

# RAMAIR PROGRAM

For  
**BMW M2/M3/M4 (G8x)**  
3.0T S58 Engine



**Before starting any work on the vehicle please ensure that there are no existing engine management issues.**

**It is recommended that you read and understand these instructions in their entirety before beginning the installation.**

**It is recommended that a competent mechanic carries out or at very least inspects the installation of the product.**

**If you are at all unsure about any aspect of the installation process, please contact RAMAIR Filters before proceeding.**

**Irreversible modification (cutting, grinding, bending, gluing, etc) of any component of the kit is not required for installation to a standard vehicle, doing so may affect your warranty.**



01

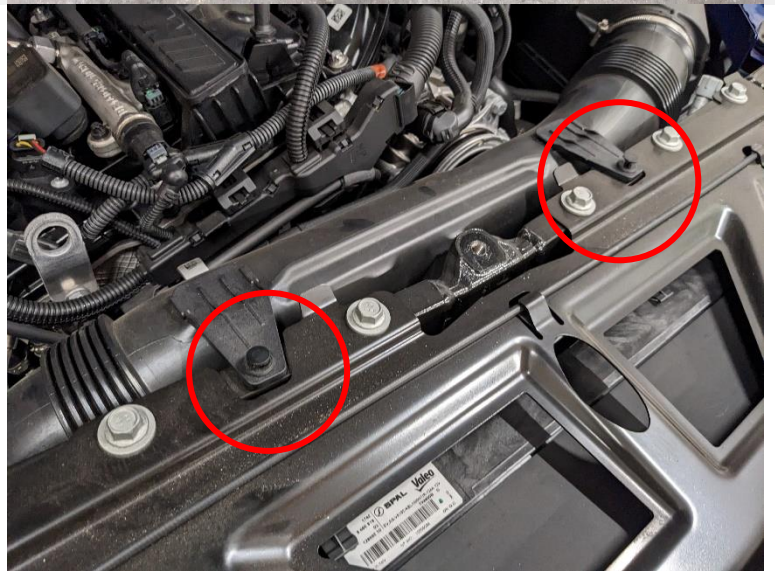
Remove the strut brace and engine cover



02

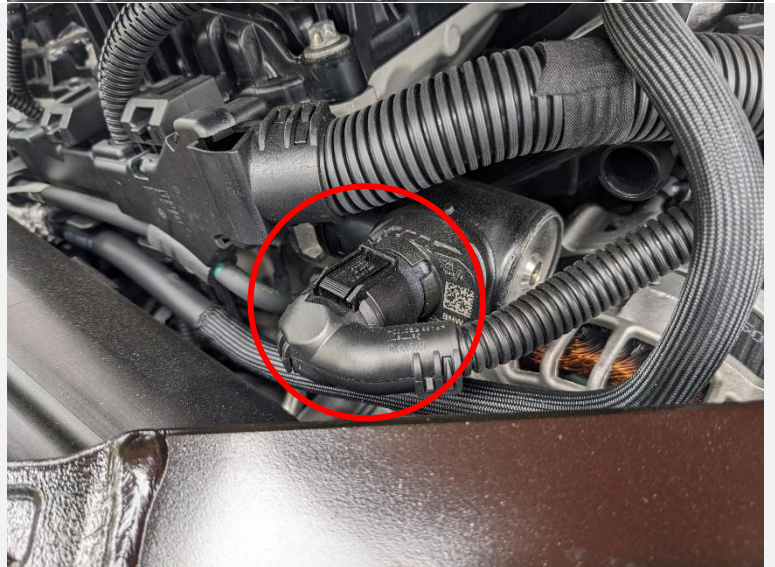
Remove the two plastic clip securing the intake pipe to the chassis.

Use a trim tool or small screwdriver to release the central pin



03

Unplug the electrical connector on the front of the engine. Disconnect it by simultaneously pressing the tabs on each side of the connector.



04

Release the spring clamp securing the long intake pipe to the front turbocharger.

Undo the hose clamp securing it to the air box and remove it.



05

Remove the left-hand hand airbox by firmly pulling upwards.

It is held in by three pegs that locate in rubber mounts.

Once removed ensure the rubber mounts remain and are not still attached to the airbox.



06

Undo the hose clamp for the right-hand airbox and then remove the airbox.



07

Release the spring clamp securing the right-hand intake hose to the rear turbocharger, and remove the hose.



08

Remove the existing O-rings and spring clamps from the intake hoses.

Install them into the supplied adapters.

Take note of the orientation of the O-rings, it is important that they are installed the correct way round.



