



## BMW F8x S55 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.



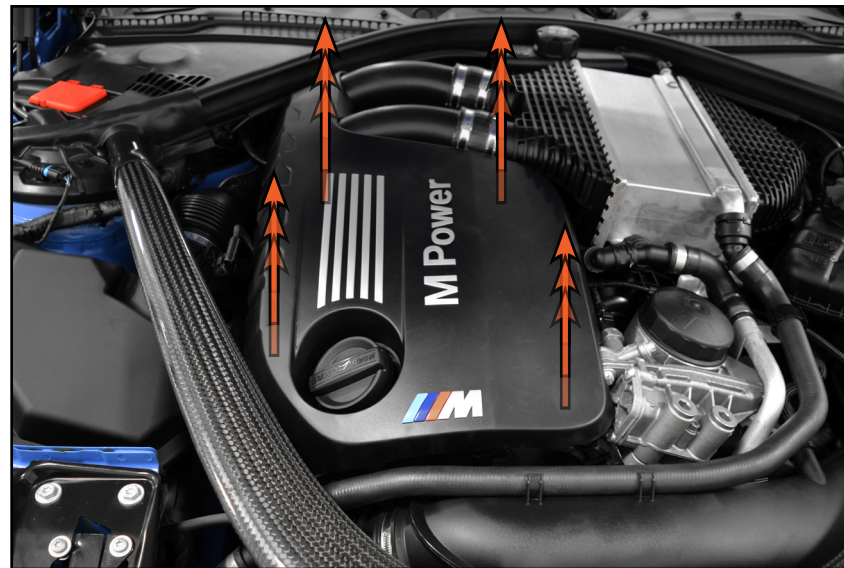
**NEVER** get underneath a vehicle that is supported only by a jack, and **ALWAYS** make sure that the vehicle is securely supported on jack stands.



## REMOVING THE STOCK INTAKE SYSTEM

### Step 1:

Lift up to pop the engine cover free from the mounting posts.



### Step 2: Trim Removal Tool, 10mm Socket & Ratchet

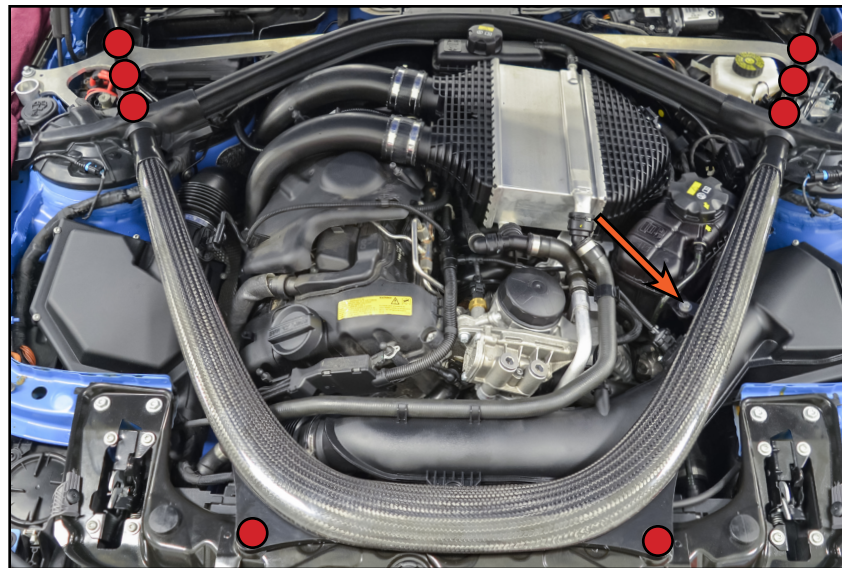
Remove the push rivet (arrow), loosen the nuts (highlighted in **RED**) 90 degrees to unlock them, then remove each rain tray from the vehicle.



