VW MK5/6 FSI Luft-Technik Intake System Installation Instructions - Click HERE to Shop

Skill Level
1 - Easy

Basic Skills Required

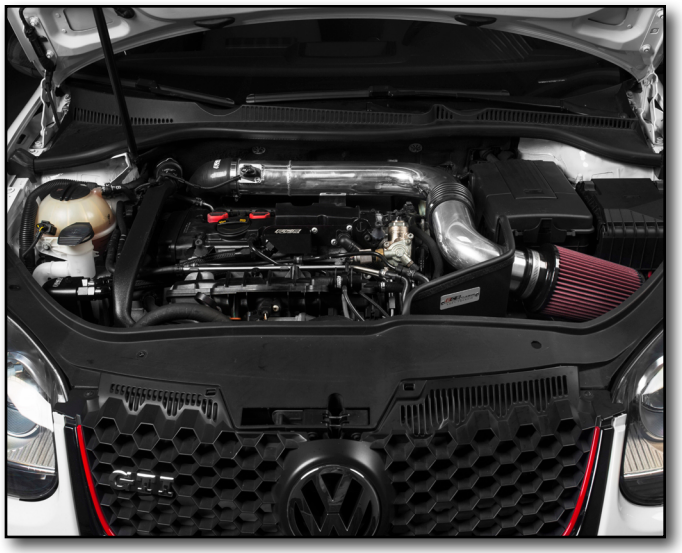


TABLE OF CONTENTS

AVAILABLE KITS

MK5 FSI System w/ Polished Aluminum Tubes

MK5 FSI System w/ Wrinkle Black Aluminum Tubes

MK6 FSI System w/ Polished Aluminum Tubes

MK6 FSI System w/ Wrinkle Black Aluminum Tubes

KIT CONTENTS

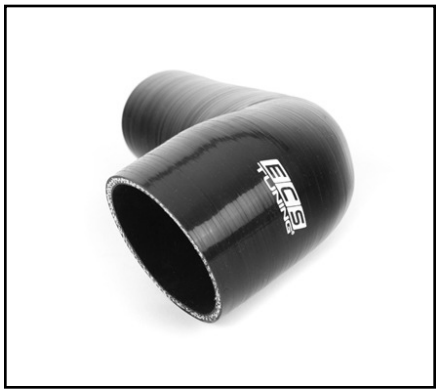
Luft-Technik Aluminum Heat Shield Assembly
(QTY 1)

Upper Intake Tube **(QTY 1)**
(Polished or Wrinkle Black)

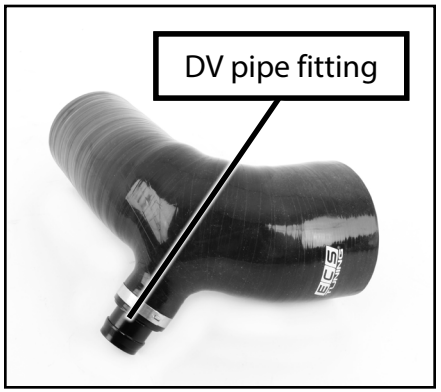
Lower Intake Tube **(QTY 1)**
(Polished or Wrinkle Black)

Air Filter (w/Band Clamp)
(QTY 1)

Accordion Coupler
(QTY 1)



MK5 FSI Silicone Turbo Inlet Hose
(QTY 1)



MK6 FSI Silicone Turbo Inlet Hose
(QTY 1)

Your kit will include **ONE** of these

Turbo Heat Shield
(QTY 1)

KIT CONTENTS

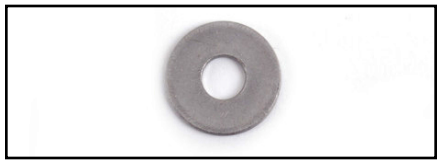
50-70mm Band Clamp
(QTY 1)

70-90mm Band Clamps
(QTY 3)

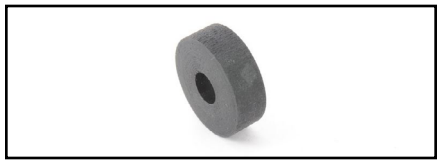
M6x16mm Bolt
(QTY 1)

Heat Shield Mounting Grommets
(QTY 2)

Air Box Snorkel Screws
(QTY 2)



M6 Flat Washer
(QTY 1)



Rubber Intake Tube Isolator
(QTY 1)

M4x8mm MAF Sensor Screws
(QTY 2)

M6 Vibration Damper
(QTY 1)

M6 Flanged Nut
(QTY 1)

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
- ⅜" Drive Ratchet ES#2765902
- ⅜" Drive Torque Wrench ES#2221245
- **⅜" Drive Deep and Shallow Sockets** ES#2763772
- **⅜" Drive Extensions** ES#2804822
- Hydraulic Floor Jack ES#240941
- **Torx Drivers and Sockets** ES#11417/8
- ½" Drive Deep and Shallow Sockets ES#2839106
- ½" Drive Ratchet
- ½" Drive Extensions
- ½" Drive Torque Wrench ES#2221244
- ½" Drive Breaker Bar ES#2776653
- Bench Mounted Vise
- Crows Foot Wrenches
- Hook and Pick Tool Set ES#2778980

Required For This Install

- **¼" Drive Ratchet** ES#2823235
- **¼" Drive Deep and Shallow Sockets** ES#2823235
- **¼" 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

- **½" Drive Deep 24mm 12-Point Socket** ES#2652185
- **VAG Connector Release Tool** ES#2628676
- **Locking Spring 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.

