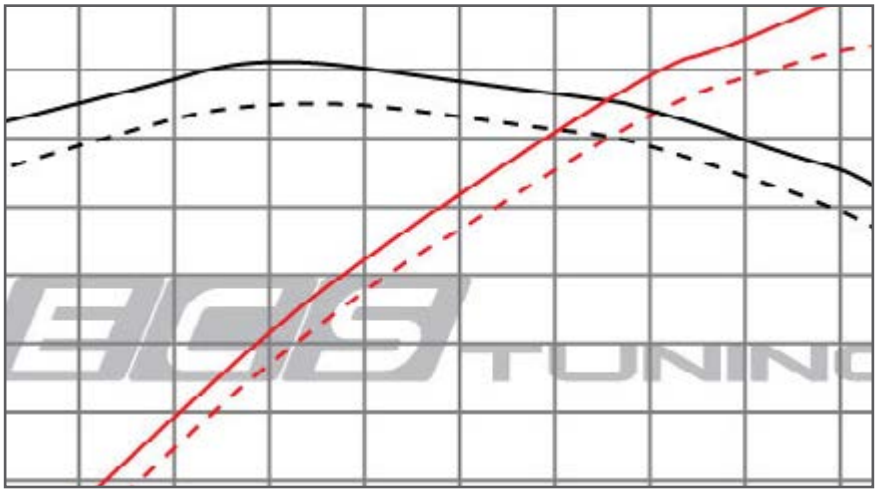
Audi B8 3.0T
Kohlefaser Luft-Technik Intake
Installation

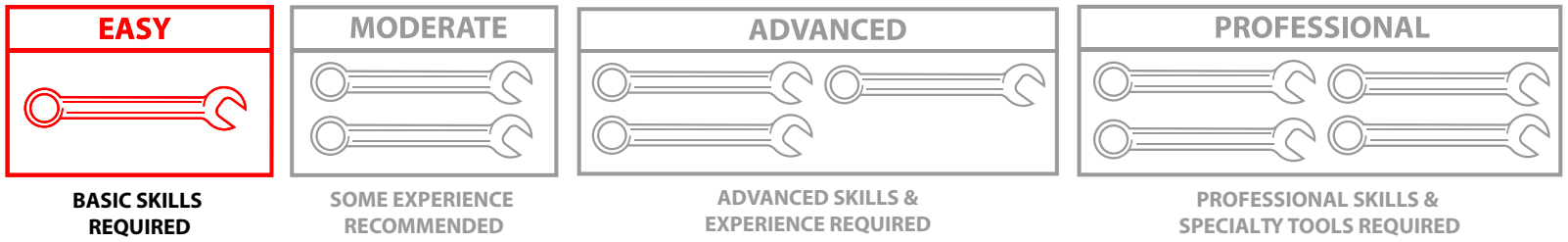


INTRODUCTION

ECS Tuning Kohlefaser Luft-Technik Intake System

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

- 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 TQ on APR Stage 2+ ECU Upgrade with the APR supercharger pulley



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 knick or cut the surface of the carbon fiber, this could allow water intrusion and damage the carbon fiber.

B8 3.0T CARBON FIBER INTAKE KIT CONTENTS

Carbon Fiber Intake Tube

Carbon Fiber Air Box Lid

B8 3.0T CARBON FIBER INTAKE KIT CONTENTS

Twin Layer Heat Shield Assembly

Support Bracket

Air Filter with Clamp

Expanding Rivet and Insulating Washer

(2) M6 x 14 Air Box Coupler Mounting Screws and Nuts

(4) M6 x 20 Mounting Screws and Nylon Washers

Breather Filter with Clamp

B8 3.0T CARBON FIBER INTAKE KIT CONTENTS

4" Straight Coupler

3" Hump Coupler


Vent Hose


90 Degree Elbow


(2) 4" Hose Clamps


(2) 3" Hose Clamps


Breather Bracket and Mounting Stud

Breather Adapter

REQUIRED TOOLS

NOTE

We recommend that you have a complete selection of tools and equipment necessary for automotive repair. Below is a list of the specific tools that will be required to install your ECS Tuning Carbon Fiber Intake. Additional tools may be required for any issues that arise during installation such as rust, corrosion, or broken and stripped fasteners.

These tools are available at ecstuning.com

- Flat Blade and Phillips Screwdriver(s) ..... ES#2225921
- Torx Drivers T25 and T30 ..... ES#11417
- Allen Sockets: 4mm
- 1/4" Drive Ratchet, Extensions
- 1/4" Drive Sockets: 8mm, 10mm
- Wrenches: 8mm
- Allen Wrenches: 4mm
- Slip Joint Pliers

SHOP SUPPLIES AND MATERIALS

- Hand Cleaner/Degreaser ..... Available at ecstuning.com ..... ES#2167336
- Shop Rags ..... Available at your local auto parts store

REPLACEMENT PARTS AND HARDWARE

- Metric 6 x 20 Screws (ES#1899272)
- Metric 6 x 14 Screws (ES#2710313)
- Air Filter Element (ES#2710352)
- Radiator Shroud Rivets (ES#10075)

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.

