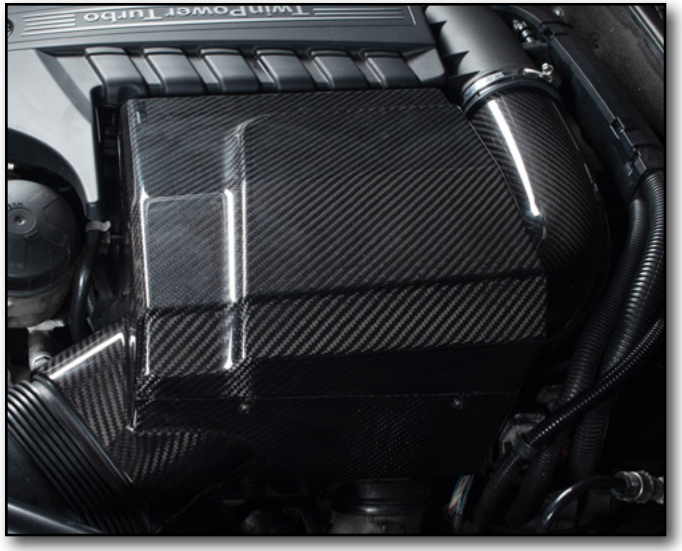
BMW F10 535i
Carbon Fiber Intake System
Installation Instructions



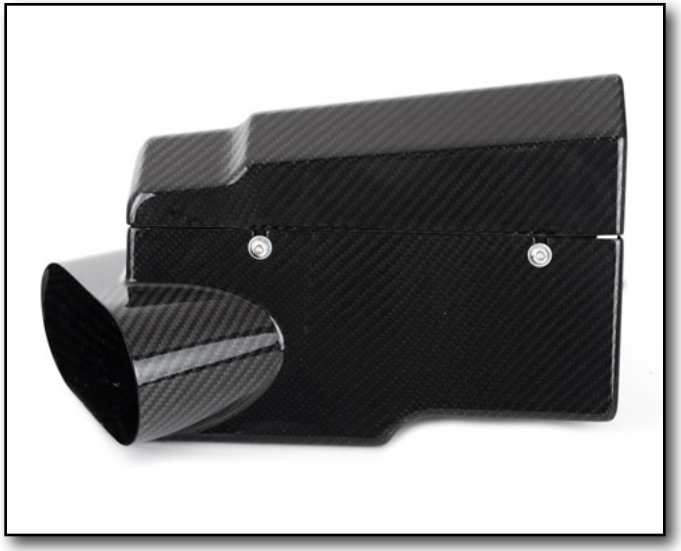
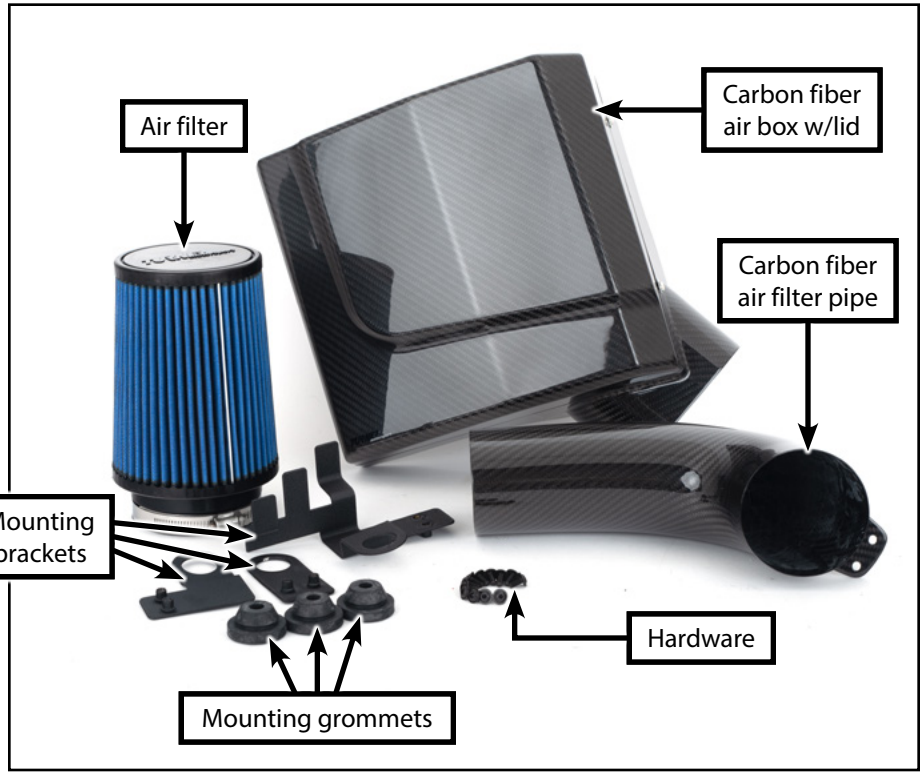
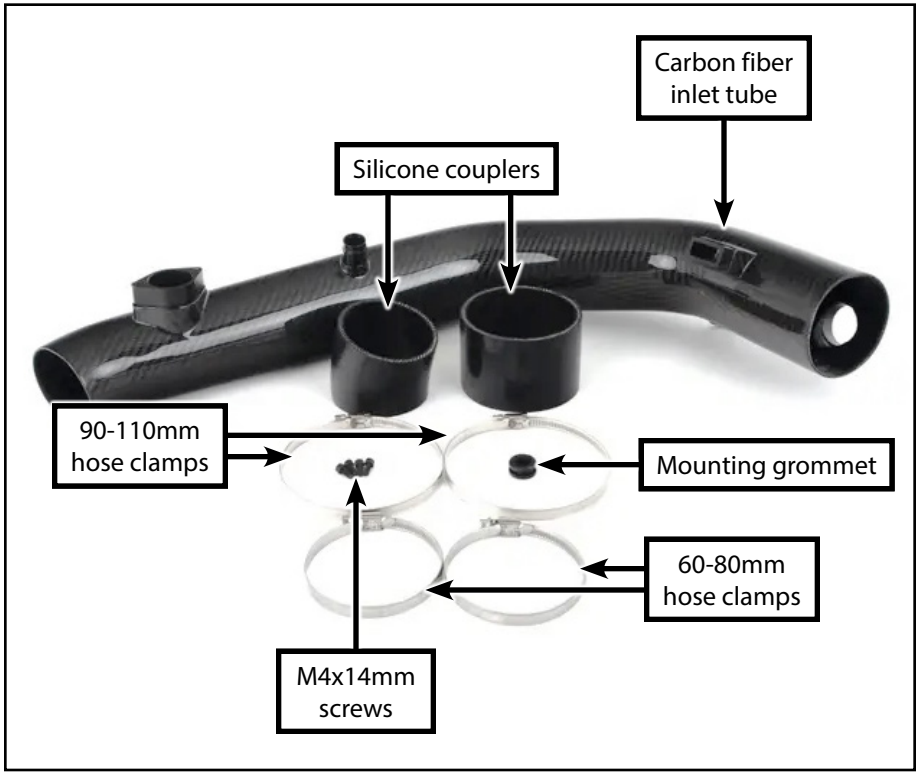


