



Audi 4M SQ7 Kohlefaser 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.

REQUIRED TOOLS

Note: The tools required for each step will be listed by the step number throughout these instructions.

Standard Automotive Tools

- Protecta-Sockets (for lug nuts)..... [ES#2221243](#)
- **3/8" Drive Ratchet**..... [ES#2765902](#)
- **3/8" Drive Torque Wrench**..... [ES#2221245](#)
- **3/8" Drive Deep and Shallow Sockets**..... [ES#2763772](#)
- **3/8" Drive Extensions**..... [ES#2804822](#)
- Hydraulic Floor Jack..... [ES#2834951](#)
- **Torx Drivers and Sockets**..... [ES#11417/8](#)
- 1/2" Drive Deep and Shallow Sockets..... [ES#2839106](#)
- 1/2" Drive Ratchet
- 1/2" Drive Extensions
- 1/2" Drive Torque Wrench..... [ES#2221244](#)
- 1/2" Drive Breaker Bar..... [ES#2776653](#)
- Bench Mounted Vise
- Crows Foot Wrenches
- **Hook and Pick Tool Set**..... [ES#2778980](#)

Required For This Install

Available On Our Website

- **1/4" Drive Ratchet**..... [ES#2823235](#)
- **1/4" Drive Deep and Shallow Sockets**..... [ES#2823235](#)
- **1/4" Drive Extensions**..... [ES#2823235](#)
- Plier and Cutter Set..... [ES#2804496](#)
- Flat and Phillips Screwdrivers..... [ES#2225921](#)
- Jack Stands..... [ES#2763355](#)
- Ball Pein Hammers
- Pry Bar Set..... [ES#1899378](#)
- Electric/Cordless Drill
- Wire Strippers/Crimpers
- Drill Bits
- Punch and Chisel Set
- **Hex Bit (Allen) Wrenches and Sockets**..... [ES#11420](#)
- Thread Repair Tools..... [ES#1306824](#)
- **Open/Boxed End Wrench Set**..... [ES#2765907](#)

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.

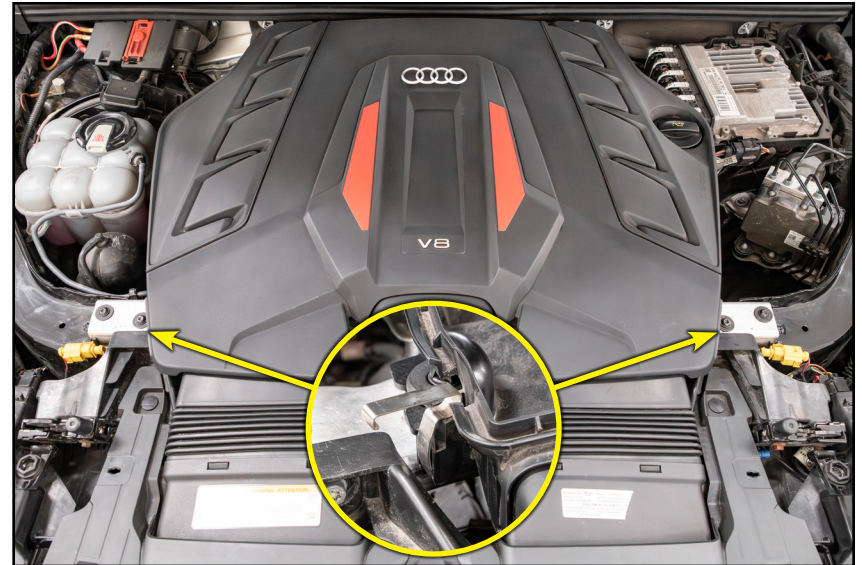


NEVER get underneath a vehicle that is supported only by a jack, and **ALWAYS** make sure that the vehicle is securely supported on jack stands.

INTAKE SYSTEM INSTALLATION

Step 1:

Release the retaining tabs (inset photo) and lift up on the front of the engine cover to pop it free from the mounting grommets.



Step 2:

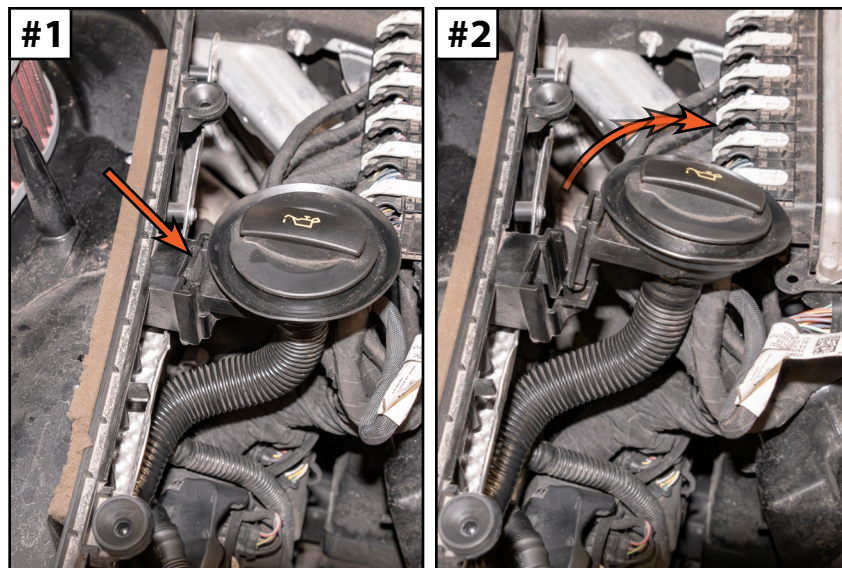
Lift up on the front of the engine cover, then slide it towards the front of the vehicle and remove it.



INTAKE SYSTEM INSTALLATION

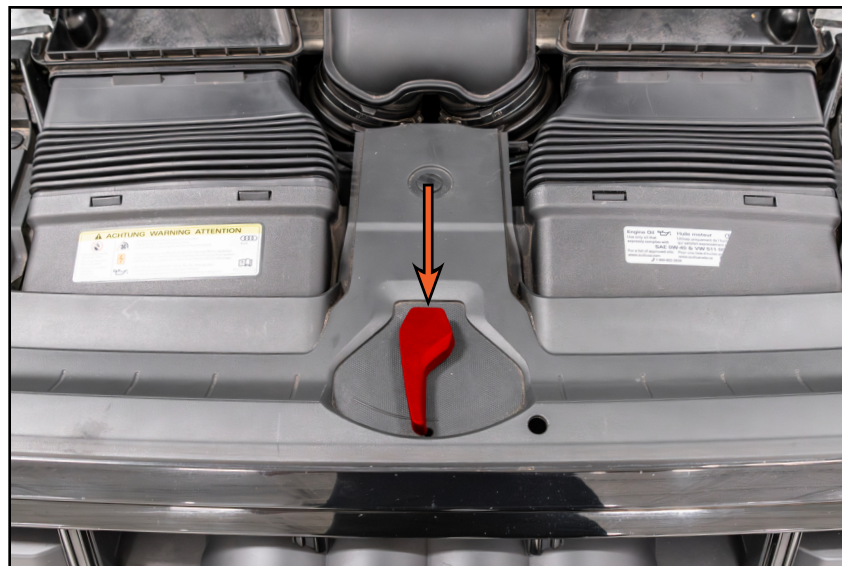
Step 3:

Depress the retaining tab (arrow in **Photo #1**) and slide the oil fill tube upward (as shown in **Photo #2**) to free it from the airbox.



