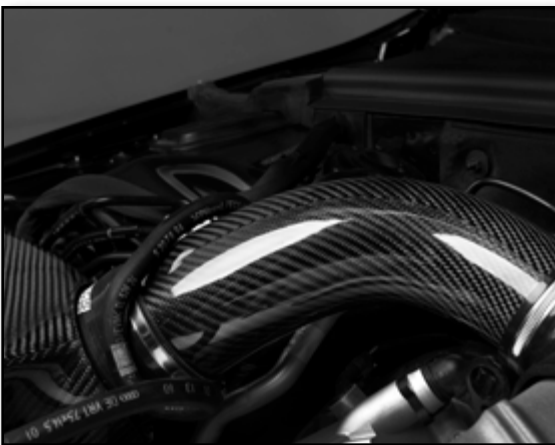




Audi B8 3.0T

Kohlefaser Luft-Technik Intake

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 Kohlefaser Luft-Technik Intake System

The ECS Tuning B8 3.0T Kohlefaser Luft-Technik Intake System offers the following features:

- Carbon Fiber Upper Lid Assembly
- Carbon Fiber Intake Tube
- Powder Coated twin-layer aluminum heat shield
- Stainless Steel Hardware
- ECS Tuning 3.0" Conical, Cotton Gauze, Reusable Air Filter
- ECS Tuning 4-Ply Silicone Couplers and Stainless Steel Hose Clamps
- Broader and smoother torque curve for an enhanced driving experience
- Gains of +16 WHP / +10 FT-LBS WTQ on APR Stage 2+ ECU Upgrade with the APR supercharger pulley

ECS Difficulty Gauge



1 - Easy

Pro - 4

2 - Moderate

Advanced - 3

Installing the ECS Tuning Audi B8 3.0T Intake System is an enjoyable afternoon project that will reward you with performance gains and the beauty of one of our hand-laid laminated carbon fiber intake systems. Thank you for purchasing our ECS Tuning Kohlefaser Luft-Technik Intake System, we appreciate your business!

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CAUTION: Be careful not to nick or cut the surface of the carbon fiber, this could allow water intrusion and damage the carbon fiber.



This document includes a [HYPERLINK](#) to an additional set of instructions for installing the ECS Tuning Fuel Line Relocation Kit. These kits are optional accessories which are available for both Pre-Facelift and Facelift B8 Chassis vehicles, and they are used to replace the rubber fuel hose which normally run over top of the intake pipe for a cleaner overall look. These kits can be found by clicking [HERE](#):

KIT CONTENTS



Carbon Fiber Air Box Lid



Carbon Fiber Intake Tube



Heat Shield Assembly



Support Bracket



Breather Bracket and Stud



Breather Adapter



Air Filter w/Clamp



Breather Filter w/Clamp



90 Degree Elbow

KIT CONTENTS



4" Straight Coupler



3" Hump Coupler



(2) 4" Hose Clamps



(2) 3" Hose Clamps



Vent Hose



Expanding Rivet and Insulating Washer



(QTY 4) M6x20 Mounting Screws and Nylon Washers



(QTY 2) M6x14 Air Box Coupler Mounting Screws and Nuts

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](#)
- $\frac{3}{8}$ " Drive Ratchet [ES#2765902](#)
- $\frac{3}{8}$ " Drive Torque Wrench [ES#2221245](#)
- $\frac{3}{8}$ " Drive Deep and Shallow Sockets [ES#2763772](#)
- $\frac{3}{8}$ " Drive Extensions [ES#2804822](#)
- Hydraulic Floor Jack [ES#240941](#)
- **Torx Drivers and Sockets** [ES#11417/8](#)
- $\frac{1}{2}$ " Drive Deep and Shallow Sockets [ES#2839106](#)
- $\frac{1}{2}$ " Drive Ratchet
- $\frac{1}{2}$ " Drive Extensions
- $\frac{1}{2}$ " Drive Torque Wrench [ES#2221244](#)
- $\frac{1}{2}$ " Drive Breaker Bar..... [ES#2776653](#)
- **Locking Hose Clamp Pliers** [ES#2702616](#)
- Crows Foot Wrenches
- Hook and Pick Tool Set..... [ES#2778980](#)

Required For This Install

Available On Our Website

- $\frac{1}{4}$ " Drive Ratchet [ES#2823235](#)
- $\frac{1}{4}$ " Drive Deep and Shallow Sockets [ES#2823235](#)
- $\frac{1}{4}$ " 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.
- 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.

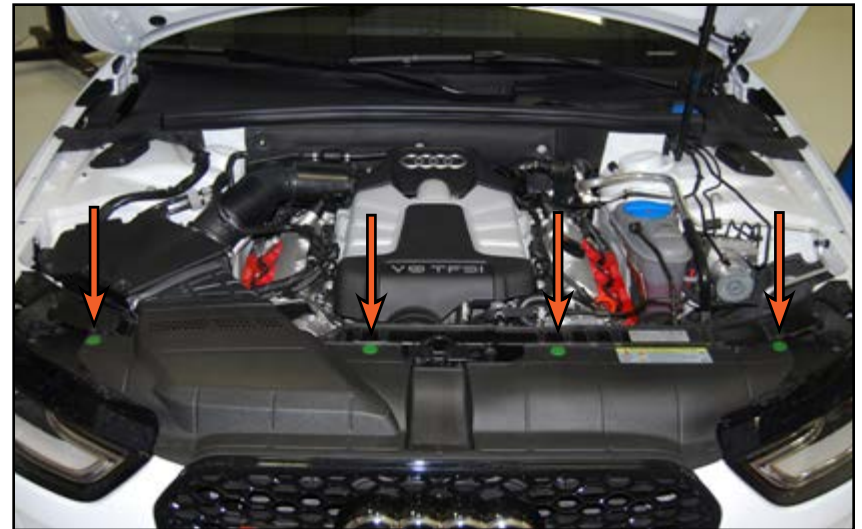
REMOVING THE ORIGINAL AIR BOX

Step 1: Small Phillips Screwdriver

Open the hood and locate the four radiator shroud retaining rivets (arrows). Push down lightly on the center pin of each rivet to release the tension, then remove them by pulling them up out of the radiator shroud.



