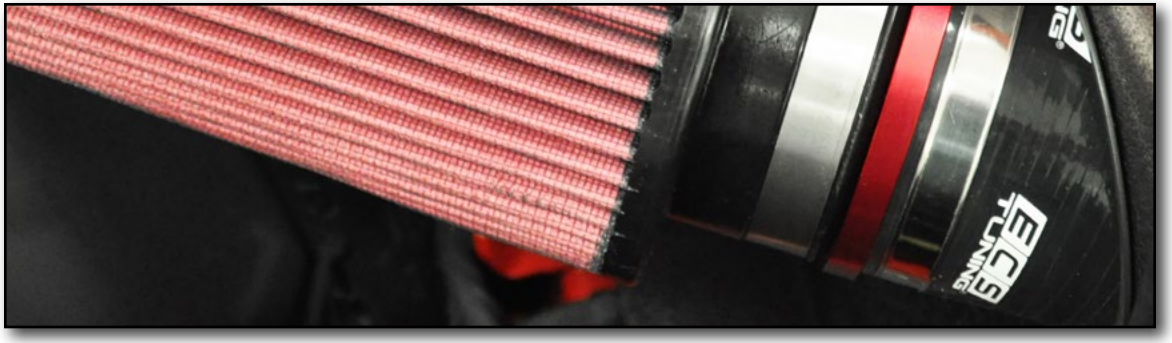
Audi B9 A4 2.0T
Luft-Technik Intake System
Installation Instructions



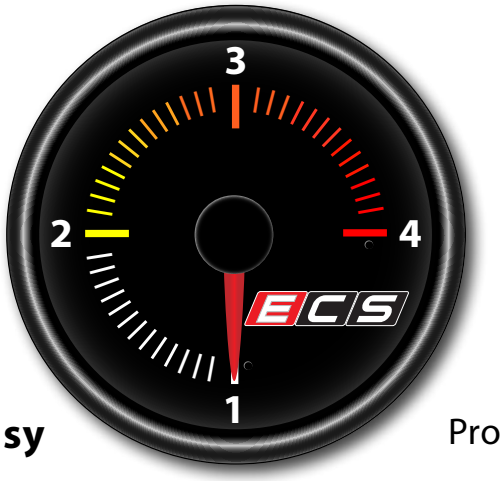
Proper service and repair procedures are vital to the safe, reliable operation of all motor vehicles as well as the personal safety of those performing the repairs. Standard safety procedures and precautions (including use of safety goggles and proper tools and equipment) should be followed at all times to eliminate the possibility of personal injury or improper service which could damage the vehicle or compromise its safety.

INTRODUCTION

ECS Tuning Luft-Technik Intake Systems

The art of engineering - the defining trait of ECS Tuning - has been skillfully applied to yet another canvas, with our new Audi B9 A4 Luft-Technik Intake System. A sleek, beautiful machine from the factory, the stock 2.0T performs well, but yearns for more. Our Luft-Technik Intake Systems have a track record of success, and our newest is no exception. Proven on the dyno and proven on the street, our new B9 A4 Luft-Technik Intake opens up a new world of performance for the 2.0T and compliments the lines and under hood style with tasteful precision. The easy installation, accurate fit, and affordable price make every aspect of it a winner, and prove once again that we are engineering works of art.

ECS Difficulty Gauge



1 - Easy

2 - Moderate

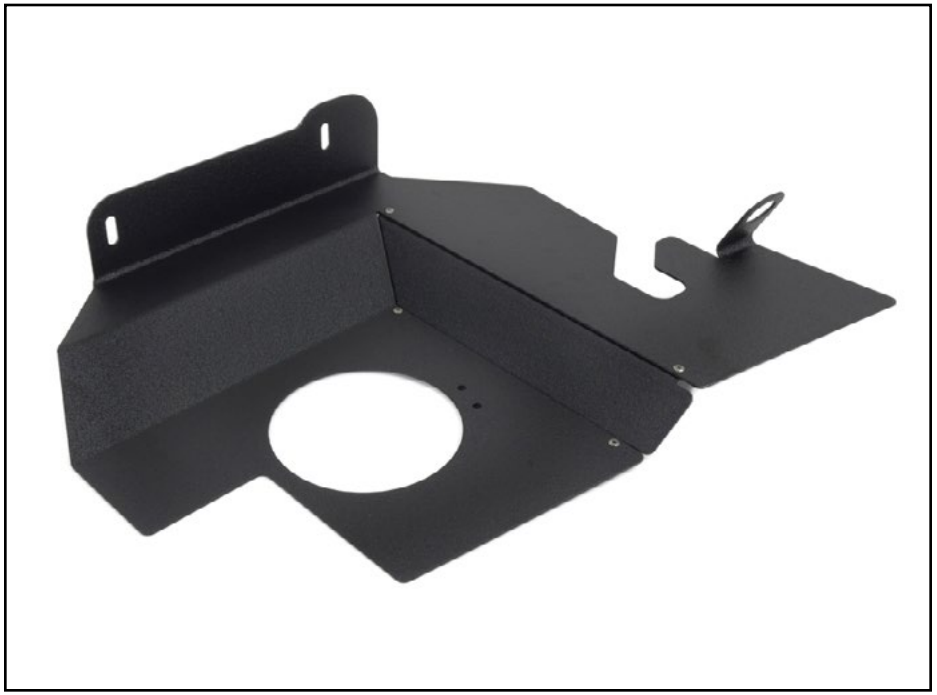
Advanced - 3

Pro - 4

Only a few basic tools are required for installation, and we'll walk you through it step by step. Once you get rolling, it'll come together quick, and you'll be cruising in no time. So let's get started! Scroll down and review the kit contents and required tools, check out the safety information, and Step 1 is the next thing in line! Thanks for looking to ECS Tuning for all your repair and maintenance needs. We appreciate your business!

TABLE OF CONTENTS

KIT CONTENTS



Primary Heat Shield
(QTY 1)

Air Shroud
(QTY 1)

High Flow Air Filter
(QTY 1)

Silicone Turbo Inlet Hose
(QTY 1)

Anodized Air Filter Coupler
(QTY 1)

Secondary Heat Shield
(QTY 1)

KIT CONTENTS (CONTINUED)

M6x50mm Screw
(QTY 1)

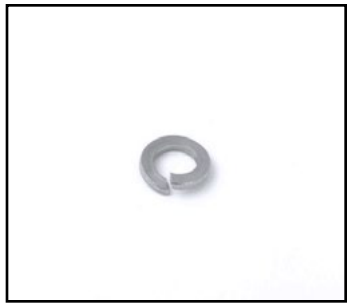
M6x60mm Screw
(QTY 1)

M6 Steel Flat Washer
(QTY 5)

M6 Lock Nut
(QTY 5)

M8x16mm Screw
(QTY 1)

M5x14mm Screw
(QTY 2)



M5 Lock Washer
(QTY 2)

Heat Shield Foot Adapter
(QTY 2)

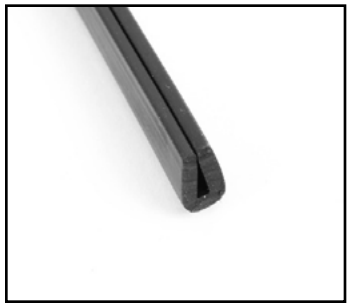
Heat Shield Grommet
(QTY 1)

90° Elbow Fitting
(QTY 1)

60-80mm Hose Clamp
(QTY 1)

70-90mm Hose Clamp
(QTY 1)

Downpipe Nut
(QTY 1)



24" Length Edge Seal
(QTY 1)

31" Length Bulb Seal
(QTY 1)

REQUIRED TOOLS

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

Standard Automotive Tools

Required For This Install

Available On Our Website

- 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
- **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
- **Razor Blade**
- Punch and Chisel Set
- **Hex Bit (Allen) Wrenches and Sockets** ES#11420
- Thread Repair Tools ES#1306824
- **Open/Boxed End Wrench Set** ES#2765907

SHOP SUPPLIES AND MATERIALS

Standard Shop Supply Recommendations: We recommend that you have a standard inventory of automotive shop supplies before beginning this or any automotive repair procedure. The following list outlines the basic shop supplies that we like to keep on hand. Shop supplies with a hyperlink are available on our website.

- Hand Cleaner/Degreaser - Click Here
- Pig Mats - for protecting your garage floor and work area from spills and stains - Click Here
- Spray detailer - for rapid cleaning of anything that comes into contact with your paint such as brake fluid - Click Here
- Micro Fiber Towels - for cleaning the paint on your car - Click Here
- Latex Gloves - for the extra oily and dirty jobs - Click Here
- Medium and High Strength Loctite Thread lock compound - to prevent bolts from backing out - Click Here
- Anti-Seize Compound - to prevent seizing, galling, and corrosion of fasteners - Click Here
- Aerosol Brake/Parts Cleaner - for cleaning and degreasing parts
- Shop Rags - used for wiping hands, tools, and parts
- Penetrating oil - for helping to free rusted or stuck bolts and nuts
- Mechanics wire - for securing components out of the way
- Silicone spray lube - for rubber components such as exhaust hangers
- Paint Marker - for marking installation positions or bolts during a torquing sequence
- Plastic Wire Ties/Zip Ties - for routing and securing wiring harnesses or vacuum hoses
- Electrical tape - for wrapping wiring harnesses or temporary securing of small components

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.

