



VW MK7 1.4T Luft-Technik Intake System Installation Instructions - [ES3660411](#)



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.

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KIT CONTENTS



Heat Shield



Air Inlet Scoop



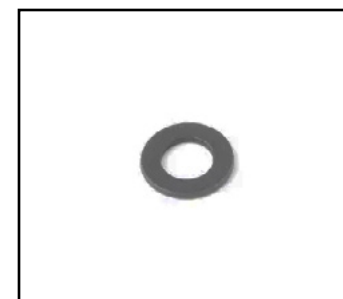
Intake Pipe



Intake Hose



Air Filter

KIT CONTENTSSAI Adapter Kit
(QTY 1)Grommet
(QTY 2)Rubber Bumper
(QTY 1)Sleeve Bearing
(QTY 1)Bulb Seal
(QTY 1)Edge Trim
(QTY 1)Vacuum Hose
(QTY 2)Barbed Fitting
(QTY 1)Shoulder Bolt
(QTY 1)Nut
(QTY 1)Clip Nut
(QTY 1)M6 x 20mm Screw
(QTY 2)M5 x 12mm Screw
(QTY 4)M6 Washer
(QTY 2)M5 Washer
(QTY 4)

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

- **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](#)

Available On Our Website

Specialty Tools

- **Locking Hose Clamp Pliers**..... [ES#2702616](#)

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

Step 1: Hose Clamp Pliers

Compress the hose clamp (arrow) which secures the intake tube to the turbo inlet, then pull the tube off of the turbo inlet.



Step 2: Hose Clamp Pliers

Compress the hose clamp (arrow) which secures the intake tube to the air box, then pull the tube off of the air box and remove it from the vehicle.



REMOVING THE STOCK INTAKE

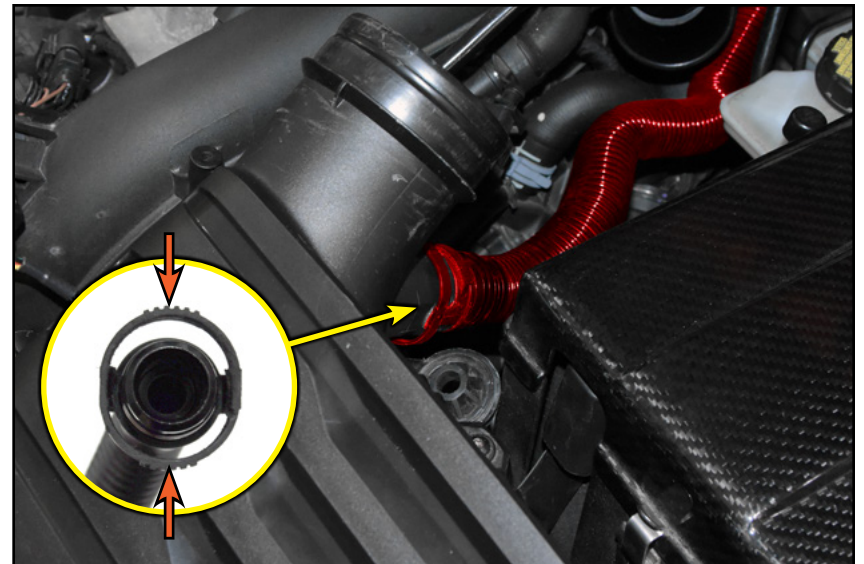
Step 3:

Pull the vacuum line (highlighted in **RED**) out of the air box as shown.



Step 4:

Lift up on the back of the air box to pop the first two grommets free. Depress the two locking tabs and pull the secondary air injection tube (highlighted in **RED**) off the flange on the underside of the air box.



REMOVING THE STOCK INTAKE

Step 5:

Push downward on the front side of the air box to release it from the air inlet scoop (inset photo), then rotate the intake forward and remove it from the engine bay.



Step 6: T25 Torx

Pull the coolant hose (highlighted in **RED**) free from the clips on the air inlet scoop, then remove the two screws (arrows), and push down on the scoop to free it from the core support. Slide the scoop out from the core support and remove it from the engine bay.



INSTALLING THE NEW INTAKE SYSTEM

Step 1:

Install the two provided grommets into the underside of the heat shield as shown.



Step 2: Flat Head Screwdriver -OR- 7mm Socket & Ratchet

Slide the secondary air injection adapter through the bottom of the heat shield, then flip the heat shield over, slide the air filter onto the end of the adapter, and tighten the clamp (arrow) until snug.