Be careful not to lose the center pins, they keep the tension on the rivets to ensure secure mounting of the radiator shroud.



Step 2:

Remove the radiator shroud by lifting up on the back edge slightly and pulling it rearward.



REMOVING THE ORIGINAL AIR BOX

Step 3: T25 Torx

Remove the two screws securing the air scoop to the core support.



Step 4: 7mm Socket - OR - Flat Blade Screwdriver

Loosen the hose clamps at both ends of the intake tube.



We are installing this intake on a Facelift (2013+) S4, the hose routing over the intake tube is slightly different on a Pre-Facelift (-2012) S4.



REMOVING THE ORIGINAL AIR BOX

Step 5:

Locate the vent tube on the rear of the intake tube and pull it off.



Step 6:

Release the two fuel lines from their retaining clips (arrows), then remove the intake tube from the vehicle by first pulling it off of the throttle body, and then pulling it off of the air box coupler.



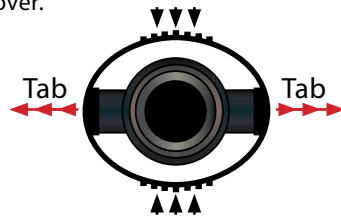
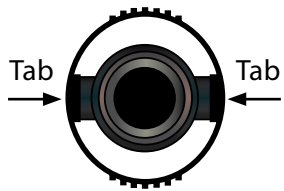
REMOVING THE ORIGINAL AIR BOX

Step 7:

Pull up on both sides of the air box to release it from its mounting grommets, then lift it up just enough to access the secondary air tube located in the lower front corner. Release the air tube as described below, then lift the original air box out of the car.

Normal Installed State: The tabs keep the hose "locked" onto the valve cover.

To Remove: Squeeze the knurled sides of the locking ring together and the tabs will expand out and unlock, allowing you to pull the connector off of the valve cover.



Step 8: T30 Torx

Remove the screw for the inner fender bracket, then rotate the bracket in a clockwise direction to unhook it from the fender and remove it from the vehicle.



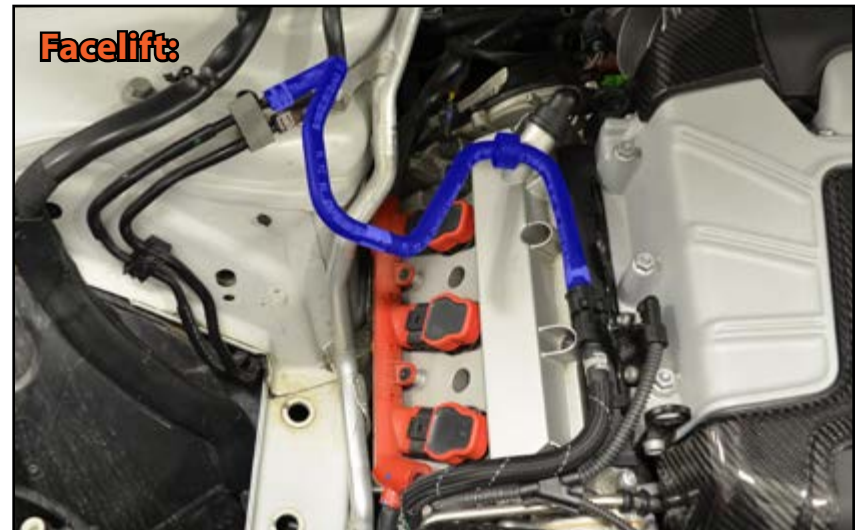
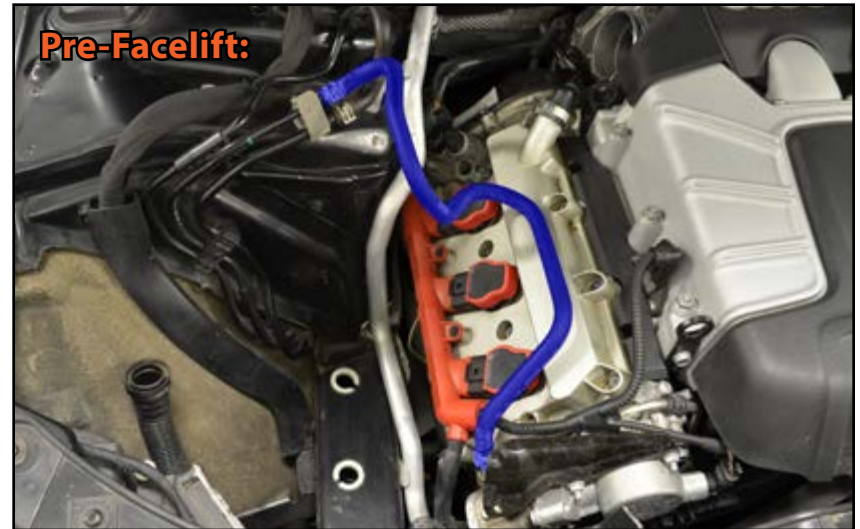
FUEL LINE RELOCATION KIT

Note:

We offer Fuel Line Relocation Kits for both Pre-Facelift and Facelift B8 3.0T equipped vehicles. These kits include a lengthened fuel hose to replace the fuel hose which has been highlighted in **BLUE** in the photo on the right (the Facelift style fuel hose is shown, the Pre-Facelift fuel hose will differ slightly). The lengthened fuel hose will be routed behind the breather tube and the intake pipe for a much cleaner overall fit and finish.

