



## Audi B9 S4 3.0T 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

### The Project:

Our engineering team at ECS has been conceptualizing, engineering, testing, and building performance air intake systems for years. The Luft-Technik intake system strikes a perfect balance of performance, style, and affordability. Our systems feature superior fitment and performance, making them one of the best intake systems on the market. The Audi 3.0T engine is a technological wonder on it's own, but the Luft-Technik intake system truly allows the engine to breathe like never before. The sleek styling adds some extra eye candy under the hood, and the increased airflow makes this intake the whole package. Each kit includes everything you need for a seamless installation with absolutely no modification necessary to your vehicle. With such attention to detail and a price that is more than affordable, we have no doubt that you will be satisfied with your purchase.

### ECS Difficulty Gauge

**1 - Easy**

2 - Moderate

Advanced - 3

Pro - 4

Take your time and enjoy the project, start to finish this project can be completed in an hour or two. Be sure to read these instructions completely, gather your parts and tools and you're good to go. We include all necessary hardware to help make installation a breeze. Thank you for choosing to make ECS Tuning your provider of performance and replacement parts, we appreciate your business!

## TABLE OF CONTENTS

Kit Contents.....	<a href="#">pg.4</a>
Required Tools and Equipment.....	<a href="#">pg.6</a>
Shop Supplies and Materials.....	<a href="#">pg.7</a>
Installation and Safety Information .....	<a href="#">pg.8</a>
Removing the Original Intake.....	<a href="#">pg.9</a>
Installing the New Kohlefaser Luft-Technik Intake.....	<a href="#">pg.13</a>
Schwaben Tools .....	<a href="#">pg.22</a>

## KIT CONTENTS



Inlet Shield  
(QTY 1)



Heat Shield  
(QTY 1)



High Flow Air Filter  
(QTY 1)



Silicone Turbo Inlet Hose  
(QTY 1)



Bulb Seal  
(QTY 1)



Billet Filter Adapter  
(QTY 1)

## KIT CONTENTS



Edge Trim  
(QTY 1)



Mounting Stud  
(QTY 2)



80-100mm Hose Clamp  
(QTY 1)



70-90mm Hose Clamp  
(QTY 1)



M6 Steel Washer  
(QTY 6)



Heat Shield Grommet  
(QTY 1)



M8x16mm Bolt  
(QTY 1)



M6x60mm Bolt  
(QTY 1)



M6x50mm Bolt  
(QTY 1)



M6 Locknut  
(QTY 4)



M5x14mm Screw  
(QTY 2)



M5 Split-Lock Washer  
(QTY 2)

## 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#240941](#)
- **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](#)

## 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.
- 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:

Push in the button on the back edge of the hood release lever, then pull the lever off.



### Step 2:

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.



## REMOVING THE ORIGINAL INTAKE

Step 3: T25 Torx

Remove the two inlet duct screws.



Step 4:

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



## REMOVING THE ORIGINAL INTAKE

### Step 5:

Remove the engine cover by pulling up at the four corners to release it from the ball studs.



### Step 6: Flat Blade Screwdriver -or- 7mm Socket & Ratchet

Loosen the clamps on either side of the inlet pipe, then remove the pipe from the vehicle.



## REMOVING THE ORIGINAL INTAKE

### Step 7:

Pull straight up on the air box to release it from its mounting grommets.



### Step 8:

If any mounting grommets come out with the air box, pull them off of the air box and set them aside, we will be reusing them to install the new heat shield.



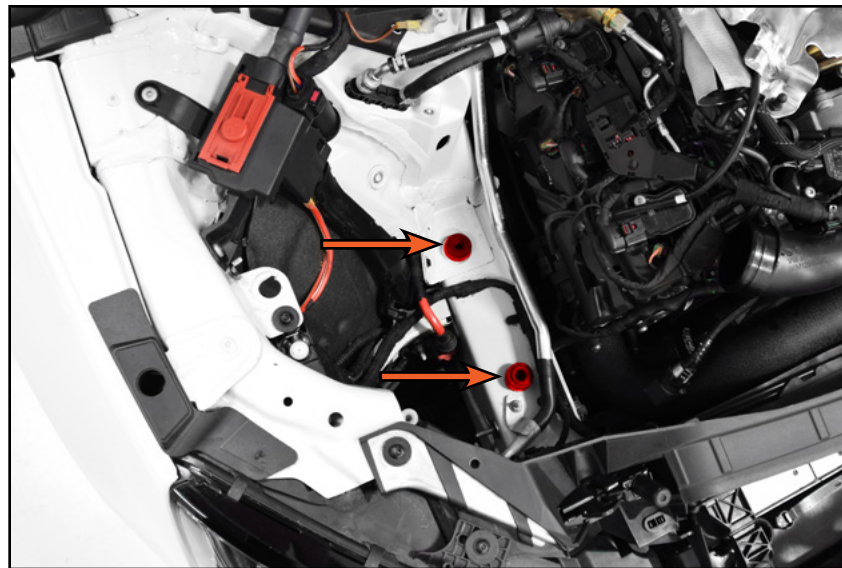
We have highlighted these mounting grommets in **RED** for visibility.