Step 4: Trim Removal Tool

Depress the retaining tab (arrow) and pull upward to remove the hood release handle (highlighted in **RED**).



INTAKE SYSTEM INSTALLATION

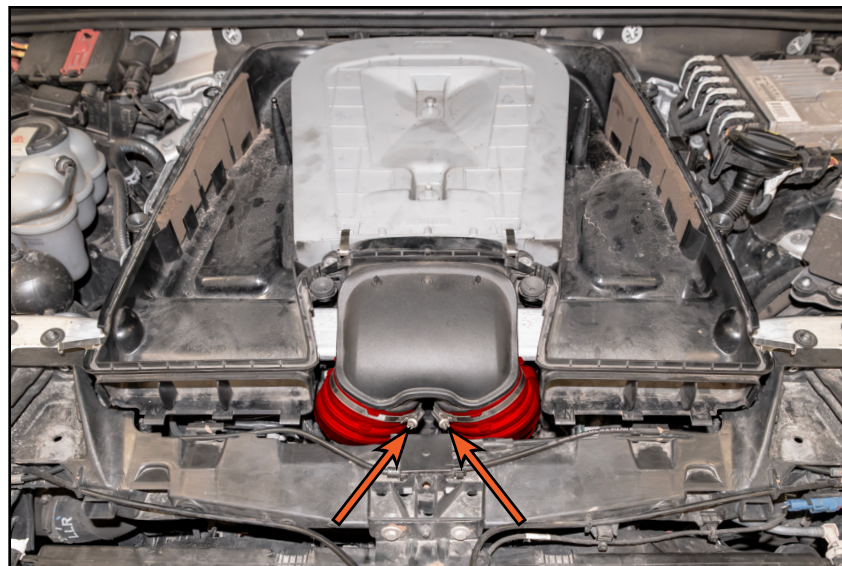
Step 5:

Release the plastic push rivets (circled in **RED** in **Photo #1**), then unclip the inlet ducts (highlighted in **RED** in **Photo #2**) from the airbox and remove the radiator cover from the core support.



Step 6: 7mm Socket & Ratchet

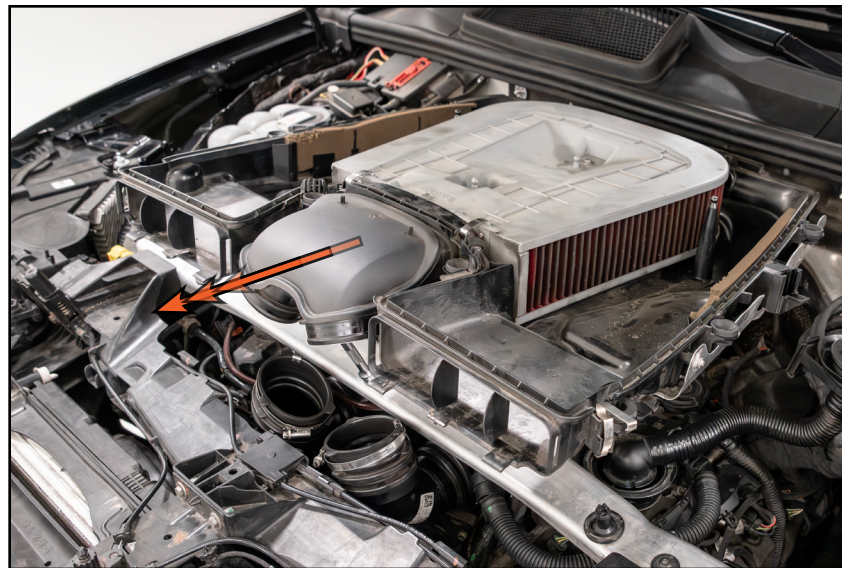
Loosen the two clamps (arrows) and pull the turbo inlet hoses (highlighted in **RED**) off of the airbox.



INTAKE SYSTEM INSTALLATION

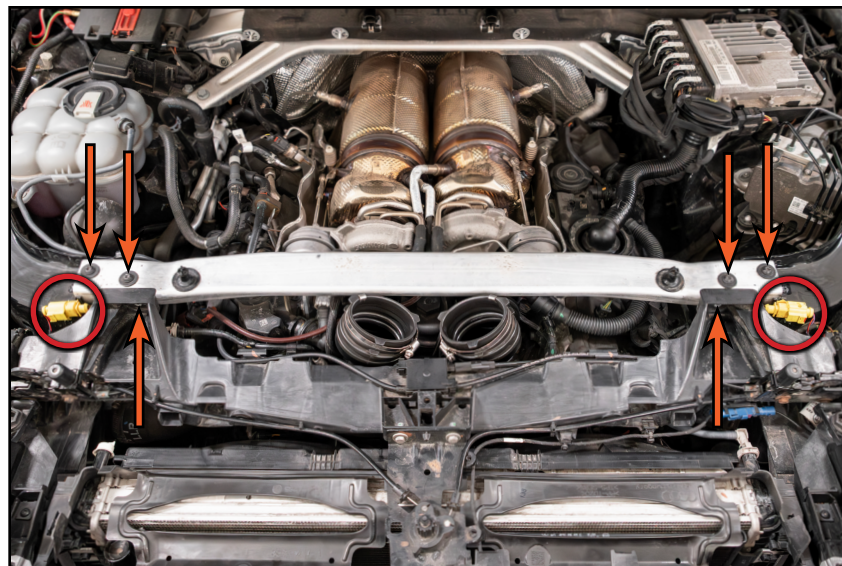
Step 7:

Lift up on the front of the airbox to pop it free from the mounting posts, then slide it towards the front of the vehicle and remove it.