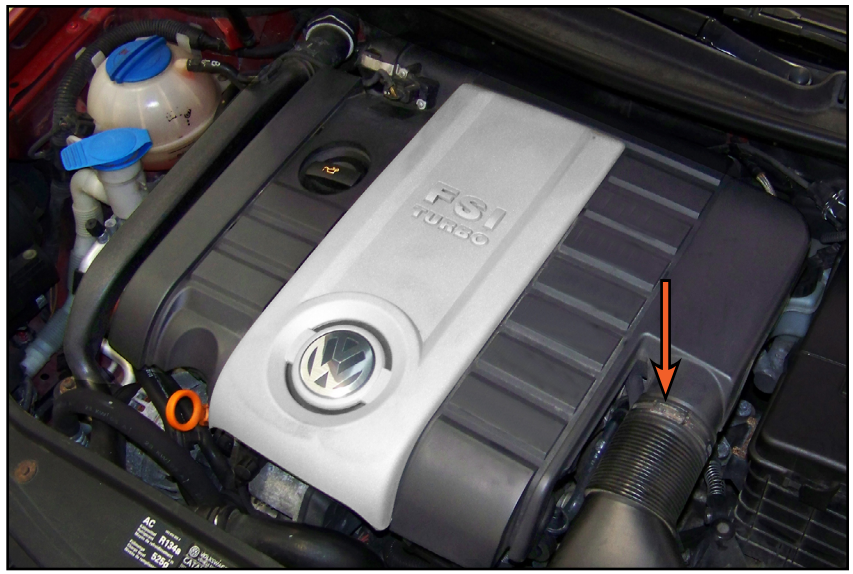
- Park your car in a safe, well lit, level area.
- Shut the engine off and remove the key from the ignition switch.
- Make sure any remote start devices are properly disabled.
- **ALWAYS** wear safety glasses.
- Make sure the parking brake is applied until the vehicle is safely lifted and supported.
- 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 ORIGINAL INTAKE

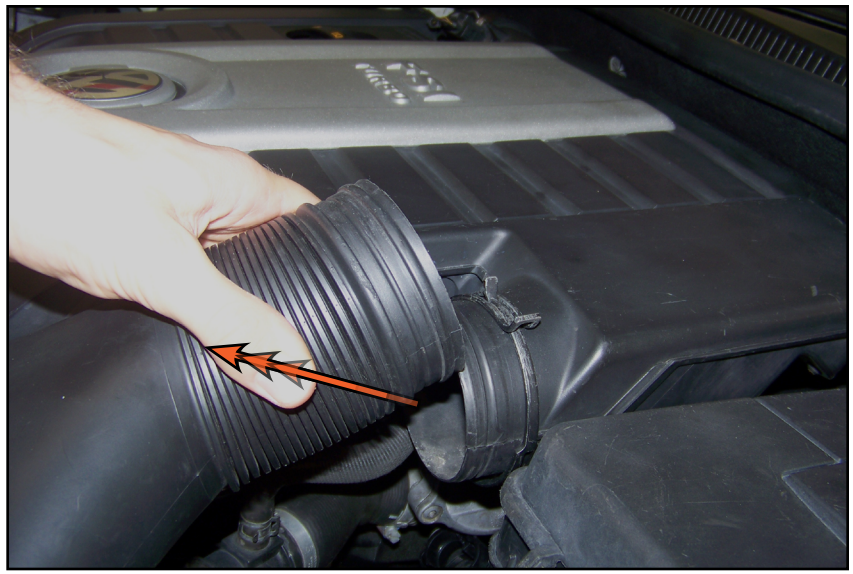
Step 1: Locking Spring Clamp Pliers

Release the tension on the spring clamp (arrow) and slide it forward onto the air box, then release the tension.



Step 2:

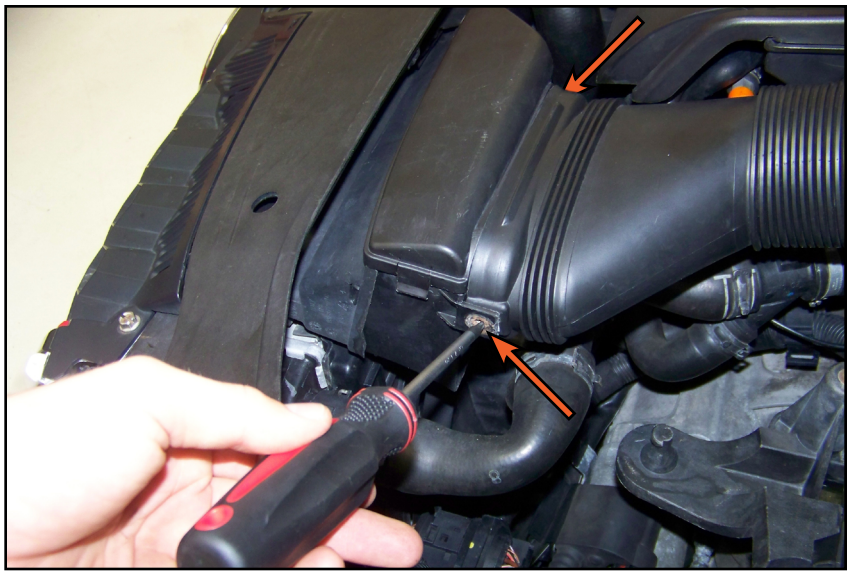
Pull the intake tube off of the air box as shown.



REMOVING THE ORIGINAL INTAKE

Step 3: T25 Torx

Remove the two screws (arrows) that secure the air intake tube to the air duct.



Step 4:

Pull the intake tube off of the air duct as shown.

REMOVING THE ORIGINAL INTAKE

Step 5: VAG Connector Tool

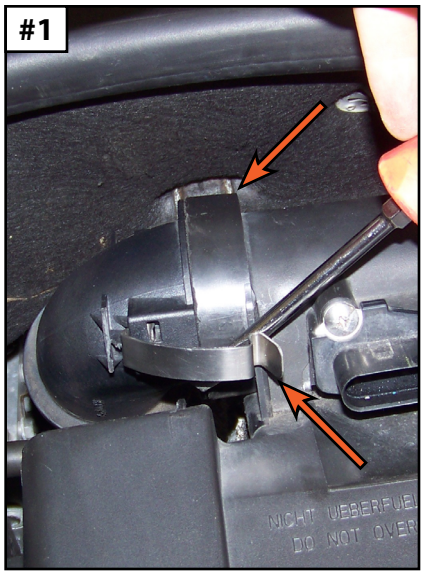
Disconnect the MAF sensor.

