Volkswagen MKVI 2.0T
ECS Tuning
Kohlefaser Luft-Technik System
Installation
Tutorial
ES2712727

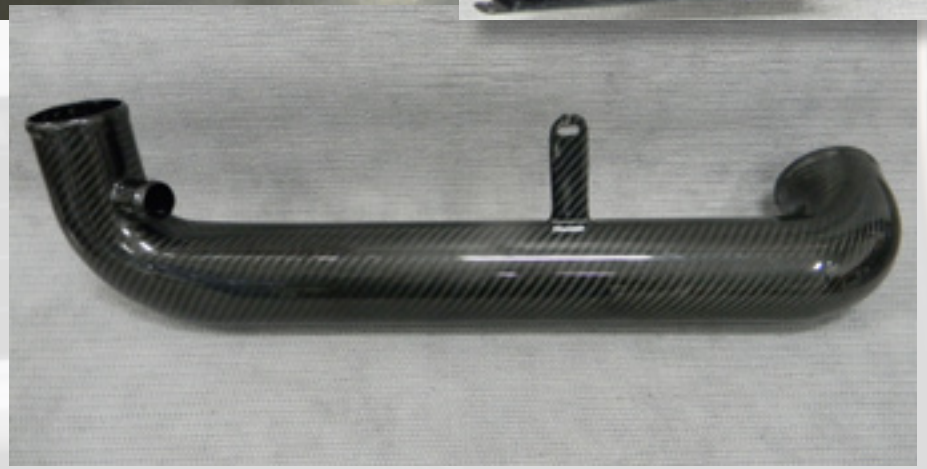
ES2739920

Required Tools:

Flex Driver For Screw Type Hose Clamps*
Phillips Screwdriver
Torx T25 bit
Torx T30 bit
3/8” ratchet
1/4” ratchet with 6” extension
4mm Allen wrench
5mm Allen socket
Spring clamp pliers (or locking plier)
Schwaben VAG connector tool*
**Available at ECStuning.com*

Before Installation, familiarize yourself with the ECS Tuning MKVI 2.0T Carbon Fiber Intake Kit

(1) Carbon Fiber Air box
(1) Carbon Fiber Lid
(1) ECS Tuning High Flow Air Filter with clamp
(1) Carbon Fiber Air Filter Tube
(1) Carbon Fiber Turbo Inlet Tube
(4) Stainless Hose Clamps 65mm-89mm
(2) Stainless Hose Clamps 59mm-83mm
(5) 6mm Bolts with nylon washer 10mm long
(1) 6mm Bolt with large stainless steel washer 15mm long
(2) Air box grommets
(1) 3” Straight Coupler
(1) 3” Hump Coupler
(1) 2-3/8” Straight Coupler



*Kit for CBFA adds:
(1) Filter for Secondary Air Pump
(1) Filter Clamp
(1) ECS Tuning Aluminum Filter Adapter

1 Carbon Fiber Air Box and Lid
2 ECS Tuning High Flow Air Filter with clamp
3 Carbon Fiber Air Filter Tube
4 Carbon Fiber Turbo Inlet Tube
5 3” Straight Coupler
6 3” Hump Coupler
7 2-3/8” Straight Coupler

Step 1
Remove the engine cover by pulling up on the front two corners until the front grommets release, then pull up on the rear two corners until the rear grommets release. Lift the cover off and set it aside.

Step 2
Remove the two T25 Screws that secure the original intake duct to the radiator core support.

Step 3
Separate the intake duct from the adjoining intake tube by pulling the two pieces apart.

Step 4
Disconnect the mass air flow sensor by releasing the locking tab on the connector.

Use the Schwaben VAG connector tool (ES2628676) to release the clip.

Insert the tool into the MAF connector as shown, and gently pull back on the tool to release the connector.

Step 5
Pull the mass air flow wiring harness out of the retaining clip on the back of the intake connecting pipe.

Position the harness out of the way.

Step 6
Fully loosen the 8 phillips head screws that hold the original air box lid to the original lower air box.

Once loosened, these screws will remain in the air box lid. *It is not necessary to completely remove them.*

For CBFA Vehicles

Step 7
Remove the injection intake pipe by squeezing the two tabs together

Step 8
Pull the air injection pipe off of the air box lid, and set aside away from your workspace.