Step 8: T30 Torx Socket & Ratchet

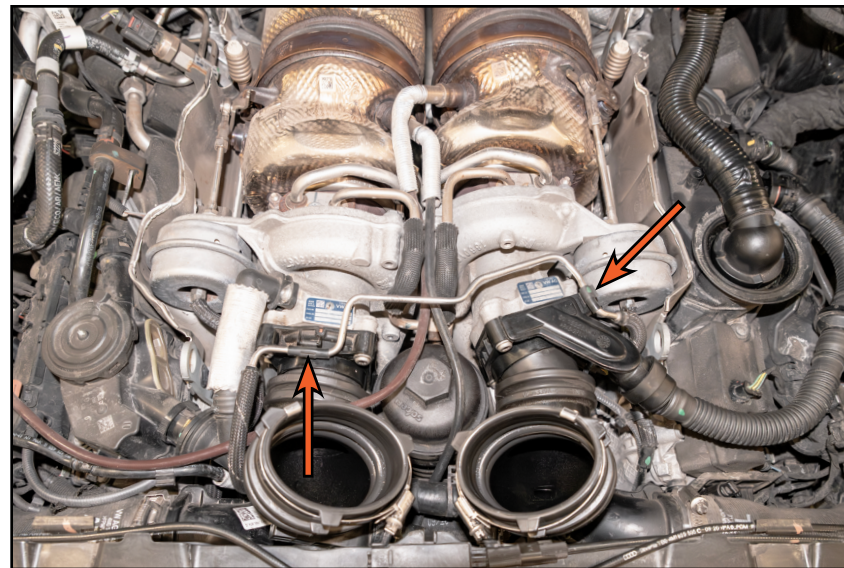
Unclip the sensor connectors (circled in **RED**) from the core support brace, then remove the screws (arrows) and remove the brace from the vehicle.



INTAKE SYSTEM INSTALLATION

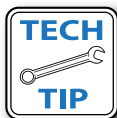
Step 9:

Lift up to free both wastegate line clips (arrows) from the mounting tabs on the turbo inlets.



Step 10: Angled Pick Tool

Depress the retaining tabs and pull the PCV vent tube (highlighted in **RED**) off the flange on the PCV valve, then pull the tube off of the flange on the LH turbo inlet.



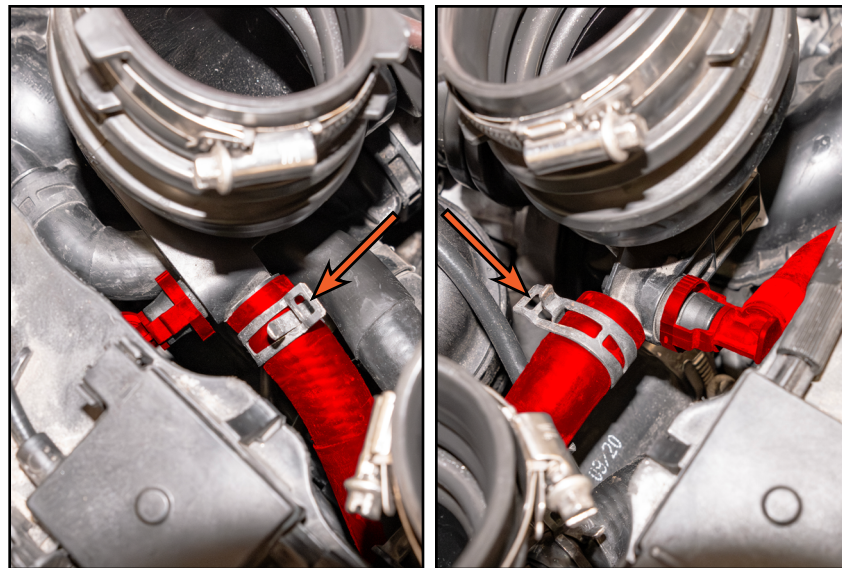
Push an angled pick in between the turbo inlet flange and PCV vent tube fitting and slide it around the perimeter to free up the internal retaining ring.



INTAKE SYSTEM INSTALLATION

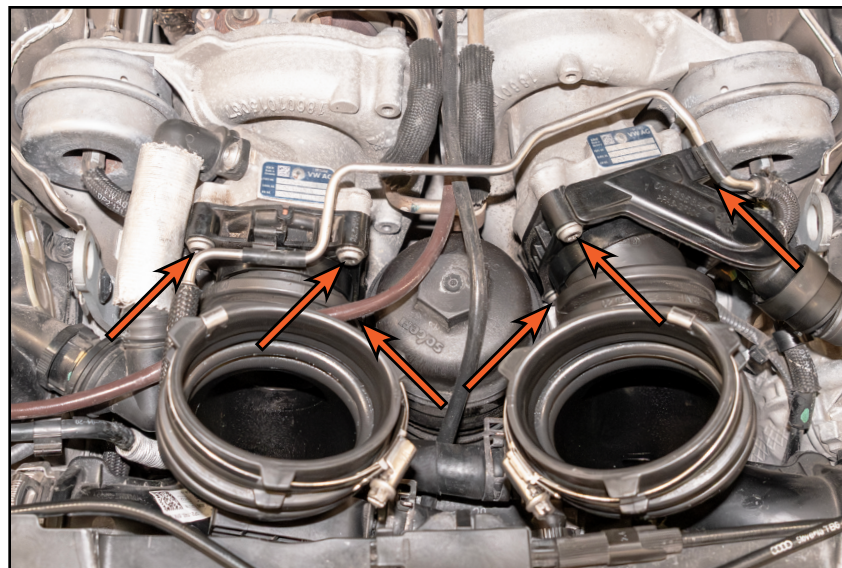
Step 11: Hose Clamp Pliers

Loosen the clamps (arrows) and slide them off of the venturi valve on the underside of each turbo inlet. Depress the retaining tabs and disconnect the lines and hoses (highlighted in **RED**) from each venturi valve.



Step 12: T30 Torx Socket & Ratchet

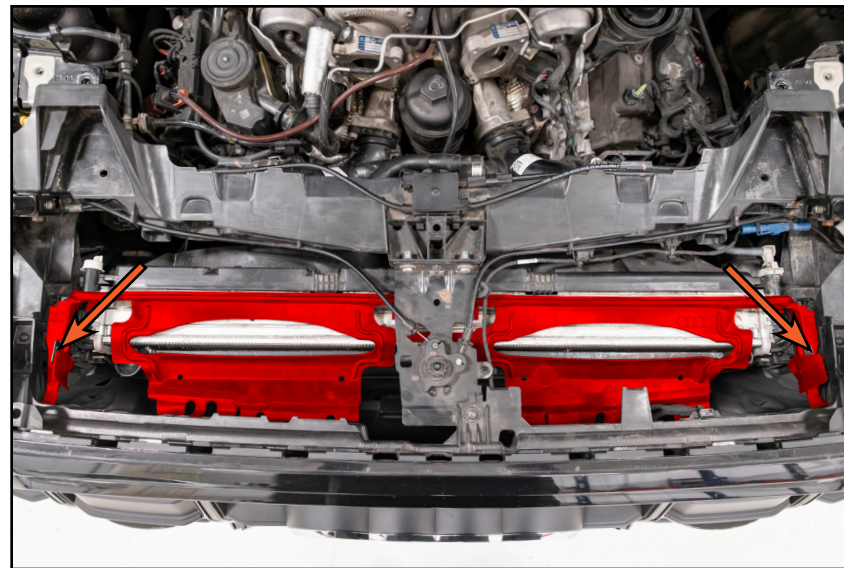
Remove the three screws (arrows) that secure each turbo inlet to the turbocharger, then carefully guide them free from the engine.