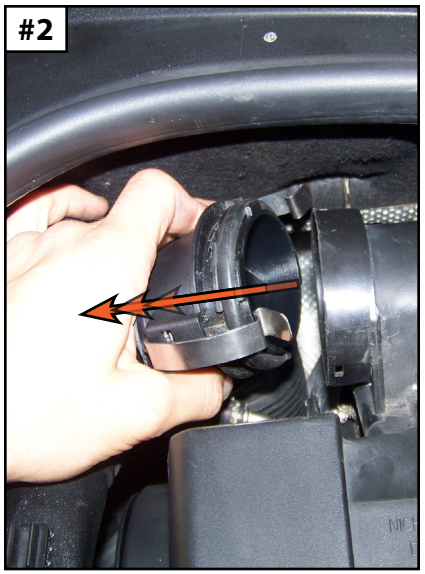
NOTE

MK6 FSI only: Use locking spring clamp pliers to disconnect the DV hose from the intake pipe, then unclip the DV hose from the air box.

Step 6: Flat Blade Screwdriver

Release the two clips (arrows) that secure the turbo inlet pipe to the air box (**photo #1**), then pull the inlet pipe off of the air box (**photo #2**).

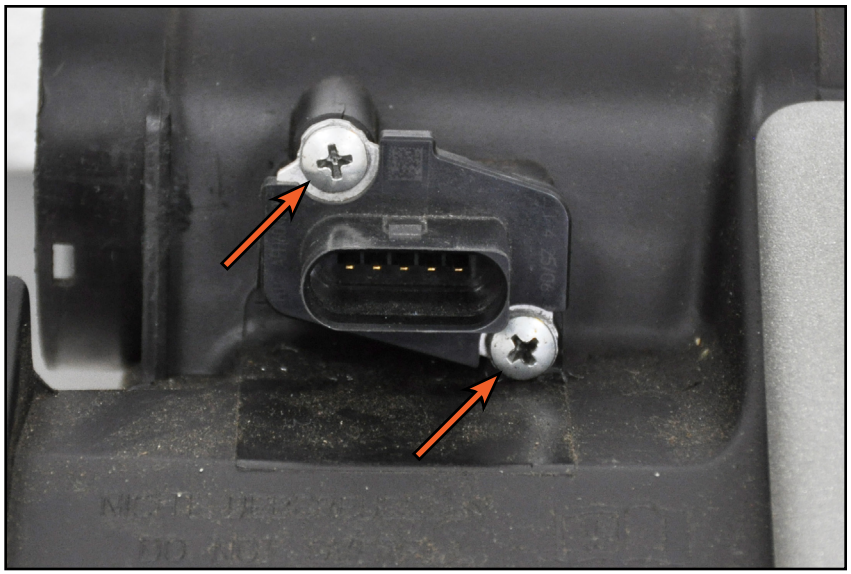




REMOVING THE ORIGINAL INTAKE

Step 7: Phillips Screwdriver

Remove the two screws (arrows), then pull the MAF sensor off of the air box.



Step 8:

Remove the air box by first pulling it up ***one corner at a time***, in the order shown below, reaching your hand underneath to get as ***close as possible*** to the grommets. This will prevent you from cracking the air box.

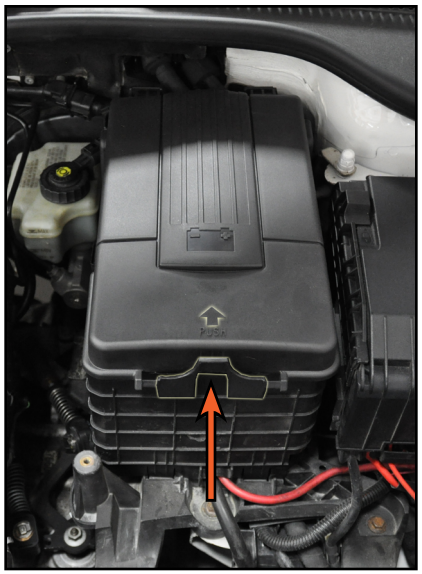
1. LH (Driver's side) Front
2. LH rear
3. RH Rear
4. RH Front

Grommet location and removal order is indicated in the photo. Once all four grommets are released, lift the air box off and remove it.

REMOVING THE ORIGINAL INTAKE

Step 9:

Push the battery cover release lever in the direction of the arrow, then pivot the cover upward and unhook it at the rear. Remove the front half of the battery box by lifting it up and separating it from the rear half.

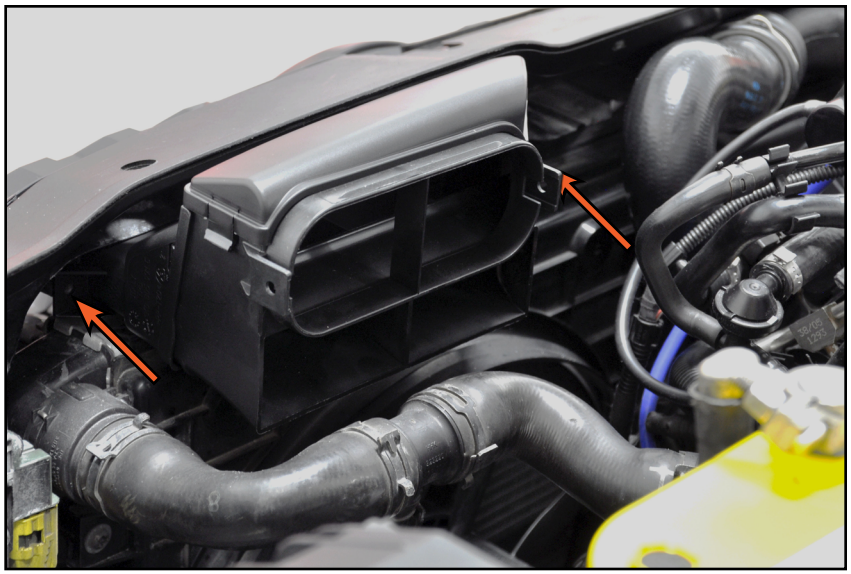


NOTE

The battery cover and box are being removed in order to gain a little extra room while installing and adjusting the new intake system.