TABLE OF CONTENTS

KIT CONTENTS



Turner F10 535i Enclosed Carbon Fiber Intake System



OPTIONAL: Turner F10 535i Carbon Fiber Inlet Tube Kit

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

Turner Motorsport 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 STOCK AIR BOX

Step 1: 7mm Socket & Ratchet

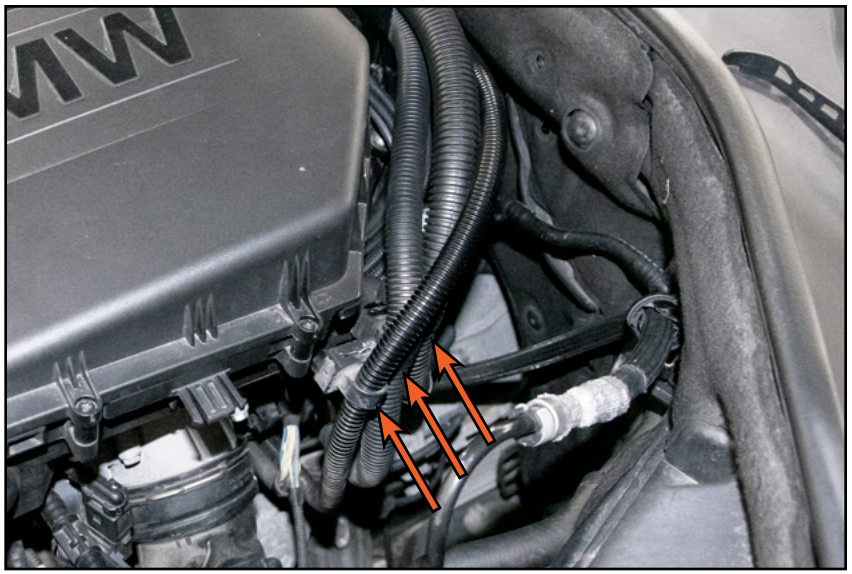
Loosen the clamp (arrow) which secures the factory air box to the intake pipe.

If you purchased the carbon fiber inlet pipe kit by itself:

- Remove the engine cover as outlined on Page 5.
- Then skip ahead to Page 6.

Step 2:

Release the three wiring harnesses (arrows) from the back corner of the air box.



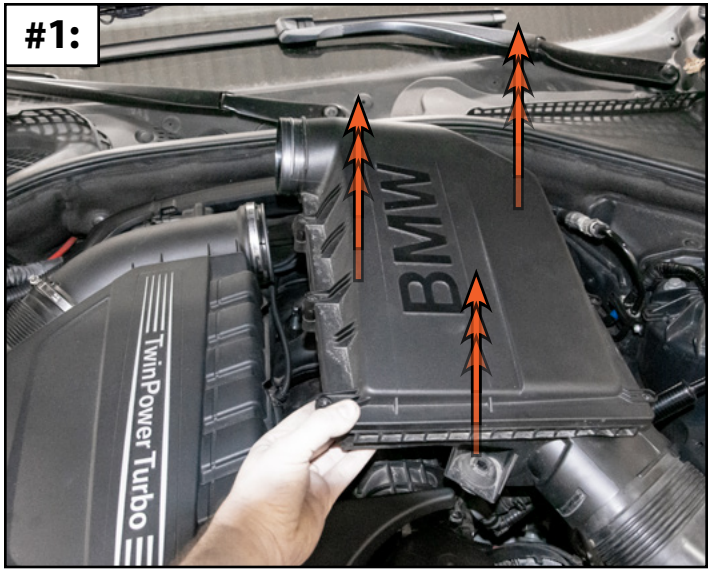
REMOVING THE STOCK AIR BOX

Step 3:

Lift up to pop the stock air box free from its mounting grommets then wiggle it free from the intake pipe (**Photo #1**).

Rotate the air box free from the inlet duct and remove it from the vehicle as shown (**Photo #2**).

Now it's time to remove the engine cover. Start by lifting up on the front of the cover to pop it free from the front grommets, then pull it toward the front of the vehicle to slide it out of the rear grommets which are built into the turbo inlet pipe (**Photo #3**).