## INSTALLING THE NEW LUFT-TECHNIK INTAKE

### Step 1:

Ensure that the two lower mounting grommets (highlighted in **RED**) are properly installed into the vehicle mounting holes as shown.



### Step 2:

Install the provided edge trim (highlighted in **GREEN**) onto the heat shield as shown in the photo, trimming as necessary.



## INSTALLING THE NEW LUFT-TECHNIK INTAKE

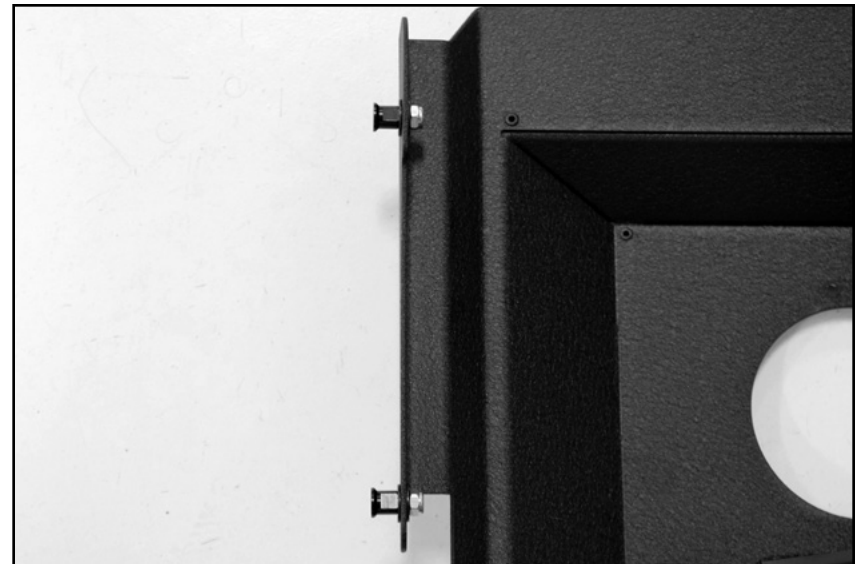
### Step 3:

Push the included grommet into the large hole in the heat shield.



### Step 4:

Using four M6 steel washers and two M6 lock nuts, loosely install the two mounting studs into the bottom of the heat shield. Be sure to place a washer on either side of the heat shield to protect the finish from the stud and nut.



## INSTALLING THE NEW LUFT-TECHNIK INTAKE

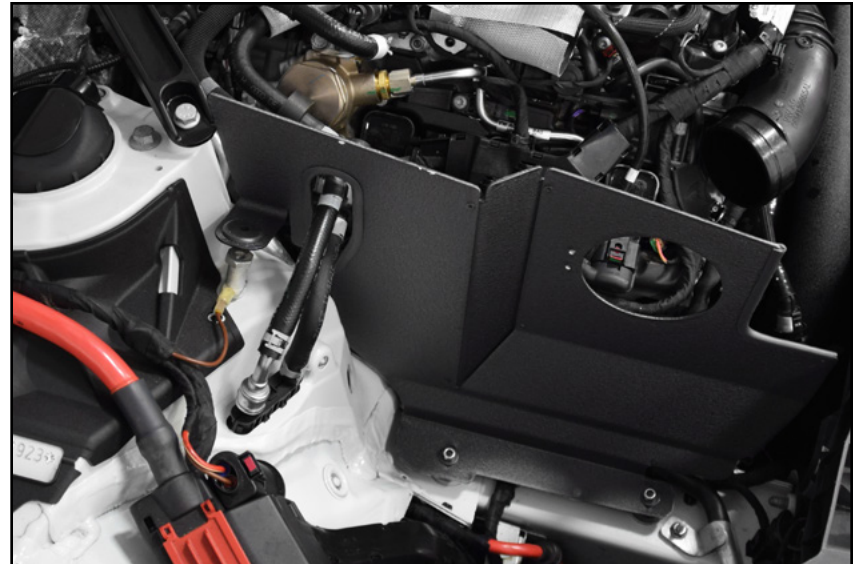
### Step 5: 8mm Wrench, 10mm Wrench

Hold the mounting stud in place with an 8mm wrench and tighten the nut until it makes contact plus 1/8th of a turn.