If you have purchased one of our Fuel Line Relocation Kits for your Audi B8 3.0T, please click [HERE](#) to proceed with the installation of that kit. If you have not purchased one of these kits, you can continue the intake system installation on [Page 14](#).

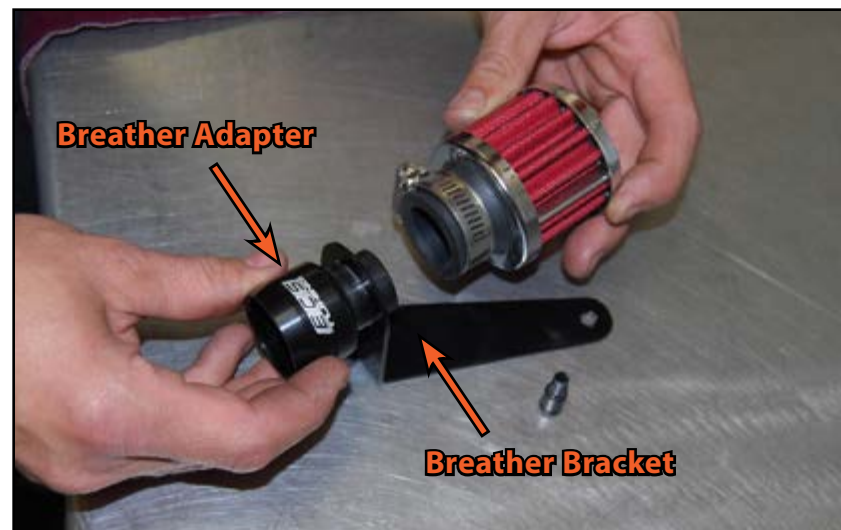
** It is important to note that these Fuel Line Relocation Kits can be installed at **ANY** time, but it is easiest to install with the intake system removed so now is a great time to perform this install if so desired.



INSTALLING THE NEW CARBON FIBER INTAKE

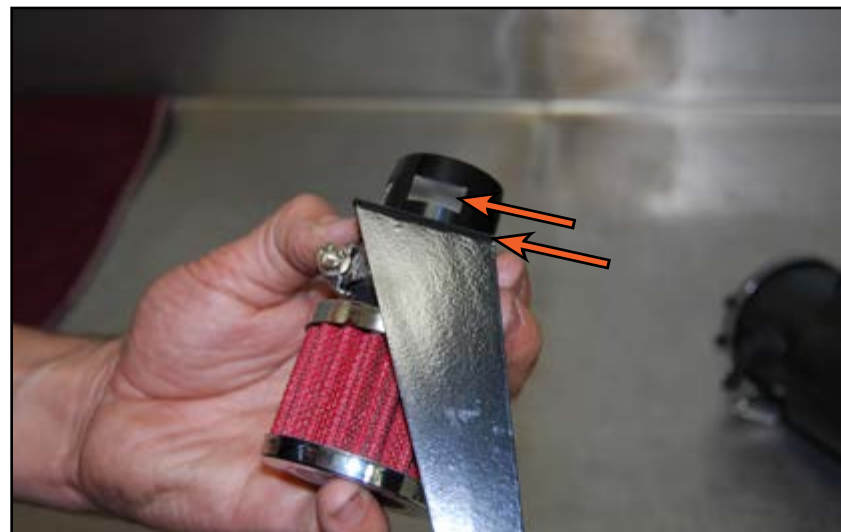
Step 1:

Insert the Breather Adapter through the Breather Bracket, then push the Breather Filter onto the Adapter.



Step 2:

Make sure the flats on the Breather Adapter are parallel with the rear edge of the Breather Bracket as shown in the photo.



INSTALLING THE NEW CARBON FIBER INTAKE

Step 3:

Tighten the hose clamp on the Breather Filter until it is snug.



Step 4:

Push the Breather Adapter into the secondary air hose until it clicks securely into place.



INSTALLING THE NEW CARBON FIBER INTAKE

Step 5: Flat Blade Screwdriver

Mount the Breather Bracket by inserting the mounting stud through the bracket and into the inner fender. Thread the stud all the way in by hand, then tighten it until it is snug using a flat blade screwdriver.



Step 6:

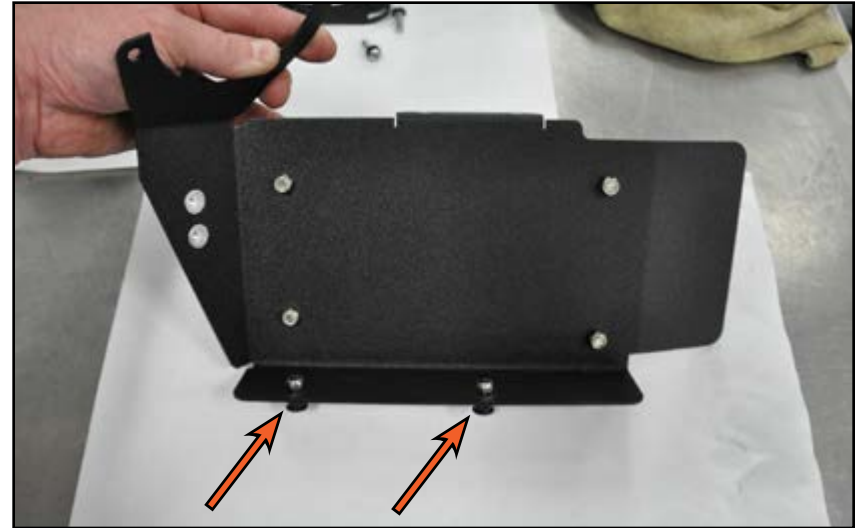
Pull the two mounting grommets off the bottom of the original air box.