Step 9

Using the special spring clamp pliers, release the tension on the spring clamp holding the connecting pipe to the main intake tube. Slide the spring clamp onto the connecting pipe and leave the spring clamp pliers in place.

Tech Tip: If you do not have spring clamp pliers, you can use channel locks or standard pliers to release the tension on these clamps. If you do so, be very careful. The clamps can spring off and cause serious personal injury or damage to your car.

Separate the connecting pipe from the main intake tube by pulling it off the tube.

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Step 10
Lift the air box lid up and remove it with the mass air flow sensor and connecting pipe still connected.
Remove the spring clamp along with this assembly, then carefully slide the spring clamp off of the end of the connecting pipe, and using extreme caution, release the tension on the clamp.

Step 11
Using the same caution and method from page 8, release the tension on the spring clamp holding the connecting pipe to the mass air flow sensor.

Step 12
Pull the connecting pipe and spring clamp off of the mass air flow sensor.

Carefully slide the spring clamp off of the connecting pipe, and using extreme caution, release the tension on the spring clamp.

Step 13
Using a T25 Torx bit, remove the two screws holding the mass air flow sensor to the original air box lid.

Pull the mass air flow sensor out of the air box lid.

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Step 14
Using a 5 mm Allen bit on an extension, remove the bolt holding the lower air box in place.

Step 15
Using both hands, lift up on the lower air box to release the two insulating grommets.

Step 16
Pivot the lower air box around the coolant air bleed hose and remove it from the car.

Step 17
Using a T30 Torx bit socket, remove the bolt holding the main intake tube to the heat shield in the rear of the cylinder head.

Step 18
Remove the crank vent hose on the main intake tube by pinching the release tabs together using your thumb and forefinger, then slide the hose off of the main intake tube.

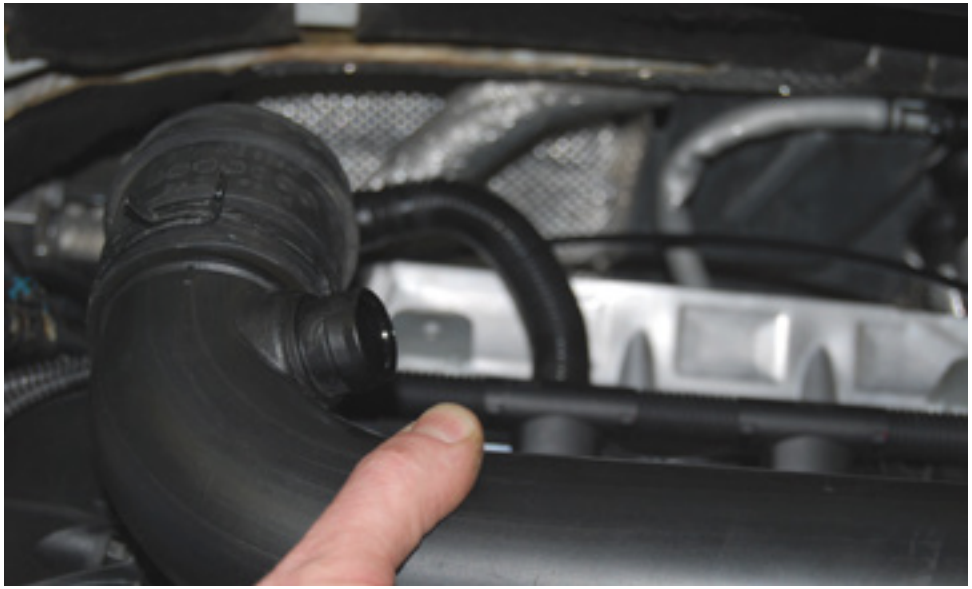
Step 19
Using the spring clamp (or locking) pliers, release the tension on the clamp holding the main intake tube hose to the turbocharger.

Note: This clamp is difficult to access. This picture shows the main intake tube removed for reference.

Step 20
Remove the main intake tube and hose by pulling upward on the main intake tube.