Step 10: T25 Torx

Remove the two screws (arrows), then separate the air duct from the radiator core support.



REMOVING THE ORIGINAL INTAKE

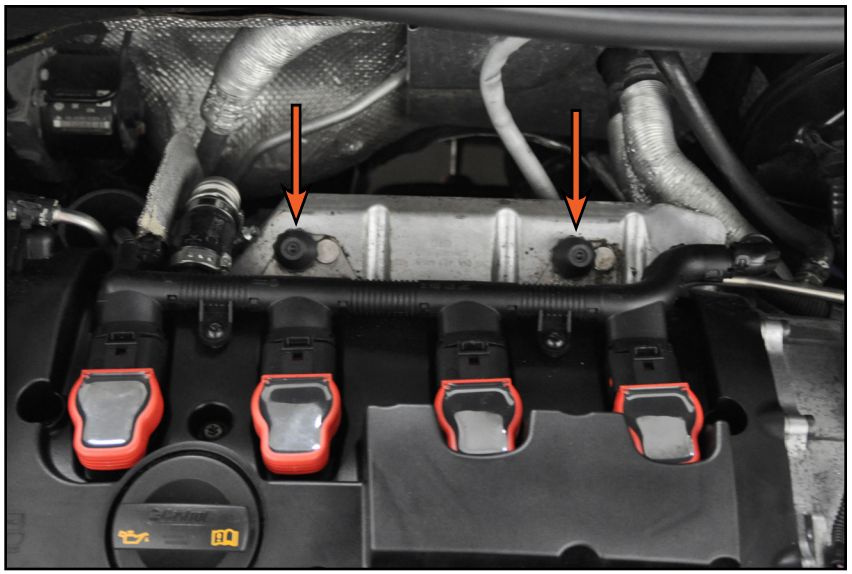
Step 11: 7mm Socket & Ratchet

Loosen the clamp and remove the turbo inlet pipe. The clamp is slightly hidden, but you cam access it using a small socket and ratchet. Once the clamp is loose, you will be able to pull the turbo inlet pipe up off of the turbo inlet.

CAUTION: Be careful not to drop anything or allow any dirt or debris to fall into the turbo inlet.

Step 12: 24mm 12-Point Socket

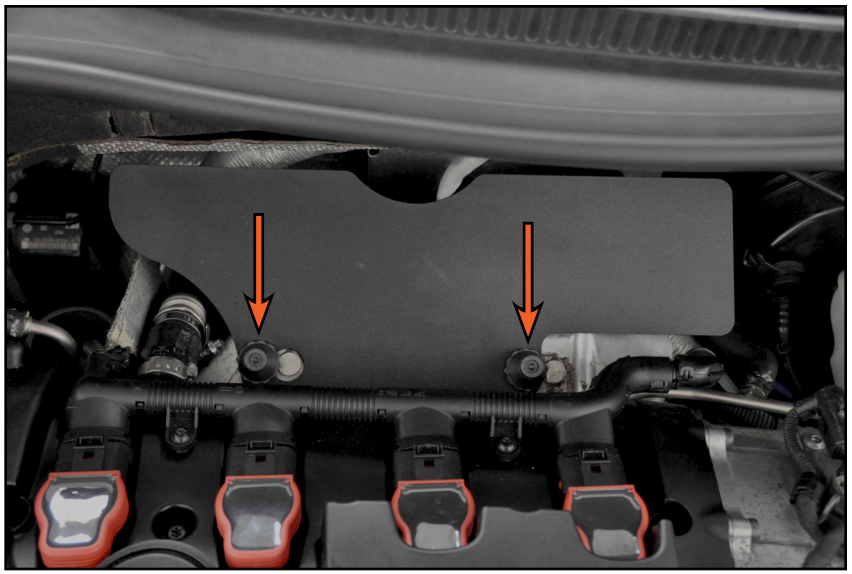
Remove the two rear air box mounting studs (arrows).



INSTALLING THE NEW ECS INTAKE SYSTEM

Step 1: 24mm 12-Point Socket

Install the new turbo heat shield in place as shown, securing it with the two rear air box mounting studs (arrows), tightening until snug.



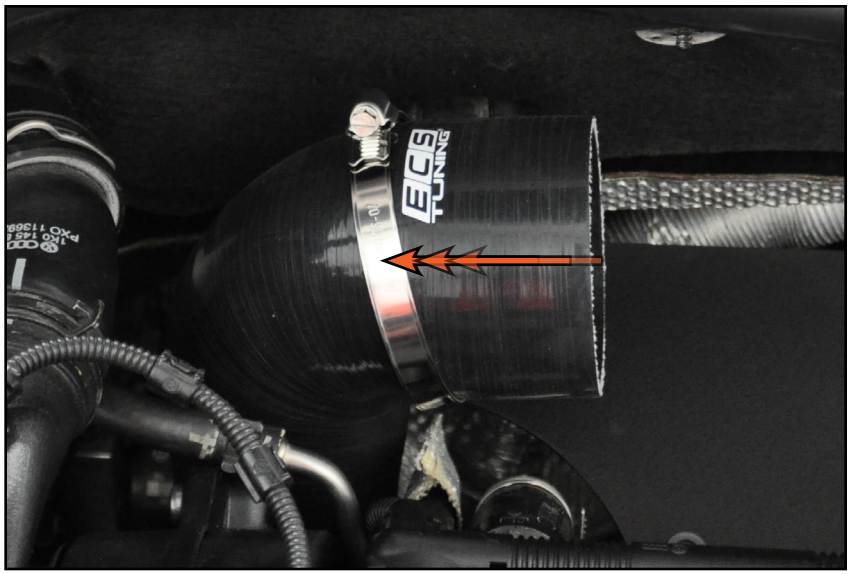
Step 2:

Slide the 50-70mm hose clamp onto the smaller end of the turbo inlet hose. Be sure to orient the clamp screw so you will be able to access it once the hose is installed, then push the hose onto the turbo inlet as shown.