INSTALLING THE NEW CARBON FIBER INTAKE

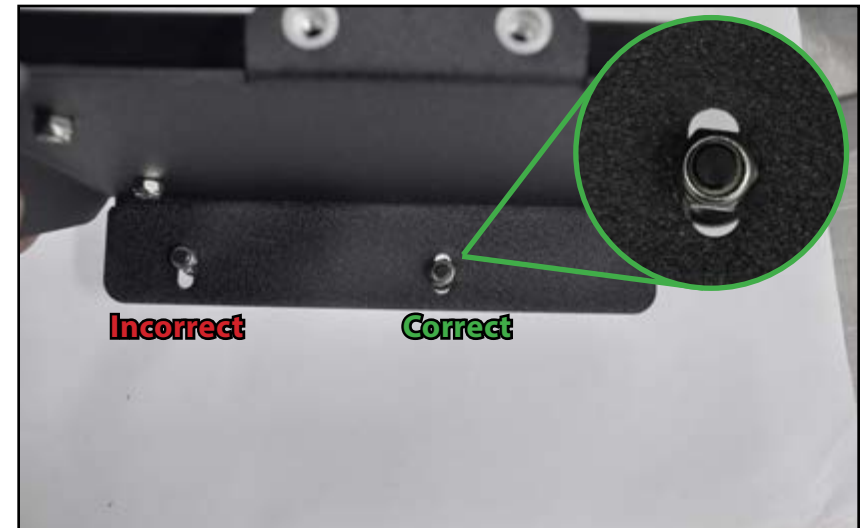
Step 7:

Locate the two adjustable "feet" on the bottom of the Heat Shield.



Step 8: 8mm & 10mm Wrenches

Both of the "feet" should be located approximately in the center of the slot for this application. If they are not, simply loosen them, position them in the center, and retighten them. The nuts are 10mm and the flats on the "feet" can be held with an 8mm wrench.



INSTALLING THE NEW CARBON FIBER INTAKE

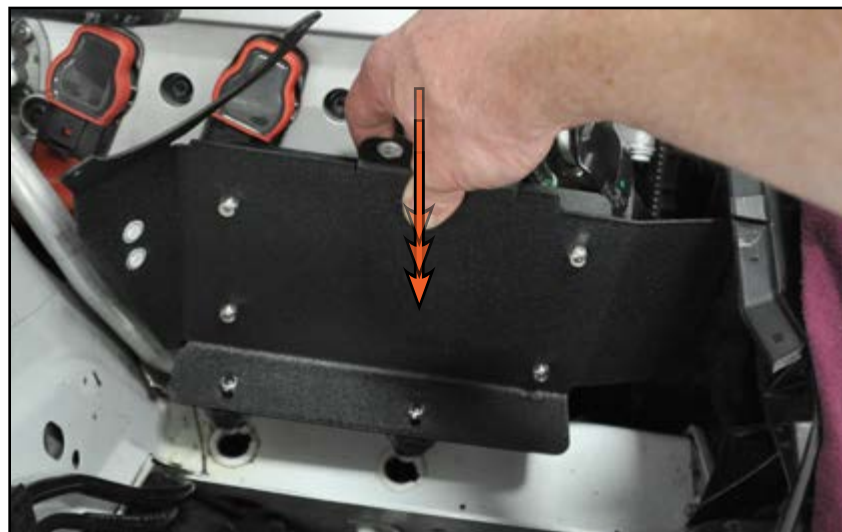
Step 9:

Push the mounting grommets (removed in step 6) onto the two "feet" of the Heat Shield.



Step 10:

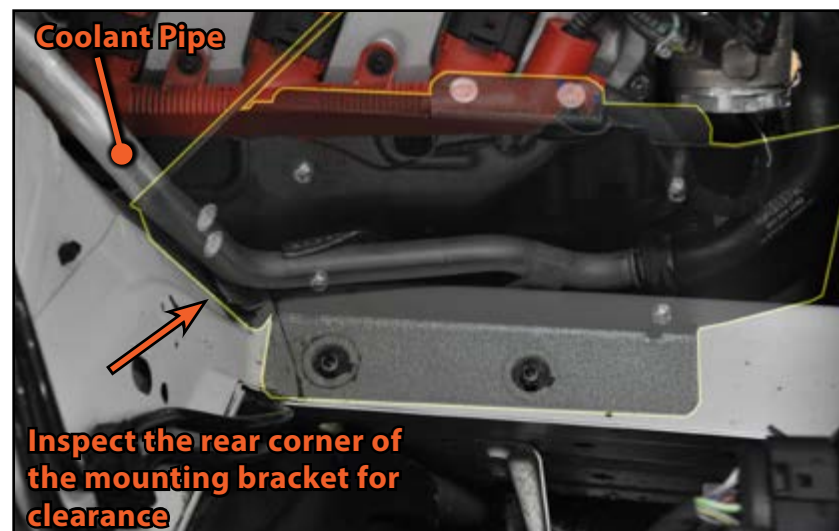
Install the Heat Shield into place in the engine compartment by aligning the rubber mounting grommets with their mounting holes and pushing down until they are fully seated.