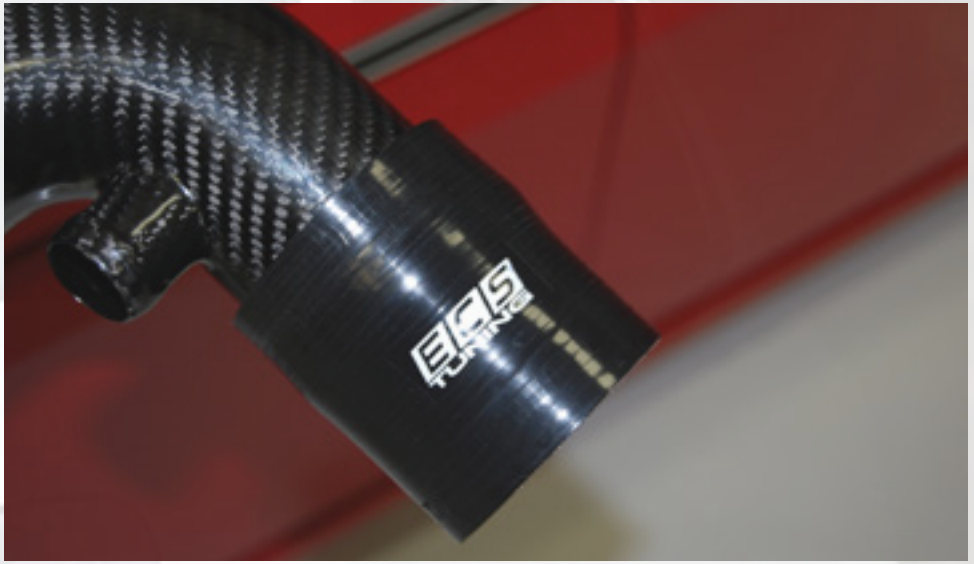
Remove the clamp with this assembly.

Using caution, remove the spring clamp and release the tension on the clamp.



You are now ready to install
the new ECS Tuning Kohlefaser Luft-Technik System

Step 1
Slide the 2-3/8 straight coupler onto the turbo end of the carbon fiber turbo inlet tube.



Step 2
Install one of the 59mm-83mm hose clamps on the top of the 2-3/8 coupler and tighten it using a flex driver for screw-type hose clamps. Use caution not to overtighten.

While the flex-driver is the preferred tool for this step, a 7mm socket on an extension will suffice. Take extra caution to avoid marring the carbon fiber surface.

Flex Driver For Screw Type Hose Clamps
ES5013

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Step 3
Place the other 59mm-83mm hose clamp over the 2-3/8 coupler and install the turbo inlet tube/coupler assembly onto the turbocharger.

Step 4
Tighten the lower hose clamp using the flex driver.

Tech Tip: Some brackets may be in hard to reach places. You may wish to use a small socket or flex driver tool for screw type hose clamps.

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Step 5
Connect the crankcase ventilation hose by pushing it into place on the turbo inlet tube.

Step 6
Install the bolt holding the carbon fiber turbo inlet tube to the heat shield on the rear of the cylinder head.

Note: For Jetta GLI it may be necessary to adjust the mounting tab on the heat shield approximately 20 degrees for proper clearance.

Step 7
Tighten the bolt using a T30 Torx bit socket and ratchet.

Step 8
Place one of the 65mm-89mm clamps over the end of the 3” hump coupler and push the coupler onto the carbon fiber turbo inlet tube.

Do not tighten the clamp at this time.

Note: Pay attention to the location/direction of the clamp screw. All 4 clamps should be installed with the clamp screw in the same direction for ease of access as well as uniform appearance.

Step 9
Connect the mass air flow sensor connector to the mass air flow sensor by pushing it on until you hear the faint “click” of the connector locking tab engaging.

Step 10
Place one of the 65mm-89mm clamps over the remaining end of the 3” hump coupler. Push the mass air flow sensor into the 3” hump coupler. *Do not tighten the clamps at this time.*

Note: Pay attention to the arrow on the mass air flow sensor to make sure it is installed in the correct direction. The arrow points in the direction of air flow (to the engine).