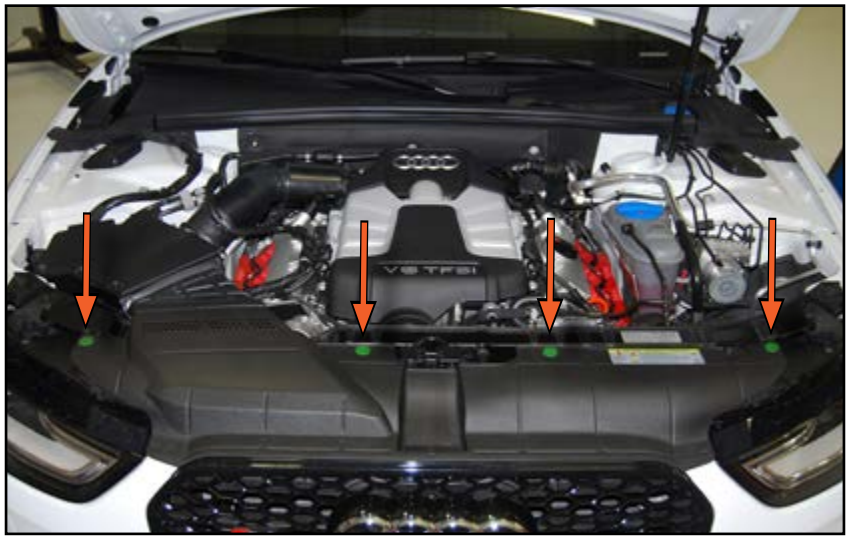
- Park your car in a safe, well lit, level area.
- Shut the engine off and remove the key from the ignition switch.
- Make sure any remote start devices are properly disabled.
- Always wear safety glasses.
- Make sure the parking brake is applied until the vehicle is safely lifted and supported.
- If 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. Always make sure that the vehicle is securely supported on jack stands.

REMOVING THE ORIGINAL AIRBOX

Step 1:

Open the hood and locate the four radiator shroud retaining rivets (arrows). Using a small phillips screwdriver or flat punch, 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.

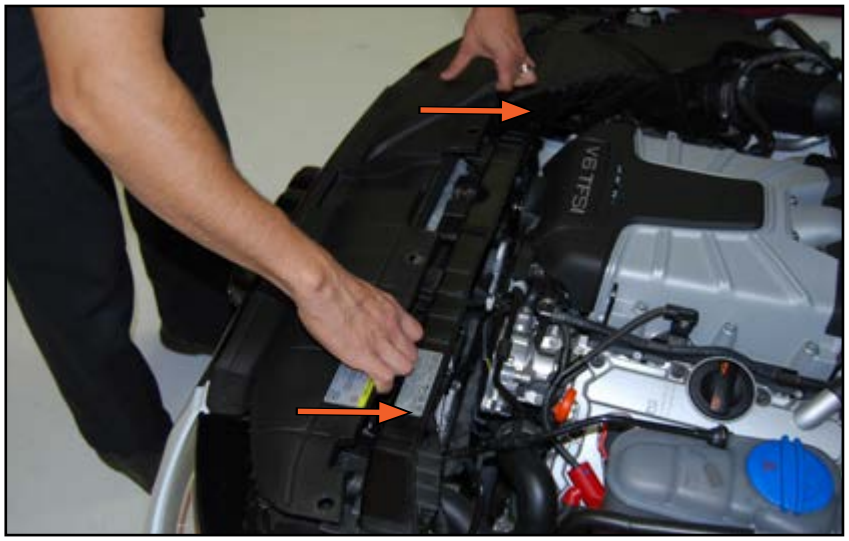


NOTE

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:

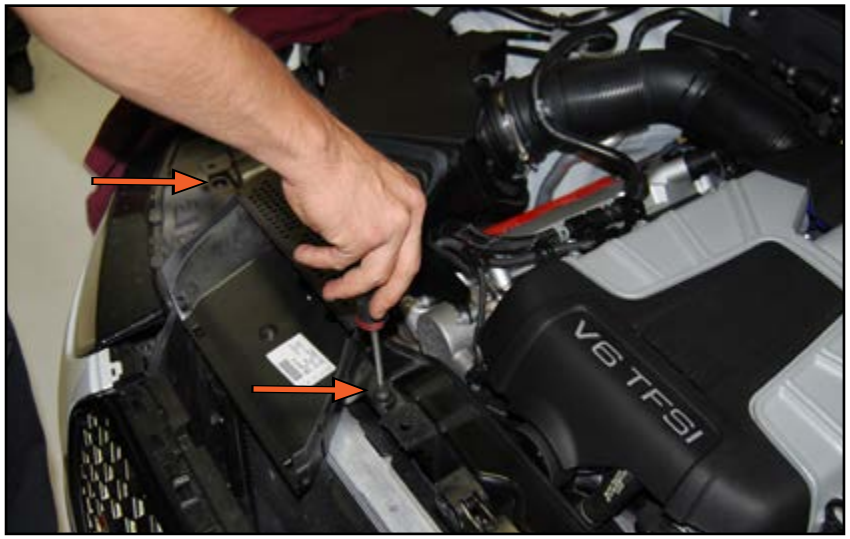
Remove the radiator shroud by lifting up on the back edge and pulling it rearward.