INSTALLING THE NEW INTAKE SYSTEM

Step 3:

Apply the edge trim (highlighted in **GREEN**) to the intake pipe opening on the heat shield.



Step 4:

Slide the rubber bumper (highlighted in **GREEN**) into the heat shield as shown.



INSTALLING THE NEW INTAKE SYSTEM

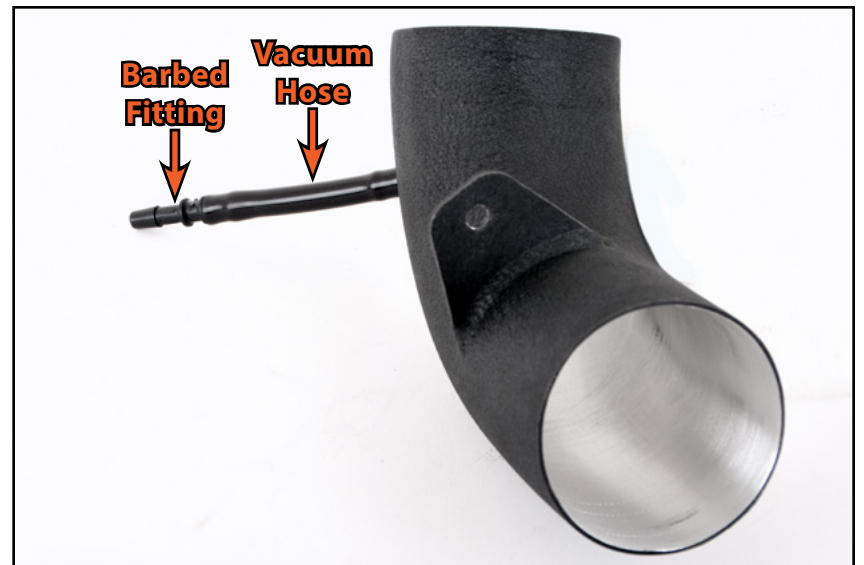
Step 5:

Push the sleeve bearing (arrow) into the rubber bumper as shown.



Step 6:

Push the barbed fitting into the provided vacuum hose, then slide the hose onto the fitting on the side of the intake pipe as shown.

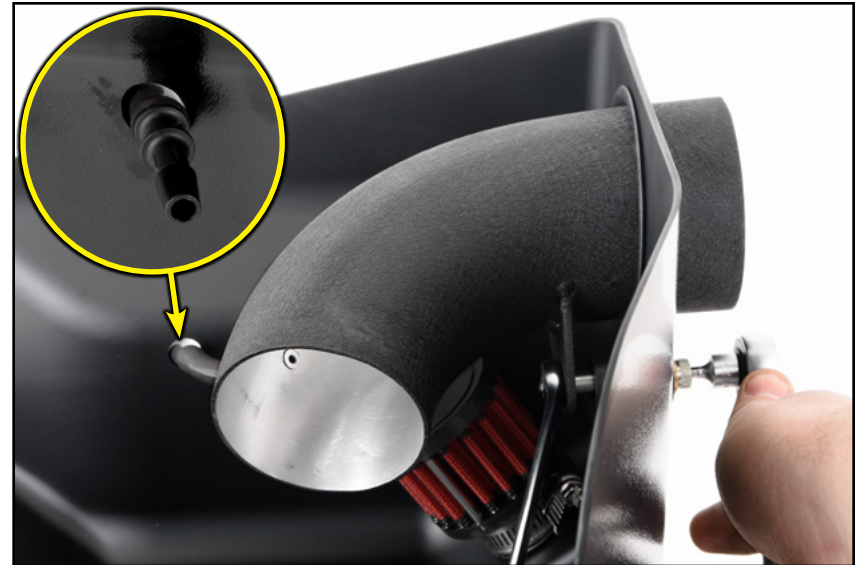


INSTALLING THE NEW INTAKE SYSTEM

Step 7: 11mm Wrench, 4mm Hex (Allen)

Slide the intake pipe through the opening in the heat shield as shown, then slide the provided shoulder bolt through the sleeve bearing and the mounting tab on the intake pipe. Install the provided nut onto the end of the bolt and tighten it until snug.

Slide the end of the vacuum line through the small opening in the side of the heat shield as shown (inset photo).