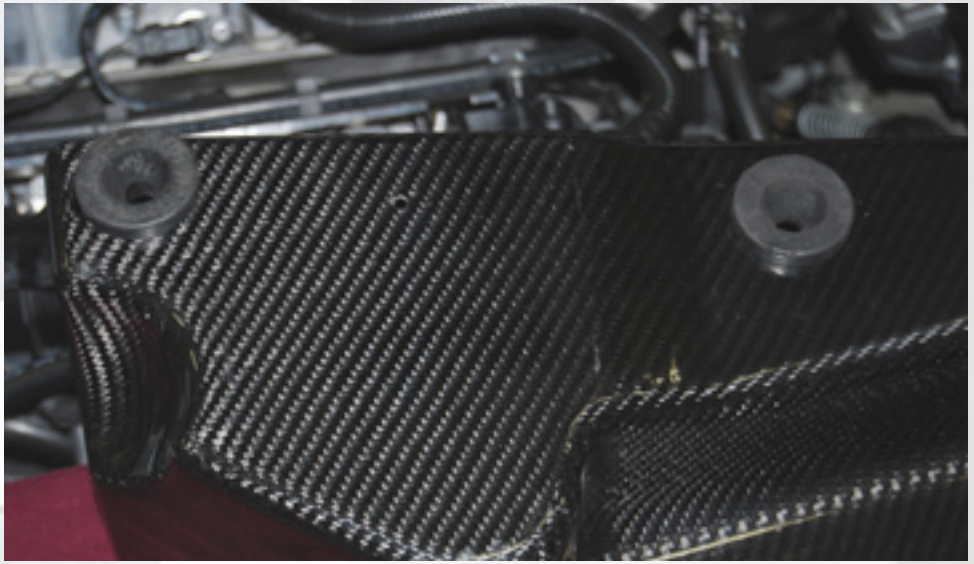
For CBFA Vehicles

Step 11
Insert the secondary air pipe adapter into the air pipe filter and tighten the clamp.

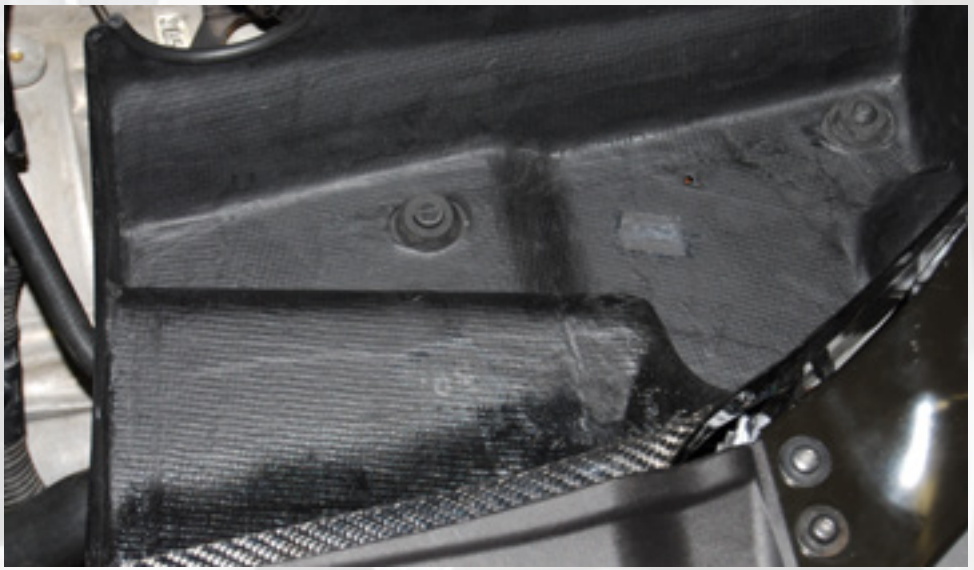
Step 12
Insert the secondary air pipe adapter into the air pipe filter and tighten the clamp.

Secure the secondary air pipe and filter underneath the air box and out of the way.

Step 13
Install the 2 grommets into the bottom of the carbon fiber air box.



Step 14
Align the carbon fiber air box and duct, and push downward on the carbon fiber air box until the grommets are seated in place.