INSTALLING THE NEW CARBON FIBER INTAKE

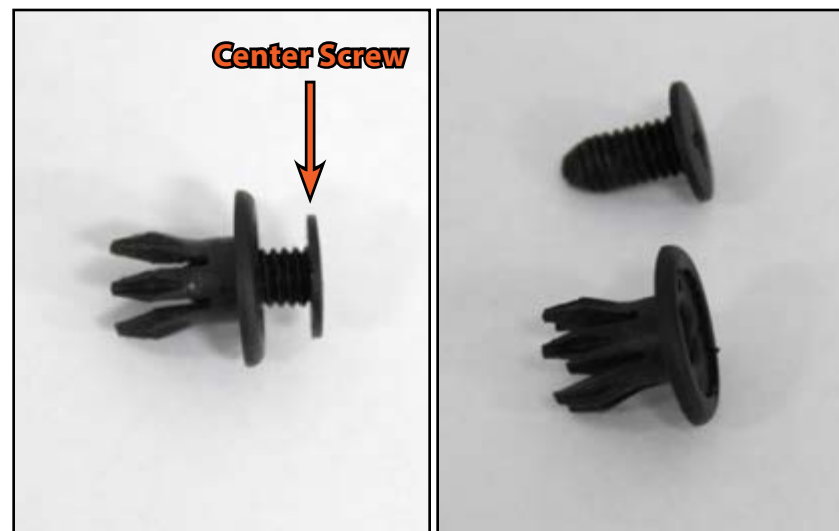
Step 11:

Inspect the Heat Shield for clearance between the rear lower corner and the aluminum coolant pipe that runs nearby. If necessary, slightly bend the coolant pipe outward (it will bend very easily) so the two do not contact each other.



Step 12:

Remove the center screw from the Expanding Rivet by completely unthreading it.



INSTALLING THE NEW CARBON FIBER INTAKE

Step 13:

Push the Expanding Rivet through the end of the Support Bracket.



Step 14:

Install the Insulating Washer onto the Expanding Rivet.



INSTALLING THE NEW CARBON FIBER INTAKE

Step 15:

Hold the Support Bracket so the Expanding Rivet is lined up with the pre-existing hole in the shock tower (arrow).



Step 16:

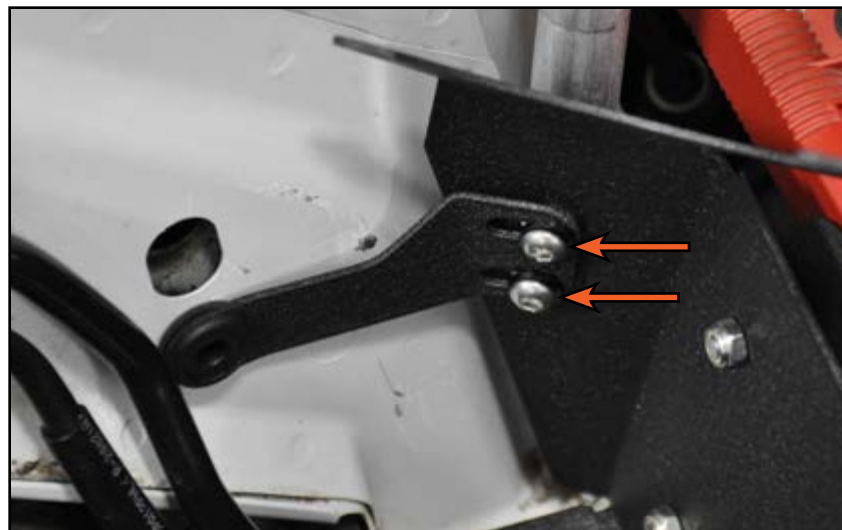
Push the Expanding Rivet into the hole in the shock tower, ensuring that all of the fingers on the Expanding Rivet are inserted into the hole.



INSTALLING THE NEW CARBON FIBER INTAKE

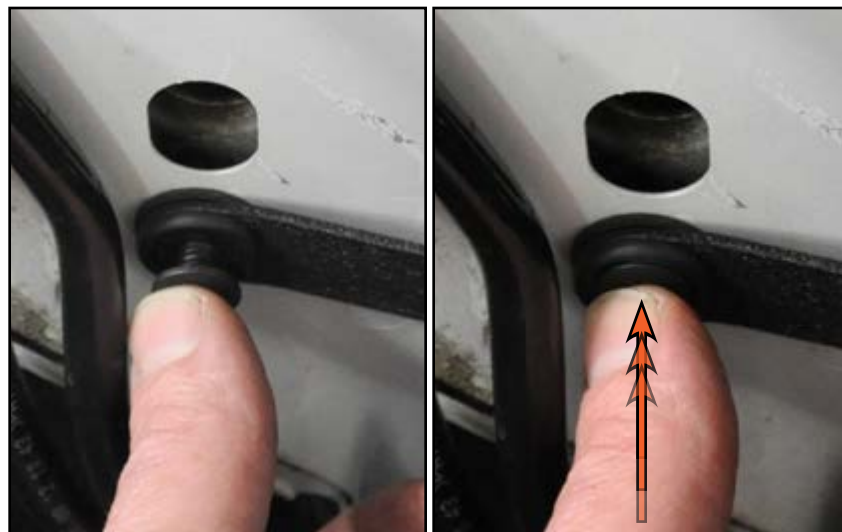
Step 17:

Place a Nylon Washer onto two of the M6x20 screws, then install the screws through the Support Bracket and into the Heat Shield. We will need to adjust the position of the Heat Shield at a later step, so do not tighten the screws at this time.