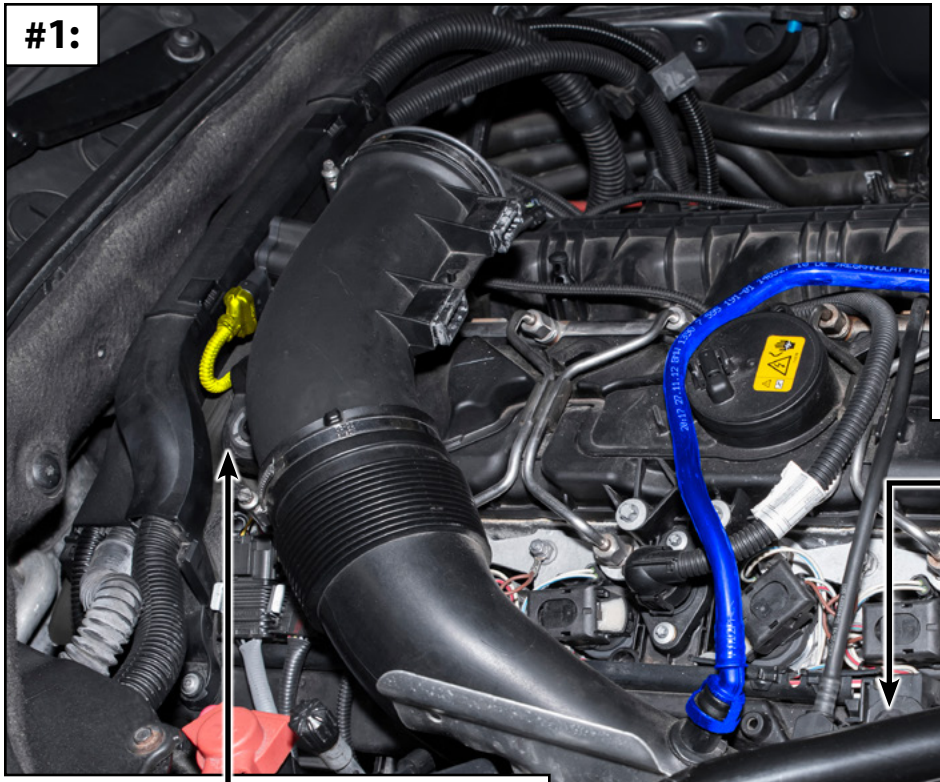
REMOVING THE STOCK INLET TUBE

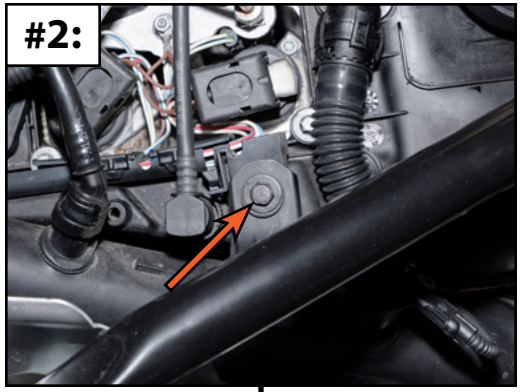
Step 1:

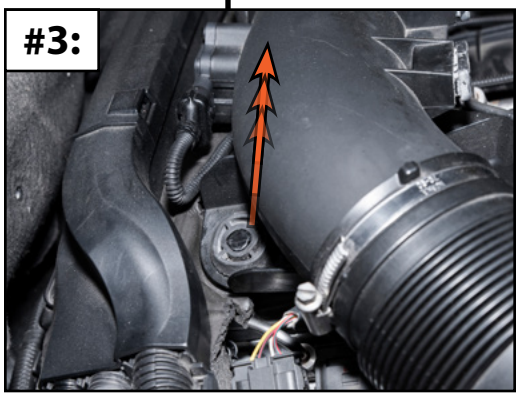
Gently pry back the four tabs on the crankcase vent tube and pull it off of the port on the valve cover (highlighted in **RED** in **Photo #1**). Disconnect the wiring harness from the PCV heater (highlighted in **GREEN** in **Photo #1**). Disconnect the wiring harness from the Mass Air Flow sensor (highlighted in **YELLOW** in **Photo #1**). Disconnect the small vent pipe from the inlet tube (highlighted in **BLUE** in **Photo #1**). Loosen the hose clamp (arrow in **Photo #1**) which secures the inlet tube.

Loosen the 10mm bolt (arrow in **Photo #2**) which secures the inlet tube to the engine.

Lift up on the upper end of the inlet tube to release the rubber grommet from the valve cover (**Photo #3**).







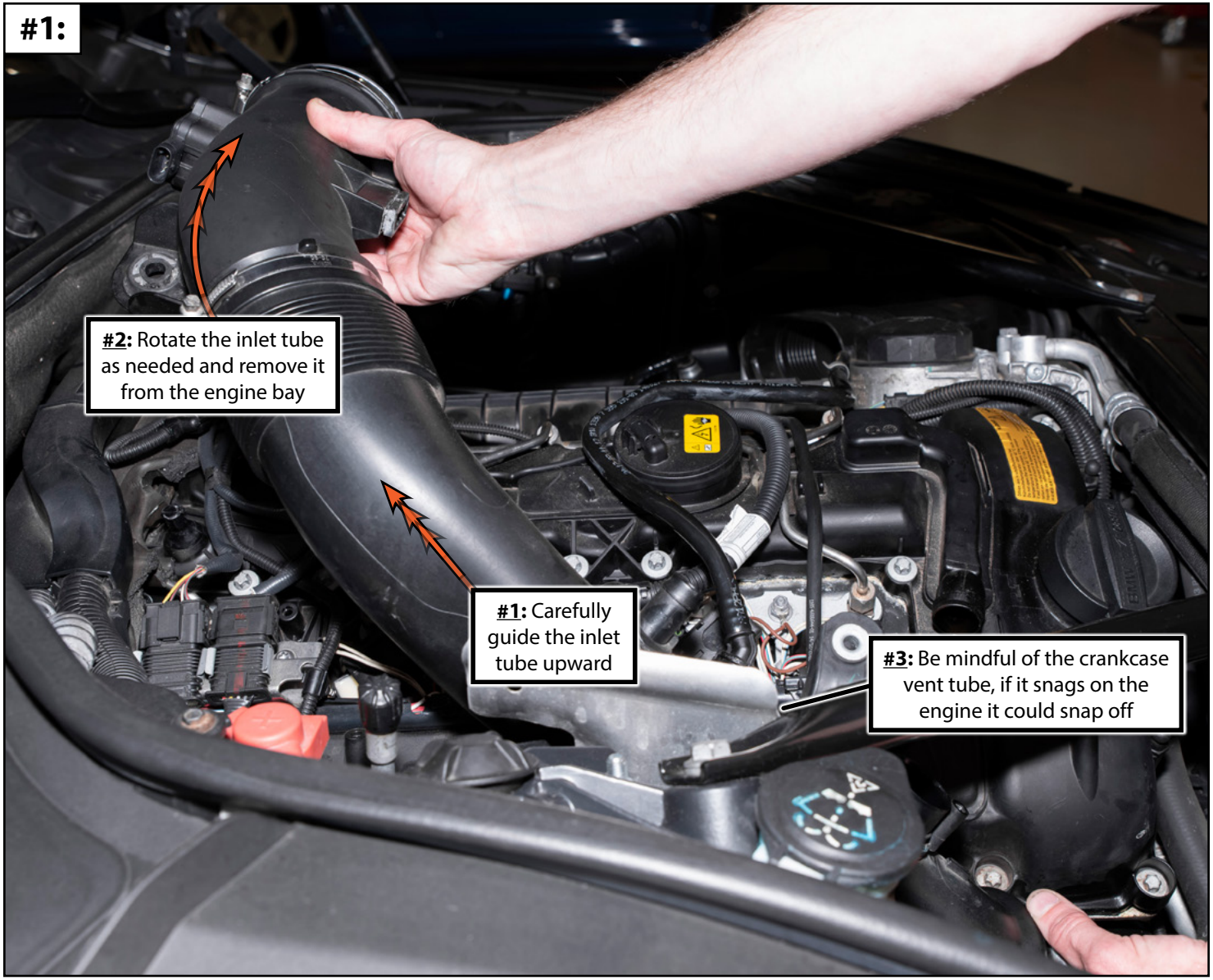
REMOVING THE STOCK INLET TUBE

Step 2:

Remove the inlet tube as outlined in **Photo #1**.

Be careful not to break or damage the crankcase vent tube during removal.