## REMOVING THE STOCK INTAKE SYSTEM

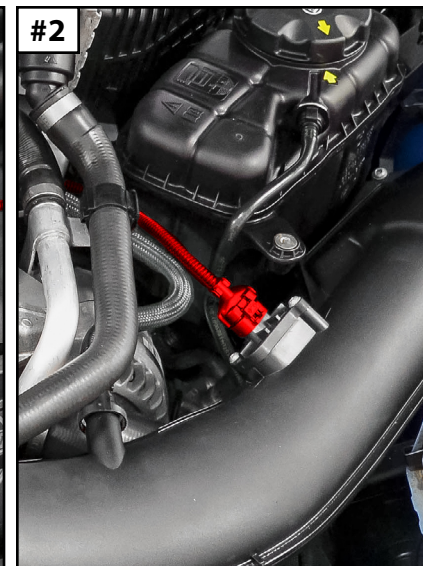
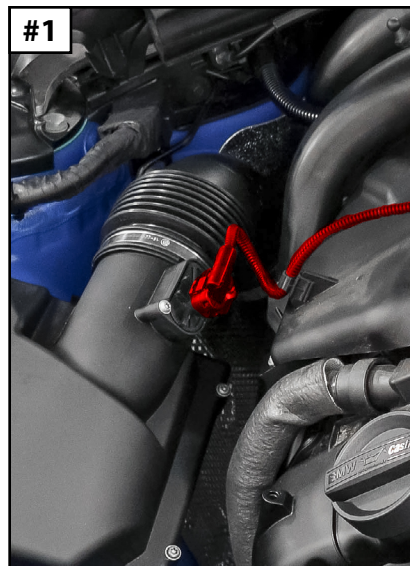
### Step 3: 13mm Socket & Ratchet

Remove the eight screws (**RED** circles) and pull the carbon brace free from the rubber weather strips and remove it from the vehicle.



### Step 4:

Disconnect the connectors (highlighted in **RED**) from the MAF sensors.

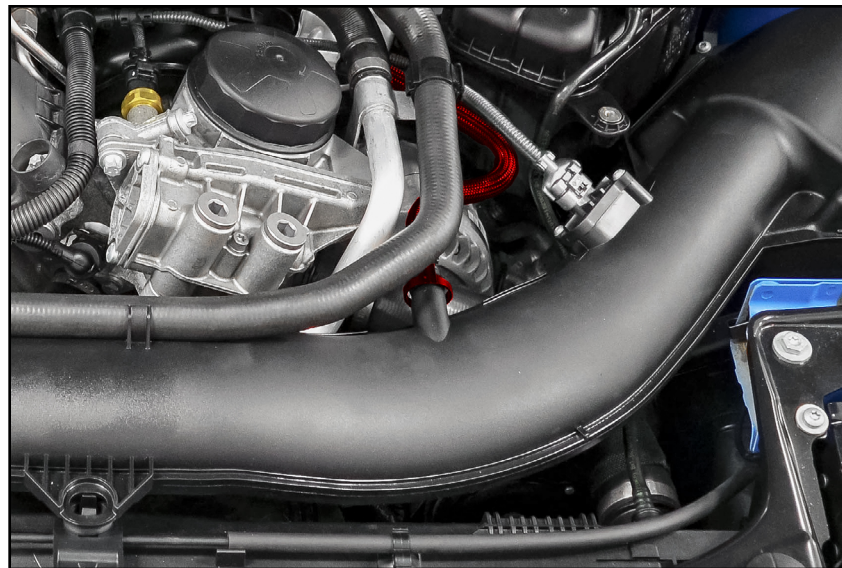




## REMOVING THE STOCK INTAKE SYSTEM

### Step 5:

Depress the retaining tabs and pull the vacuum line (highlighted in **RED**) off of the flange on the LH intake pipe.



### Step 6: 6mm Socket & Ratchet

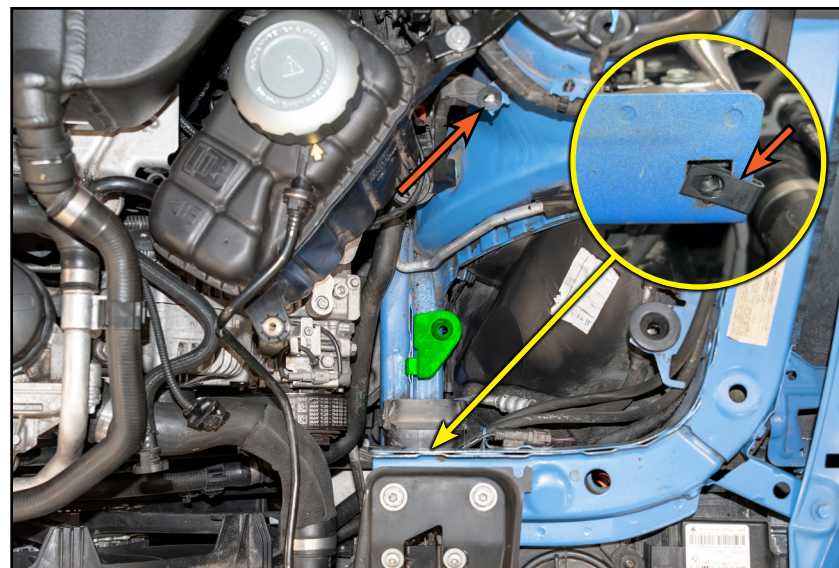
Loosen the hose clamps (arrows) then lift up on each air box (highlighted in **RED**) to pop them free from the mounting grommets and remove them from the vehicle.