### Step 6:

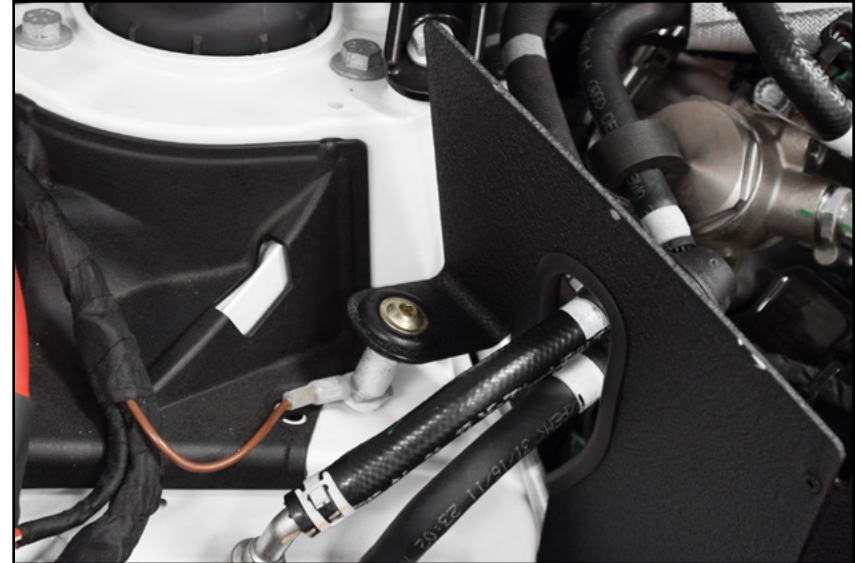
Line up the two mounting studs with the two lower grommets in the vehicle and push down to pop the heat shield into place.



## INSTALLING THE NEW LUFT-TECHNIK INTAKE

### Step 7: 5mm Allen Wrench

Install the M8 bolt through the grommet in the heat shield and into the threaded hole on top of the ground post.



### Step 8:

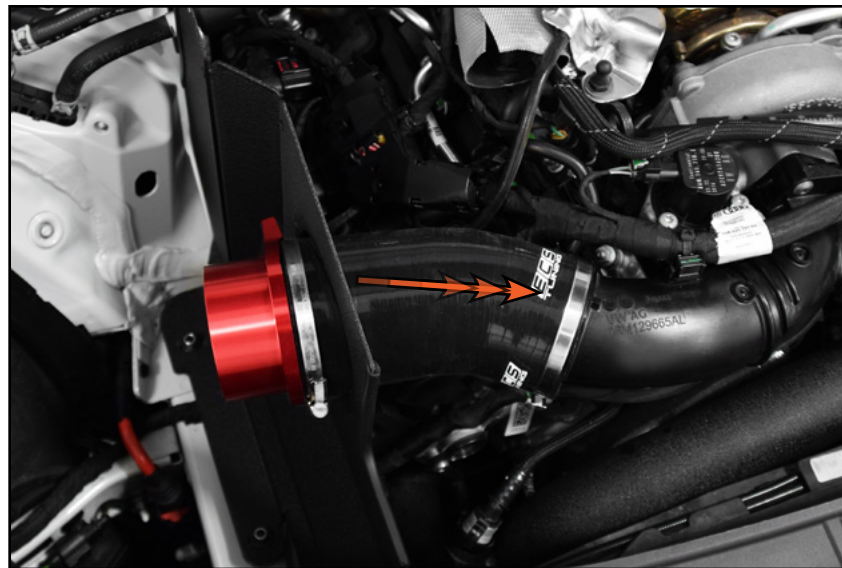
Install the new inlet hose onto the shorter end of the billet adapter. Ensure that both clamps are loosely installed onto either end of the inlet hose as shown in the photo, but leave them loose for now.