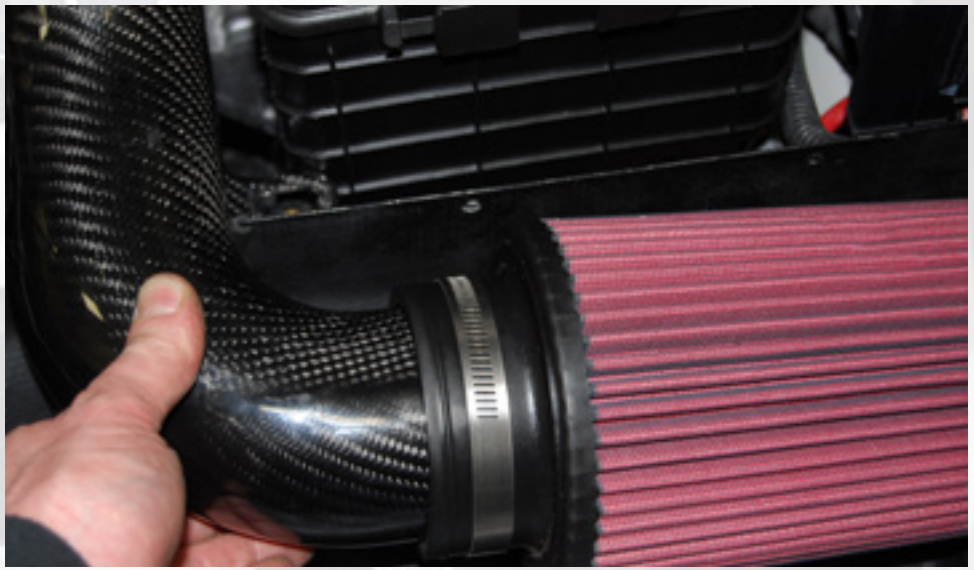


Step 15
Using a T25 Torx bit, install and tighten the two screws that secure the carbon fiber air box duct to the radiator core support.

Tech Tip: A small amount of grease placed on the tip of the Torx bit will hold the screws in place and keep them from falling off.

Step 16
Slide the ECS Tuning high flow air filter element with the clamp in place onto the carbon fiber air filter tube.
Hold the air filter and tube in place in the carbon fiber air box to adjust the position of the filter. Do not tighten the clamp at this time.

Note: Use the mounting tab of the air filter tube as a reference point in determining the correct location of the filter. Make sure the air filter seam is at the bottom of the filter.

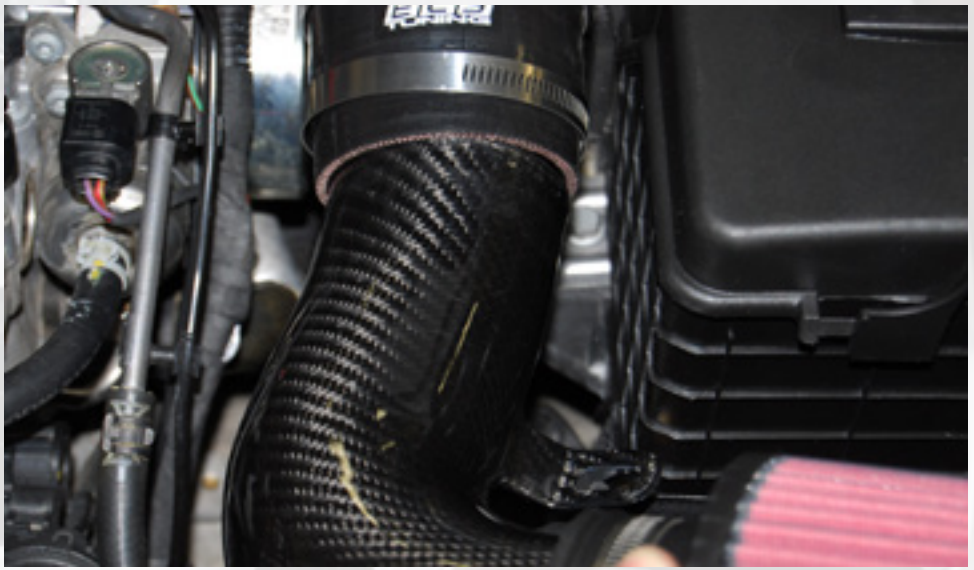


Step 17
Lift the air filter and carbon fiber air filter tube out and fully tighten the clamp on the air filter.