## INSTALLING THE NEW INTAKE SYSTEM

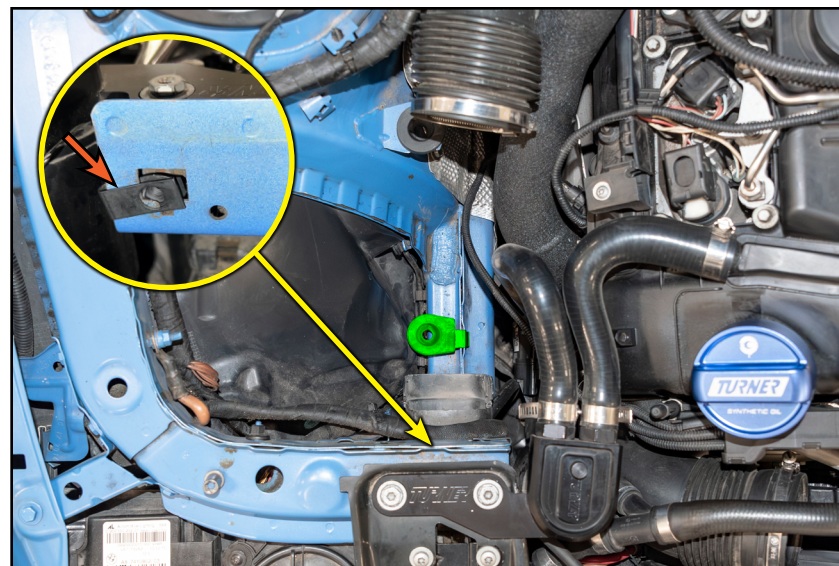
### Step 1:

Remove the rubber support bottom (highlighted in **GREEN**) from the LH air box and reinstall it on the LH frame rail as shown. Loosen and discard the screw (arrow) and replace the plastic expanding nut with the replacement provided in the kit. Install the provided clip nut (arrow in inset photo) over the notch in the body of the vehicle as shown.



### Step 2:

Remove the rubber support bottom (highlighted in **GREEN**) from the RH air box and reinstall it on the RH frame rail as shown. Install the provided clip nut (arrow in inset photo) over the notch in the body of the vehicle as shown.





## INSTALLING THE NEW INTAKE SYSTEM

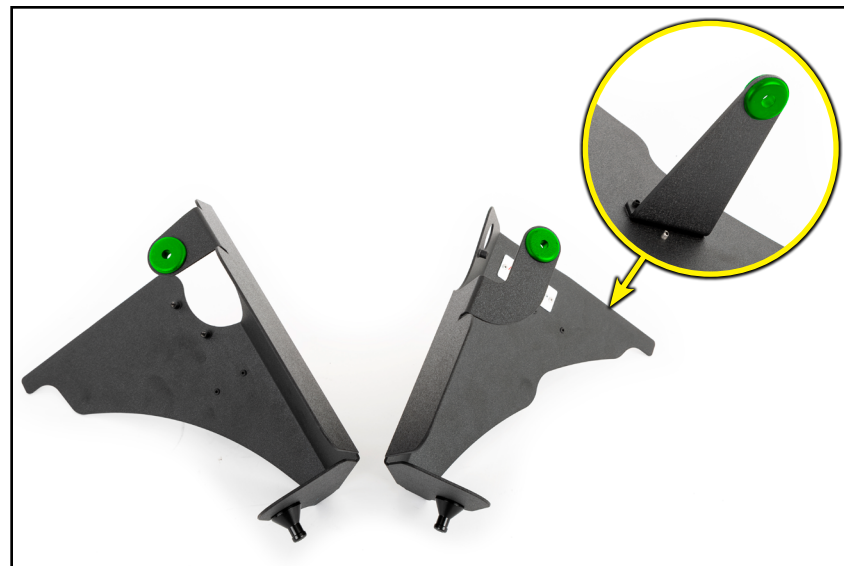
### Step 3: 4mm Hex (Allen), 5mm Hex (Allen) Socket & Ratchet

Install the three standoffs (highlighted in **GREEN**) onto the bottom of the heat shield with the provided countersunk washers and M6 countersunk screws.