INTAKE SYSTEM INSTALLATION

Step 13:

Depress the retaining tabs (arrows) and guide the inlet duct air guide (highlighted in **RED**) free from the vehicle.



Step 14: Hose Clamp Pliers

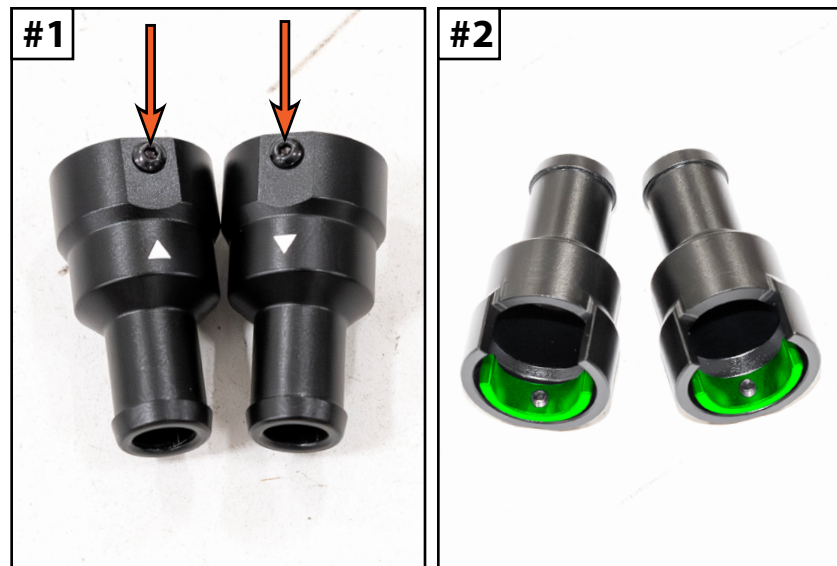
Insert the PCV tube fitting (highlighted in **GREEN**) into the port on the top of the LH turbo inlet hose and secure it into place with one of the provided clamps (arrow).



INTAKE SYSTEM INSTALLATION

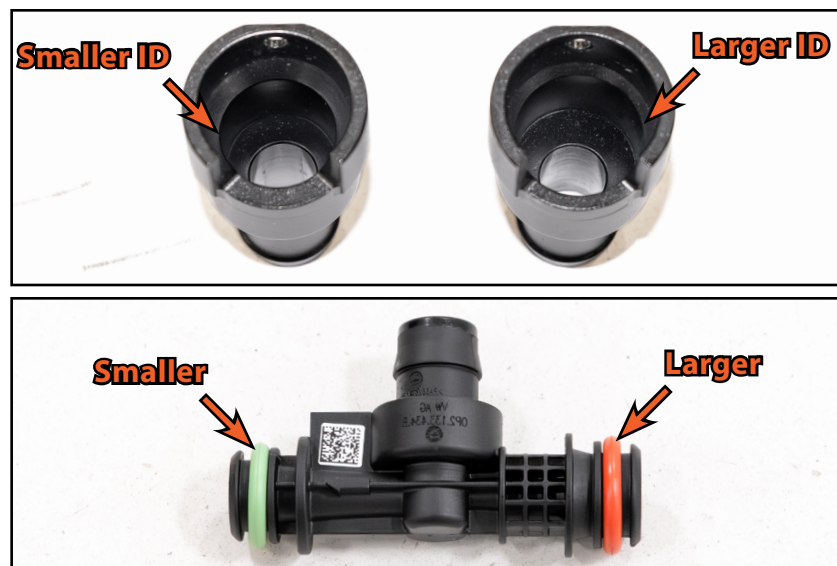
Step 15: 2mm Hex (Allen) Socket & Ratchet

Remove the screws (arrows in **Photo #1**) and remove the retainers (highlighted in **GREEN** in **Photo #2**) from each venturi valve adapter and set them aside.



Step 16:

Each venturi valve will require two adapters, one with a smaller inside diameter (ID) that corresponds with the smaller (green o-ring) side of the venturi valve, and one with a larger ID that corresponds with the larger (orange o-ring) side of the venturi valve.



INTAKE SYSTEM INSTALLATION

Step 17: 2mm Hex (Allen) Socket & Ratchet

Install the adapter onto the corresponding side of the venturi valve and push it into place until the o-ring is fully seated (as shown in **Photo #1**), then slide the retainer (highlighted in **GREEN** in **Photo #2**) into place and reinstall the screw (arrow) to secure it into place.



Step 18: 2mm Hex (Allen) Socket & Ratchet

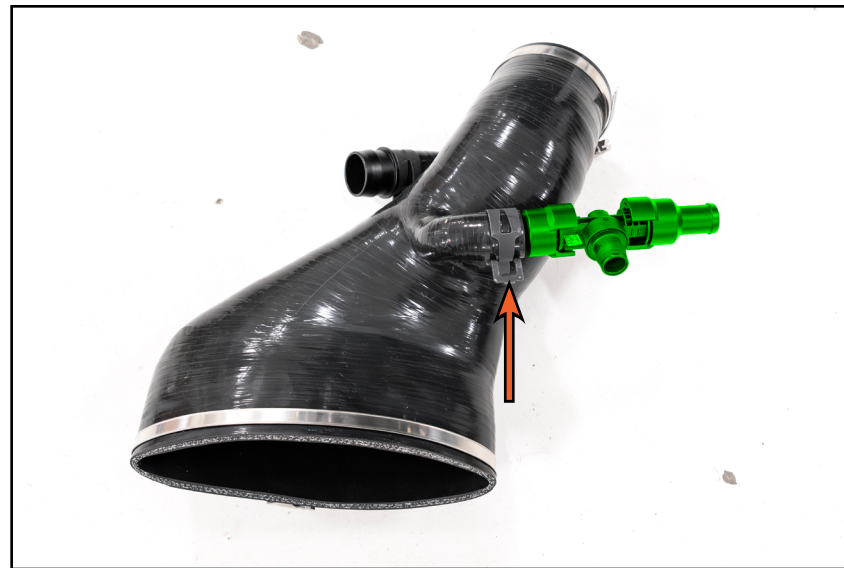
Repeat this process to install the adapters onto both sides of both venturi valves. Take note of the direction of the indication arrows on the adapters, as these must face TOWARDS the new turbo inlet hoses once installed.