09

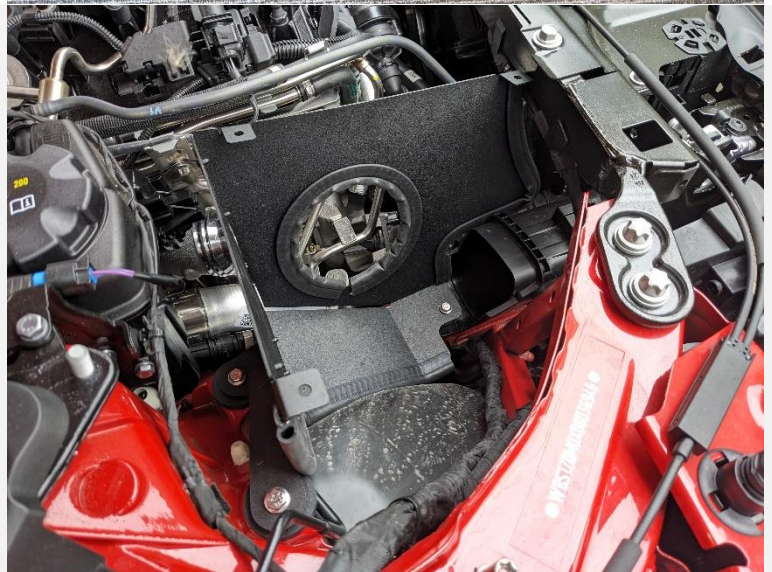
Install the metal feet onto the pair of heatshields using the supplied M6 bolts.



- 10 Cut the supplied edge trim and apply to each heatshield as shown.



- 11 Install the right-hand heatshield into the rubber airbox mounts.



- 12 Assemble an air filter, velocity stack, silicone hose and rear turbo adapter as shown using the supplied hose clamps.



13

Install the filter assembly through the heatshield and onto the rear turbo inlet.

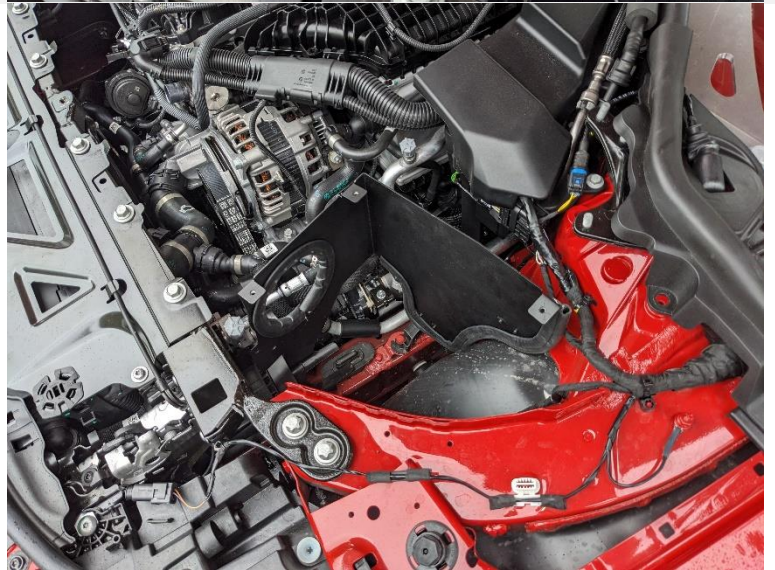
Ensure it is fully seated onto the turbocharger and the spring clamp locks it in place.

Please note it will still be possible rotate the adapter when installed, this is the same as the OEM design.



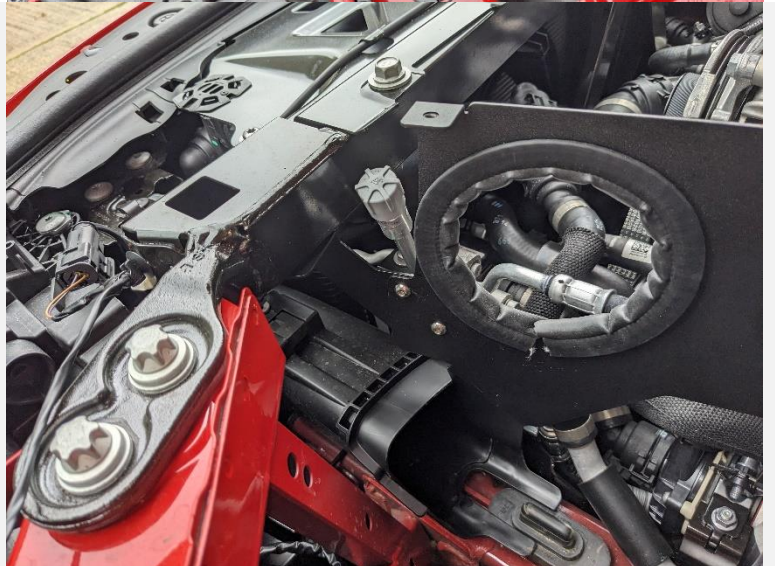
14

Install the left-hand heatshield on to the rubber mounts.