REMOVING THE ORIGINAL AIRBOX

Step 3:

Using a T25 Torx driver, remove the two screws securing the air scoop to the core support.

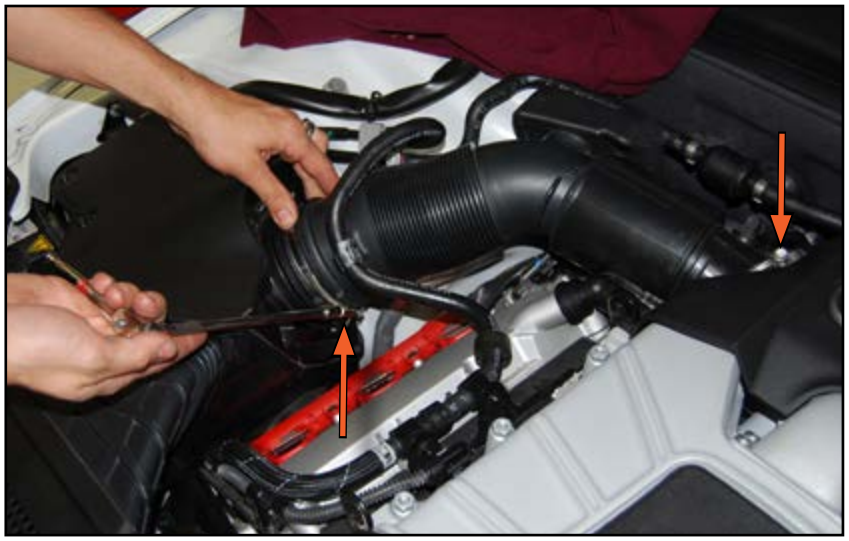


Step 4:

Using a 7mm socket or flat blade screwdriver, loosen the hose clamps at both ends of the intake tube.

NOTE

We are installing this intake on a post-facelift S4. The hose routing over the intake tube is slightly different on a pre-facelift car.



REMOVING THE ORIGINAL AIRBOX

Step 5:

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

Step 6:

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

REMOVING THE ORIGINAL AIRBOX

Step 7:

Pull up on both sides of the airbox to release it from it's mounting grommets, then lift it up just enough to access the secondary air tube located in the lower front corner. It's a tight fit, but there is enough room to get your hand between the fender and airbox. Remove the air tube by squeezing the two retainers together (arrows) and pulling downwards. With the tube removed, lift the original airbox out of the car.

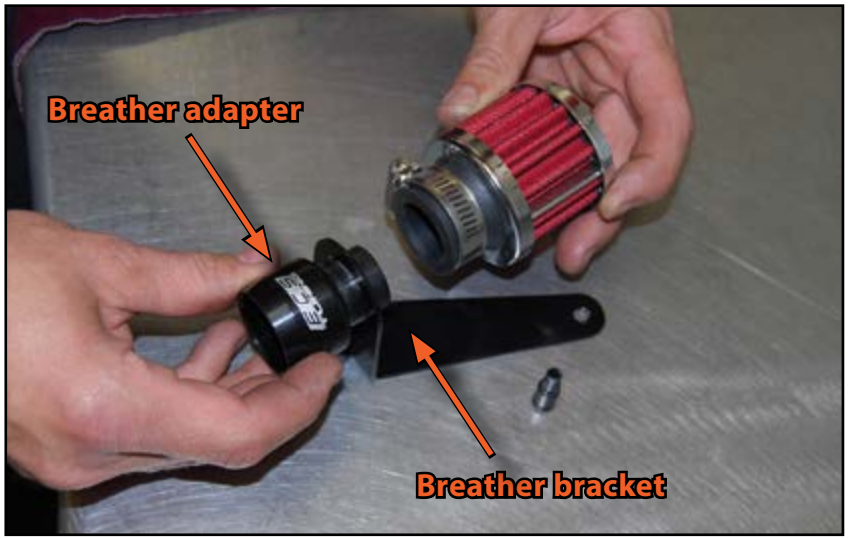
Step 8:

Using a T30 Torx bit, remove the screw for the inner fender bracket. Next, rotate the bracket in a clockwise direction to unhook it from the fender, and remove it from the car.