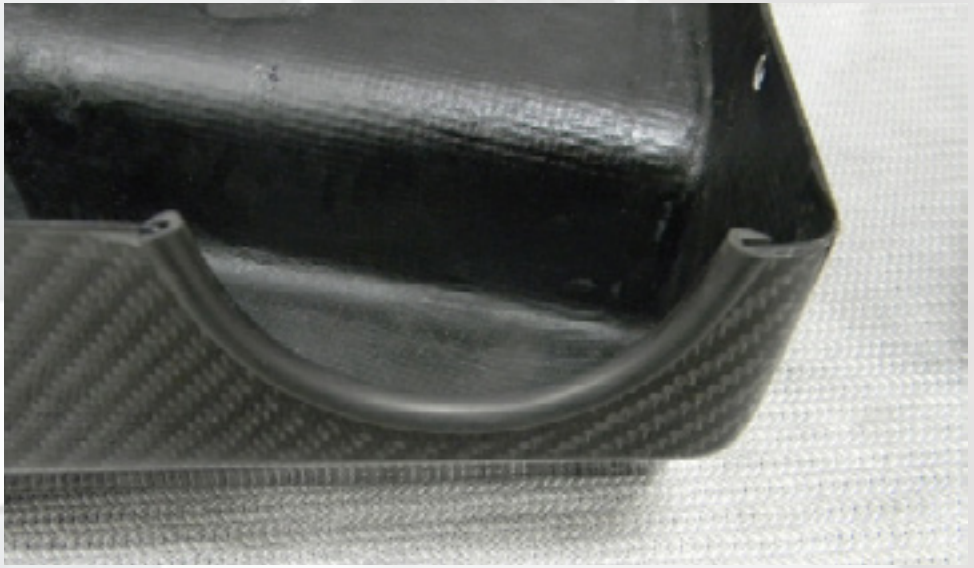
Step 18
Install the 3” straight coupler onto the end of the mass air flow sensor.

Step 19
Place both remaining 65mm-89mm hose clamps over the 3” straight coupler.
Do not tighten the clamps at this time.

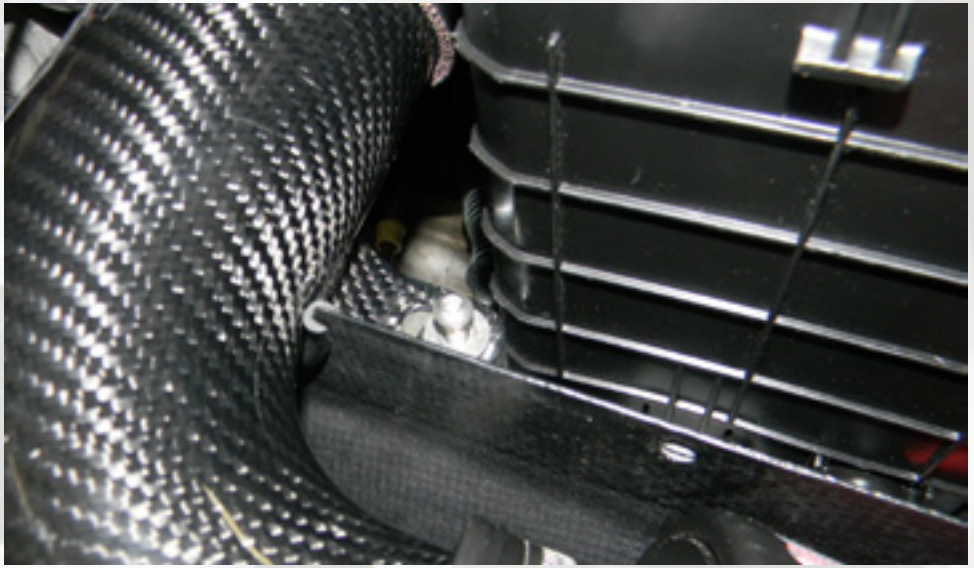
Step 20
Insert the carbon fiber air filter tube into the 3” straight coupler.



Step 21
Be sure the Air Filter Tube to Air Box seals remain in place during installation.



Step 22
Loosely install the 15mm long Allen bolt that secures the carbon fiber air filter tube in place.