#1:



INSTALLING THE NEW CARBON FIBER INLET TUBE

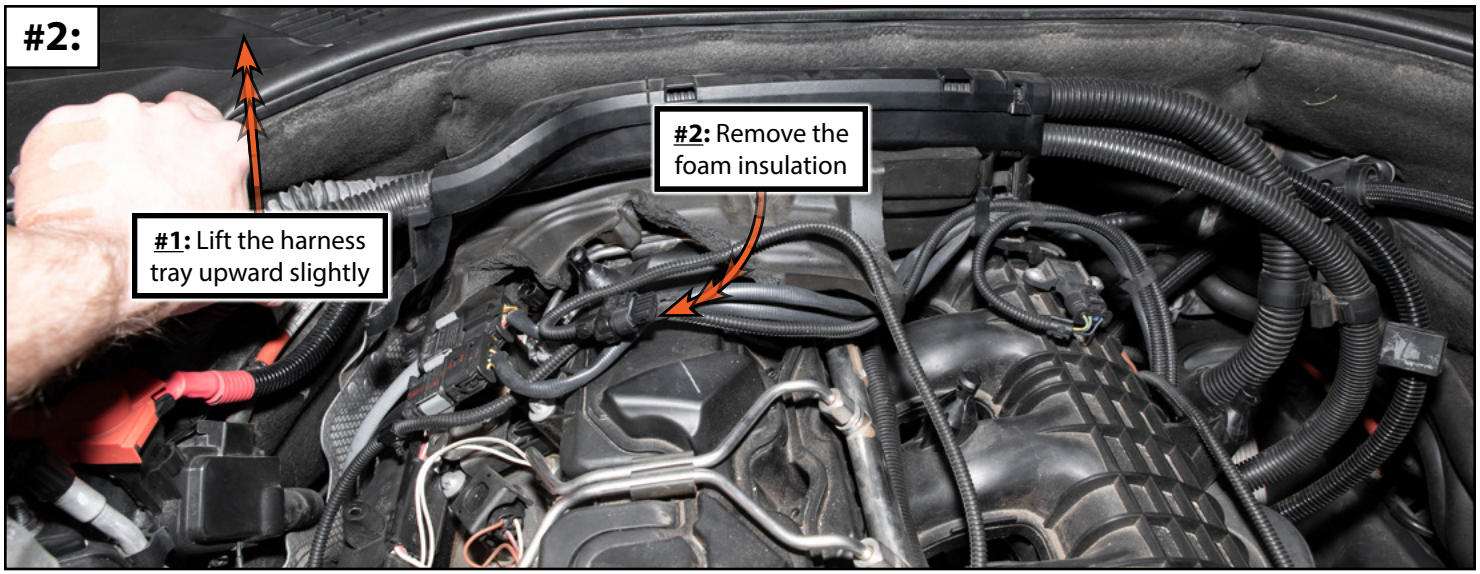
Step 1:

There is a piece of foam insulation (highlighted in **GREEN** in **Photo #1**) underneath the wiring harness tray. This foam will need to be removed or cut away to make room for the larger diameter carbon fiber inlet tube.

Remove the five T25 Torx screws which secure the wiring harness tray into place (arrows in **Photo #1**). Lift the harness tray upward slightly and pull the foam out from underneath it (**Photo #2**).

#1:

#2:



INSTALLING THE NEW CARBON FIBER INLET TUBE

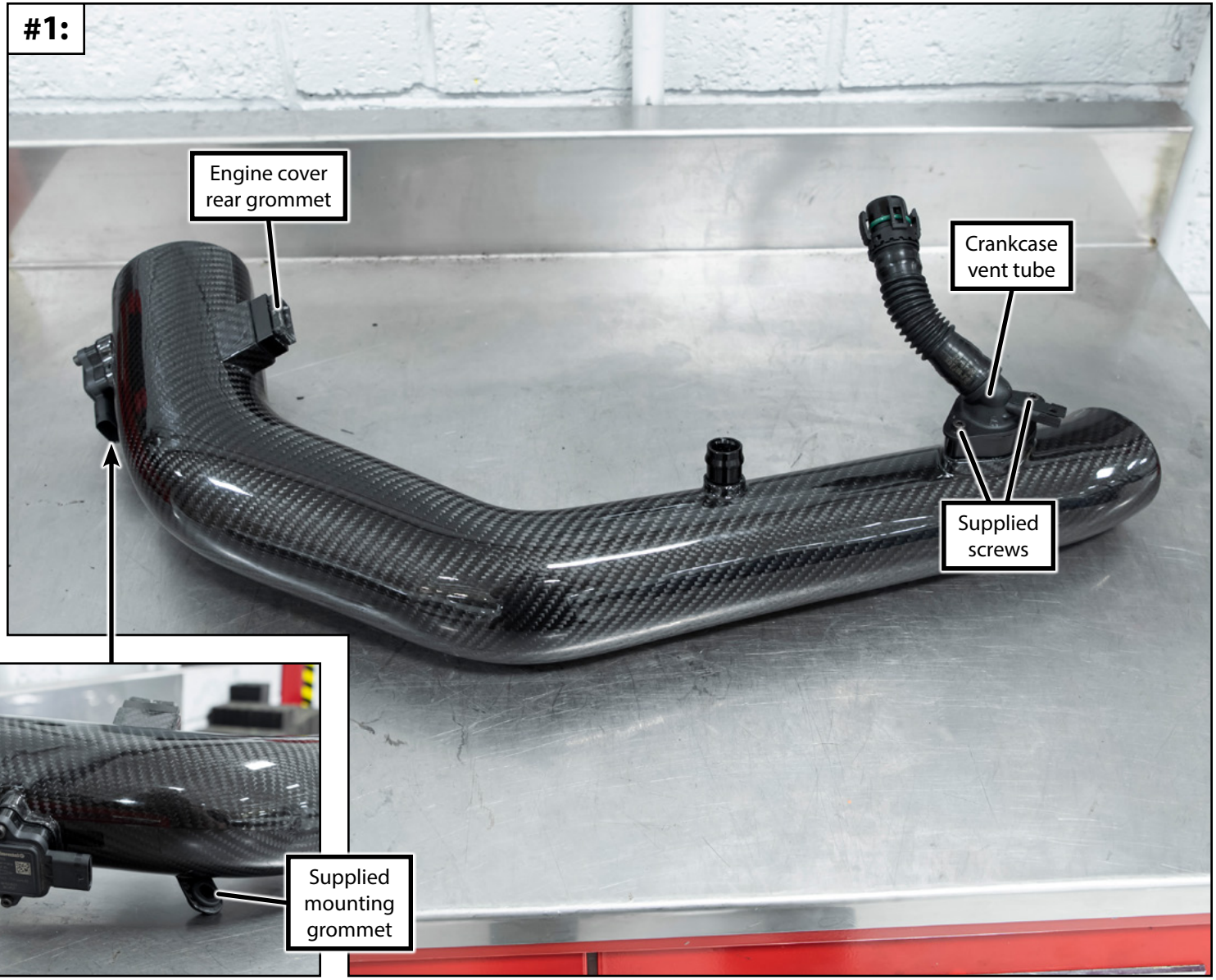
Step 2:

Transfer the MAF sensor and the crankcase vent tube over to the new CF inlet tube (**Photos #1 & #2**). Secure them into place with the supplied M4 screws.