### Step 4:

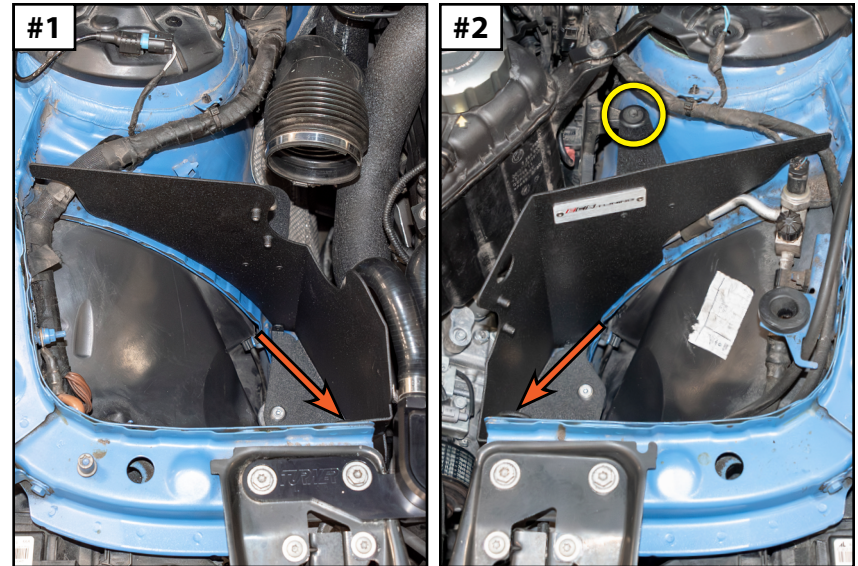
Install the provided 22mm grommets (highlighted in **GREEN**) into the front mounting tabs on the heat shields, then install the 19mm grommet (highlighted in **GREEN** in inset photo) into the mounting tab on the back of the LH heat shield.



## INSTALLING THE NEW INTAKE SYSTEM

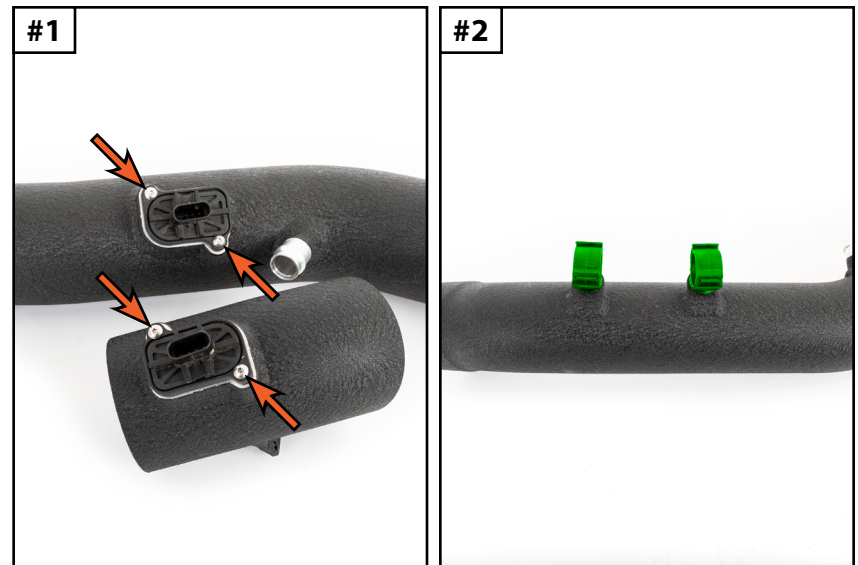
### Step 5: 8mm, 4mm Hex (Allen) Socket & Ratchet

Install the heat shields by aligning the standoffs with the grommets and support bottoms and pushing down to pop them into place. Install the provided self-tapping screw (circled in **YELLOW** in **Photo #2**) to secure the LH heat shield to the vehicle, then install the two M6 x 20mm screws (arrows) to secure the heat shields to the clip nuts.



### Step 6: 2.5mm Hex (Allen) Socket & Ratchet

Transfer MAF sensors from the stock airboxes to the new intake pipes, securing them in place with the provided M4 screws (arrows in **Photo #1**). Install the provided hose clips (highlighted in **GREEN** in **Photo #2**) into the tabs on the LH intake pipe.

