



BMW F9x X3M/X4M Luft-Technik Intake System Installation Instructions - [Click HERE to Shop](#)



Skill Level
1 - Easy
Basic Skills
Required



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.

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.

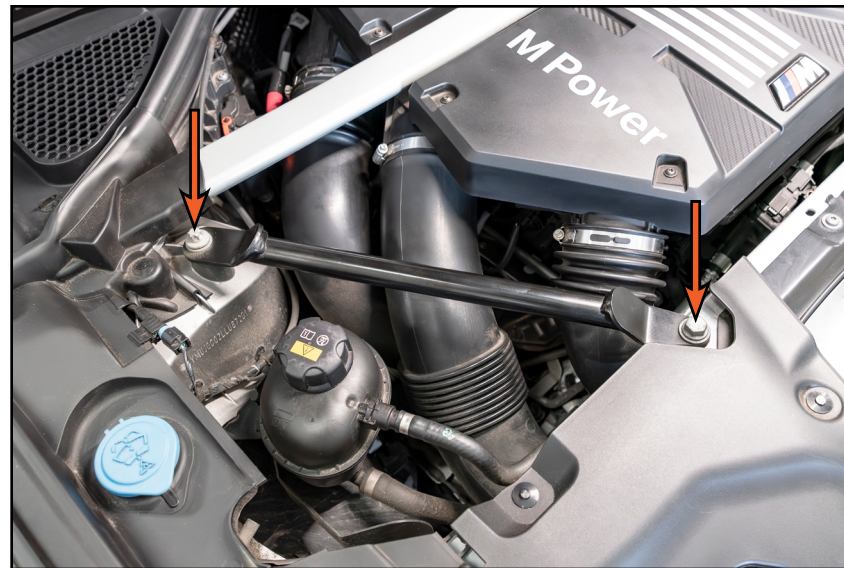


NEVER get underneath a vehicle that is supported only by a jack, and **ALWAYS** make sure that the vehicle is securely supported on jack stands.

REMOVING THE STOCK INTAKE COMPONENTS

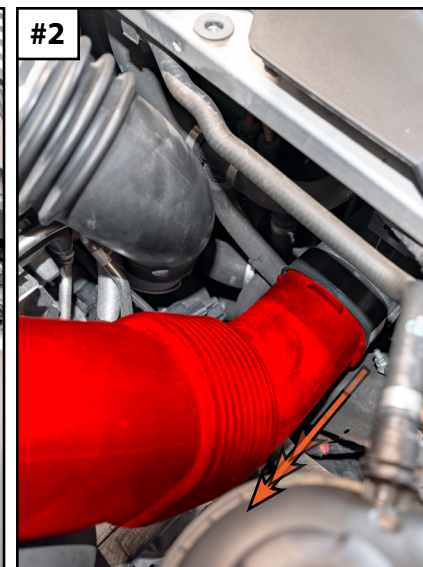
Step 1: E14 Torx, 16mm Socket & Ratchet

Remove the two bolts (arrows) and remove the RH strut cross brace from the vehicle.



Step 2: 6mm Socket & Ratchet

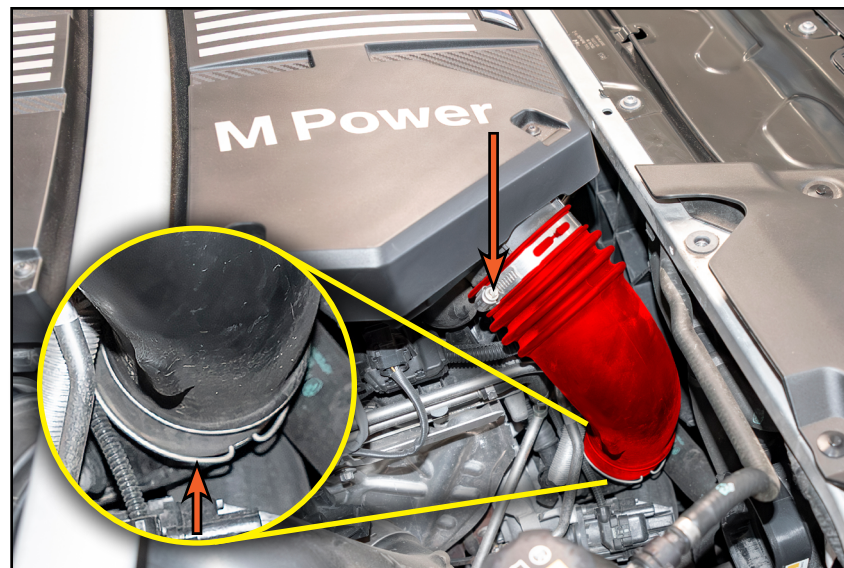
Loosen the clamp (arrow in **Photo #1**) and pull the middle air duct (highlighted in **RED**) off of the airbox, then compress the sides and pull the air duct out of the inlet duct in the core support (as shown in **Photo #2**).