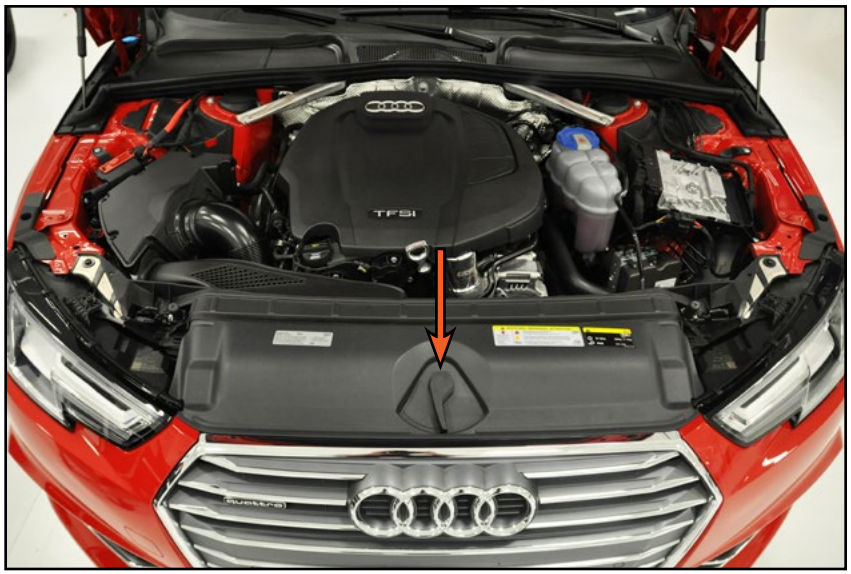
- Park your car in a safe, well lit, level area.
- Shut the engine off and remove the key from the ignition switch.
- Make sure any remote start devices are properly disabled.
- **ALWAYS** wear safety glasses.
- Make sure the parking brake is applied until the vehicle is safely lifted and supported.
- If using an automotive lift, be sure and utilize the factory specified lift points. Lifting a vehicle in an incorrect location can cause damage to the suspension/running gear.
- When lifting a vehicle using a jack, always 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

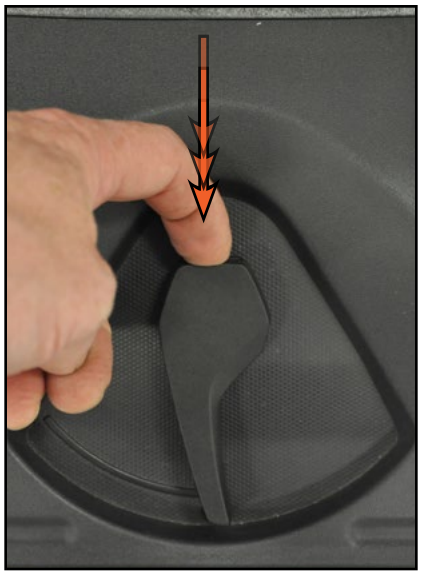
Step 1:

Look along the back edge of the hood release lever and you will see a release button.



Step 2:

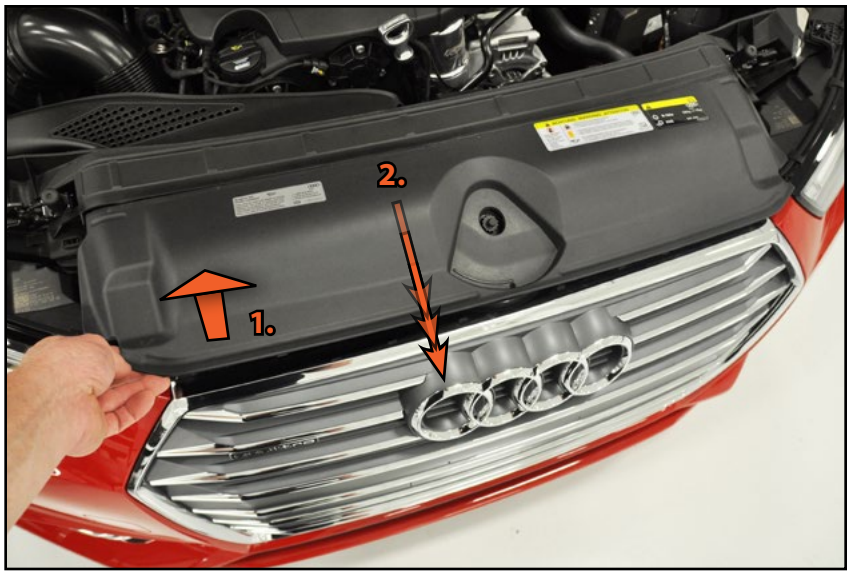
Push in on the button with your finger, then pull the release lever off.



REMOVING THE ORIGINAL INTAKE

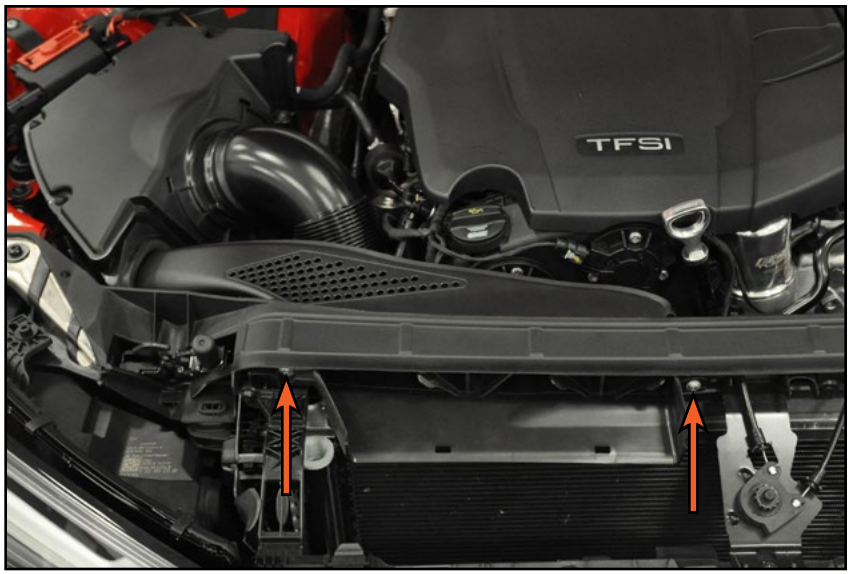
Step 3:

Remove the radiator shroud by pulling up on the front edge to unclip it from the grille, then pull it forward to slide it out of the core support.



Step 4: T25 Torx

Remove the two intake duct screws.



REMOVING THE ORIGINAL INTAKE

Step 5:

Pull the intake duct back from the core support, then pull it out of the air box.

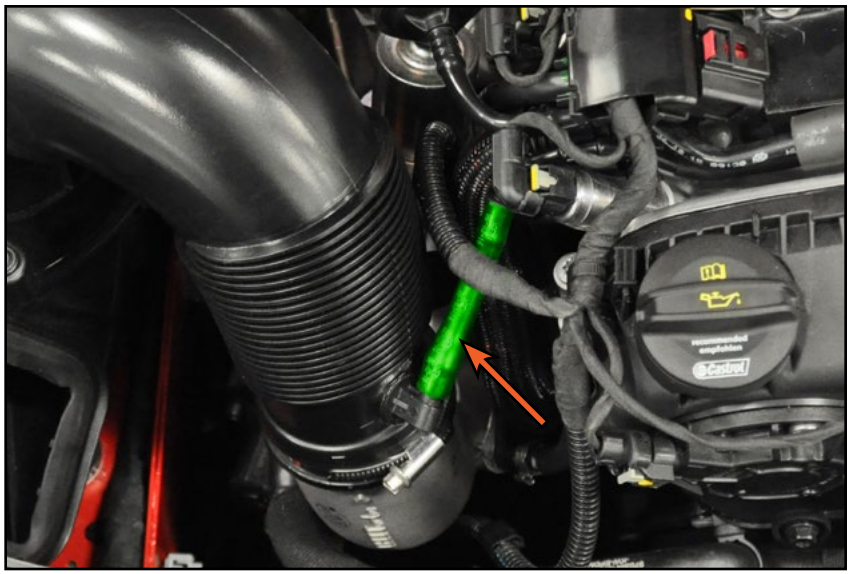
Step 6:

Remove the engine cover by pulling up at the four corners.

REMOVING THE ORIGINAL INTAKE

Step 7: Small Flat Blade Screwdriver

Locate the vent tube (highlighted) that attaches to the turbo inlet pipe elbow, then carefully remove it from the elbow.