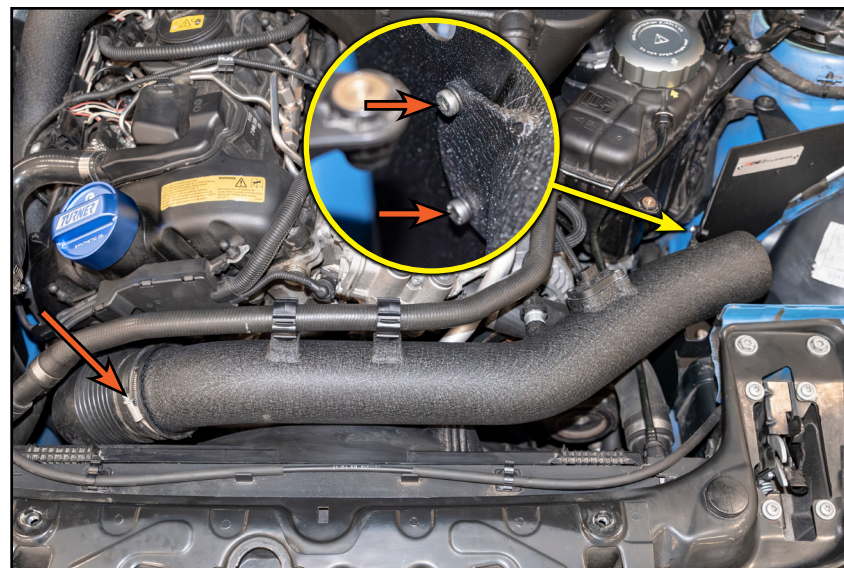




## INSTALLING THE NEW INTAKE SYSTEM

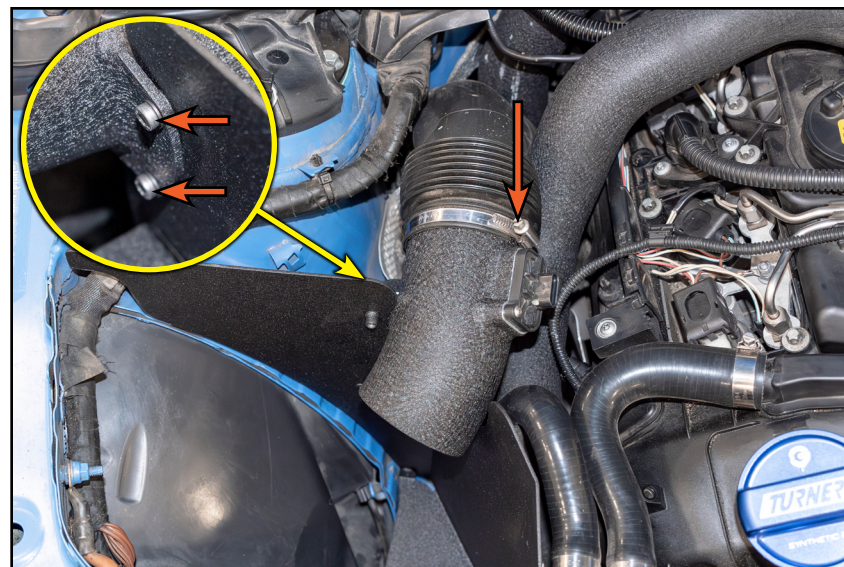
### Step 7: 6mm, 4mm Hex (Allen) Socket & Ratchet

Install the LH intake pipe into the turbo inlet, secure it to the heat shield with the provided M5 screws and washers (arrows in inset photo), then tighten the clamp (arrow) until snug. Install the coolant hose into the hose clips as shown.