Step 18:

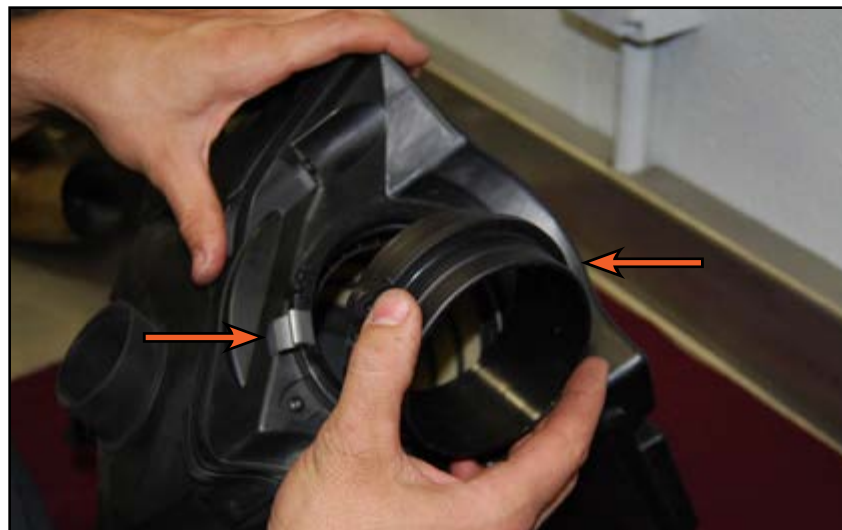
Push the center screw into the Expanding Rivet until it is fully seated.



INSTALLING THE NEW CARBON FIBER INTAKE

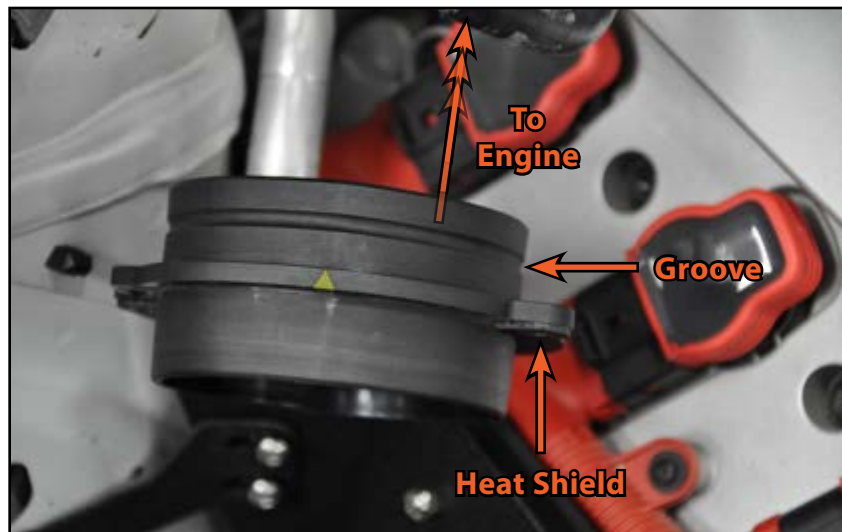
Step 19:

Unsnap the two retaining clips (arrows) on the original air box and remove the air box coupler.



Step 20:

Place the coupler onto the Heat Shield, making sure that the grooved side of the coupler is located on the outside (engine side) of the Heat Shield.



INSTALLING THE NEW CARBON FIBER INTAKE

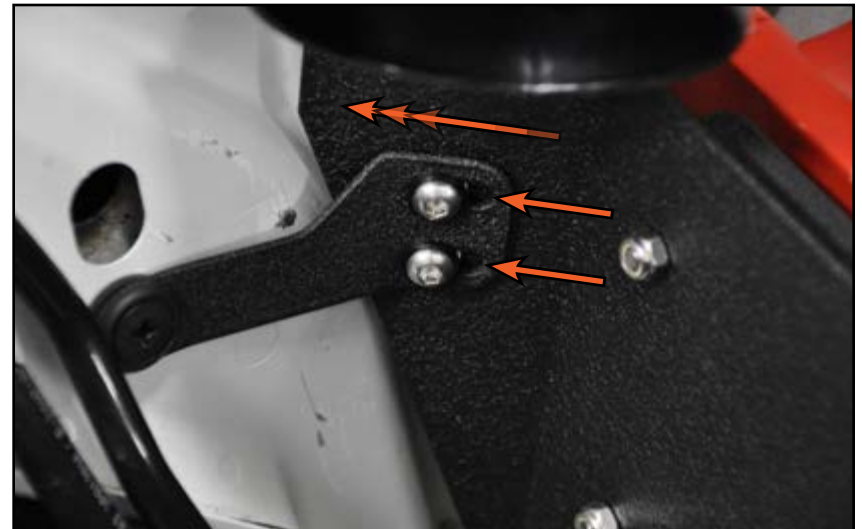
Step 21: 4mm Allen, 10mm Socket or Wrench

Install the two M6x14 screws and two self locking nuts, making sure the nuts are located on the engine side of the coupler. Tighten them until they are snug.



Step 22: 4mm Allen

Push the Heat Shield toward the shock tower and tighten the two M6x20 screws until they are snug. Make sure that the Heat Shield is pushed toward the RH (passenger) side of the car so the screws are all the way to one side of the slots as shown in the photo.



INSTALLING THE NEW CARBON FIBER INTAKE

Step 23:

Slide both of the 3" hose clamps onto the 3" Hump Coupler, then push the Coupler onto the throttle body, but do not tighten the clamps at this time.