INSTALLING THE NEW CARBON FIBER INTAKE

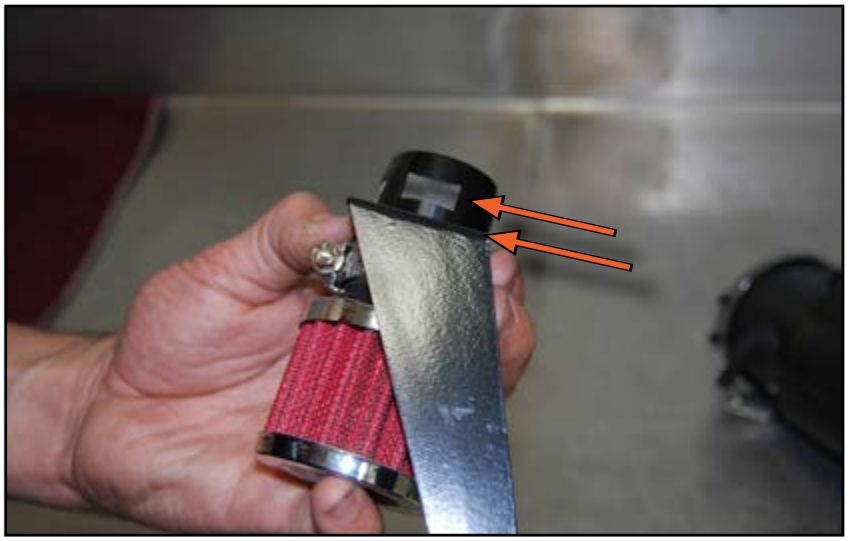
Step 1:

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 picture.



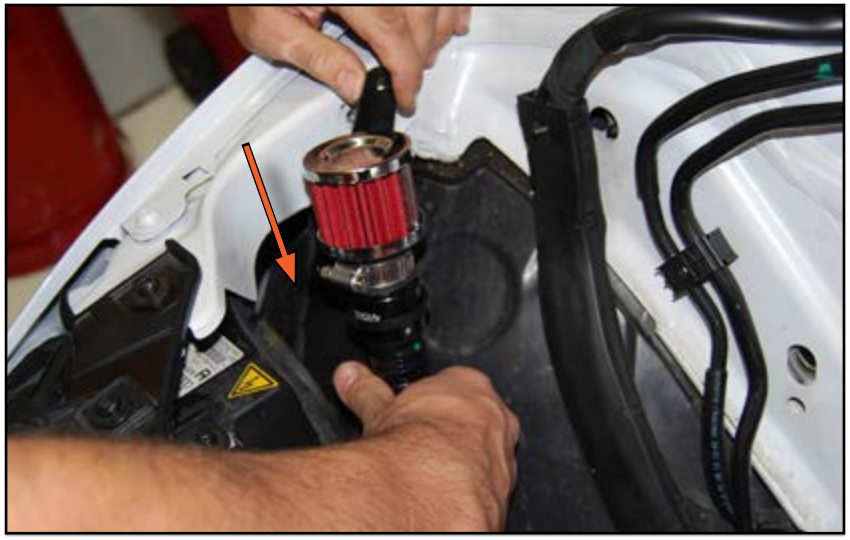
INSTALLING THE NEW CARBON FIBER INTAKE

Step 3:

Tighten the hose clamp on the breather filter.

Step 4:

Push the breather adapter into the secondary air hose until it snaps securely in place.



INSTALLING THE NEW CARBON FIBER INTAKE

Step 5:

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 using a flat blade screwdriver.

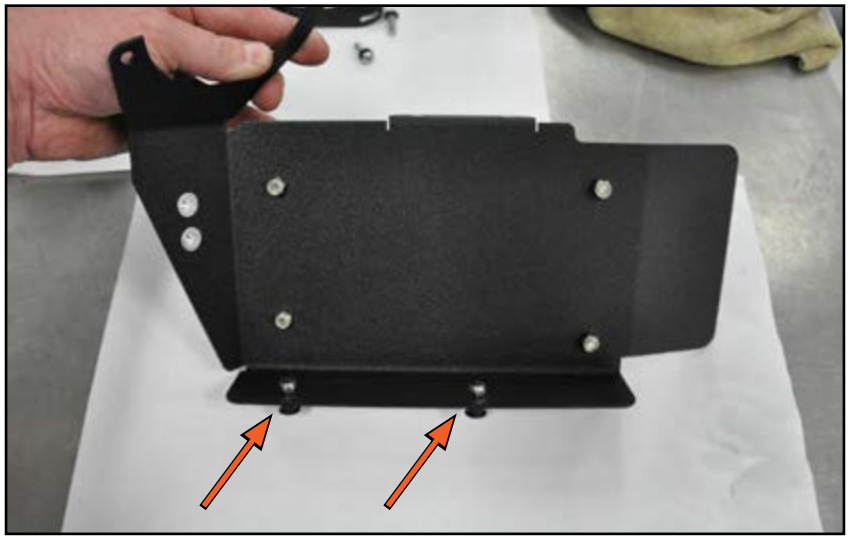
Step 6:

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

INSTALLING THE NEW CARBON FIBER INTAKE

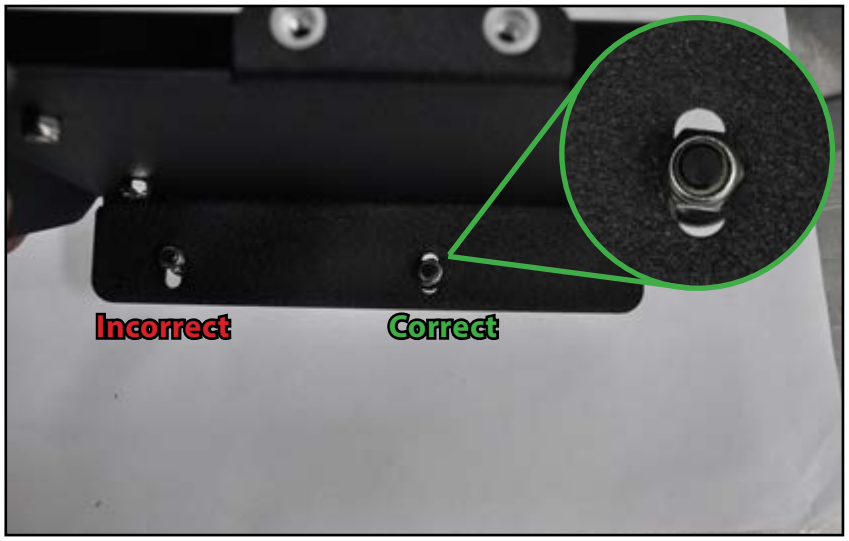
Step 7:

Locate the two adjustable “feet” on the bottom of the twin layer heat shield.



Step 8:

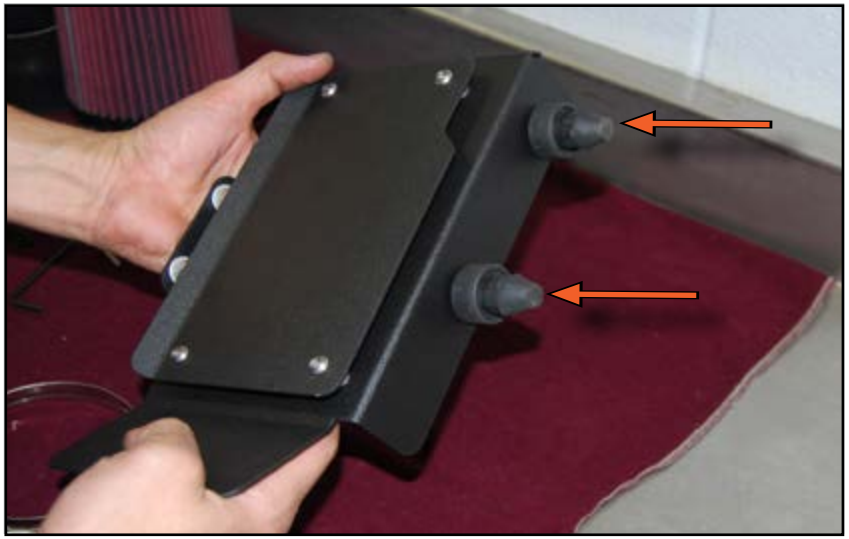
Both of the “feet” should be located approximately in the center of the slot for this application. If they are not, simply loosen them, position them in the center, and re tighten them. The nuts are 10mm and the flats on the “feet” can be held with an 8mm wrench.



INSTALLING THE NEW CARBON FIBER INTAKE

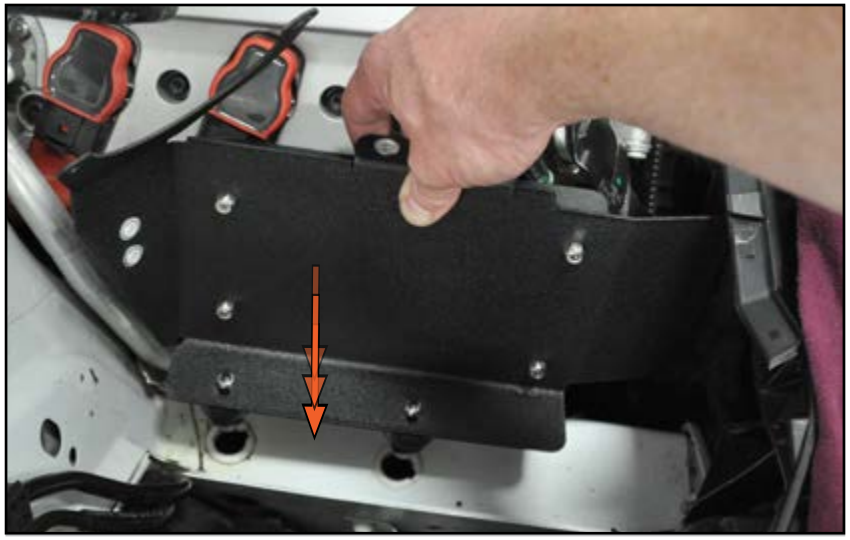
Step 9:

Push the mounting grommets (removed in step 6) onto the two “feet” of the twin layer heat shield.