## INSTALLING THE NEW LUFT-TECHNIK INTAKE

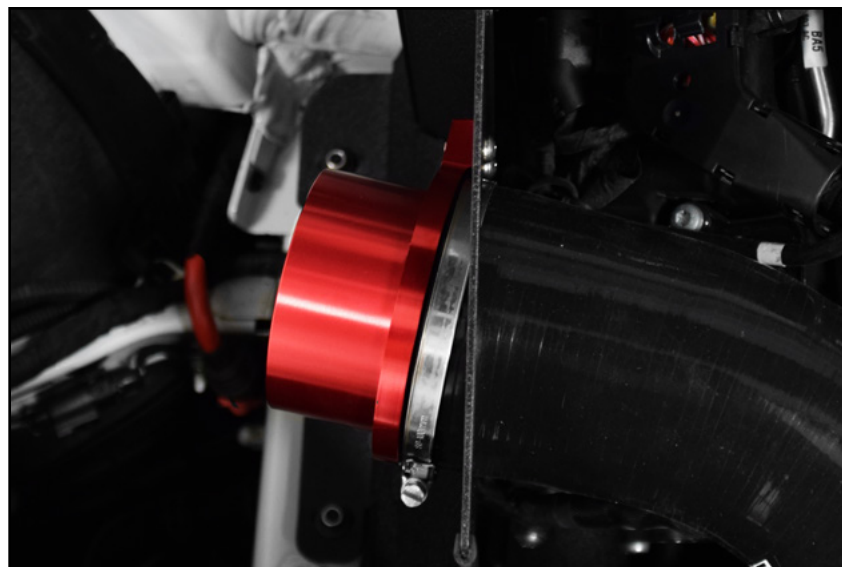
### Step 9:

Slide the hose and adapter through the hole in the heat shield and onto the plastic turbo inlet pipe flange. Twist and adjust the hose until both ends sit flush. You can leave the clamps loose for now, we'll come back and tighten them a little later.



### Step 10: 3mm Hex (Allen) Socket & Ratchet

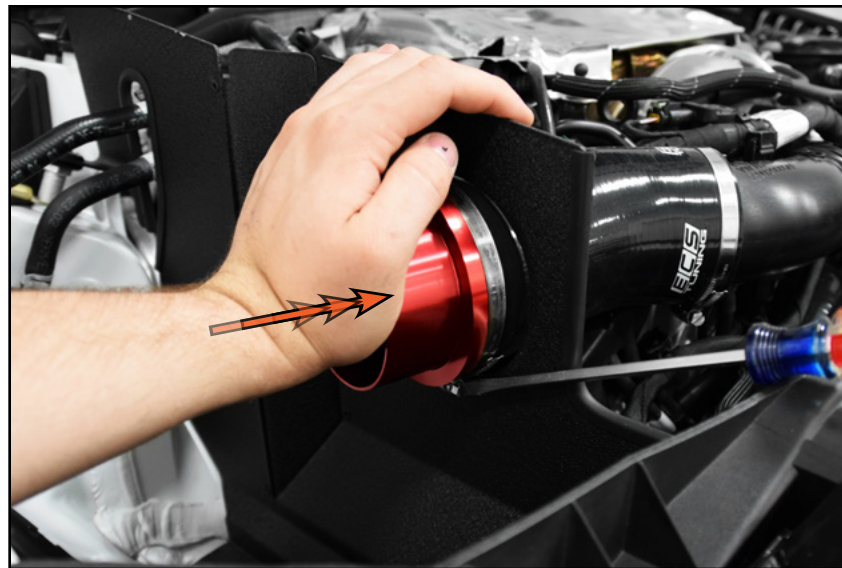
Rotate the billet adapter until the threaded holes line up with the holes in the heat shield. Install the two m5x14mm screws and split-lock washers through the heat shield and into the adapter to secure it in place.



## INSTALLING THE NEW LUFT-TECHNIK INTAKE

### Step 11: Flat Blade Screwdriver -or- 7mm Socket & Ratchet

Push everything together to ensure both ends sit flush, then tighten both clamps until they are snug. When you release pressure the inlet hose will settle to its final resting position.