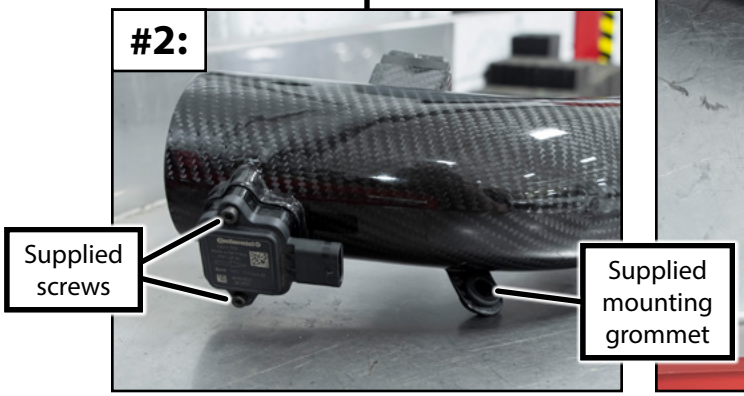
Remove one of the engine cover rear grommets from the stock inlet tube and slide it into place inside the new inlet tube (**Photo #1**).

Install the supplied mounting grommet into the tab underneath the new inlet tube (**Photo #2**).

#1:



#2:



INSTALLING THE NEW CARBON FIBER INLET TUBE

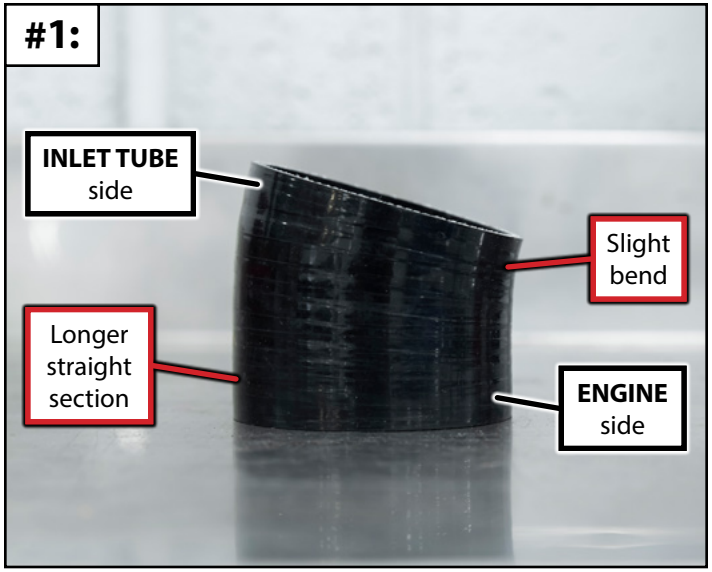
Step 3:

The silicone coupler must be installed in the orientation shown in **Photo #1**.

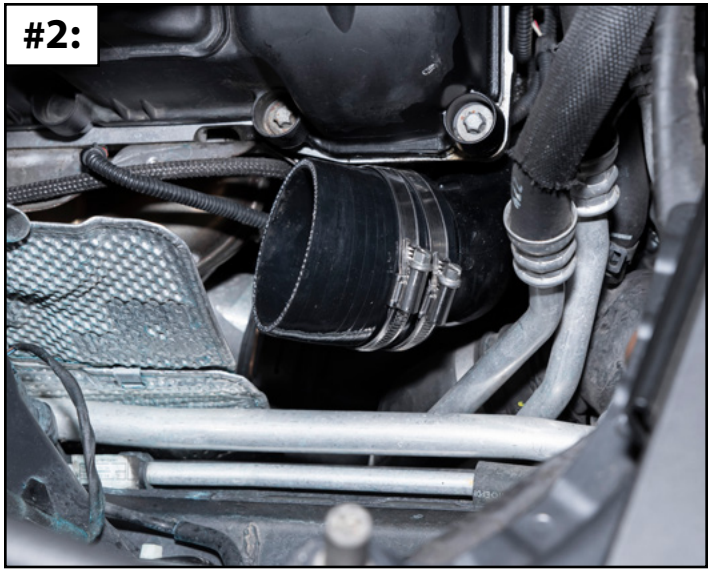
Slide the new coupler onto the turbo inlet, followed by the two supplied hose clamps (**Photo #2**), orienting them for easy access later on when you need to tighten or loosen them.

Carefully guide the new carbon fiber inlet tube into place from above (**Photo #3**). Space is very tight all around the tube, take your time and be care

#1:



#2:



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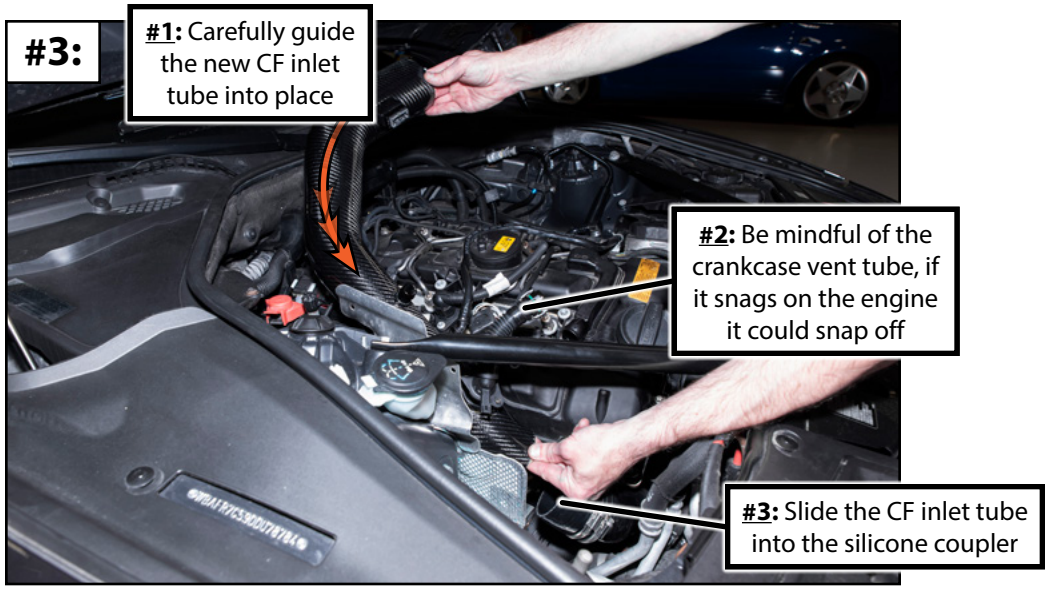