Step 10:

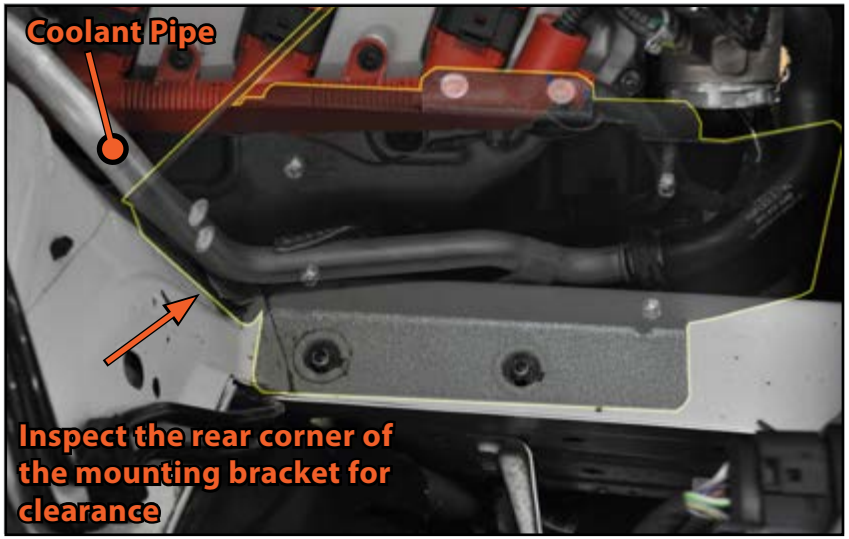
Install the twin layer heat shield into place in the engine compartment by aligning the rubber mounting grommets with their mounting holes and pushing them down until they are fully seated.



INSTALLING THE NEW CARBON FIBER INTAKE

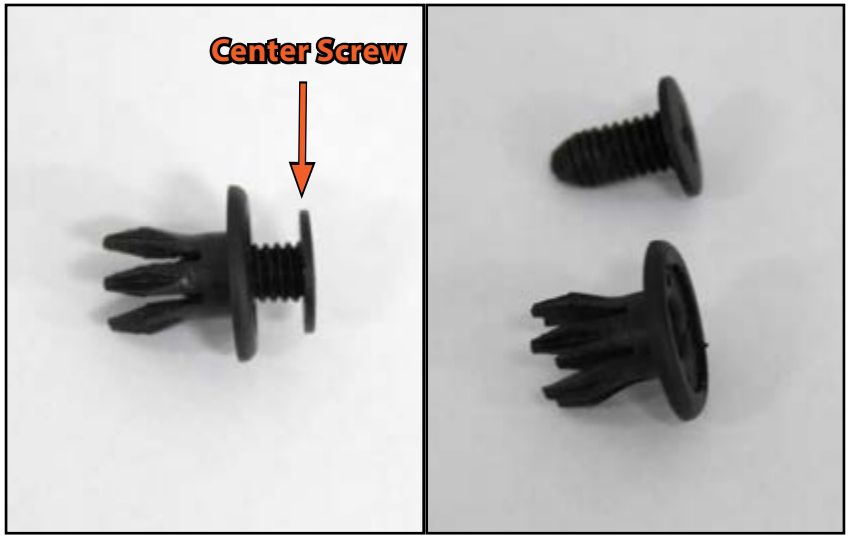
Step 11:

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:

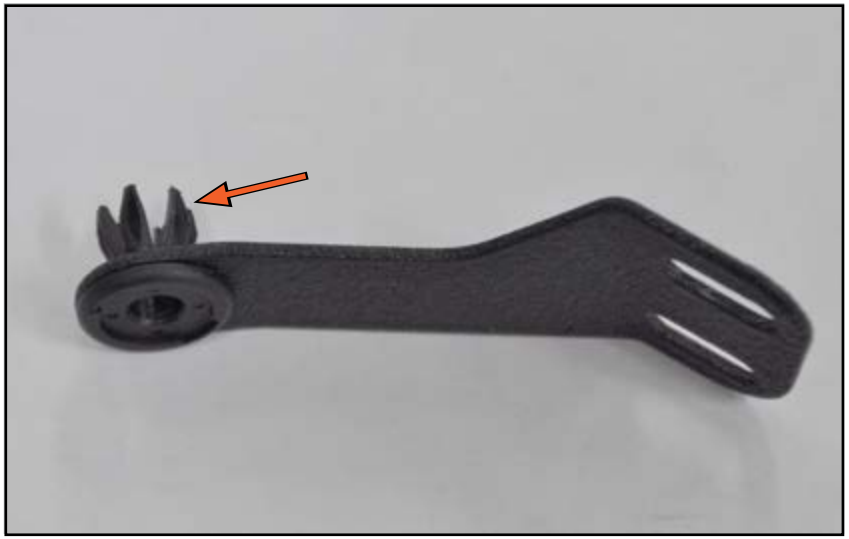
Remove the center screw from the expanding rivet by completely unthreading it.