INSTALLING THE NEW ECS INTAKE SYSTEM

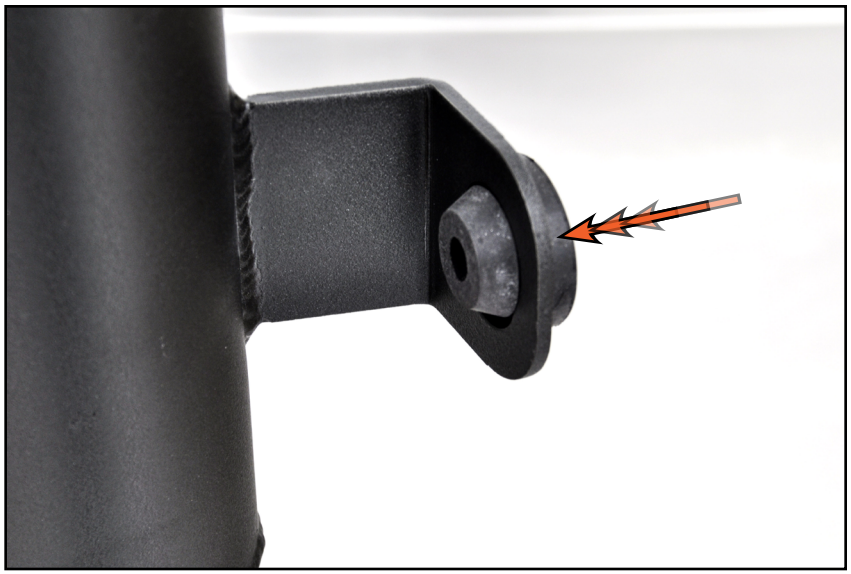
Step 3:

Slide one of the 70-90mm clamps over the upper end of the turbo inlet hose.



Step 4:

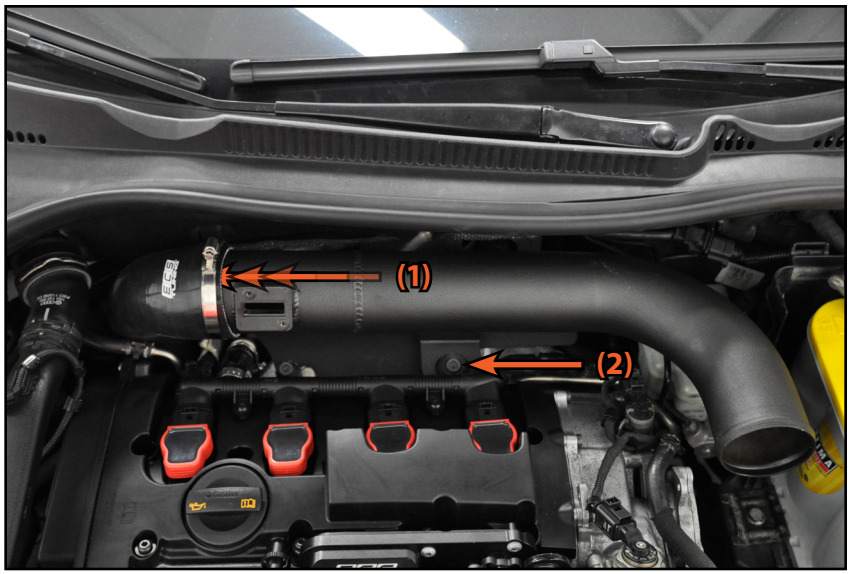
Push one of the grommets into the upper intake tube bracket as shown.



INSTALLING THE NEW ECS INTAKE SYSTEM

Step 5:

Push the upper intake tube into the end of the turbo inlet hose (1), then push the bracket grommet onto the mounting stud (2).



Step 6:

Slide the remaining 70-90mm clamps (arrows) onto each end of the flex coupler.

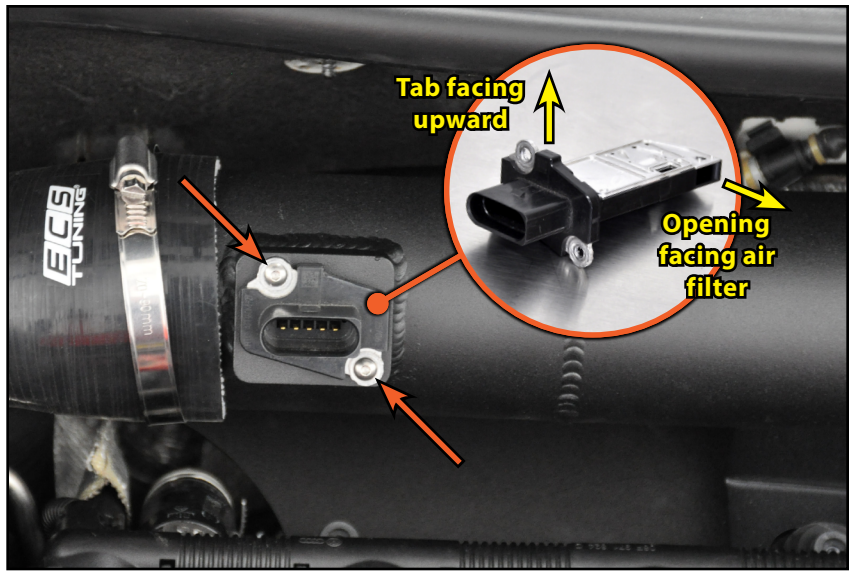
INSTALLING THE NEW ECS INTAKE SYSTEM

Step 7:

Push the flex coupler onto the end of the upper intake tube as shown.

Step 8: 2.5mm Hex (Allen)

Install the MAF sensor into the new upper intake tube, using the new MAF screws (arrows) supplied with the kit. Make sure it is oriented as shown in the picture.



INSTALLING THE NEW ECS INTAKE SYSTEM

Step 9:

Reconnect the MAF sensor connector.