INSTALLING THE NEW CARBON FIBER INLET TUBE

Step 4:

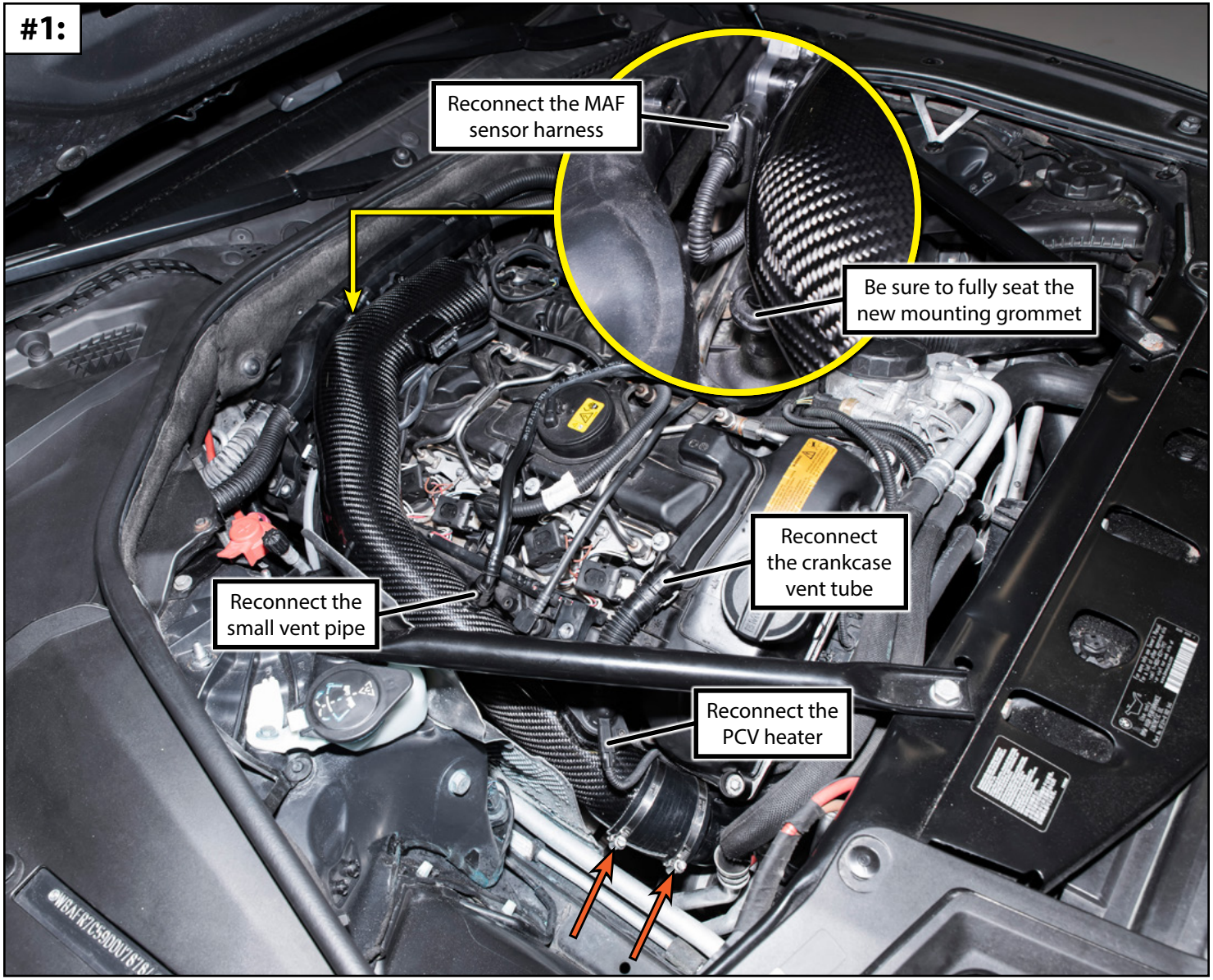
Adjust the new carbon fiber inlet tube as needed for your desired fitment. The silicone coupler can be rotated to draw the tube closer to the engine, or to push it out and away. Once you're happy with fitment you can push down on the mounting grommet until it's seated into place (**YELLOW** inset photo).

Tighten the clamps on the silicone coupler until snug (arrows in **Photo #1**). Reconnect the crankcase vent tube to the valve cover, and the small vent pipe to the inlet tube. Reconnect the wiring harnesses to the PCV heater and MAF sensor.

Your CF Inlet Tube installation is complete!

Please proceed to the next page for intake system installation.

#1:



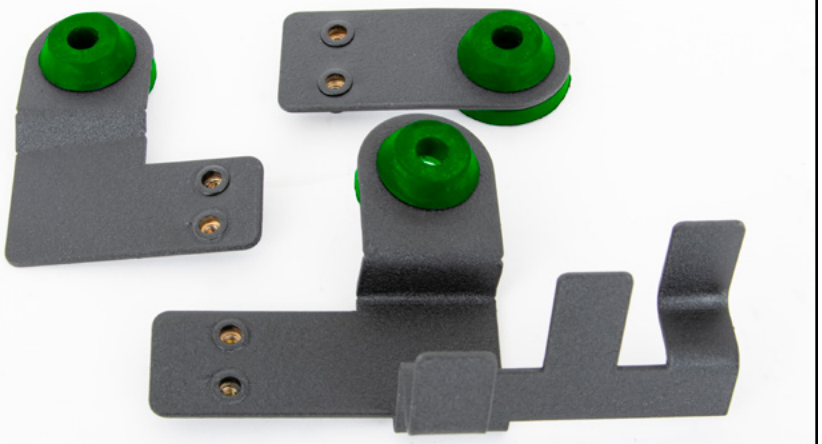
INSTALLING THE NEW INTAKE SYSTEM

Step 1:

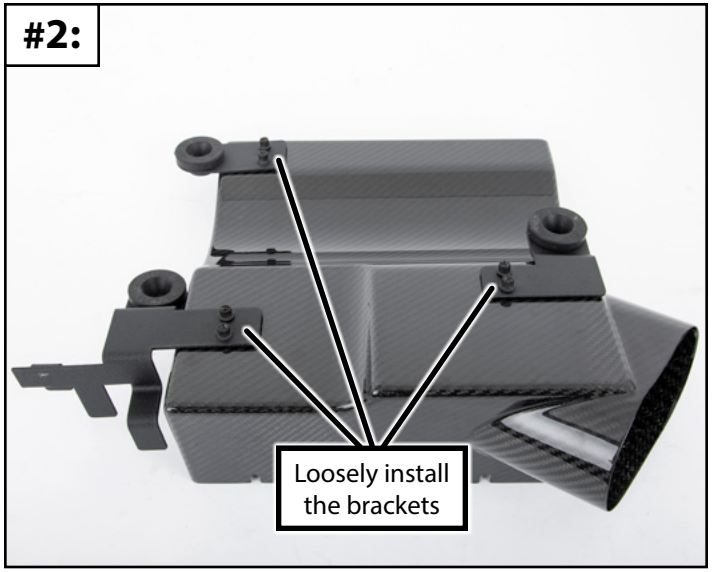
Install the provided mounting grommets (highlighted in **GREEN** in **Photo #1**) into each of the mounting brackets as shown.

Install the mounting brackets underneath the carbon fiber air box in the positions as shown (**Photos #2 & #3**). Thread six of the provided 4mm hex (Allen) screws through the inside of the box into the brackets to hold everything in place. These holes are slotted to allow for adjustment later on in the install.

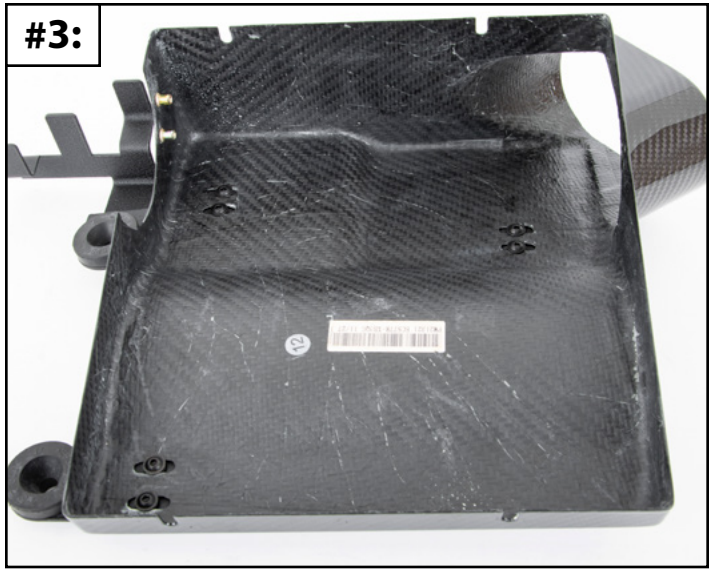
#1:



#2:



#3:



INSTALLING THE NEW INTAKE SYSTEM

Step 2:

Loosely install the air filter pipe onto the air box using the supplied 4mm hex (Allen) screws. We need to leave these screws loose for now to allow for adjustment on the next page.

#1:

Carefully guide the new air box into place, being sure to slide the air filter pipe into the inlet tube and the factory inlet duct into the opening in the front of the air box.

Align the mounting grommets on the new air box with the engine posts, then push down to pop them into place.

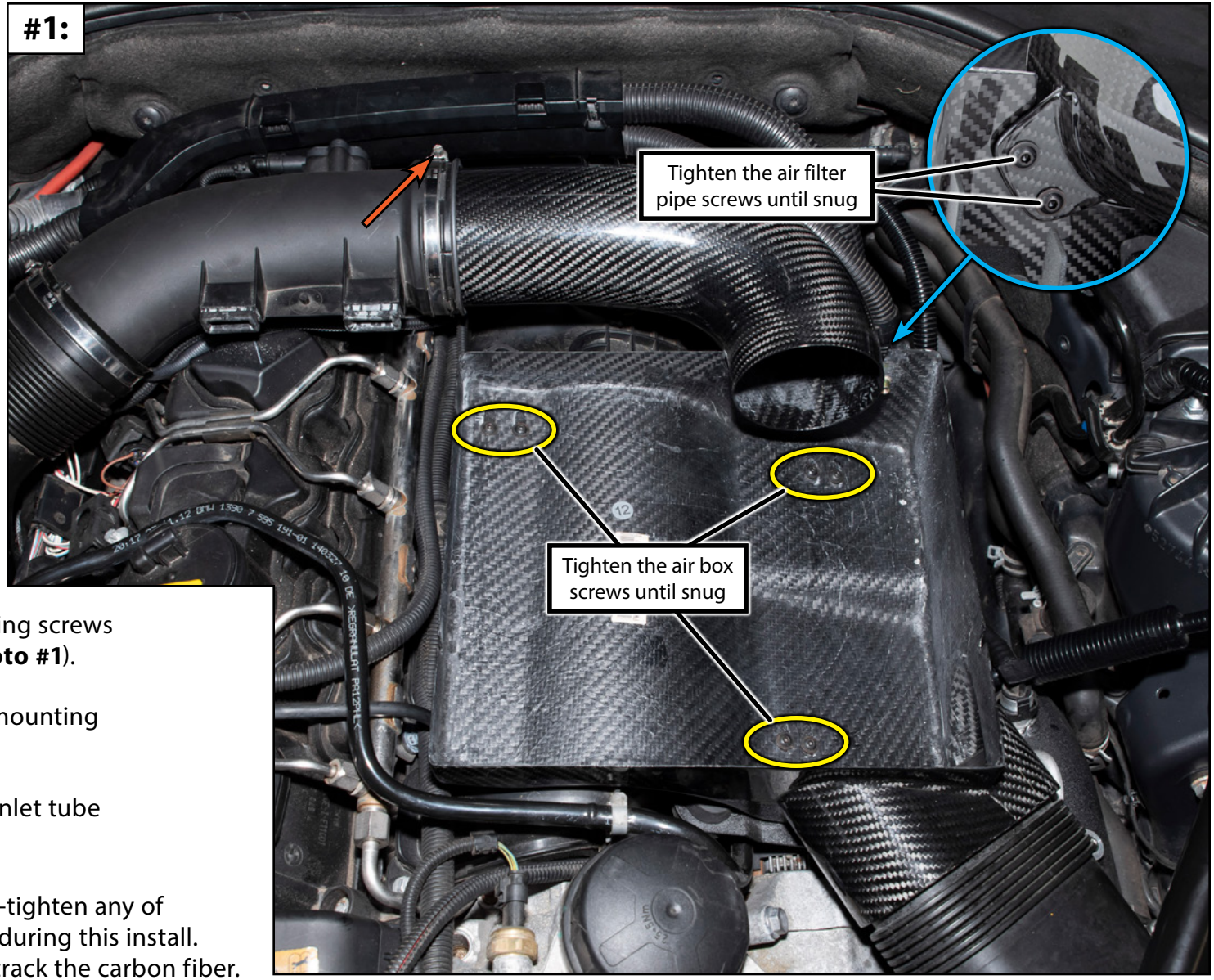
Rotate and adjust the air filter pipe and the air box until you are satisfied with their fitment, then:

- ☐ Tighten the air box mounting screws (circled in **YELLOW** in **Photo #1**).
- ☐ Tighten the air filter pipe mounting screws (**BLUE** inset photo).
- ☐ Tighten the clamp on the inlet tube (arrow in **Photo #1**).