INSTALLING THE NEW CARBON FIBER INTAKE

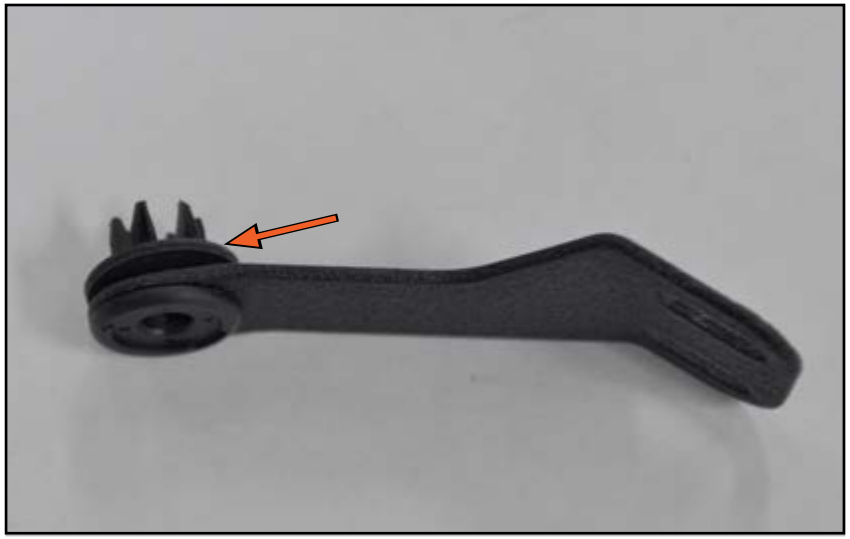
Step 13:

Push the expanding rivet through the end of the support bracket.



Step 14:

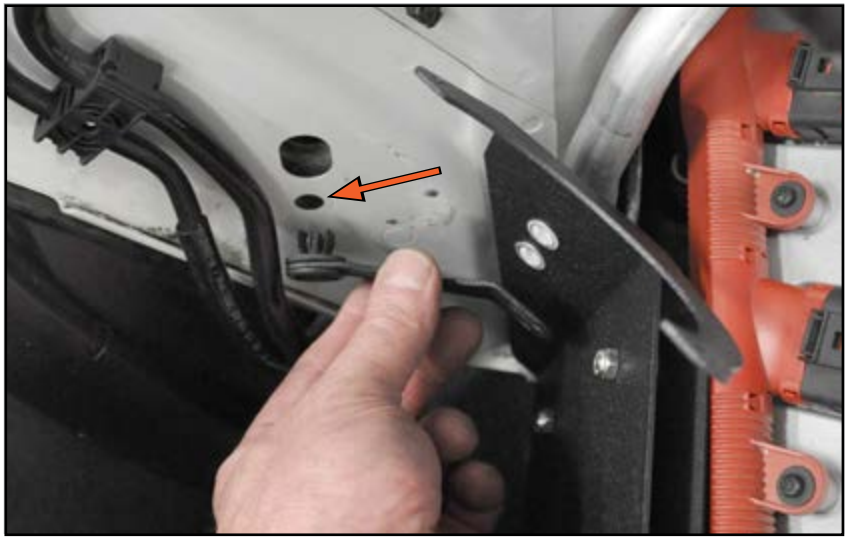
Install the insulating washer onto the expanding rivet.



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).



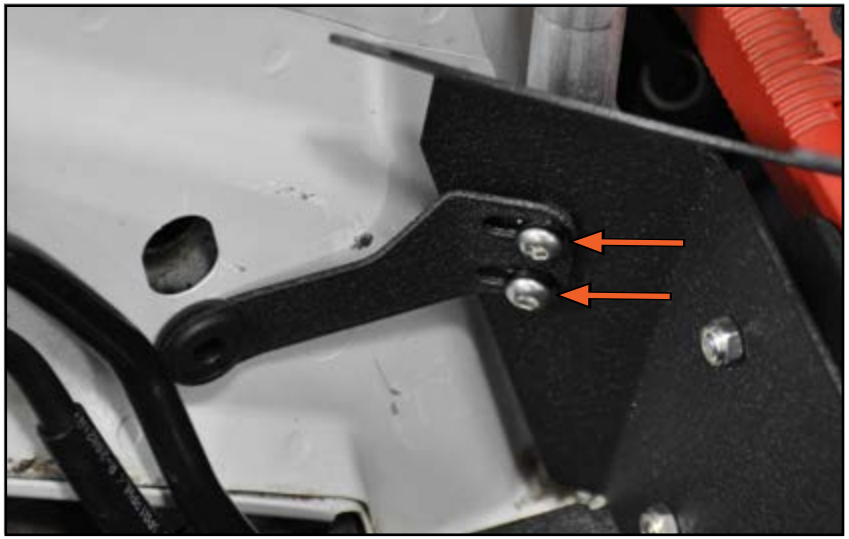
Step 16:

Push the expanding rivet into the hole in the shock tower.

INSTALLING THE NEW CARBON FIBER INTAKE

Step 17:

Place a nylon washer onto two of the M6 x 20 mounting screws, then install the screws through the support bracket and into the twin layer heat shield. Do not tighten the screws at this time.



Step 18:

Push in the center screw for the expanding rivet until it is fully seated.