Step 24:

Place both of the 4" hose clamps onto the 4" Straight Coupler, then push the Coupler onto the Carbon Fiber Intake Tube, but do not tighten the clamps at this time. Next, push the Carbon Fiber Intake Tube into the 3" Hump Coupler. If you have not installed one of our Fuel Line Relocation Kits, ensure that the fuel lines are properly located around the Intake Tube.



The Intake Tube fits tightly into the silicone couplers, so it will require moderate pressure to install. **DO NOT** use any oil or lubricants.



INSTALLING THE NEW CARBON FIBER INTAKE

Step 25:

Guide the 4" Straight Coupler onto the air box coupler, making sure that the Couplers and the Carbon Fiber Intake Tube are squarely installed and properly aligned.



Step 26:

Tighten all four hose clamps on the couplers, making sure the clamp nearest the air box is positioned on the back side of the hose so it does not interfere with the Carbon Fiber Intake Lid.



CAUTION: Be careful not to over tighten the hose clamps, over tightening can crack the carbon fiber.



INSTALLING THE NEW CARBON FIBER INTAKE

Step 27: Flat Blade Screwdriver

Wipe the inside of the Air Filter opening to remove any oil residue, then push the Air Filter into place on the end of the air box coupler until it is fully seated. Tighten the clamp until it is snug.



Step 28:

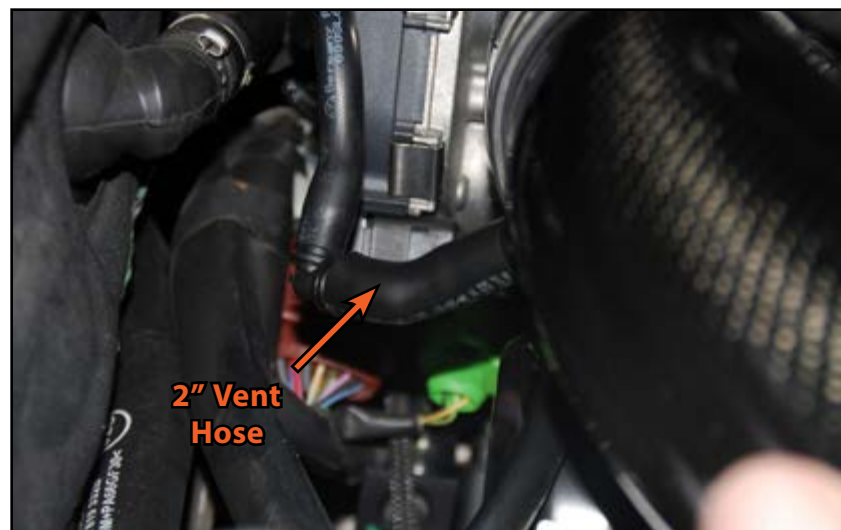
Push the 90 degree elbow into the vent tube (removed on [Page 11](#) step 5).



INSTALLING THE NEW CARBON FIBER INTAKE

Step 29:

Push the 2" piece of vent hose (included with the kit) onto the remaining end of the 90 degree elbow, then push the hose onto the nipple on the back of the Carbon Fiber Intake Tube.



Step 30:

Gently squeeze the original intake duct to release the clips and pull it off the original air scoop.



CAUTION: Do not squeeze the intake duct too far or you will break the tabs inside the air scoop.



INSTALLING THE NEW CARBON FIBER INTAKE

Step 31: Flat Blade Screwdriver

Gently pry apart the two halves of the original air scoop.



Step 32: T25 Torx

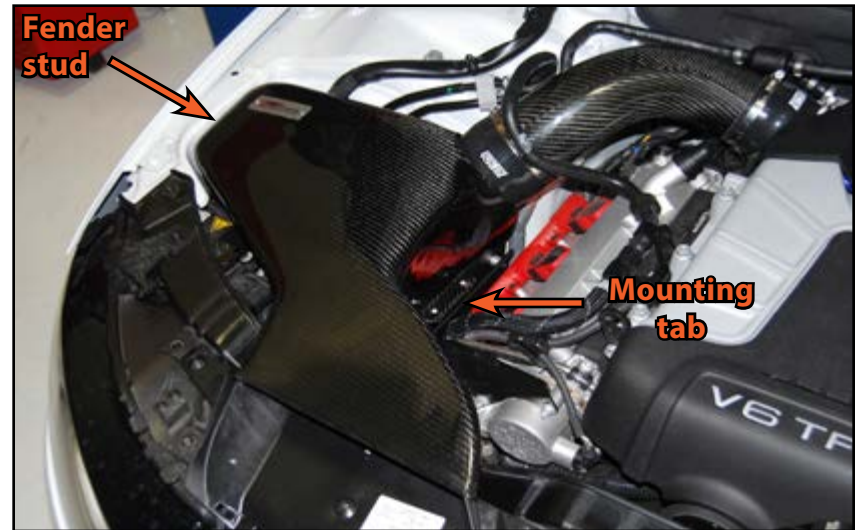
Install the lower half of the original air scoop onto the core support using the two original screws.



INSTALLING THE NEW CARBON FIBER INTAKE

Step 33:

Install the Carbon Fiber Air Box Lid by first pushing the side grommet onto the fender mounting stud, then positioning the air box lid bolt holes in place over the holes in the mounting tab.



Step 34: 4mm Allen Socket, Ratchet & Long Extension

Install the two M6x20 screws with a nylon washer under each screw, then tighten them until they are snug.



We are using a 4mm socket and extension in this location so we do not risk scratching the carbon fiber with a standard Allen wrench.



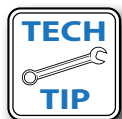
CAUTION: Be careful not to over tighten any screws or hold downs on carbon fiber, over tightening can crack the carbon fiber.