INTAKE SYSTEM INSTALLATION

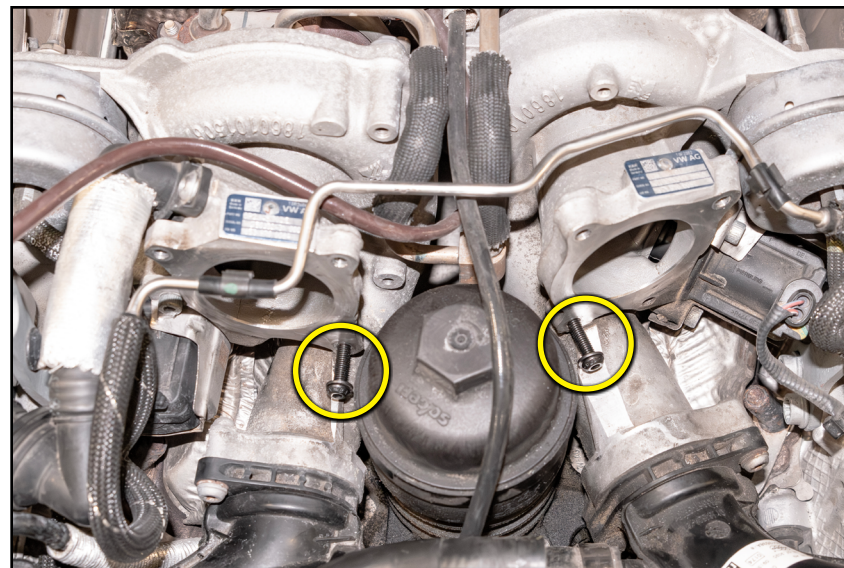
Step 19: Hose Clamp Pliers

Slide each venturi valve assembly (highlighted in **GREEN**) into the port on the underside of each turbo inlet hose, ensuring the indication arrows face towards the hose, and secure it in place with the provided clamp (arrow).



Step 20: 4mm Hex (Allen) Socket & Ratchet

Loosely thread one of the provided M6 x 25mm screws with washers into the lowermost turbo inlet mounting hole (circled in **YELLOW**) in each turbocharger to aid in reassembly.



INTAKE SYSTEM INSTALLATION

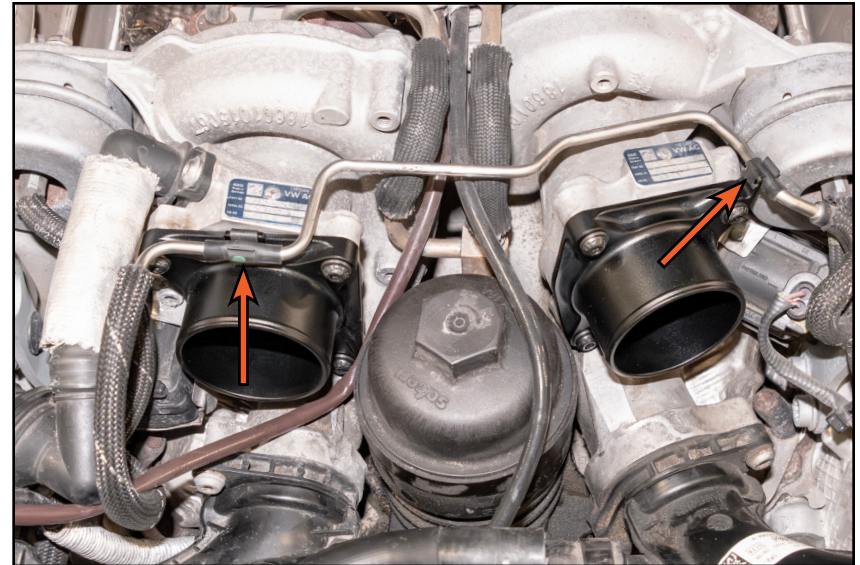
Step 21: 4mm Hex (Allen) Socket & Torque Wrench

Inspect each of the new turbo inlet adapters to ensure the o-rings (highlighted in **GREEN** in photo below) are fully seated in their grooves. Carefully guide the turbo inlet adapters onto the threads of the lower screws, then install the remaining M6 x 25mm screws with washers and tighten them all to 9 Nm (7 Ft-lbs). Secure the wastegate line clips (arrows) to the tabs on the turbo inlet adapters.



Step 22:

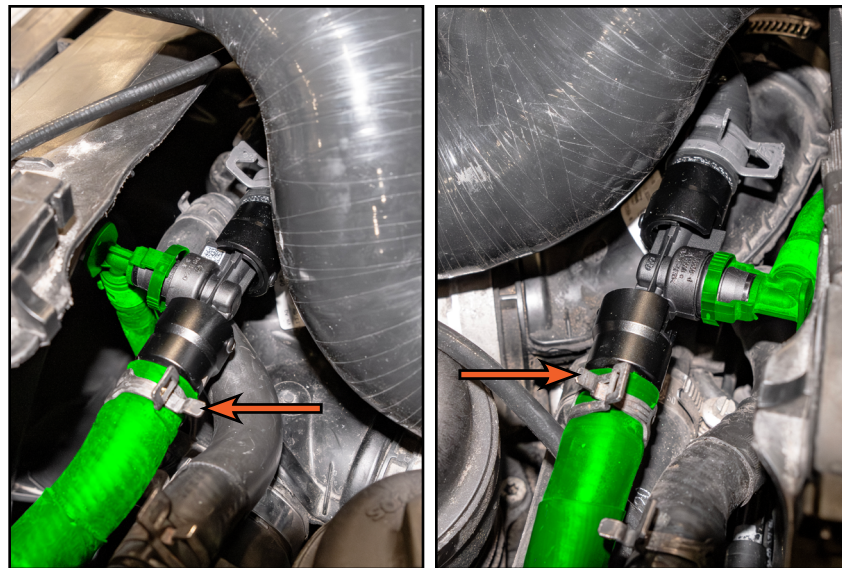
Slide the turbo inlet hoses onto the adapters, but leave the clamps loose enough to allow for adjustment.



INTAKE SYSTEM INSTALLATION

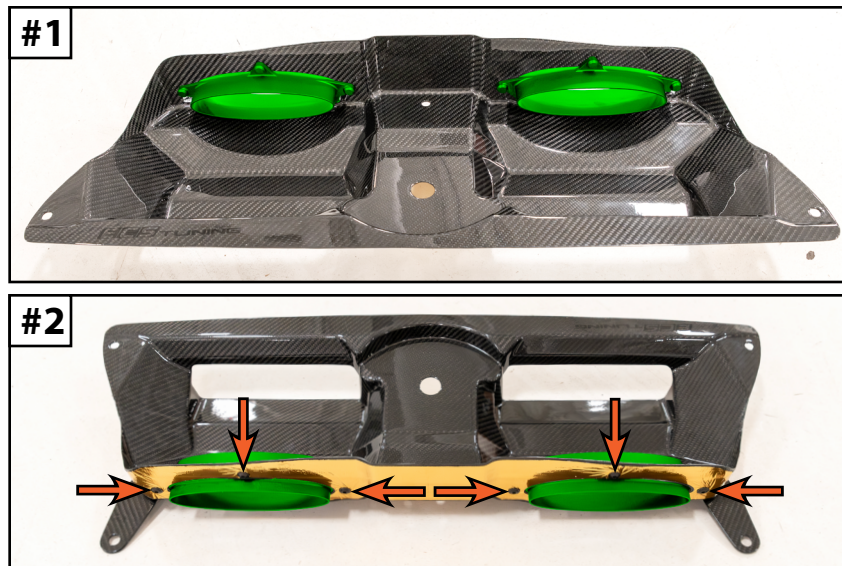
Step 23:

Connect the hoses and lines (highlighted in **GREEN**) to the new venturi valve assemblies, then slide the clamps (arrows) back into place.