Step 8:

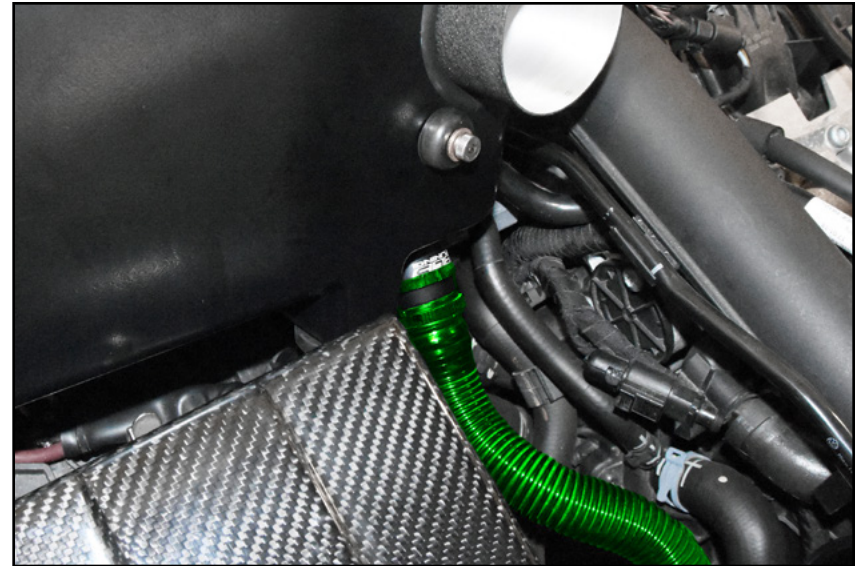
Install the two clip nuts (arrows) onto either side of the new air inlet scoop.



INSTALLING THE NEW INTAKE SYSTEM

Step 9:

Lower the assembled heat shield into place and connect the secondary air injection tube (highlighted in **GREEN**) to the adapter.



Step 10:

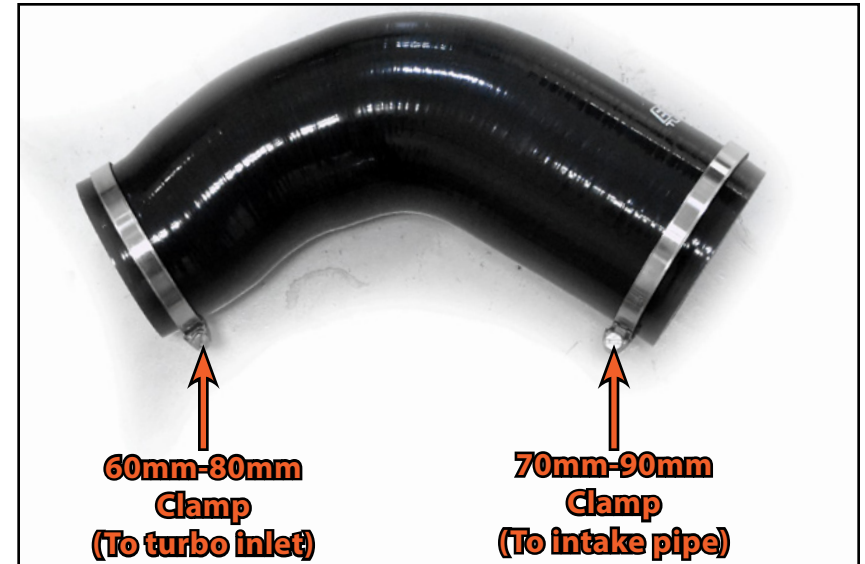
Connect the OE vacuum line (highlighted in **GREEN**) to the barbed fitting.



INSTALLING THE NEW INTAKE SYSTEM

Step 11:

Ensure that both hose clamps are properly installed onto either end of the intake hose and that they are oriented to make tightening them easier.



Step 12: Flat Head Screwdriver -OR- 7mm Socket & Ratchet

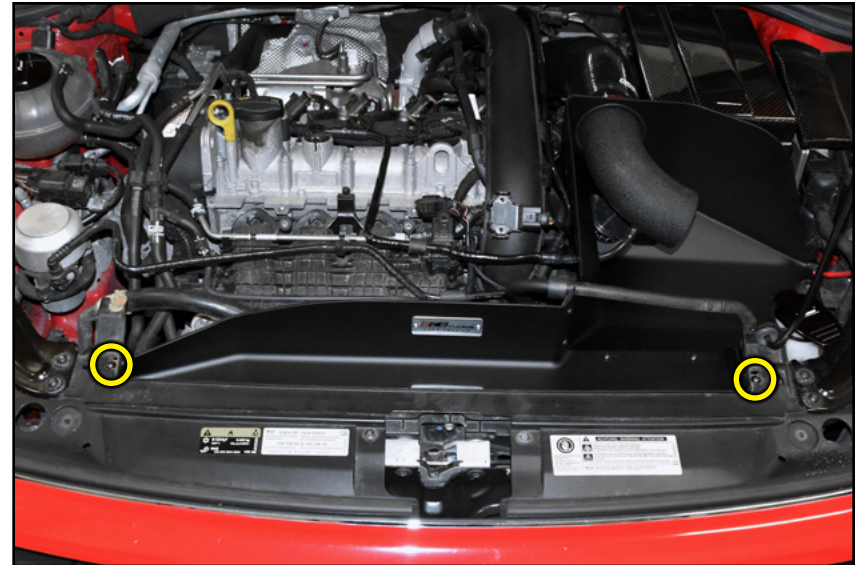
Install the intake hose between the turbo inlet and intake pipe and tighten the clamps (arrows) until snug.