NOTE

Be careful not to over-tighten any of the screws or clamps during this install. Over-tightening can crack the carbon fiber.

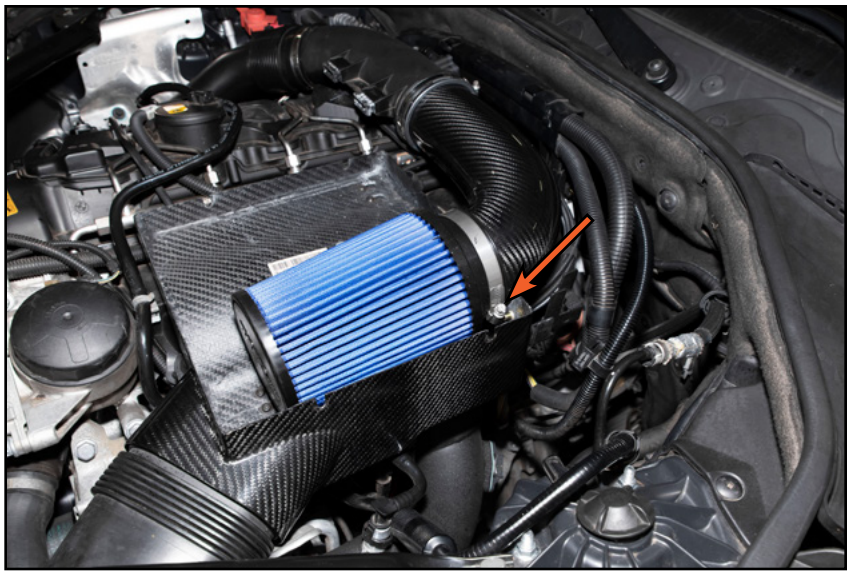
#1:



INSTALLING THE NEW INTAKE SYSTEM

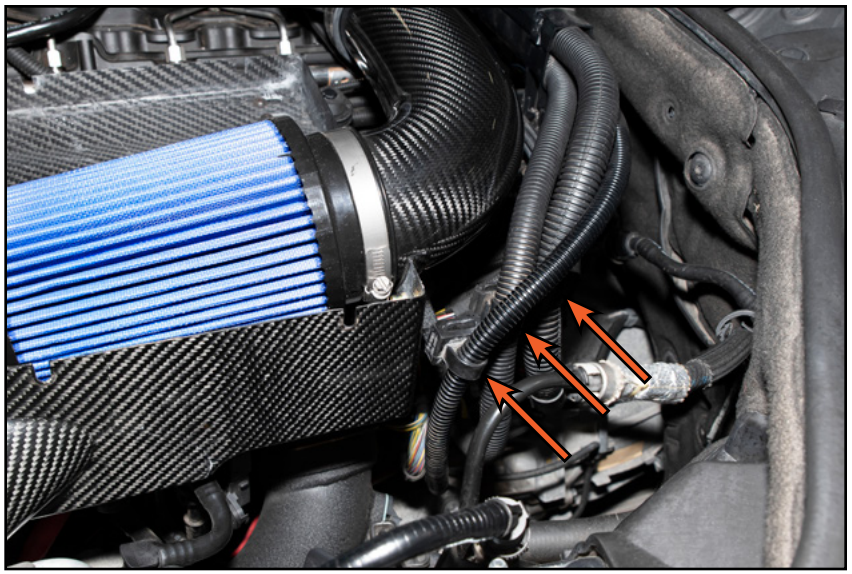
Step 4: Flat Blade Screwdriver

Slide the air filter onto the end of the intake tube and tighten the clamp until snug.



Step 5:

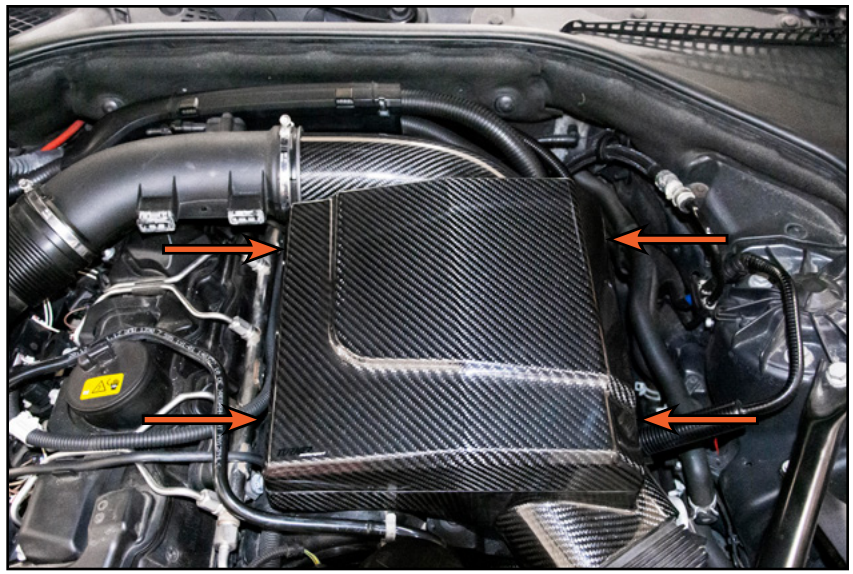
Slide the rubber isolators on the wiring harnesses (arrows) onto the three tabs on the new air box mounting bracket.



INSTALLING THE NEW INTAKE SYSTEM

Step 6: 4mm Hex (Allen)

Slide carbon lid onto the air box and install the four remaining screws to secure it in place.



Step 7:

Reinstall the engine cover.

Congratulations, your installation is complete!

CARBON FIBER CLEANING AND CARE

Turner Motorsport 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 turnermotorsport.com

T#383078

Your Carbon Fiber Intake System installation is complete!

These instructions are provided as a courtesy by Turner Motorsport

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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