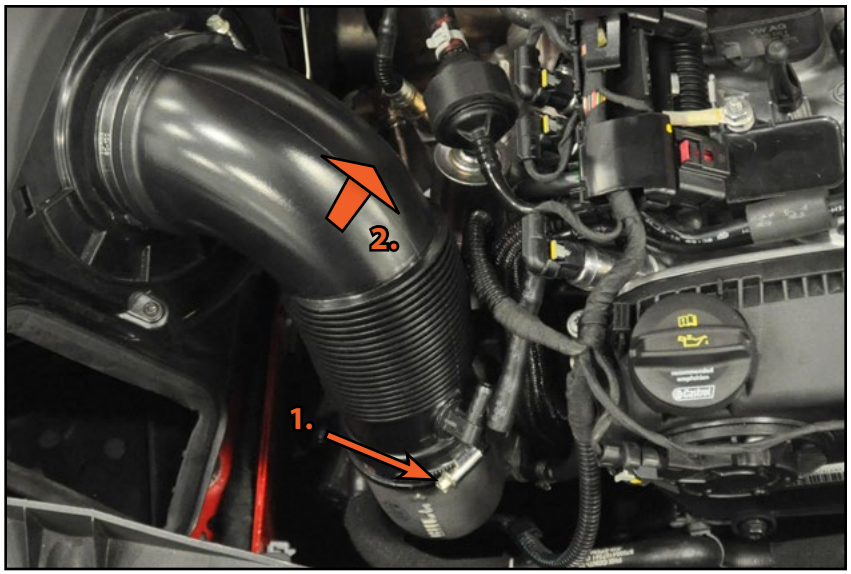
Step 8: Flat Blade Screwdriver -or- 7mm Socket & Ratchet

Loosen the upper hose clamp on the turbo inlet pipe at the air box.

REMOVING THE ORIGINAL INTAKE

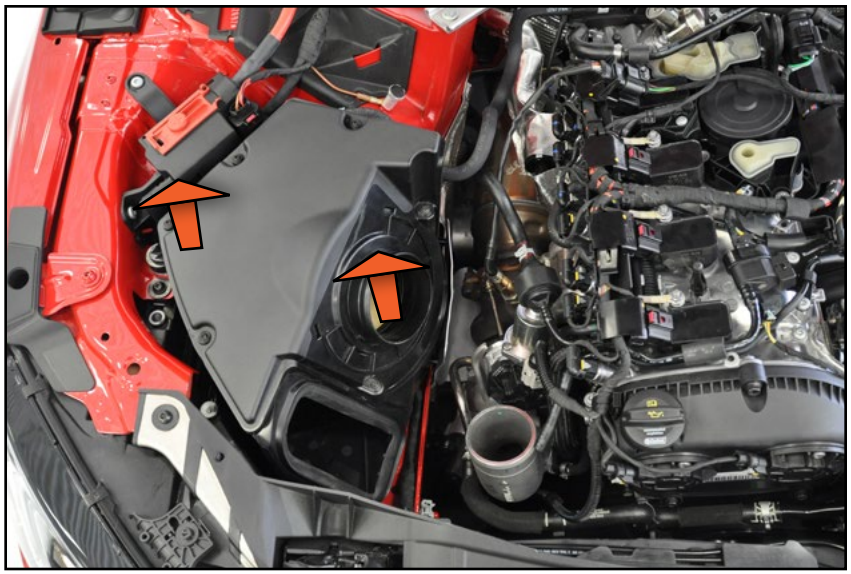
Step 9: Flat Blade Screwdriver -or- 7mm Socket & Ratchet

Loosen the lower hose clamp on the turbo inlet pipe at the turbo, then remove the pipe from the vehicle.



Step 10:

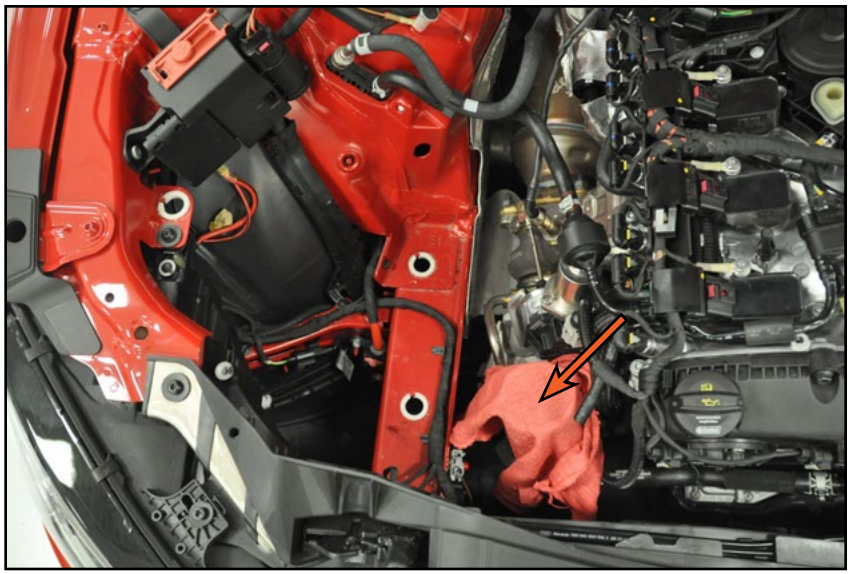
Now, simply pull straight up on the air box with both hands and remove it.



REMOVING THE ORIGINAL INTAKE

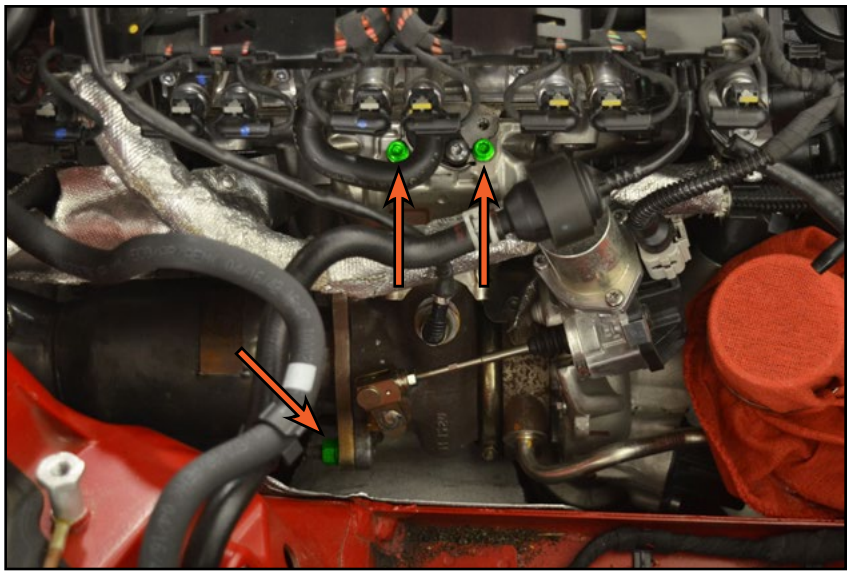
Step 11:

Place a rag over the turbo inlet to prevent anything from falling into it.



Step 12: 5mm Allen, 15mm Wrench

Remove the two screws (arrows) from the original turbo heat shield, then remove the RH nut from the downpipe (the nut and bolts are highlighted in GREEN in the photo). Discard the downpipe nut, we've included a replacement in the kit. Set the bolts aside, you'll be using them in just a few steps.

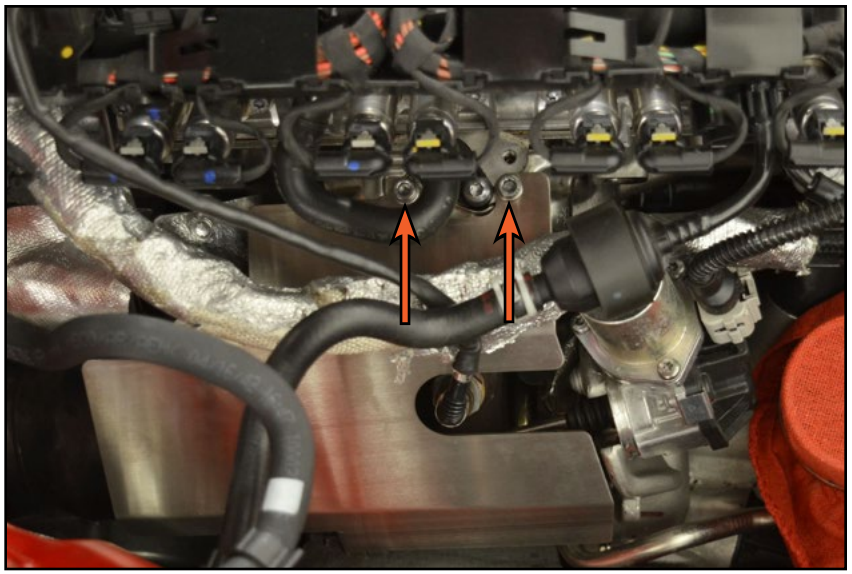


Removal is complete, you're ready to install the new intake!