INSTALLING THE NEW INTAKE SYSTEM

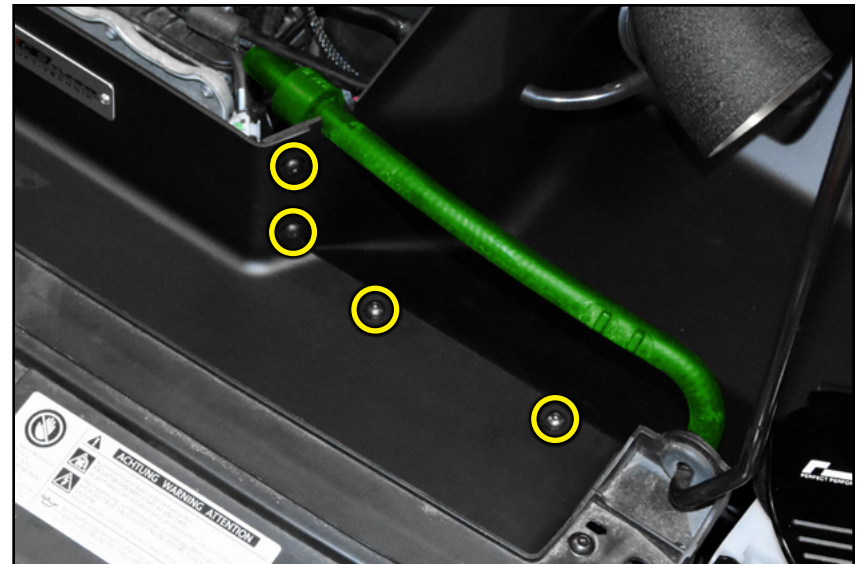
Step 13: 4mm Hex (Allen)

Slide the new air inlet scoop into the core support and install the two provided M6 x 20mm screws and washers (circled in **YELLOW**) through the top of the core support and into the clip nuts we installed.



Step 14: 3mm Hex (Allen)

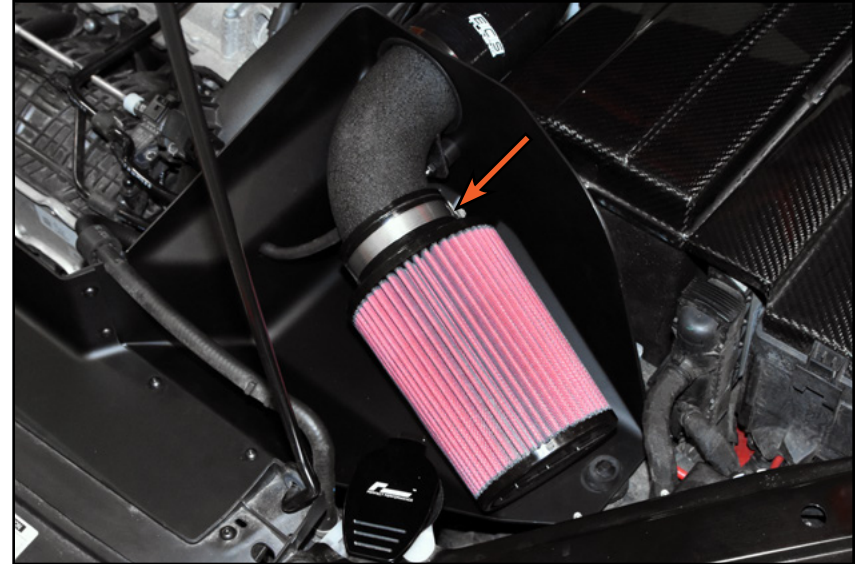
Ensure the coolant hose (highlighted in **GREEN**) falls into the groove in the side of the heat shield as shown, then install the four provided M6 x 12mm screws and washers (circled in **YELLOW**) to secure the air inlet scoop to the heat shield.