15

Install the supplied bracket onto the heatshield using the small M5 bolts, then secure the other end of the bracket to the chassis using an M6 bolt and locking nut.



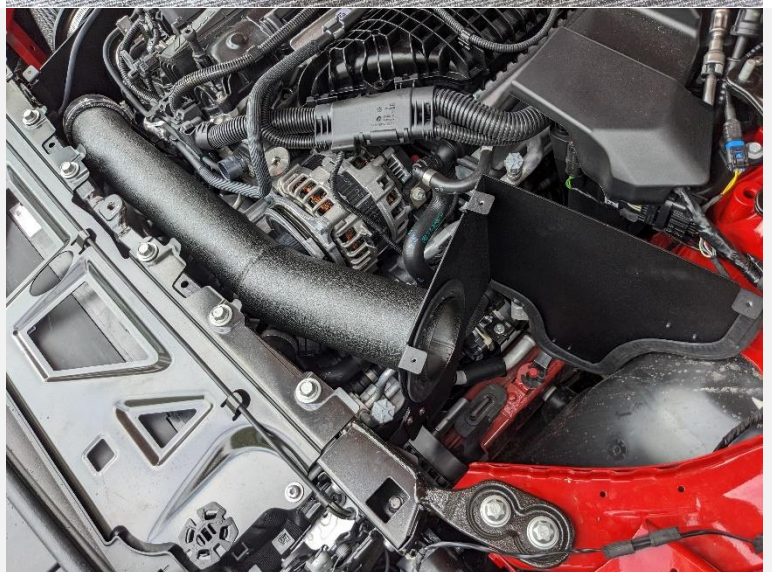
16

Assemble the front turbo adapter with the other silicone hose and long intake pipe.



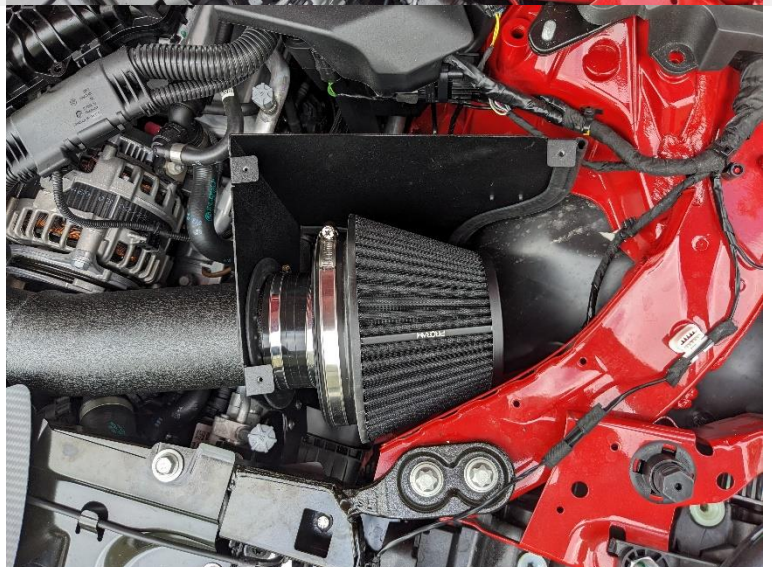
17

Install the assembly onto the front turbo inlet, securing it with the spring clamp.



18

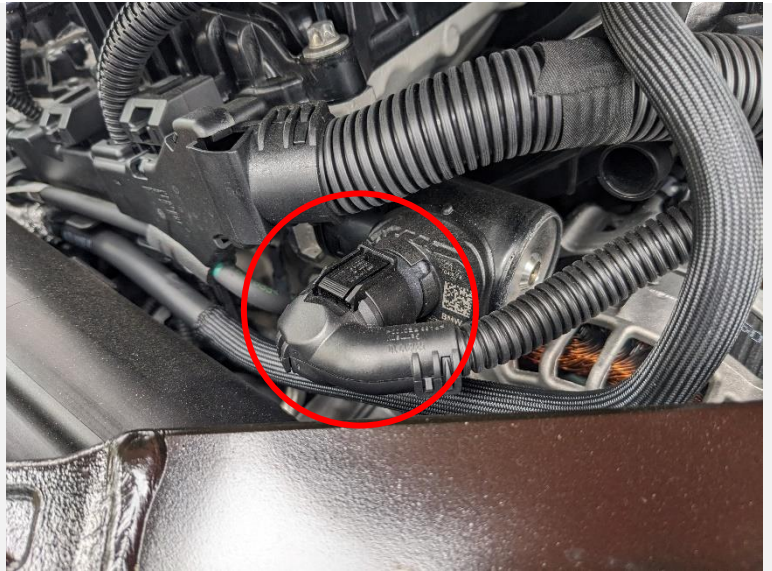
Install the remaining air filter and velocity stack on the intake pipe using the silicone coupler and remaining clamps.