### Step 12: Flat Head Screwdriver

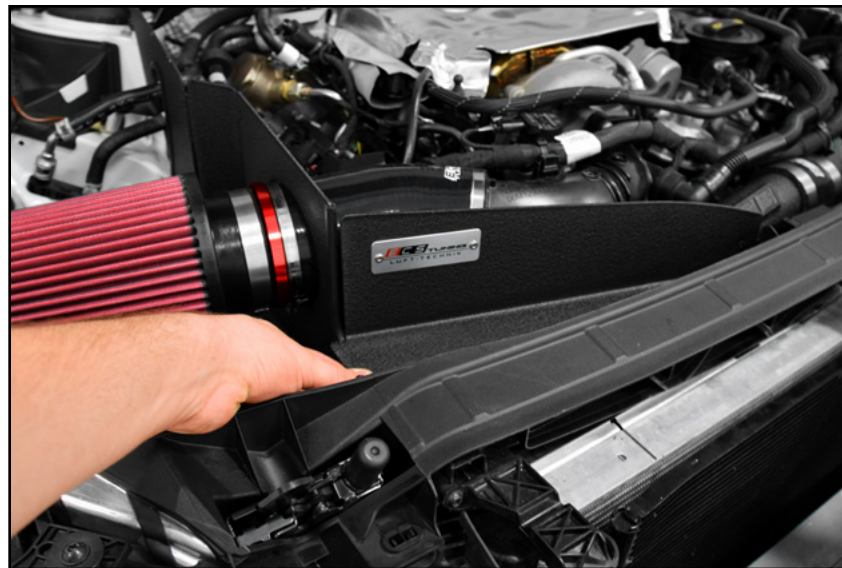
Install the new filter onto the other end of the billet adapter and tighten the clamp to secure it in place.



## INSTALLING THE NEW LUFT-TECHNIK INTAKE

### Step 13:

Slide the inlet shield into place in the core support as shown in the photo on the right.

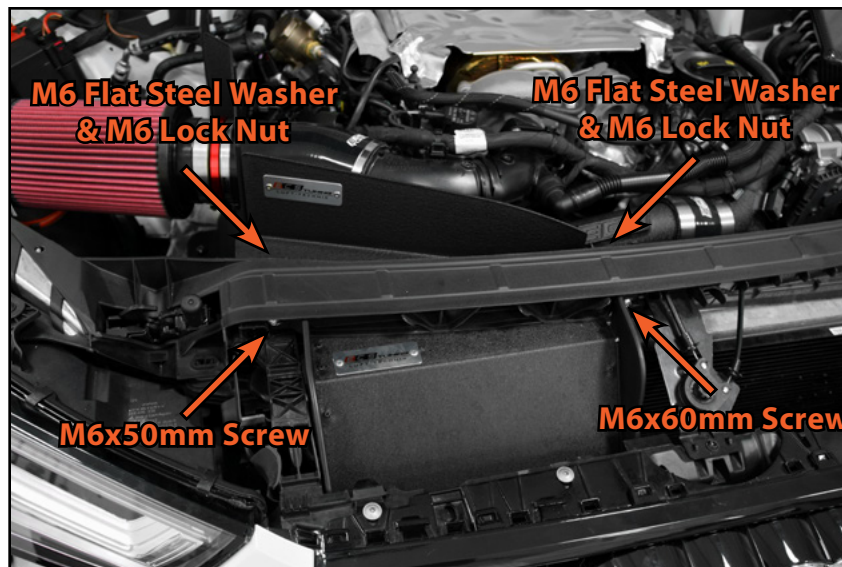


### Step 14: 4mm Allen Wrench, 10mm Socket & Ratchet

Using the supplied M6x50mm screw, M6x60mm screw, M6 flat steel washers, and M6 lock nuts, secure the factory inlet shroud to the core support.



We show installation of the Luft-Technik Inlet Air Scoop here ([ES#3183334](#)), however installation of the factory inlet shroud is the same.



## INSTALLING THE NEW LUFT-TECHNIK INTAKE

### Step 15:

Install the provided bulb seal across top of heat shield, inlet shield and down to the core support as shown in the photo to the right (highlighted in **RED**). This will help to seal the top of the intake to the underside of the hood, creating a more air-tight set up.



### Step 16:

Reinstall the engine cover by lining up the grommets on the engine cover with the ball studs on the engine and pushing down to pop them in place.



## INSTALLING THE NEW LUFT-TECHNIK INTAKE

### Step 17:

Reinstall the radiator shroud by sliding it into the core support and pushing downward to clip the front of the shroud to the top of the grille.



### Step 18:

Push the hood release lever back into place.



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

## SCHWABEN - BUILD THE ULTIMATE TOOL COLLECTION

At ECS Tuning, we carry a line of high quality Schwaben Tools and Equipment to help you build your ultimate tool collection. Never before has affordability and quality been so closely related. Our entire Schwaben line is subjected to strict in house testing for strength and durability. See what we have to offer and equip your garage without breaking the bank.

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



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

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