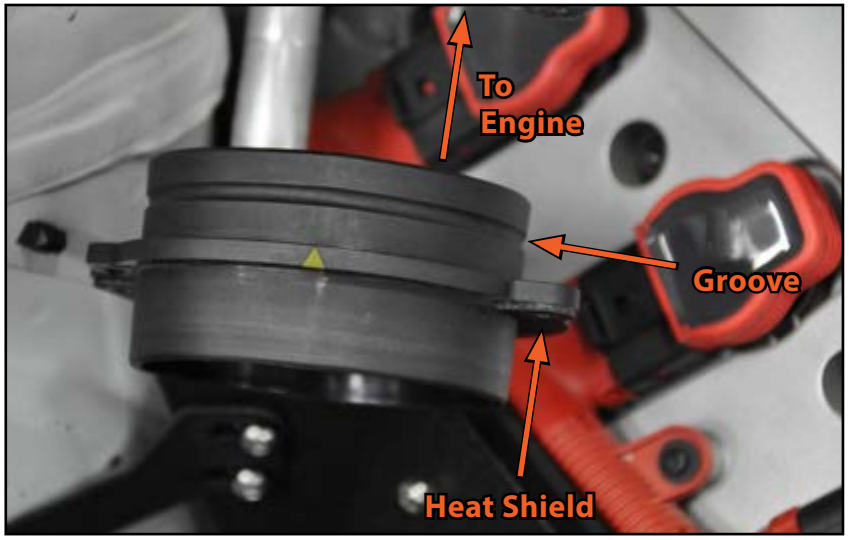
INSTALLING THE NEW CARBON FIBER INTAKE

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 twin layer heat shield, making sure the grooved side of the coupler is located on the outside (engine side) of the heat shield.



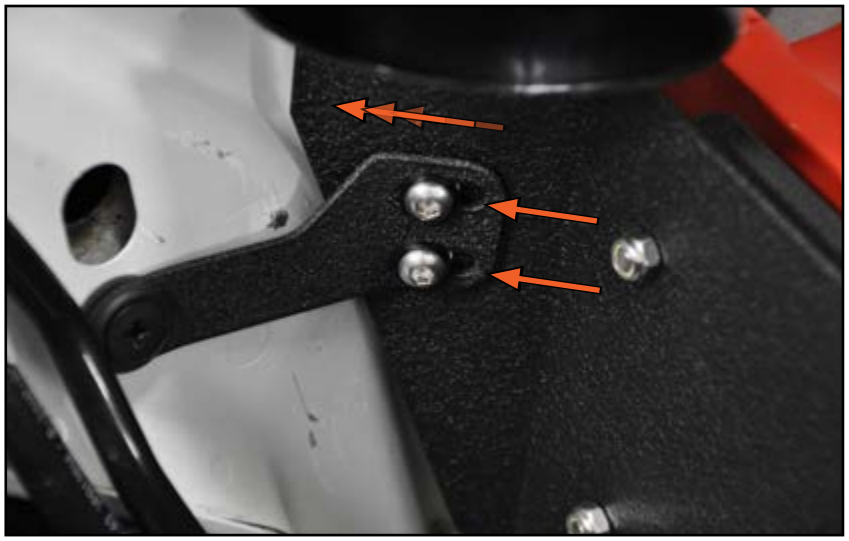
INSTALLING THE NEW CARBON FIBER INTAKE

Step 21:

Install the two M6 x 14 screws and two self locking nuts, making sure the nuts are located on the engine side of the coupler. Tighten them using a 4mm allen and a 10mm socket or wrench.

Step 22:

Push the twin layer heat shield toward the shock tower and tighten the two M6 x 20 screws using a 4mm allen. Make sure that the heat shield is pushed toward the RH (passenger) side of the car so the the screws are all the way to the side of the slots as shown in the picture.



INSTALLING THE NEW CARBON FIBER INTAKE

Step 23:

Push the 3" hump coupler onto the throttle body. Position both 3" clamps in place over the coupler. Do not tighten the clamps at this time.

Step 24:

Push the 4" straight coupler onto the Carbon Fiber Intake tube, then place both 4" hose clamps onto the straight coupler but do not tighten them at this time. Now push the Carbon Fiber Intake tube into the 3" hump coupler, making sure the fuel lines are properly located around the intake tube.

NOTE

The intake tube fits tightly into the silicone couplers. 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. Make sure 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 airbox is positioned on the back side of the hose so it does not interfere with the Carbon Fiber intake lid.

CARBON FIBER 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:

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 airbox coupler until it is fully seated. Tighten the filter clamp using a flat blade screwdriver.

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:

Using a flat blade screwdriver, gently pry apart the two halves of the original air scoop.

Step 32:

Install the lower half of the original air scoop onto the core support using a T25 Torx bit and 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.

NOTE

We are installing this intake on a post-facelift S4. The hose routing over the intake tube is slightly different on a pre-facelift car.

Step 34:

Install the two air box lid M6 x 20 mounting screws with a flat plastic washer under each screw. Tighten them hand tight using a 4mm allen socket and long extension.

NOTE

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.

CARBON FIBER 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.

TECH TIP

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 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 knick 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 knicked 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.

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.

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