Step 24: 4mm Hex (Allen) Socket & Ratchet

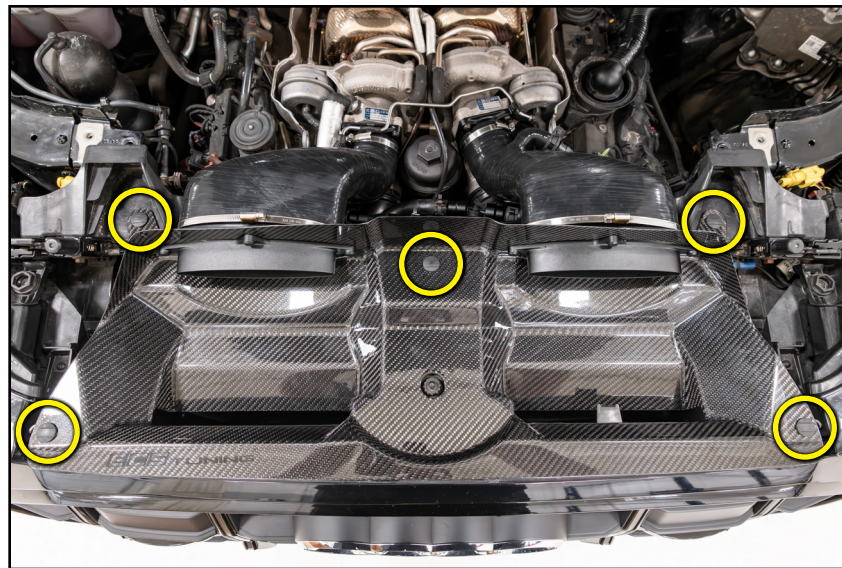
Slide the air filter adapters (highlighted in **GREEN**) into the new heat shield (as shown in **Photo #1**), then secure it from the back using the provided M6 x 6mm screws (arrows in **Photo #2**).



INTAKE SYSTEM INSTALLATION

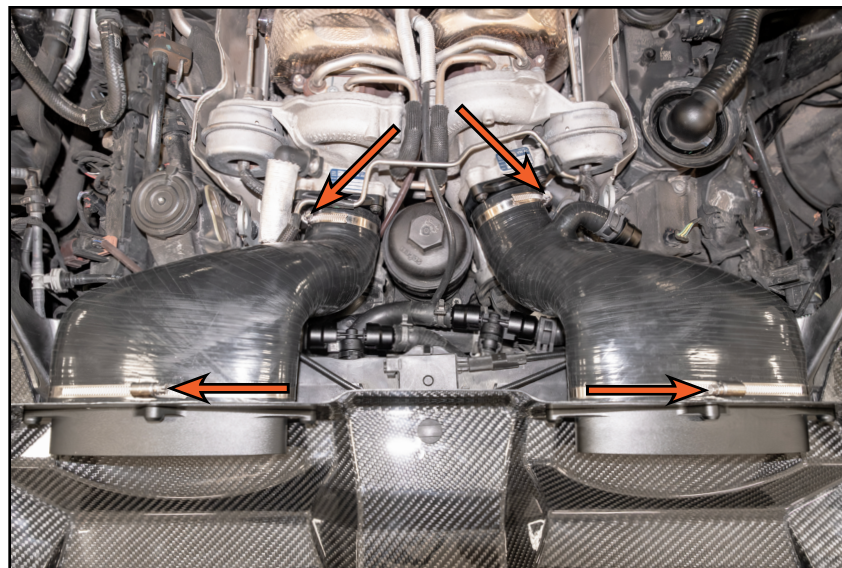
Step 25:

Slide the air filter adapters onto the turbo inlet hoses, then lay the heat shield down into place and reinstall the plastic push rivets (circled in **YELLOW**) to secure it to the core support.



Step 26: 7mm Socket & Ratchet

Adjust the turbo inlet hose to ensure proper fitment, then tighten the clamps (arrows) until snug.



INTAKE SYSTEM INSTALLATION

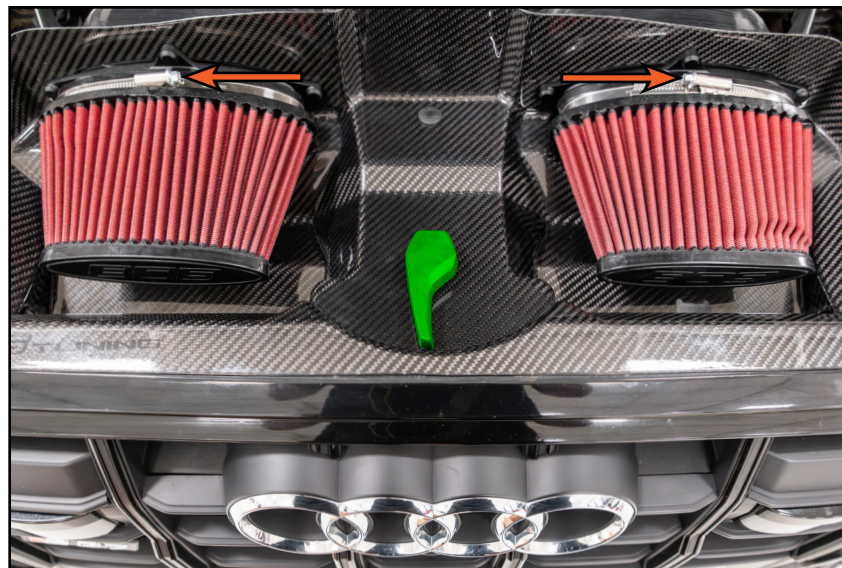
Step 27:

Reinstall the PCV vent tube (highlighted in **GREEN**) between the PCV valve and the new fitting on the LH turbo inlet hose.