INSTALLING THE NEW LUFT-TECHNIK INTAKE

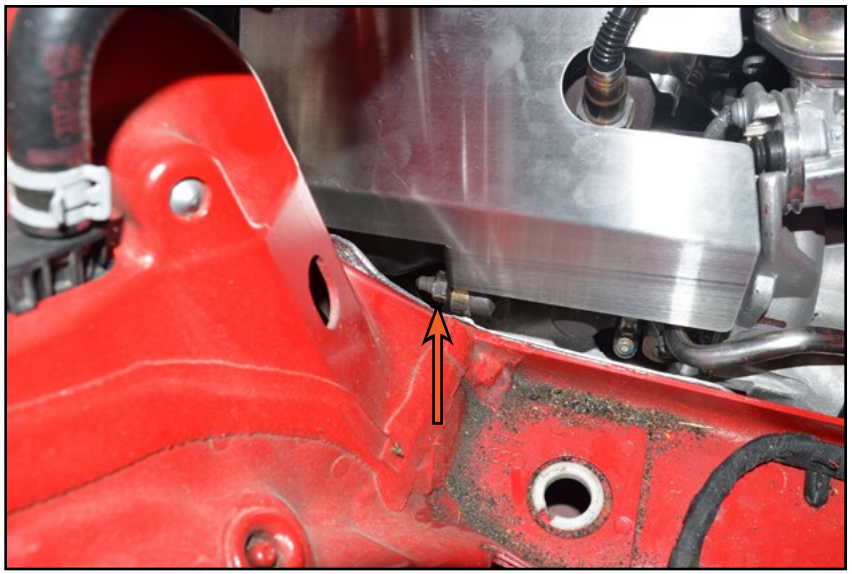
Step 1: 5mm Allen

Carefully guide the ECS secondary heat shield into place as shown, using caution not to snag any wires or scratch the paint with the edges of the shield. Line up the two bolt holes on the top of the shield and the hole for the downpipe stud (not shown), then loosely install the two Allen screws that you just removed.



Step 2: 15mm Wrench

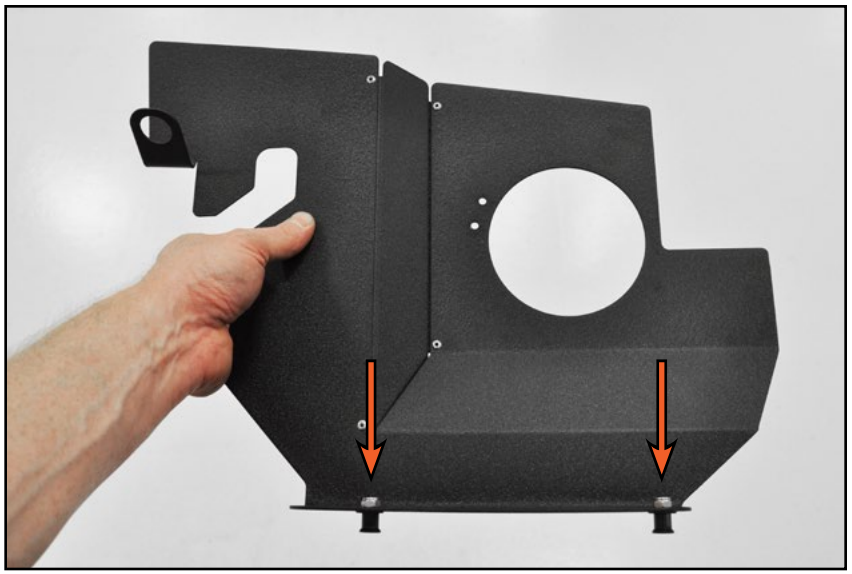
Install the new downpipe nut onto the stud and tighten it until snug. Tighten the two Allen screws that you just installed (not shown).



INSTALLING THE NEW LUFT-TECHNIK INTAKE

Step 3:

Using four M6 washers and two M6 Nyloc nuts, install the two heat shield foot adapters into the elongated slots in the primary heat shield. Be sure to locate a washer on the top and bottom of the heat shield for each foot.

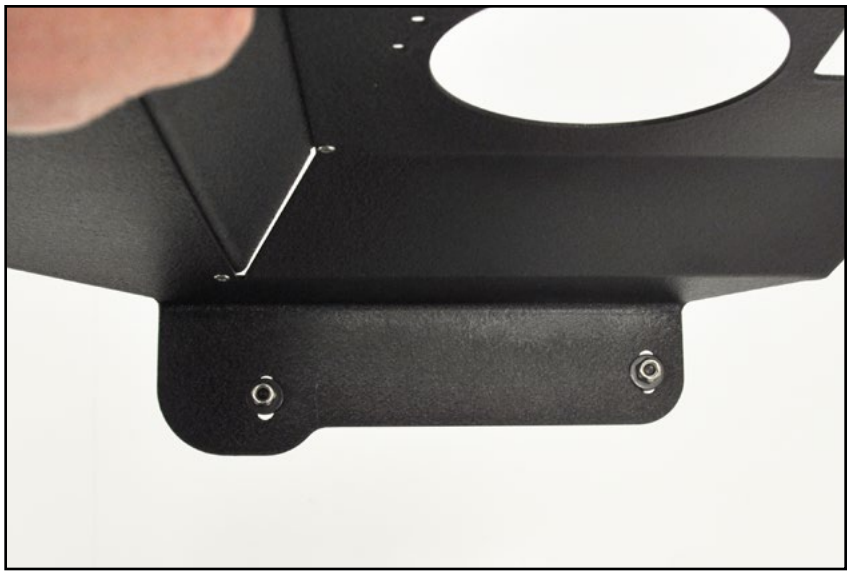


NOTE

If you have purchased the optional Reflect-A-Gold kit (ES#3173675), refer to Page 27 and install it at this time.

Step 4: 8mm, 10mm Wrenches

Make sure the feet are centered in the slots as shown, then hold them stationary while tightening the Nyloc nuts.

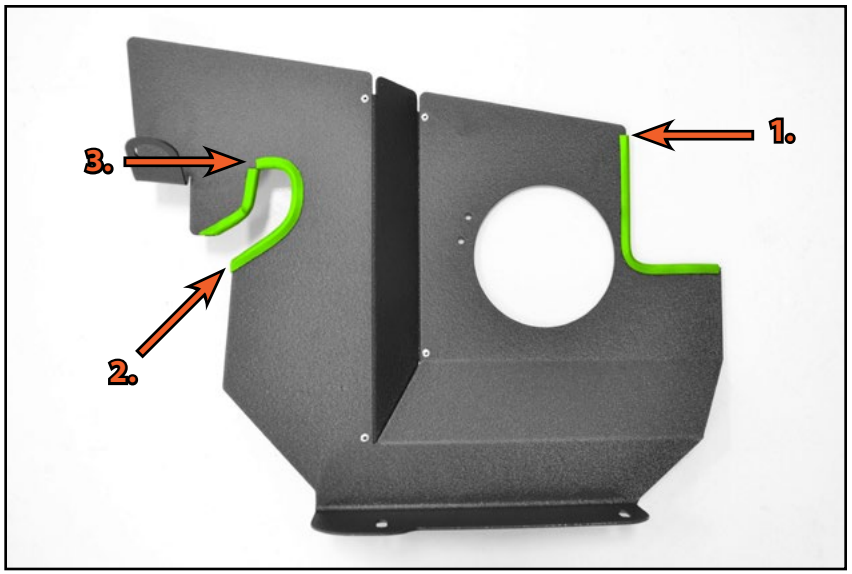


INSTALLING THE NEW LUFT-TECHNIK INTAKE

Step 5: Razor Blade

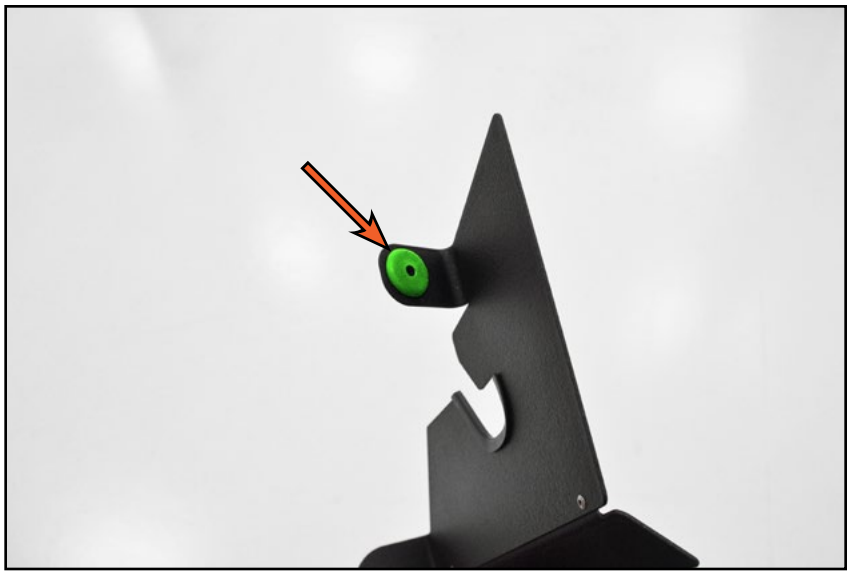
Install the small edge seal (highlighted) onto the primary heat shield in the areas shown, cutting it to length as required. Note the following:

1. Leave enough of a gap at the top to install the bulb seal.
2. Leave enough of a gap by these mounting holes to install the anodized air filter coupler.
3. We chose to install the edge seal in two pieces around the hole for the fuel lines. This is optional, but it does make it easier to install.