REMOVING THE STOCK INTAKE COMPONENTS

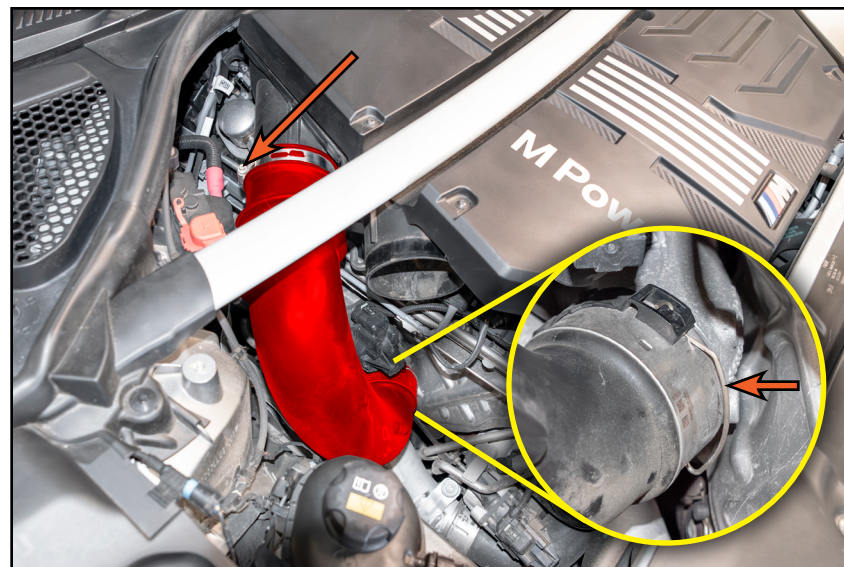
Step 3: Angled Pick, 6mm Socket & Ratchet

Loosen the clamp (arrow) and pull the front intake tube (highlighted in **RED**) off of the airbox, then pull the metal clip (arrow in inset photo) into the “unlocked” position and pull the intake tube free from the front turbo inlet.



Step 4: Angled Pick, 6mm Socket & Ratchet

Loosen the clamp (arrow) and pull the rear intake tube (highlighted in **RED**) off of the airbox, then pull the metal clip (arrow in inset photo) into the “unlocked” position and pull the intake tube free from the rear turbo inlet.



INSTALLING THE NEW INTAKE SYSTEM

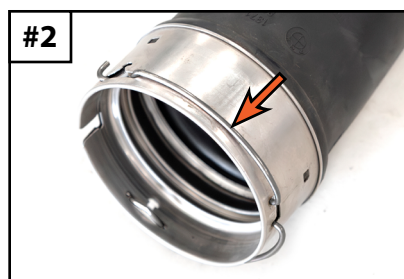
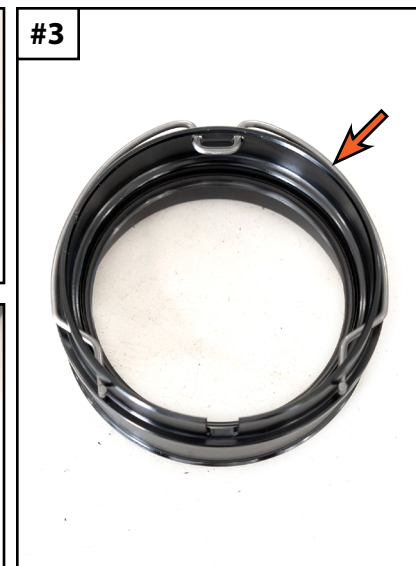
Step 1: Angled Pick

Pull the O-ring (highlighted in **RED** in **Photo #1**) free from groove in each intake tube. Transfer each O-rings (highlighted in **GREEN** in **Photo #2**) to the groove in the new turbo inlet adapters as shown.