Step 28: 7mm Socket & Ratchet

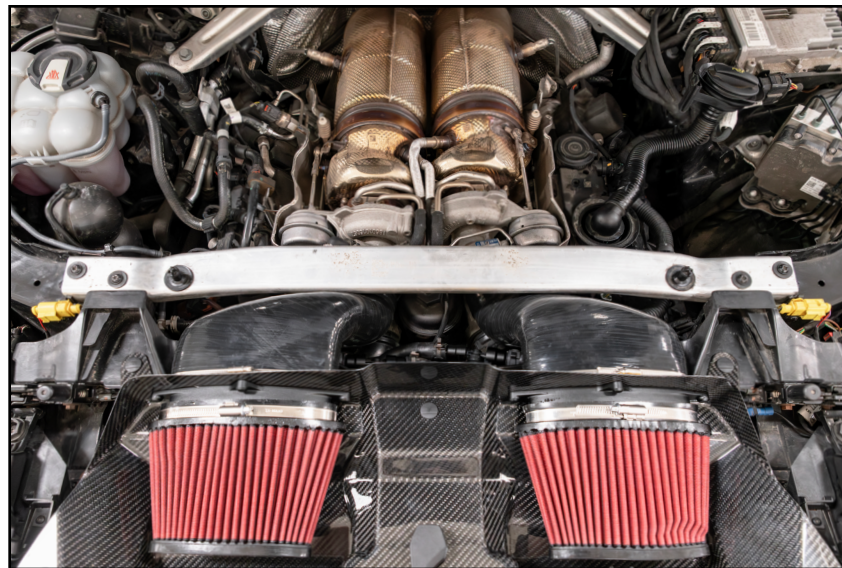
Slide the air filters onto the adapters and tighten the clamps (arrows) until snug. Reinstall the hood release handle (highlighted in **GREEN**).



INTAKE SYSTEM INSTALLATION

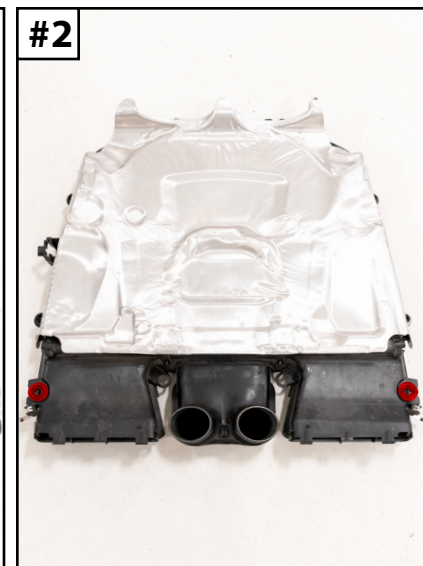
Step 29: T30 Torx Socket & Torque Wrench

Reinstall the core support brace, replace the screws, and tighten them to 10 Nm (7 Ft-lbs). Clip the sensor connectors (circled in **YELLOW**) to either side of the brace.



Step 30:

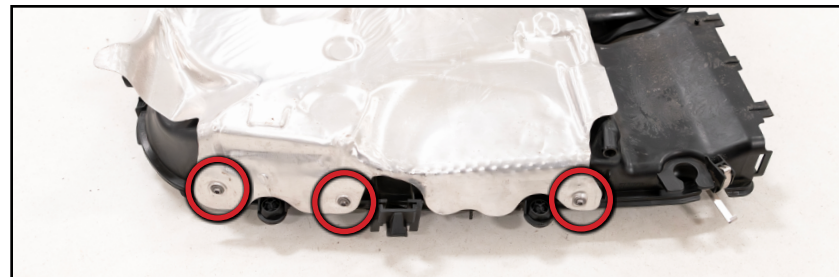
Remove two of the engine cover mounting grommets (highlighted in **RED** in **Photo #1**) and the two airbox mounting grommets (highlighted in **RED** in **Photo #2**) from the stock airbox and set them aside.



INTAKE SYSTEM INSTALLATION

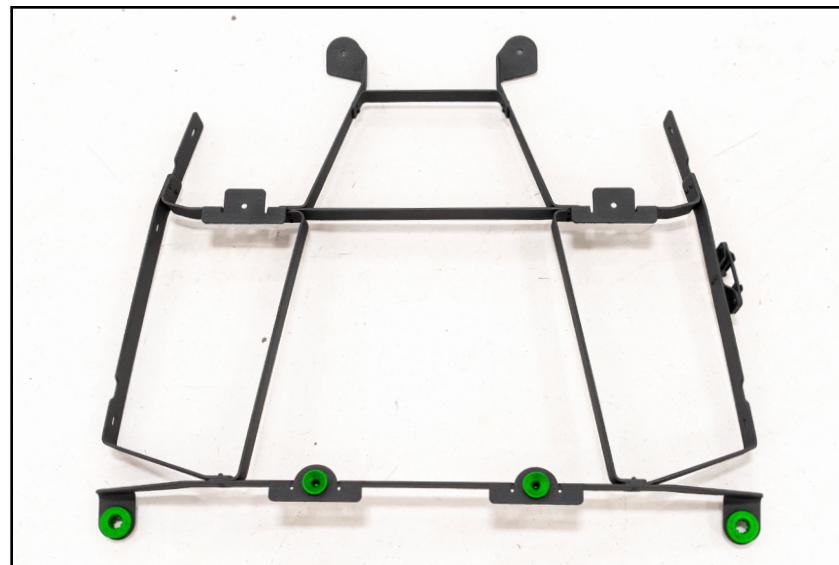
Step 31: T25 Torx Socket & Ratchet

Remove the six screws (circled in **RED**), then remove the heat shield from the underside of the stock airbox and set it aside.



Step 32:

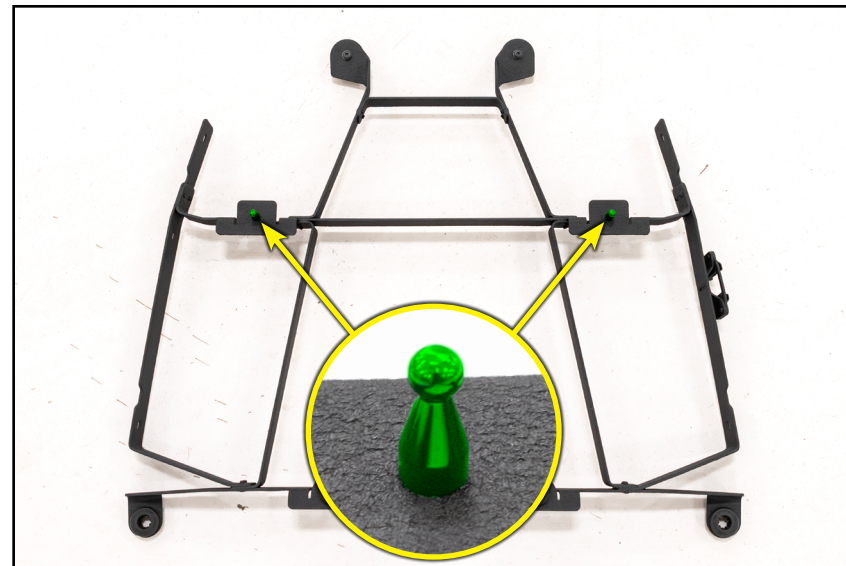
Install the engine cover and airbox mounting grommets (highlighted in **GREEN**) into the openings in the new engine cover bracket.