Step 6:

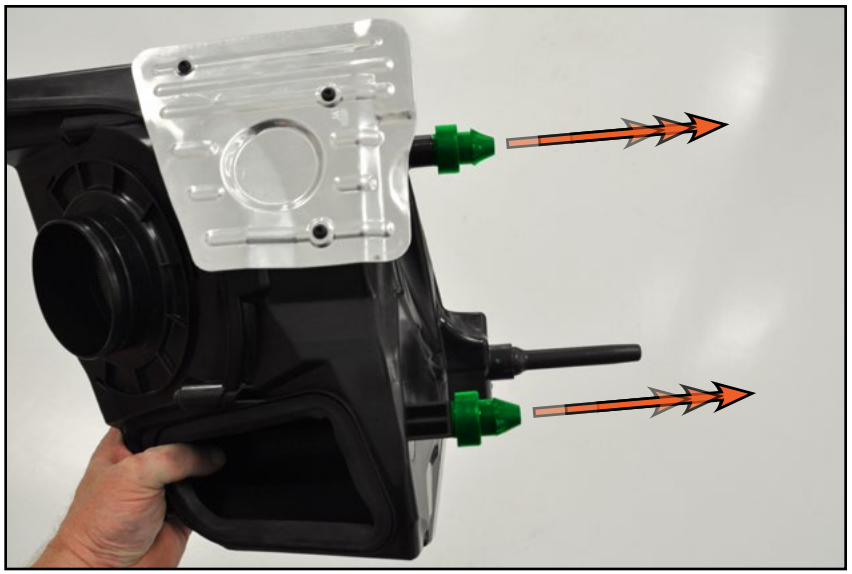
Install the grommet into the ear of the primary heat shield.



INSTALLING THE NEW LUFT-TECHNIK INTAKE

Step 7:

Pull the two rubber mounts off the bottom of the original air box.

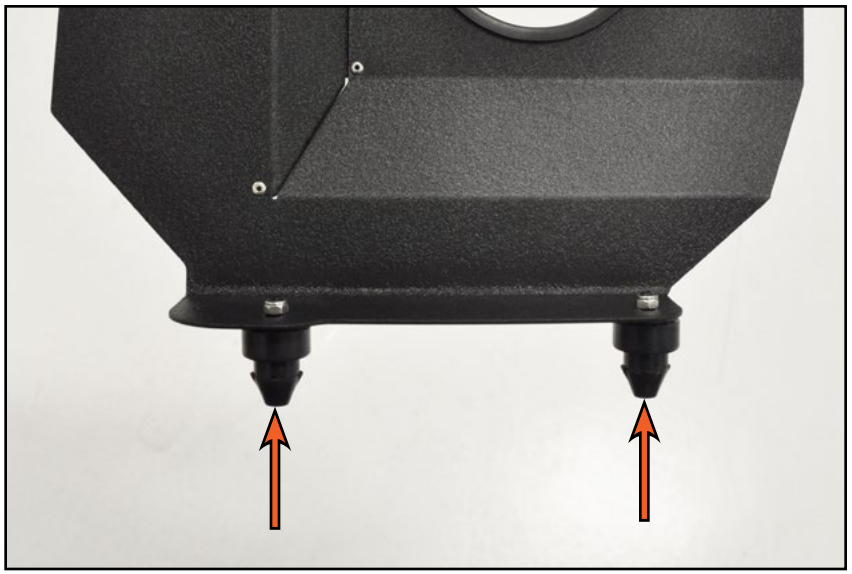


NOTE

If either of these mounts is missing, check the frame rail on the car. Occasionally they stick in place instead of coming off with the air box.

Step 8:

Push the rubber mounts onto the foot adapters of the primary heat shield.



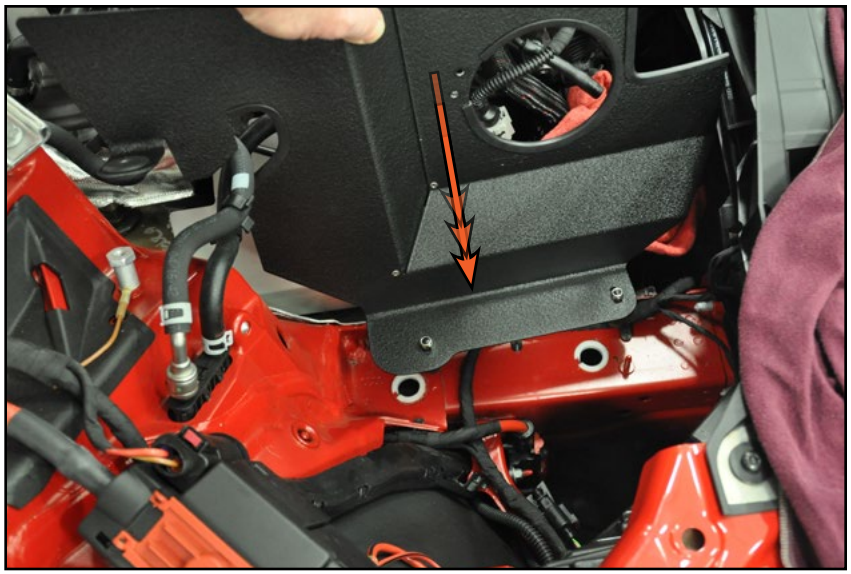
INSTALLING THE NEW LUFT-TECHNIK INTAKE

Step 9: Small Flat Blade Screwdriver

Pry the plastic cap out of the negative jump-start boss. With the cap removed, notice the threads in the center.

Step 10:

Install the primary heat shield into place by lining up the rubber mounts with the holes in the frame horn, guiding the fuel lines into the heat shield cut out, then pushing it down into place until the mounts are fully seated.



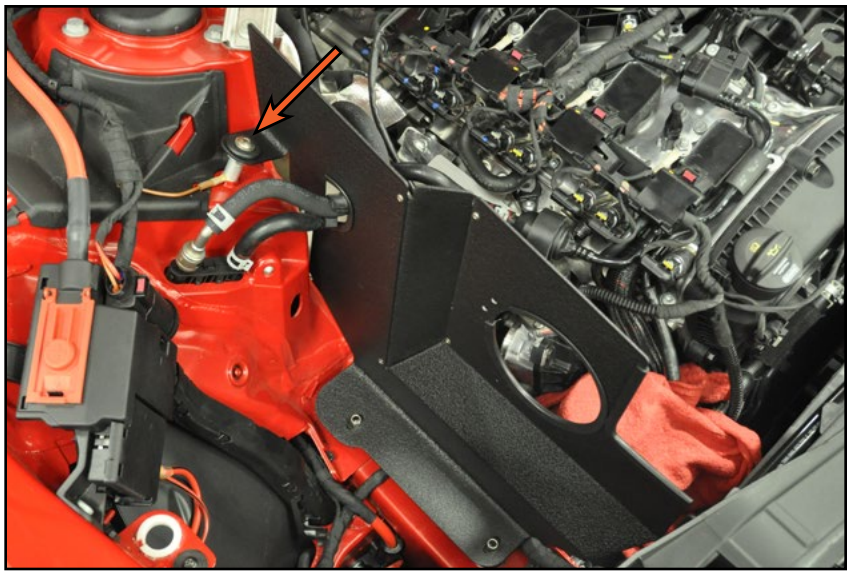
NOTE

The photos which follow will show the small edge seal installed in the round hole in the heat shield. The seal no longer needs to be installed there and it can be ignored.

INSTALLING THE NEW LUFT-TECHNIK INTAKE

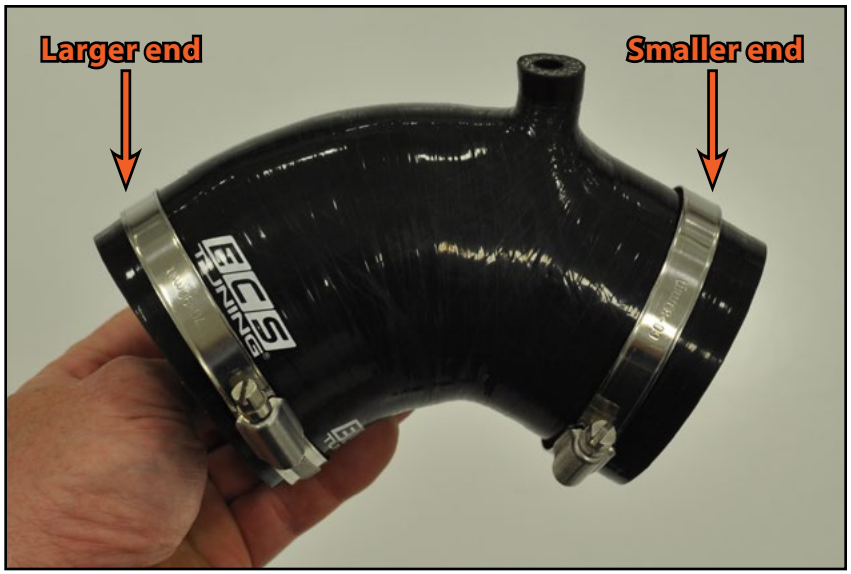
Step 11: 5mm Allen Wrench

Install and tighten the M8x1.25 grommet bolt.