### Step 8: 4mm Hex (Allen) Socket & Ratchet

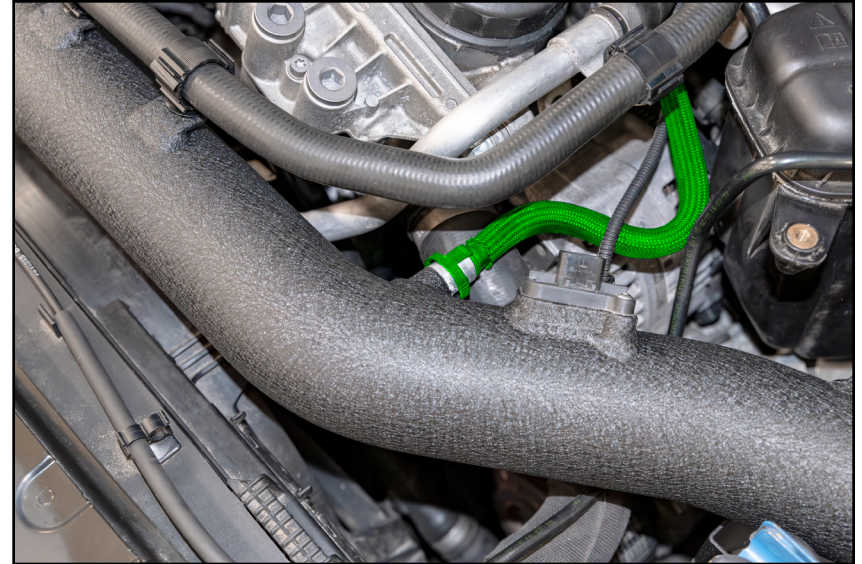
Install the RH intake pipe into the turbo inlet, secure it to the heat shield with the provided M5 screws and washers (arrows in inset photo), then tighten the clamp (arrow) until snug.



## INSTALLING THE NEW INTAKE SYSTEM

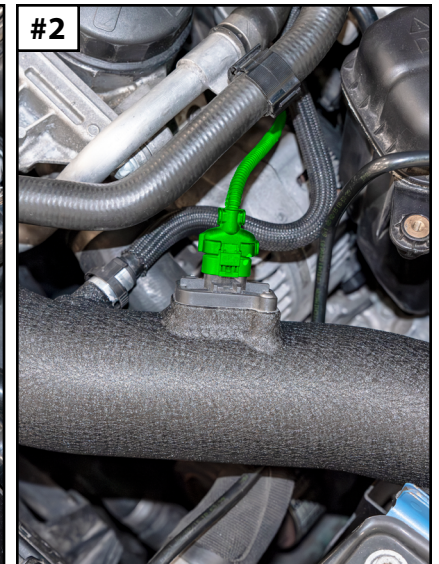
### Step 9:

Connect the vacuum line (highlighted in **GREEN**) to the flange on the LH intake pipe as shown.



### Step 10:

Reconnect the connectors (highlighted in **GREEN**) for the MAF sensors as shown.

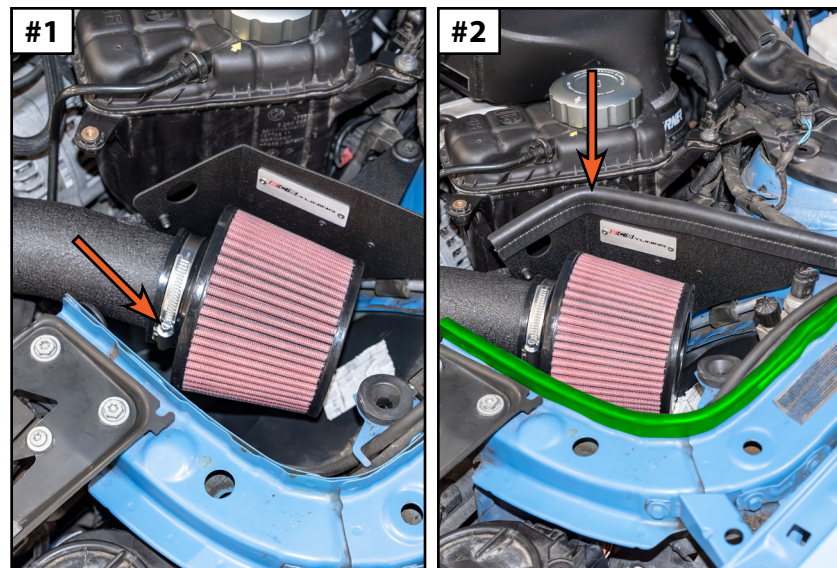




## INSTALLING THE NEW INTAKE SYSTEM

### Step 11: Cutting Pliers, 7mm Socket & Ratchet

Slide the provided air filters onto the end of each intake pipe and tighten the clamp (arrow in **Photo #1**) until snug. Install the provided bulb seal (arrow in Photo #2) along the top of each heat shield, trimming to length as needed, then install the provided rubber edge trim (highlighted in **GREEN** in **Photo #2**) along the corner of the body panel on each side as shown, trimming to length as needed.



### Step 12: 10mm, 13mm Socket & Ratchet

Reinstall the brace, rain trays, and engine cover as shown.



***Congratulations, your installation is complete!***

## Your Luft-Technik Intake System installation is complete!



### These instructions are provided as a courtesy by ECS Tuning

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