INTAKE SYSTEM INSTALLATION

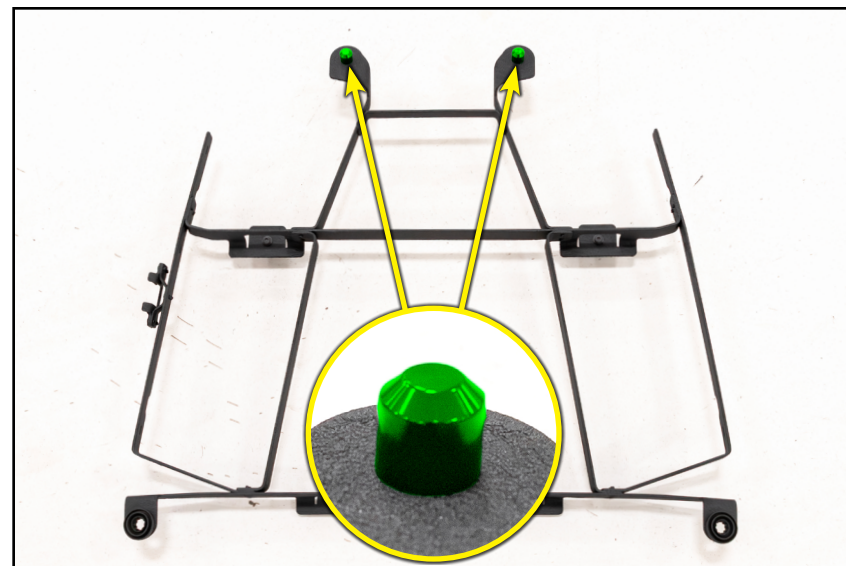
Step 33: 4mm Hex (Allen) Socket & Ratchet

Install the two provided ball studs (highlighted in **GREEN** in inset photo) onto the center mounting tabs in the bracket and secure them in place with the provided M6 x 10mm screws with washers.



Step 34: 4mm Hex (Allen) Socket & Ratchet

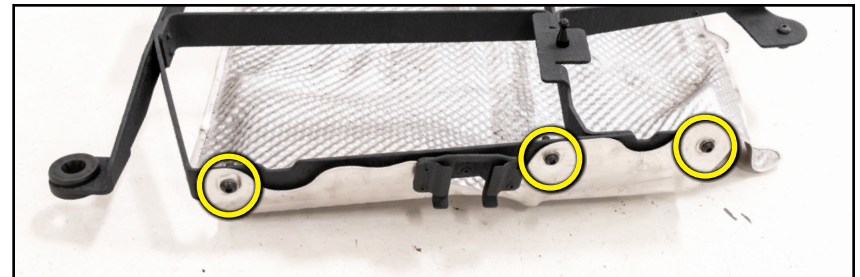
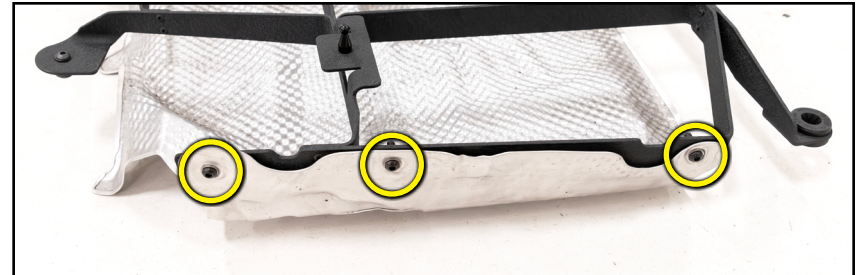
Install the two provided mounting posts (highlighted in **GREEN** in inset photo) onto the underside of the rear mounting tabs on the bracket and secure them in place with the provided M6 x 10mm screws with washers.



INTAKE SYSTEM INSTALLATION

Step 35: 10mm Wrench, 4mm Hex (Allen) Socket & Ratchet

Install the airbox heat shield onto the underside of the bracket and secure it place with the provided M6 x 20mm screws, washers, and nuts (circled in **YELLOW**).



Step 36:

Lift up on the retaining tabs and remove the stock airbox mounting posts (highlighted in **RED** in **Photo #1**) from the holes in the firewall. Install the provided mounting grommets (highlighted in **GREEN** in **Photo #2**) into the holes in the firewall.



INTAKE SYSTEM INSTALLATION

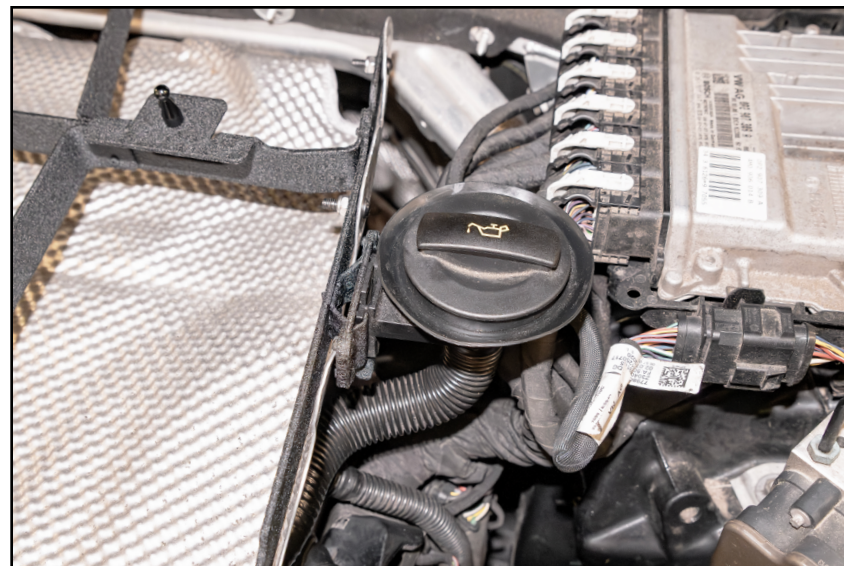
Step 37:

Lower the bracket into place, ensuring the new rear mounting posts engage the new grommets in the firewall, then push downward on the front of the bracket to pop the grommets onto the mounting posts on the core support brace.



Step 38:

Slide the oil filler tube into the mounting tab on the side of the engine cover bracket, ensuring the retaining tab snaps into place.



INTAKE SYSTEM INSTALLATION

Step 39:

Align the mounting posts and grommets and push downward to pop the engine cover into place.



Step 40:

Install the provided bulb seal (highlighted in **GREEN**) along the top of the new 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

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.

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