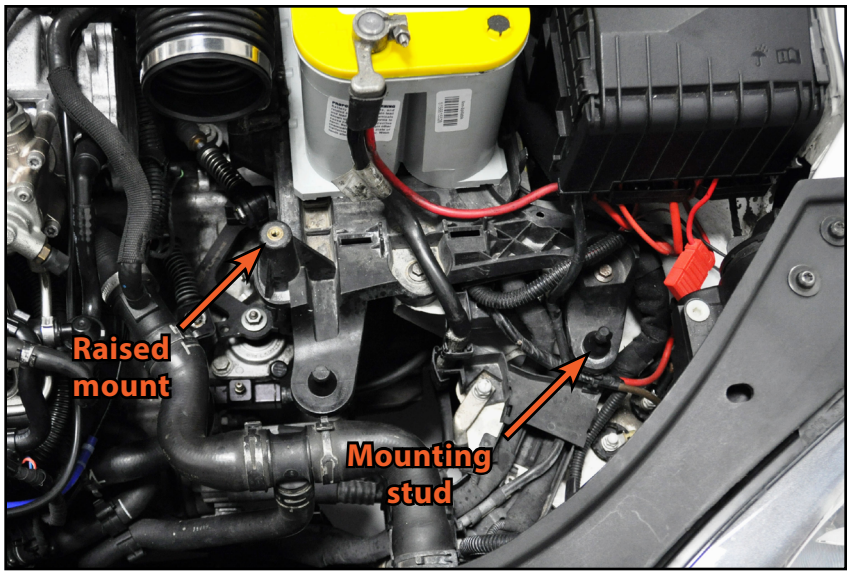
Step 10:

MK6 FSI only: Connect the DV hose to the fitting located on the new silicone turbo inlet hose.

INSTALLING THE NEW ECS INTAKE SYSTEM: LUFT-TECHNIK

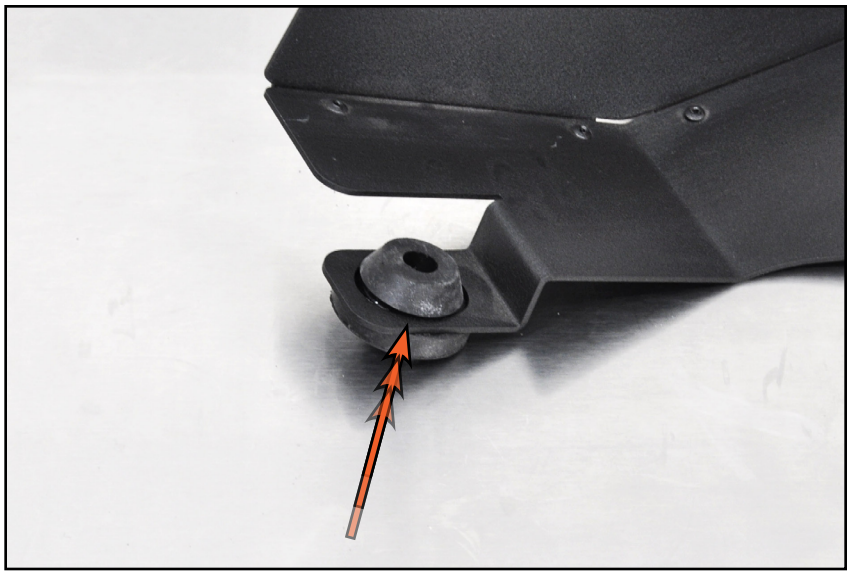
Step 11:

Note the locations of the mounting stud for the heat shield bracket, and the raised mount for the air filter pipe bracket, located on the battery tray.



Step 12:

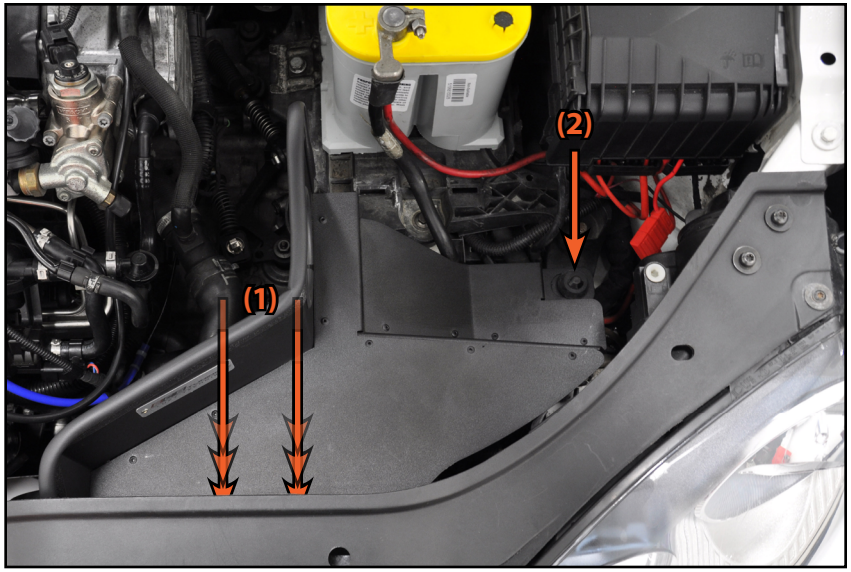
Push a grommet into the lower mounting tab of the heat shield as shown.



INSTALLING THE NEW ECS INTAKE SYSTEM: LUFT-TECHNIK

Step 13:

Slide the front of the heat shield into the radiator core support (1), then line up the grommet with the mounting stud and push down to pop it into place (2).