Step 12:

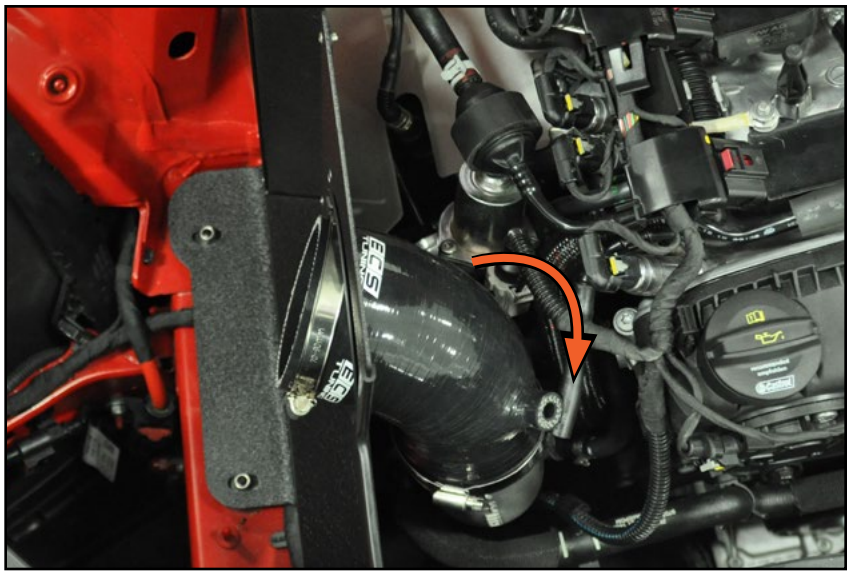
Place the hose clamps over the end of the silicone turbo inlet hose. Be sure and place the 70-90mm hose clamp over the larger end and the 60-80mm hose clamp over the smaller end.



INSTALLING THE NEW LUFT-TECHNIK INTAKE

Step 13:

Remove the rag that is covering the turbo inlet, then route the turbo inlet hose through the primary heat shield and push it into place on the turbo. Do not tighten the clamp at this time.



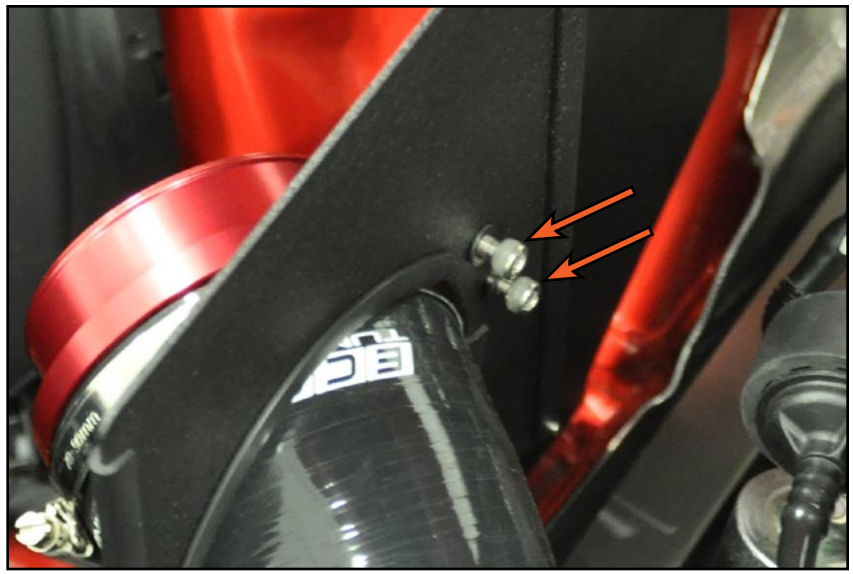
Step 14:

Push the air filter coupler into the end of the silicone turbo inlet hose so the coupler mounting pad is flush with the surface of the primary heat shield. Do not tighten the clamp at this time.

INSTALLING THE NEW LUFT-TECHNIK INTAKE

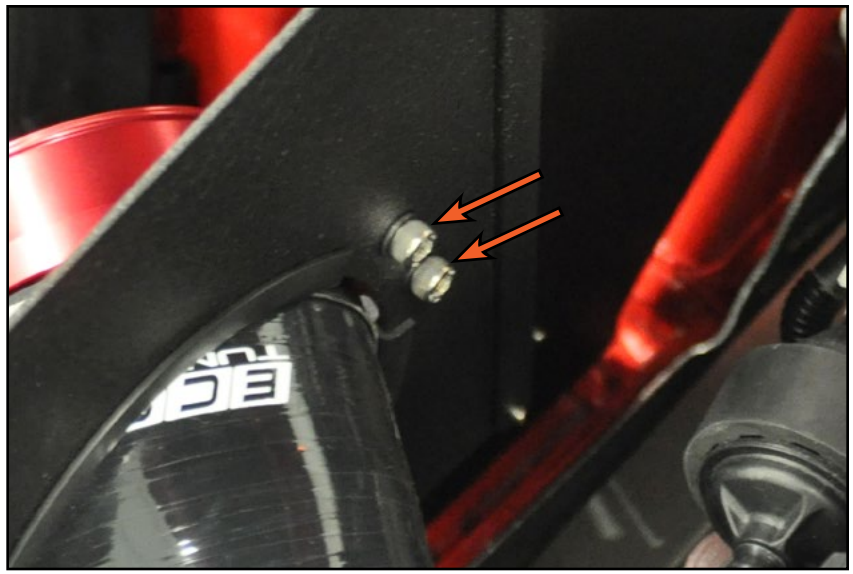
Step 15:

Place an M5 lock washer onto each of the M5 hex screws, then start both screws through the primary heat shield and into the air filter coupler. If the air filter coupler is properly lined up with the primary heat shield, both screws should start easily and thread in smoothly.



Step 16: 4mm Allen Wrench

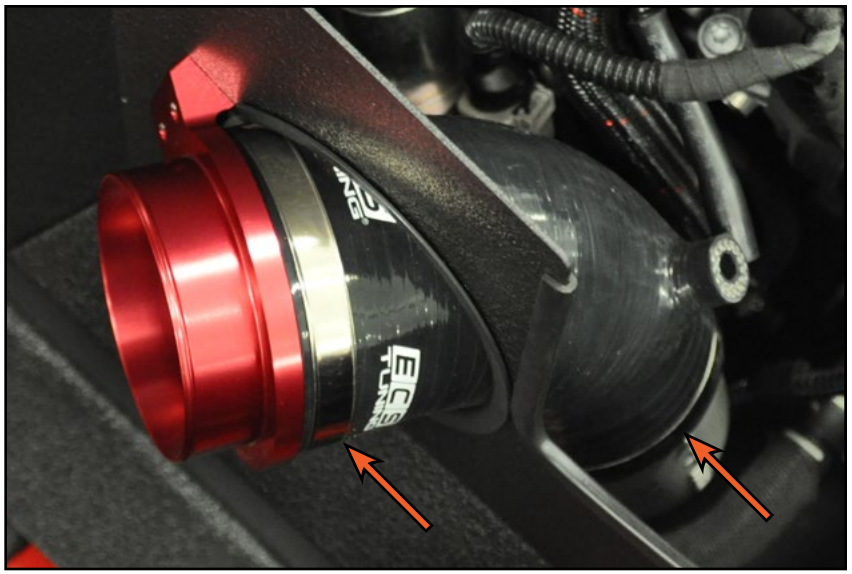
Tighten both of the air filter coupler screws.



INSTALLING THE NEW LUFT-TECHNIK INTAKE

Step 17: Flat Blade Screwdriver

Align the clamps on the top and bottom of the turbo inlet hose, then fully tighten them. As you can see here, we have rotated them so the clamp drive is underneath, providing a clean look.



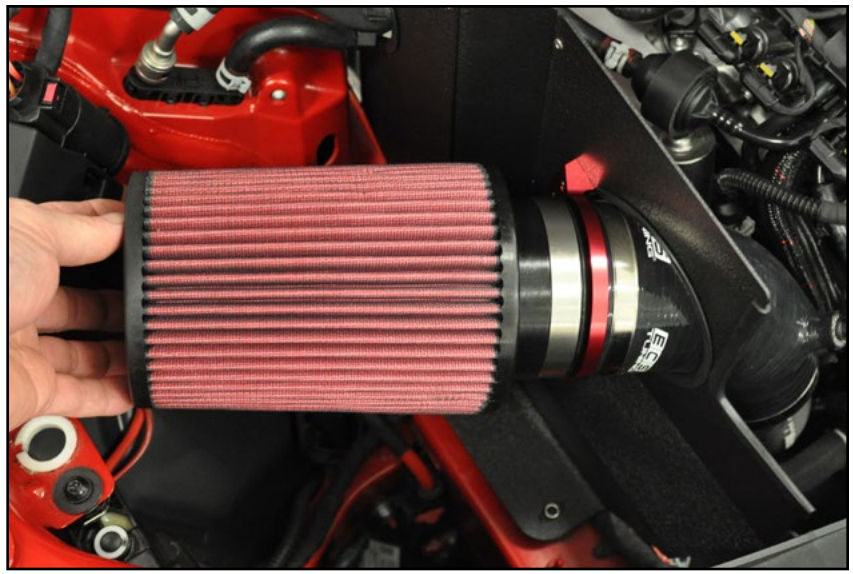
Step 18:

Push the 90 degree elbow into the silicone turbo inlet hose and reconnect the vent tube.