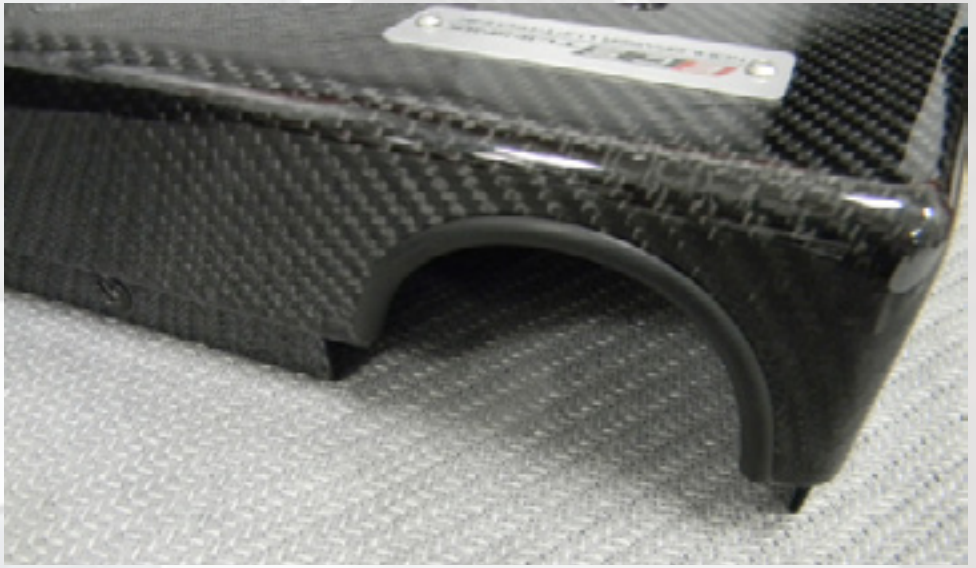


Step 23
Carefully adjust the carbon fiber air filter tube, the mass air flow sensor, and both couplers so everything is aligned nicely and both couplers are properly seated.

Tighten all 4 hose clamps, paying attention to the alignment of the clamps in order to obtain a clean and neat appearance.

Step 24
Tighten the air filter tube securing bolt and stainless steel washer using a 4mm Allen socket. A ratchet extension can be helpful here.

Step 25
Place the carbon fiber air box lid on top of the carbon fiber air box.

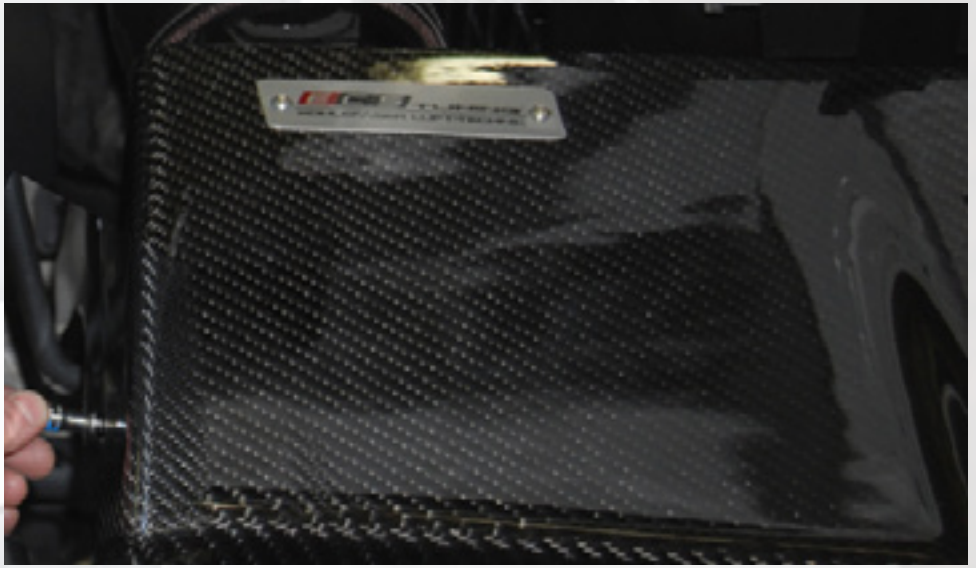


Be sure the Air Filter Tube to Air Box seals are still properly in place during installation.

Step 26
Remove the battery cover by pushing the release tab in the direction of the arrow on the cover and lifting upwards.

Note: Removing the battery cover will allow you to more easily access to the 2 screws on the back side of the carbon fiber airbox lid.

Step 27
Loosely install all 5 Allen head screws with black nylon washers through the holes in the carbon fiber air box lid, into the air box.



Step 28
Using a 4mm Allen wrench, hand tighten all 5 screws securing the carbon fiber air box lid to the carbon fiber air box.

Be careful not to over tighten these screws, or you could crack the carbon fiber or strip the threads.

Step 29
Re-install the upper engine cover, and if you have removed the battery cover, reinstall the cover.

The Installation is now Complete!

Enjoy your freer flowing, show-quality, full carbon-fiber intake.

The ECS Tuning Kohlefaser Luft-Technik System will now deliver noticable increases in power and throttle response!

This tutorial is provided as a courtesy by ECS Tuning.

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