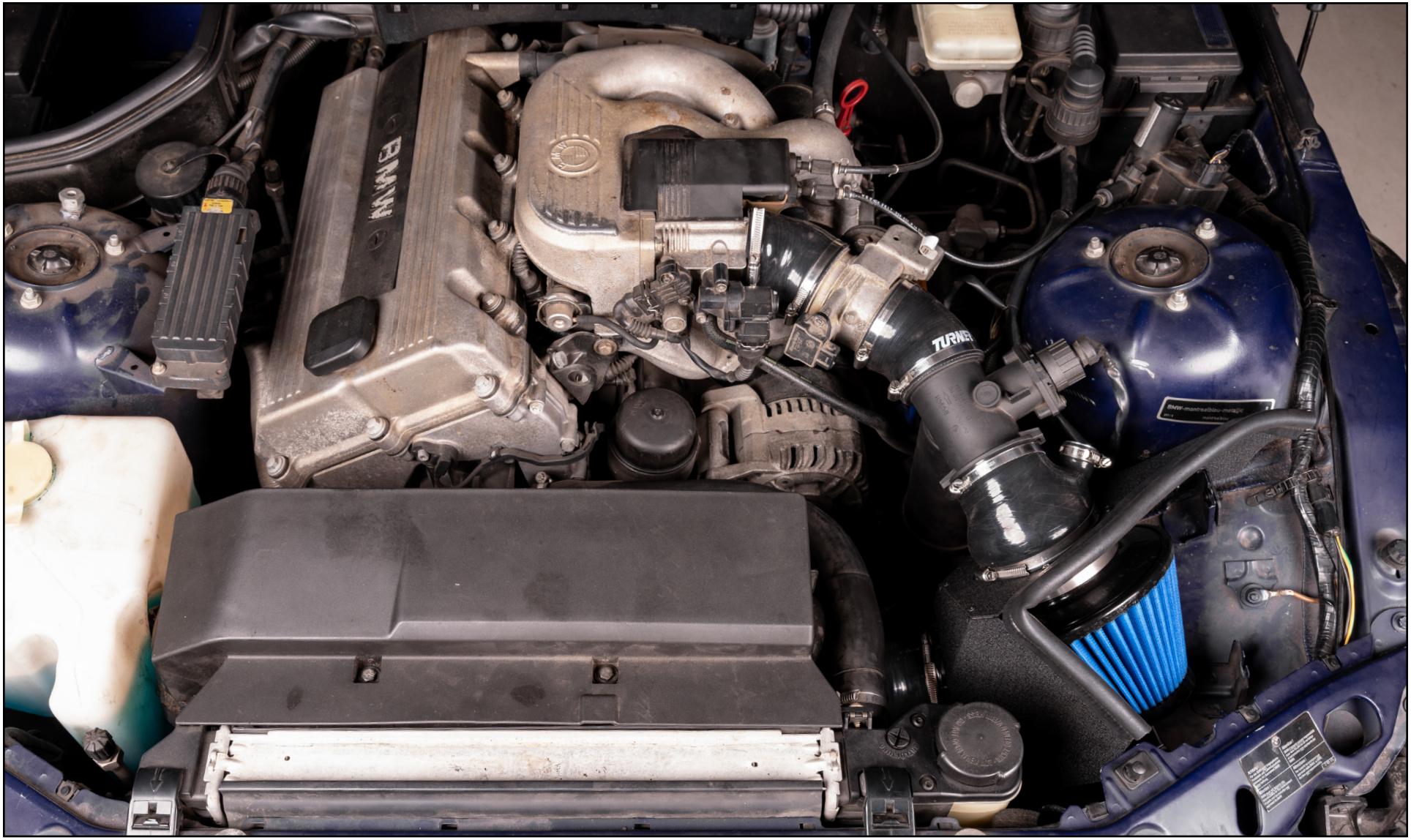
Step 14: Cutting Pliers

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 Turner Motorsport

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