INSTALLING THE NEW LUFT-TECHNIK INTAKE

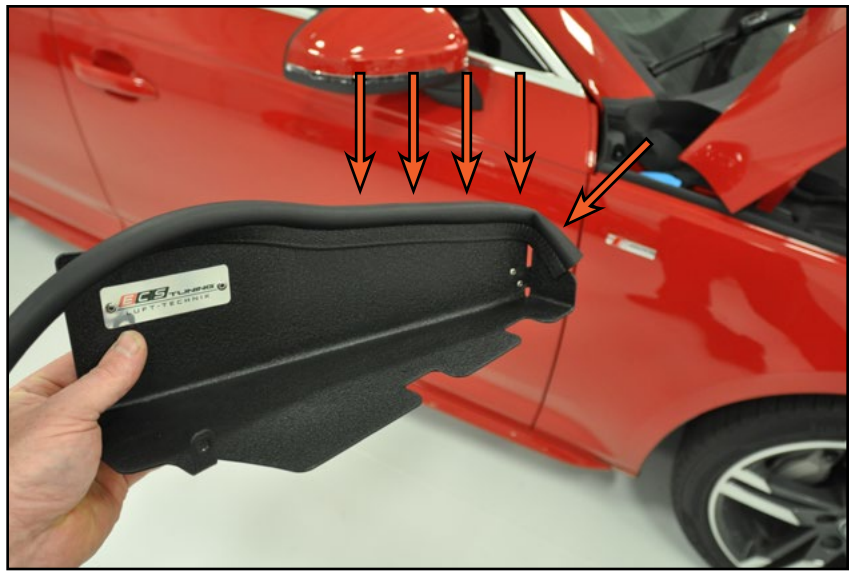
Step 19: Flat Blade Screwdriver

Push the air filter onto the end of the coupler, then tighten the filter clamp. As seen here, push the filter on by the end. Do not hold it by the pleats. They will easily distort and bend, and take away from the clean look. Also as we did with the turbo inlet hose, we rotated the clamp drive underneath before we tightened it.



Step 20:

Start the bulb seal onto the air shroud by pushing it on at the front corner, as shown in the picture.

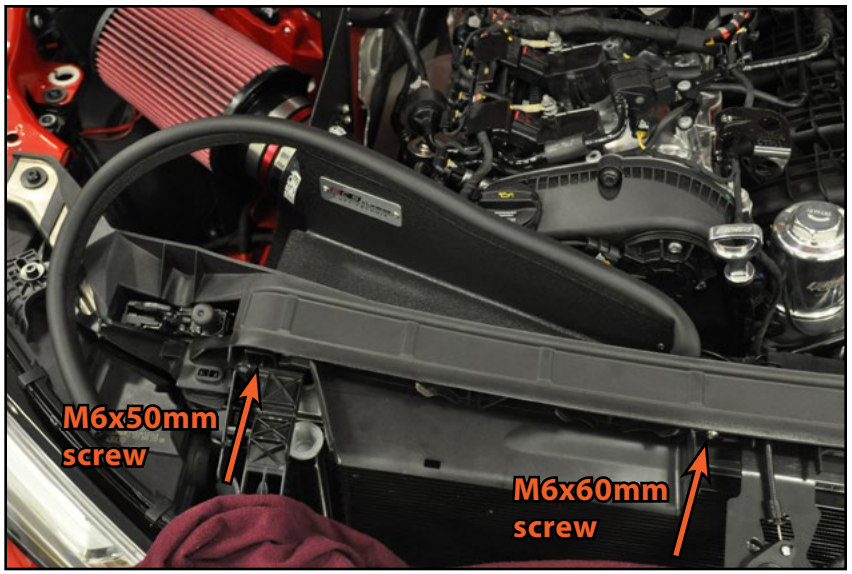


INSTALLING THE NEW LUFT-TECHNIK INTAKE

Step 21: 4mm Allen, 10mm Box Wrench

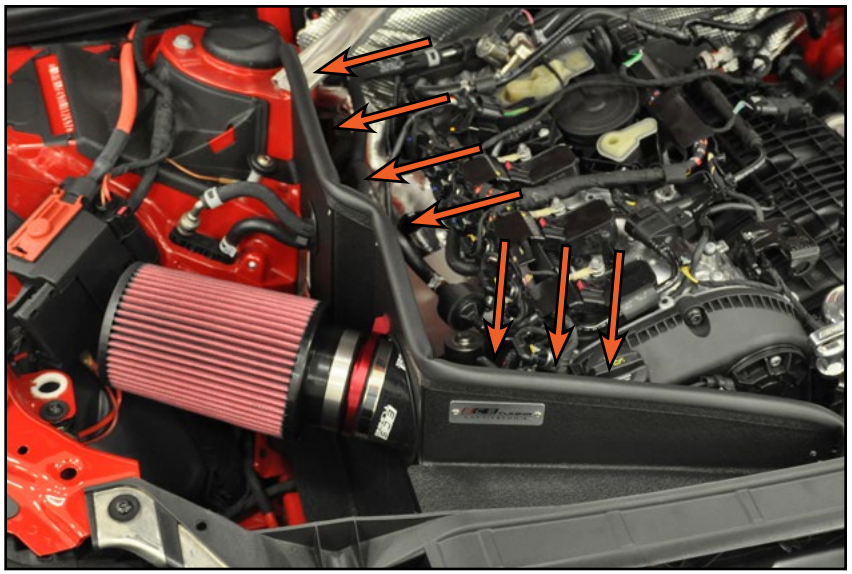
Position the air shroud in place, making sure to tuck the bulb seal under the core support. Install the air shroud screws through the core support and into the air shroud in the locations shown in the picture.

Finally, install an M6 washer and Nyloc nut onto each screw and tighten the air shroud in place.



Step 22:

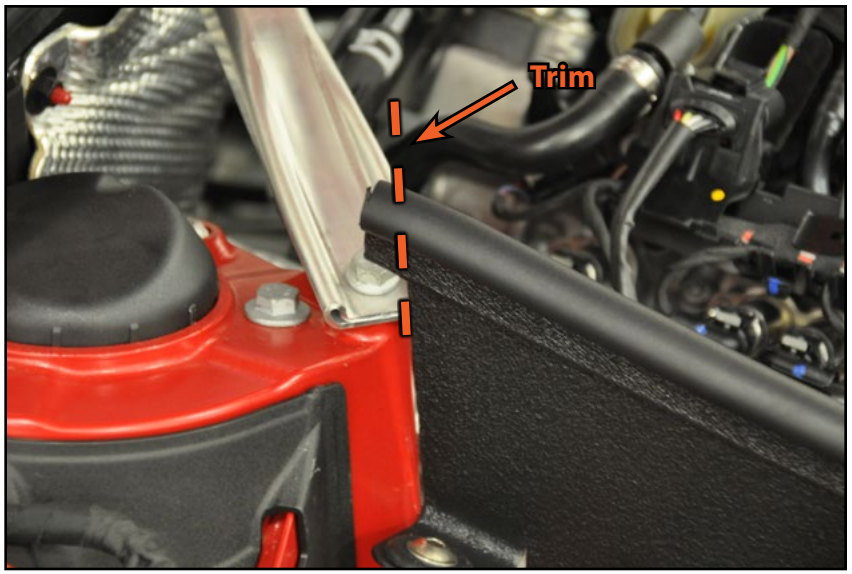
Push the rest of the bulb seal in place along the top of the air shroud and primary heat shield.



INSTALLING THE NEW LUFT-TECHNIK INTAKE

Step 23: Side Cutters

Trim the end of the bulb seal so it is flush with the end of the primary heat shield.



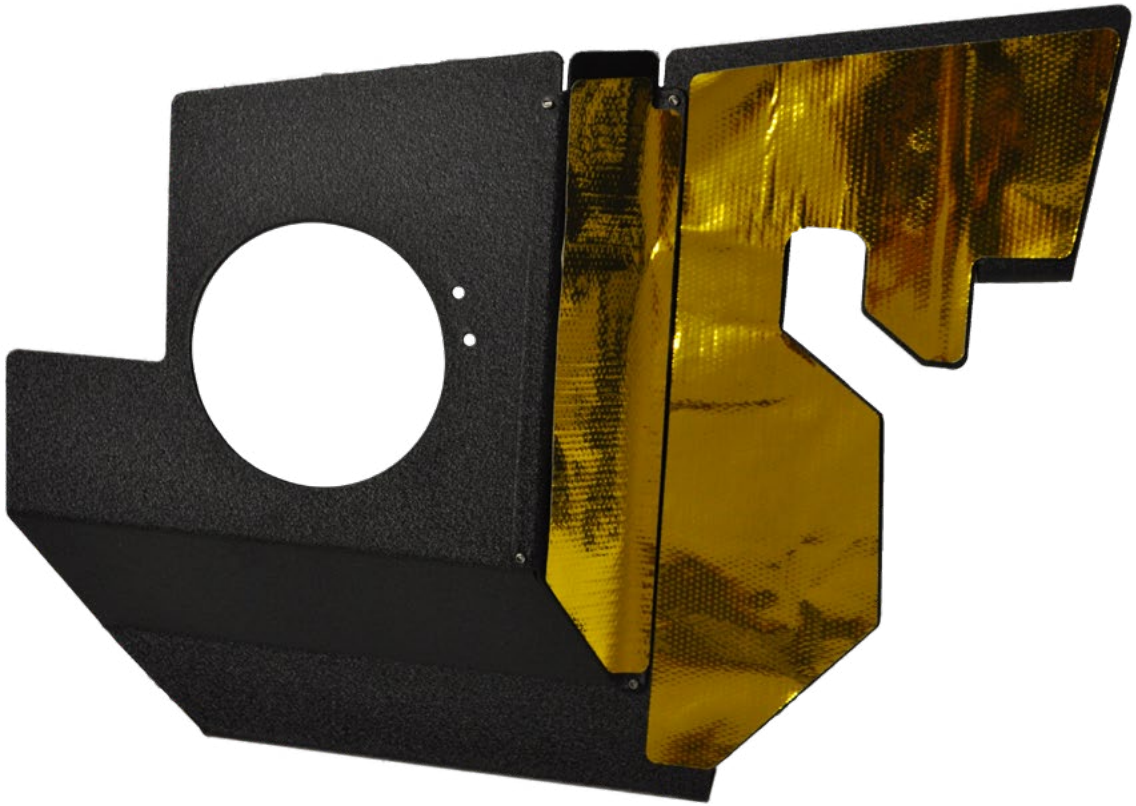
Step 24:

Reinstall the radiator shroud and hood release lever.