Step 2: Angled Pick

Pry the spring clip retainer (highlighted in **RED** in **Photo #1**) off of the end of each intake tube, then pull the spring clip (arrow in **Photo #2**) free from each intake tube. Transfer each spring clip (arrow in **Photo #3**) to the slots in the new turbo inlet adapters as shown.



INSTALLING THE NEW INTAKE SYSTEM

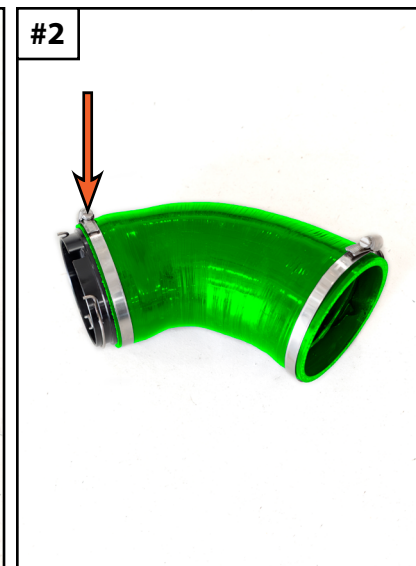
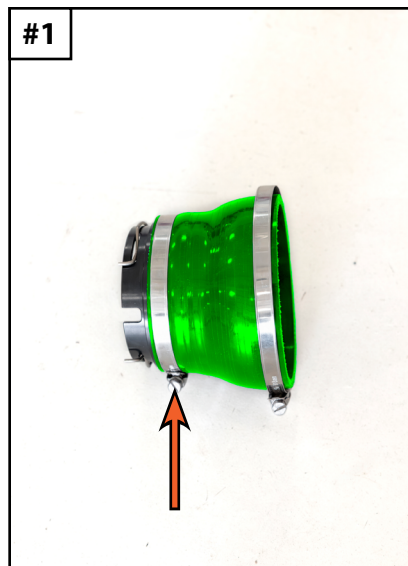
Step 3: 7mm Socket & Ratchet

Install the provided silicone caps (highlighted in **GREEN** in **Photos #1 & #2**) onto the front and rear port on the airbox and tighten the clamps (arrows) until snug.



Step 4: 7mm Socket & Ratchet

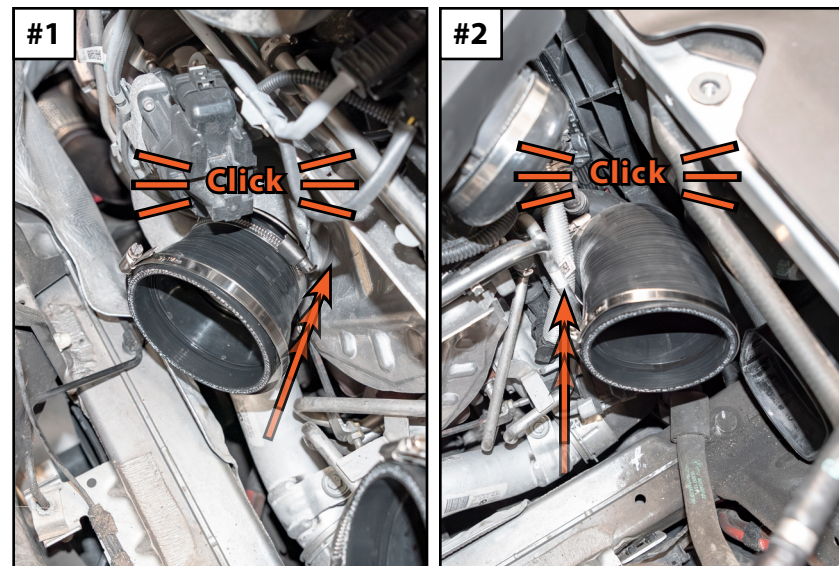
Install the new intake hoses (highlighted in **GREEN** in **Photos #1 & #2**) onto their respective turbo inlet adapters and tighten the clamps (arrows) until snug.



INSTALLING THE NEW INTAKE SYSTEM

Step 5:

Slide the adapters onto the turbo inlets (as shown in **Photos #1 & #2**), ensuring the spring clips “click” into place.



Step 6:

4mm Hex (Allen) Socket & Ratchet

Assemble the two heat shields as shown and secure them with two of the provided M6 x 16mm screws and washers (circled in **YELLOW**).