INSTALLING THE NEW INTAKE SYSTEM

Step 15: Flat Head Screwdriver -OR- 8mm Socket & Ratchet

Slide the air filter onto the end of the intake pipe and tighten the clamp (arrow) until snug to secure it in place.



Step 16:

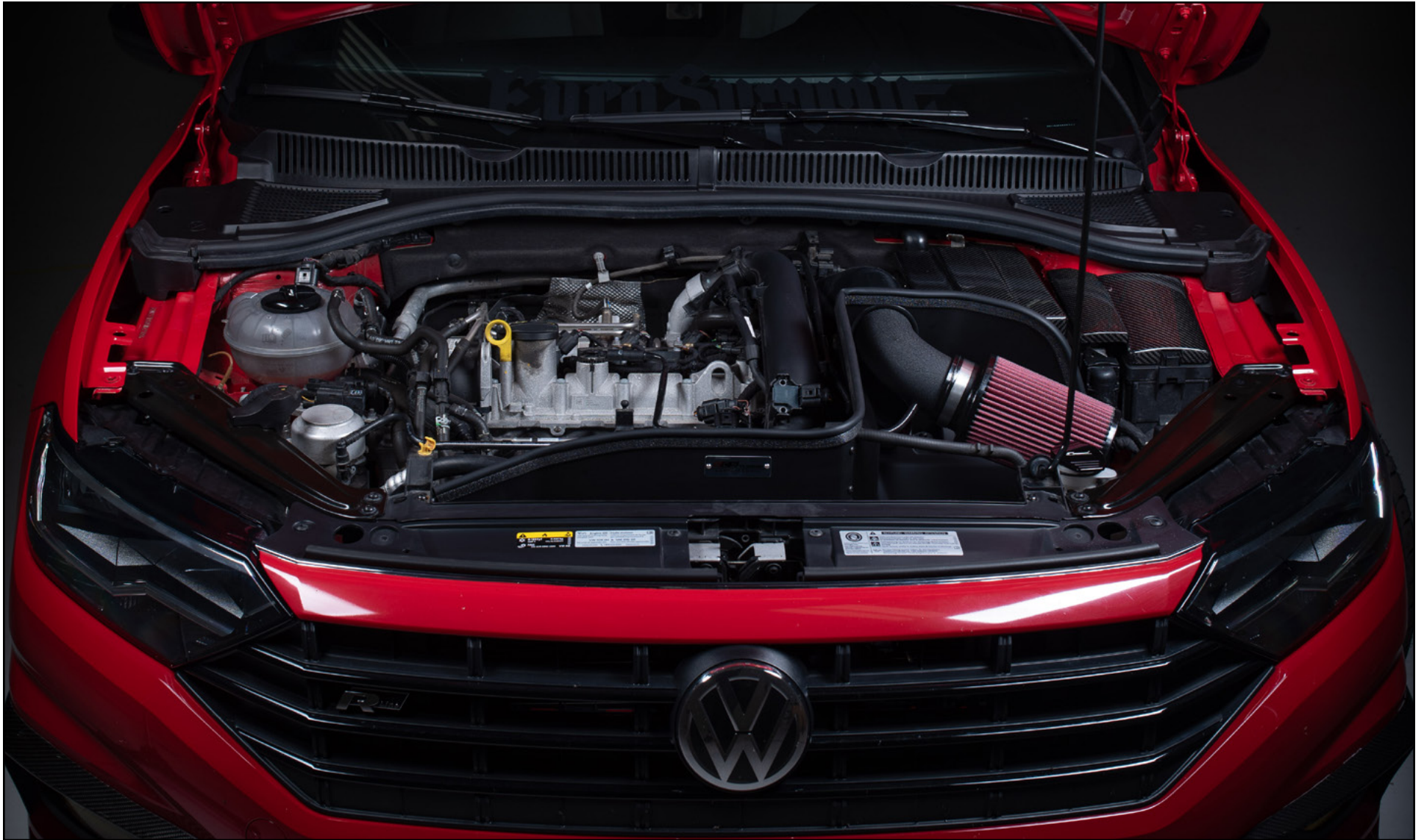
Apply the provided bulb seal (highlighted in **GREEN**) along the top of the air inlet scoop and heat shield as shown. This will help to seal the intake to the hood, making it more air-tight.



SCHWABEN - BUILD THE ULTIMATE TOOL COLLECTION

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Your Luft-Technik 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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