Your Luft-Technik Intake installation is complete!

REFLECT-A-GOLD INSTALLATION

If you have purchased the optional Reflect-A-Gold heat deflection, apply it to the primary heat shield in the locations shown. Be sure to wipe the surface of the heat shield clean with a surface prep solvent or an alcohol wipe to remove any traces of oil or contaminants. Line it up, making sure to leave room at the top for the bulb seal, remove the backing and carefully apply it, smoothing out any wrinkles along the way.



Click HERE to return to Installation Step 3:

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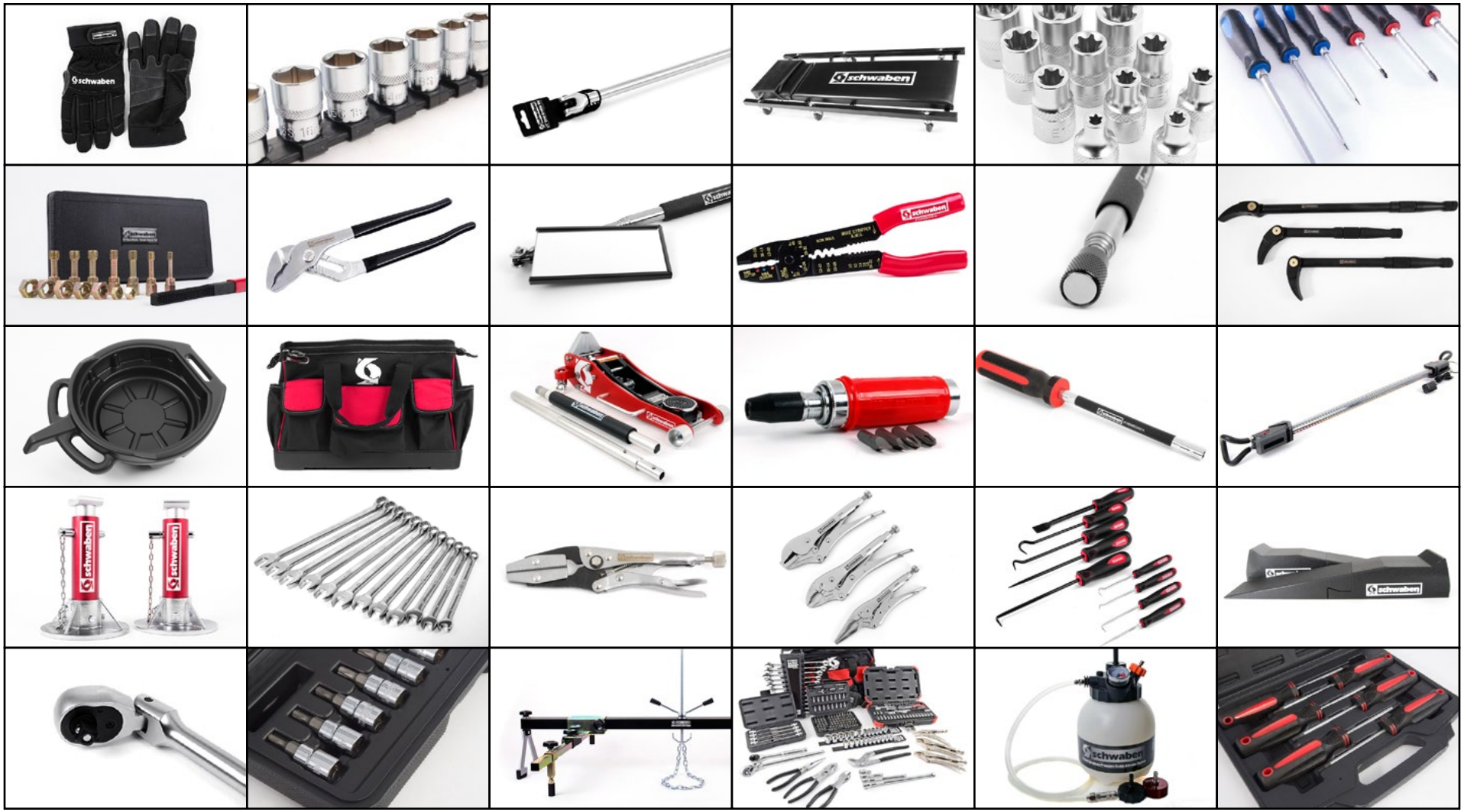
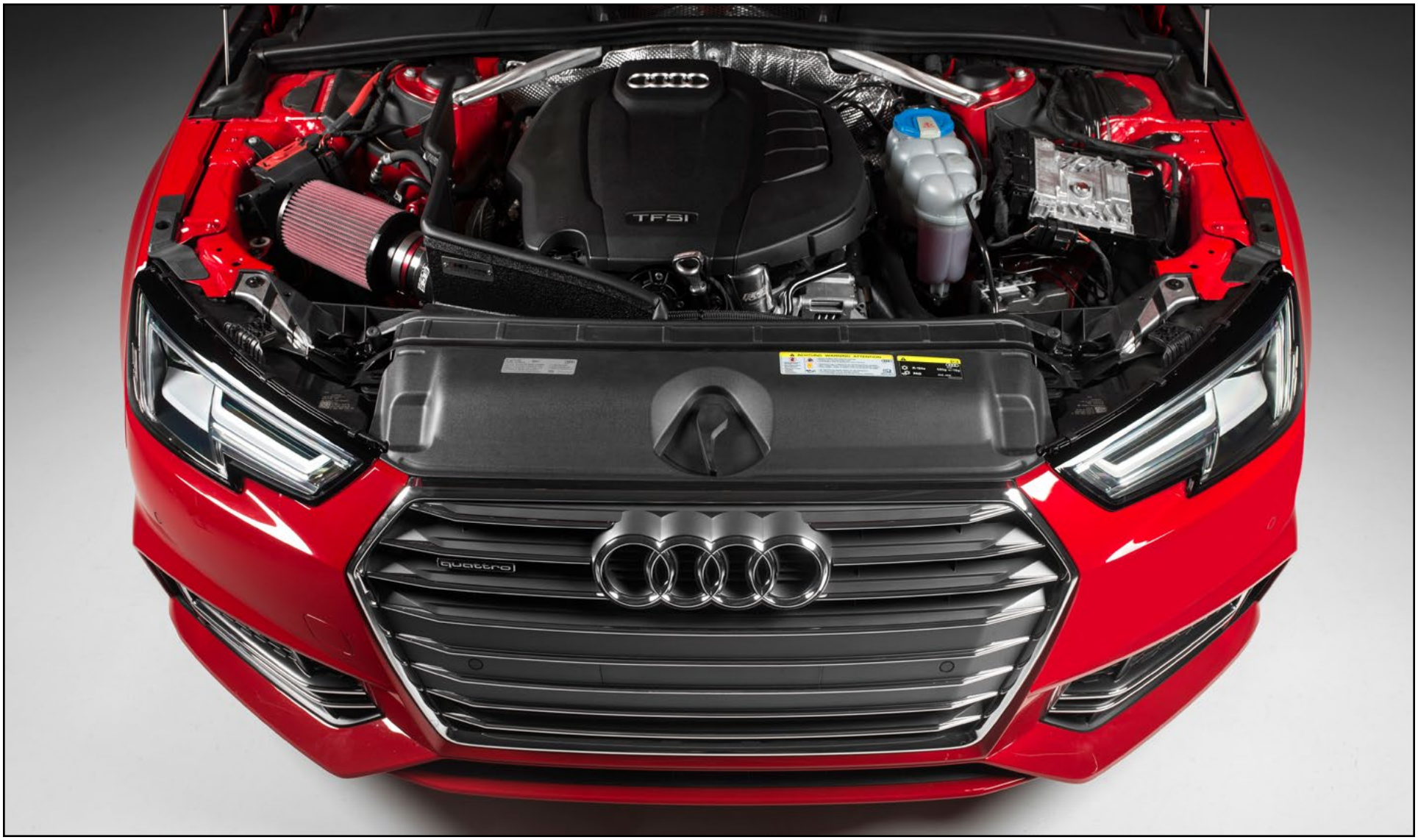


Your Luft-Technik Intake System installation is complete!



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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