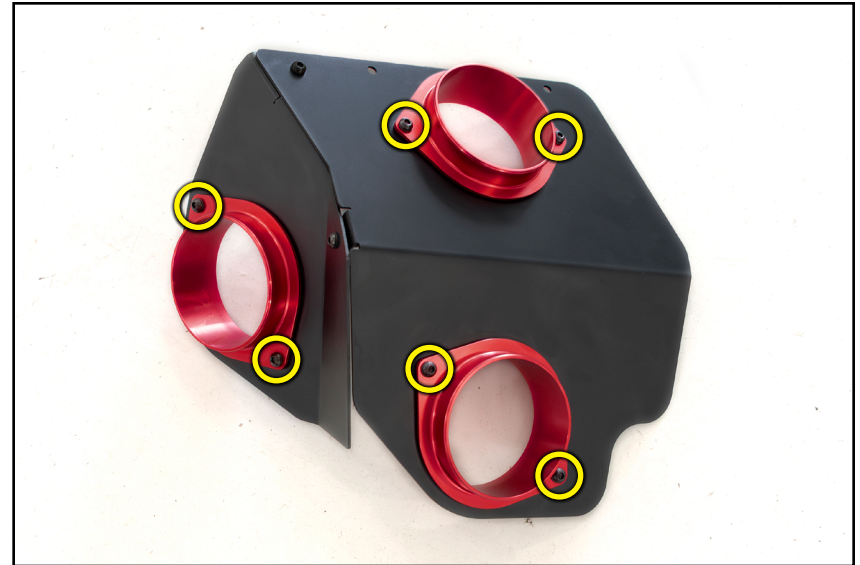
INSTALLING THE NEW INTAKE SYSTEM

Step 7: 4mm Hex (Allen) Socket & Ratchet

Install the intake couplers into the openings in the heat shields as shown and secure them with the remaining M6 x 16mm screws and washers (circled in **YELLOW**).

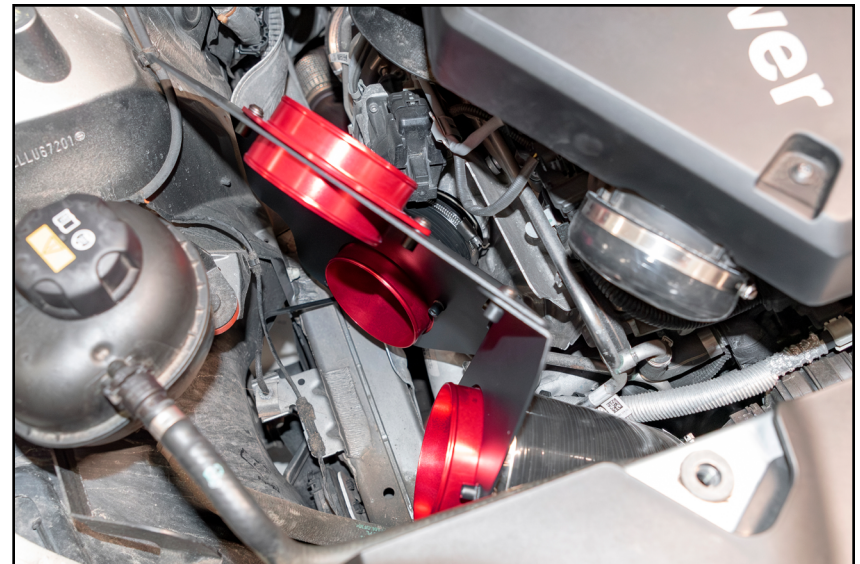


The longer end of each intake coupler should be installed through the heat shields.



Step 8:

Slide the heat shield into the vehicle and slide the intake hoses onto the two lower couplers, rotating them as needed to ensure proper fitment.



INSTALLING THE NEW INTAKE SYSTEM

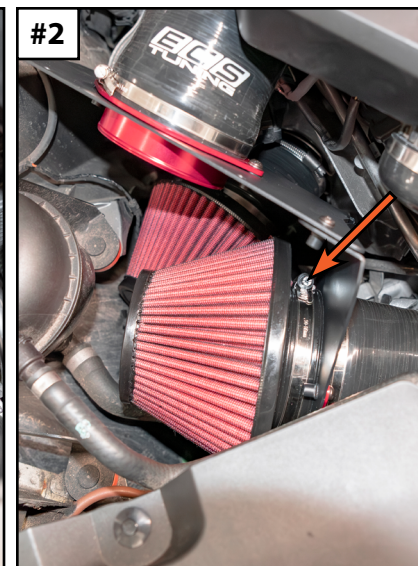
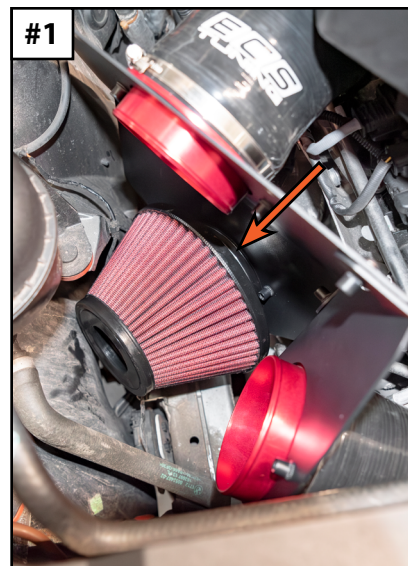
Step 9: 7mm Socket & Ratchet