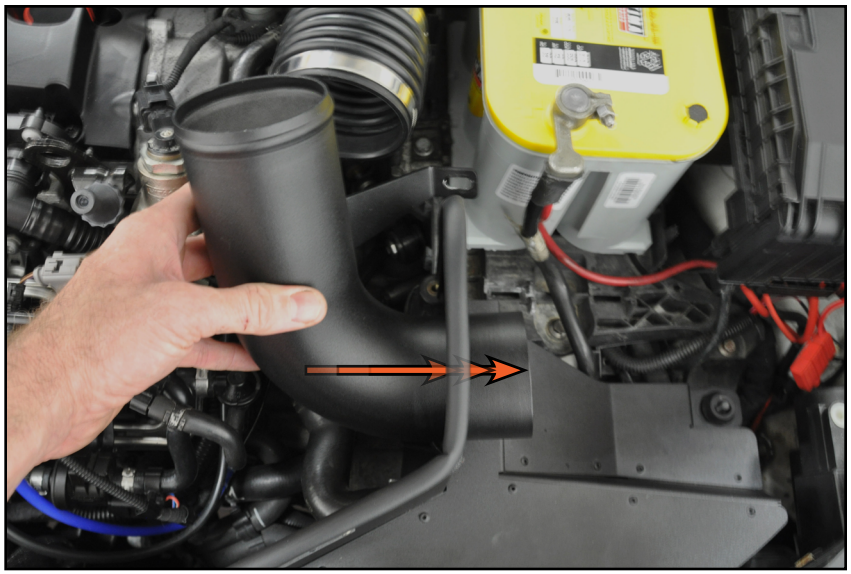
Step 14: T25 Torx

Install the mounting screws (arrows) through the front of the heat shield, and into the air intake duct mounting holes located on the radiator core support. Be careful not to over tighten these screws or you may strip the threads in the core support.

INSTALLING THE NEW ECS INTAKE SYSTEM: LUFT-TECHNIK

Step 15:

Place the flat (non-beaded) end of the lower intake tube through the opening in the heat shield.



TECH TIP

Use silicone spray lube on the rubber seal of the heat shield for ease of installation.

Step 16:

Rotate the lower intake tube downward and into the flex coupler as shown. Align the mounting bracket on the lower tube with the raised mount on the battery tray.

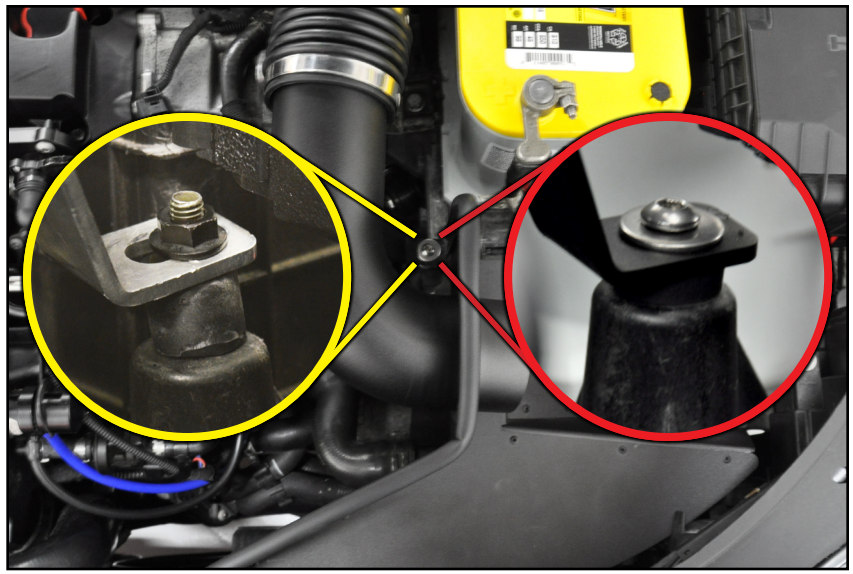
INSTALLING THE NEW ECS INTAKE SYSTEM: LUFT-TECHNIK

Step 17: 4mm Hex (Allen) - OR - 10mm Socket

Due to variations in fitment on the vehicles we've tested this system with, we have included two different options for mounting hardware. Select whichever option provides you with the best fitment.

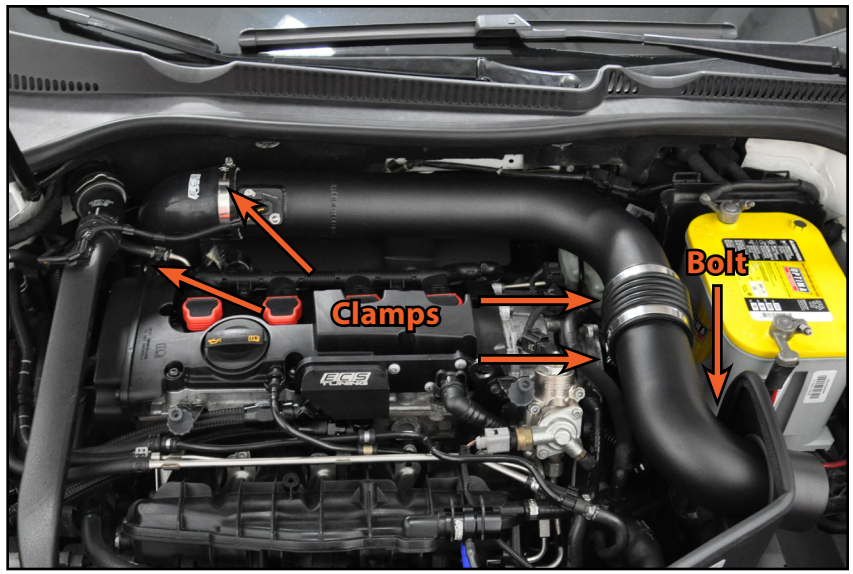
If you select the vibration damper (highlighted in **YELLOW** in the photo), thread the damper into the raised mount, then install the lower tube and install the nut into place.

If you select the rubber isolator (highlighted in **RED** in the photo), place the isolator between the lower intake tube bracket and the raised mount, then place the M6 steel washer onto an M6x16mm bolt, and install the bolt through the bracket and into the mount.