19

Reconnect the electrical connector from Step 03.



20

Check for clearance around the filters and adjust where need by slackening clamps rotating the silicone.



21

Assemble the carbon fibre lids using the supplied M4 bolts and install onto each heatshield.



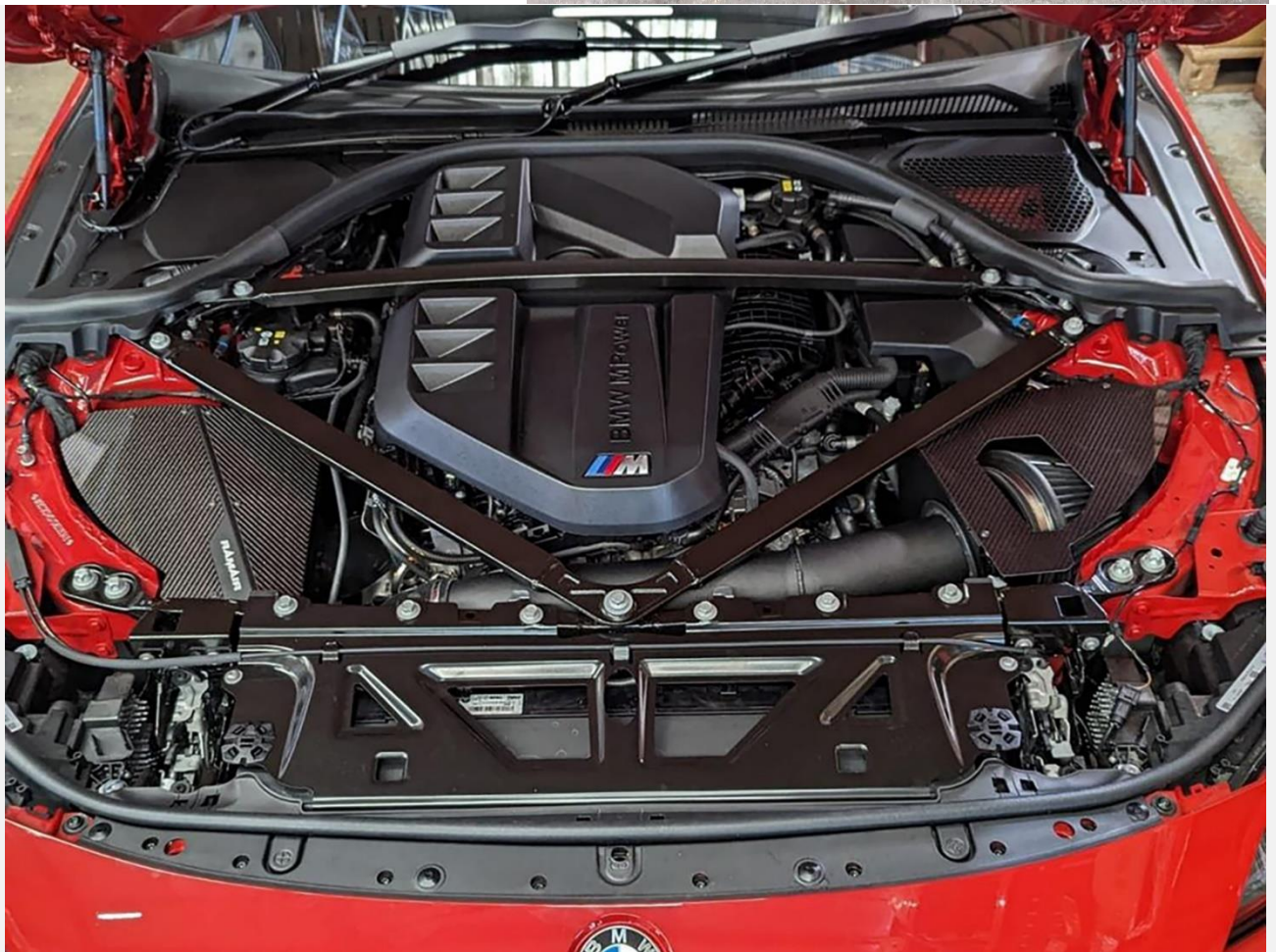
22

Install the engine cover and strut brace that was removed earlier.

At the time of writing BMW suggest tightening the nuts to 28Nm.



23



Double check your installation.

Start the car and allow to idle for a couple of minutes for it to adjust.

Check your installation periodically to ensure everything is in order.