Install the upper air hose (highlighted in **GREEN**) between the airbox and the upper coupler, rotating as needed to ensure proper fitment, then tighten the clamps (arrows) until snug. Go back and tighten the clamps to secure the intake hoses to the lower couplers.



Step 10: 7mm Socket & Ratchet

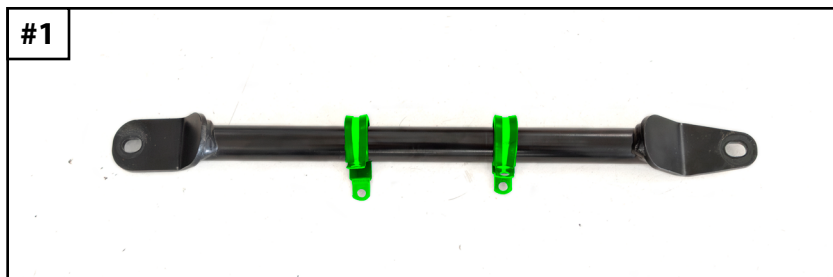
Slide one of the provided air filters onto the lower coupler and tighten the clamp (arrow in **Photo #1**) until snug. Slide the remaining air filter onto the middle coupler and tighten the clamp (arrow in **Photo #2**) until snug.



INSTALLING THE NEW INTAKE SYSTEM

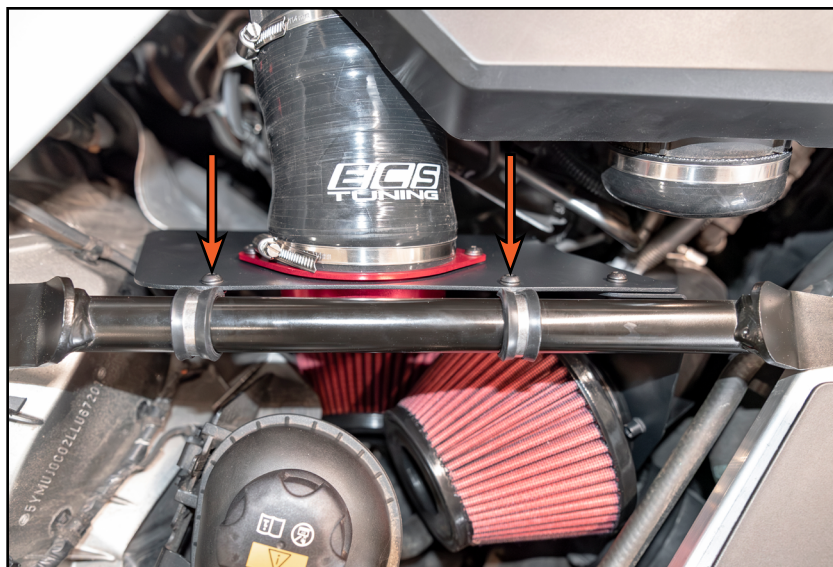
Step 11: E14 Torx, 16mm Socket & Torque Wrench

Slide the provided loop clamps (highlighted in **GREEN** in **Photo #1**), over the strut cross brace as shown, then reinstall the brace, torquing the bolts (arrows in **Photo #2**) to 50 Nm (37 Ft-lbs).



Step 12: 10mm Wrench, 4mm Hex (Allen) Socket & Ratchet

Slide the two provided M6 x 25mm screws and washers (arrows) through the heat shield and loop clamps, then install the provided M6 nuts and tighten them until snug to secure the heat shield to the loop clamps.



Congratulations, your installation is complete!

Your Intake System installation is complete!



These instructions are provided as a courtesy by ECS Tuning

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