INSTALLING THE NEW CARBON FIBER INTAKE

Step 35:

Install the radiator shroud into place and install the four retaining rivets.



The easiest way to install the retaining rivets is to remove the center pin completely, install the rivets, then push the center pins back into place.



Your Kohlefaser Luft-Technik Intake installation is now complete!

CARBON FIBER CLEANING AND CARE

ECS Tuning Carbon Fiber Intakes are clear coated for excellent finish durability and UV resistance right out of the box.

Carbon fiber can be washed with any gentle cleanser or soap. If it is safe for the paint on your car, it will be safe for the carbon fiber.

Be extra careful not to nick or deeply scratch the clear coat on the carbon fiber. This can lead to water intrusion into the carbon fiber which will damage the finish and the integrity of the intake.

If the clear coat does get nicked or deeply scratched to expose the carbon fiber, seal the damaged area thoroughly with a clear coat touch up or clear nail polish.

To retain UV resistance and protect the finish, we recommend regular waxing with a high quality caranuba wax.

Small surface scratches and light oxidation can be buffed out using the same methods and cautions you would use on the vehicle paint.

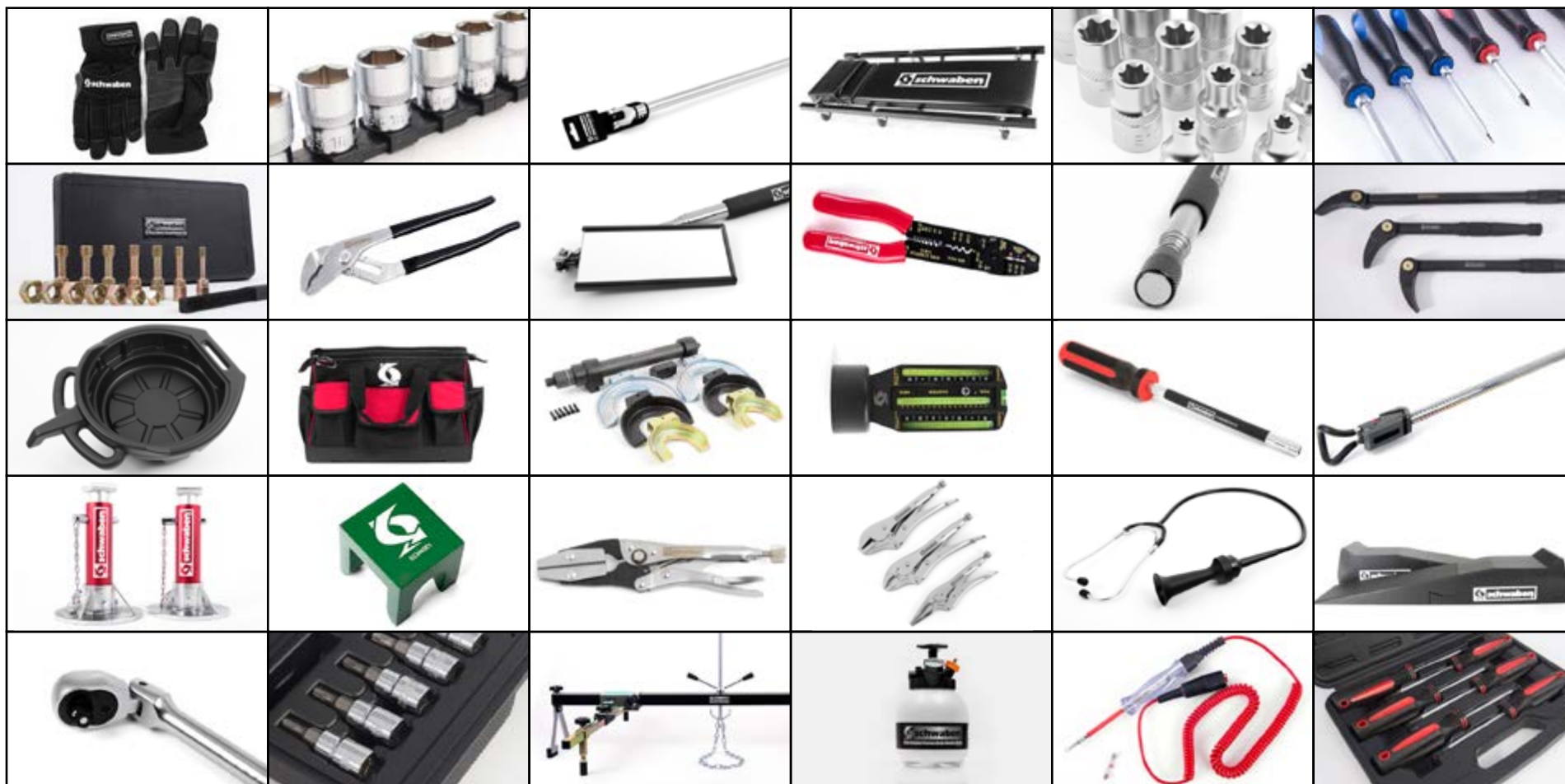
Carbon Fiber Cleaning and Care Kit, available at ecstuning.com.

[ES#2914954](#)



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 Kohlefaser Luft-Technik Intake 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.

Although this material has been prepared with the intent to provide reliable information, no warranty (express or implied) is made as to its accuracy or completeness. Neither is any liability assumed for loss or damage resulting from reliance on this material. SPECIFICALLY, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER WARRANTY IS MADE OR TO BE IMPLIED WITH RESPECT TO THIS MATERIAL. In no event will ECS Tuning, Incorporated or its affiliates be liable for any damages, direct or indirect, consequential or compensatory, arising out of the use of this material.