Step 18: 7mm Socket & Ratchet, 4mm Hex (Allen) - OR - 10mm Socket

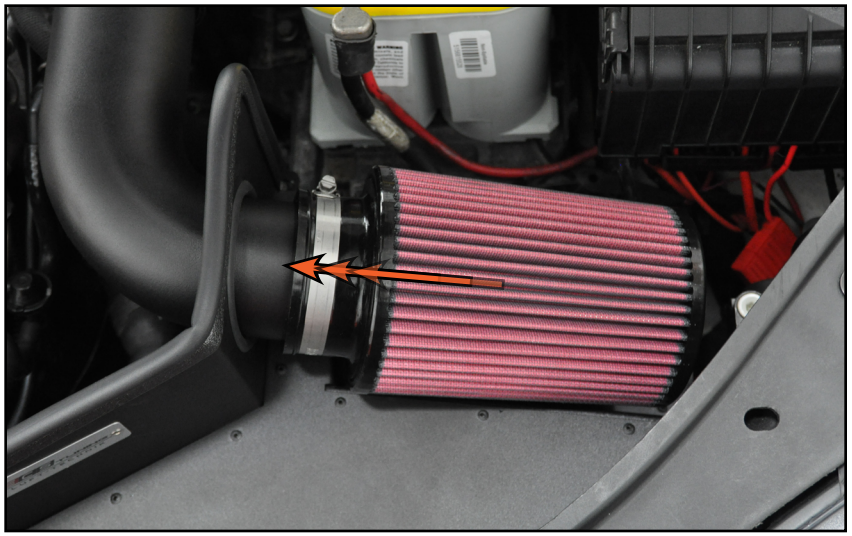
Make sure all hoses are properly positioned and aligned, then tighten all four hose clamps and the lower intake tube mounting hardware.



INSTALLING THE NEW ECS INTAKE SYSTEM: LUFT-TECHNIK

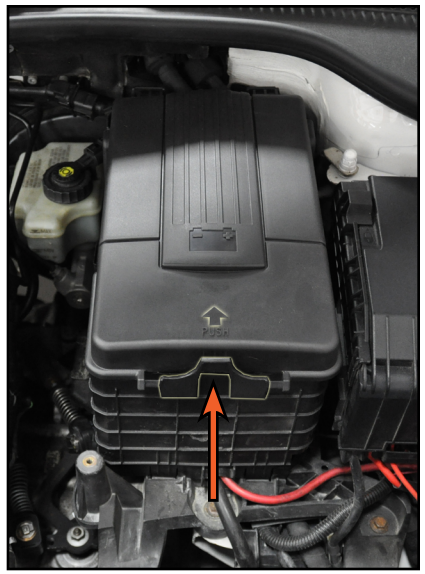
Step 19: 8mm Socket & Ratchet - OR - Flat Blade Screwdriver

Push the air filter onto the end of the lower intake tube, then tighten the clamp.



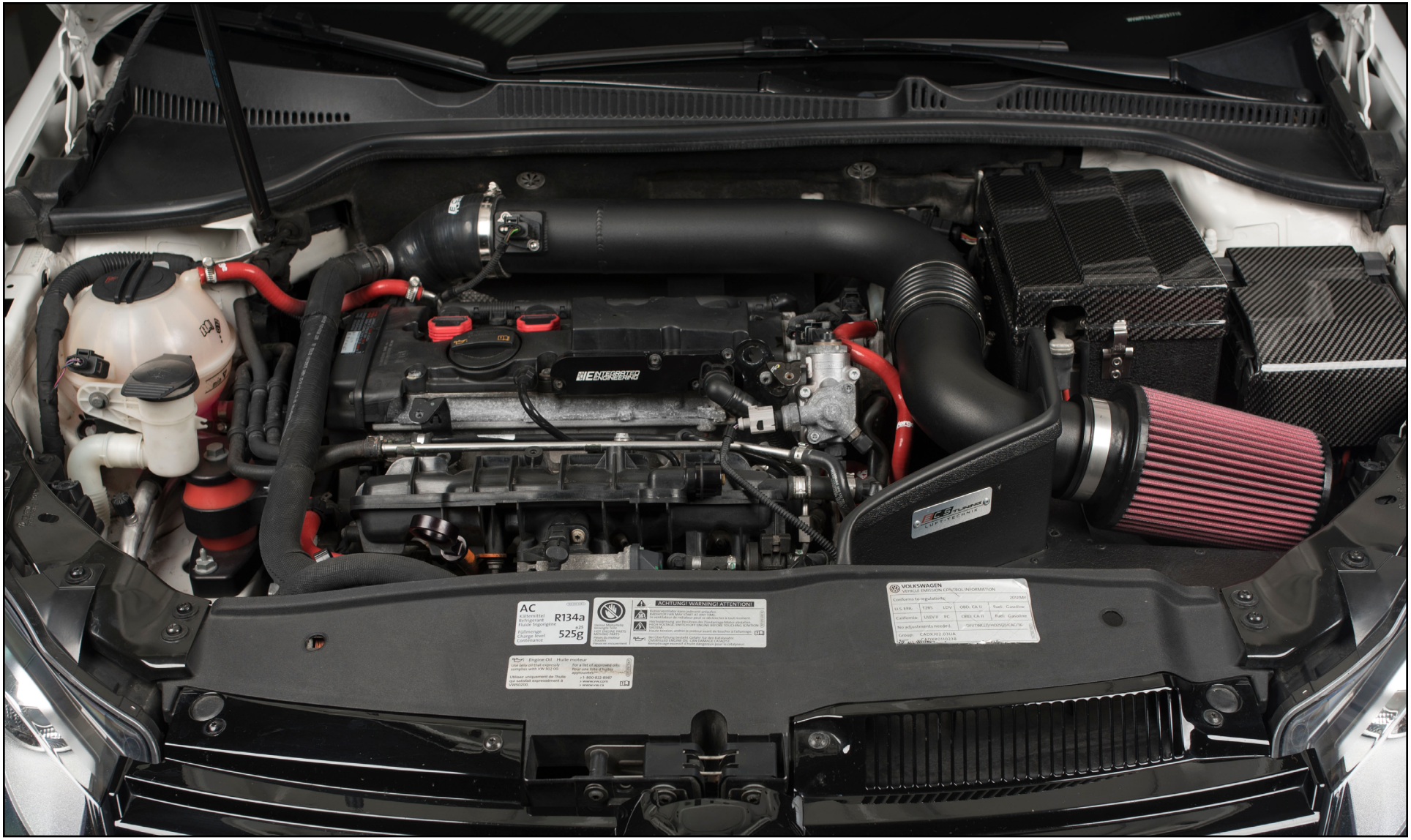
Step 20:

Reinstall the battery covers.



Your Luft-Technik Intake System installation is complete!

Your ECS 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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