



Installation Instruction

Performance Intake System



BMW G8X

S58

PART NUMBER: LF - 270

Description

This instruction shows how to replace the OEM intake with do88 performance intake.

At this type of installation, we always recommend that you have mechanical experience and knowledge about safety during work on vehicles.

This installation instruction is performed on a BMW M2 and the procedure for removal of panels and covers will differ a bit if the install is carried out on any other model this product fit.



Parts List

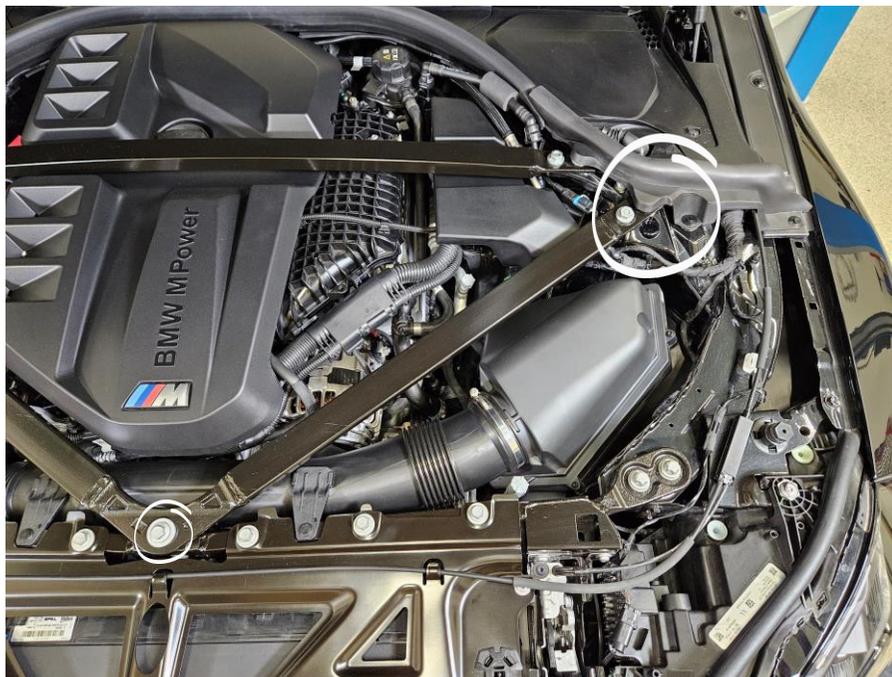
1. Right-side air filter housing
2. Left-side air filter housing
3. Right-side intake pipe
4. Left-side intake pipe
5. Rear turbo cast inlet
6. Front turbo cast inlet
7. 2 x Hump silicone hose
8. Breather silicone hose
9. 2 x Bracket for left side carbon fiber intake pipe
10. Bracket for right-side carbon fiber air filter housing
11. Bracket for left-side carbon fiber air filter housing
12. CNC Joiner Breather hose
13. CNC Bracket for bottom of Right-side air filter housing
14. 2 x CNC Sleeve insert for OE Turbo ID 45,6mm
15. 2 x do88 Performance Air filter
16. 2 x Rubber grommet
17. 2 x O-ring 57mm ID x 1.5mm CS
18. 1 x M6x20 Socket head Stainless Steel Screw
19. 3 x M6x20 Countersunk Stainless Steel Screws
20. 7 x M6x12 Button Flange Black Stainless Steel Screws
21. 3 x M5x12 Button Flange Black Stainless Steel Screws
22. 2 x Plastic washers
23. 2 x Hose clamp 16-27mm
24. 4 x Hose clamp 70-90mm
25. 2 x Hose clamp 90-110mm
26. 2 x O-ring 52mm ID x 2,5mm CS (not shown in picture)



Picture of do88 performance filter included in LF-190 to illustrate the applying of filter oil.

Air filter maintenance

- The air filters comes pre-oiled and are ready to use.
- We recommend to perform cleaning of the air filter elements every 20.000 km.
- Use universal cleaning product designed for cotton air filters. You can for example use BMC Washing fluid with part number "WADET500".
- After cleaning the filter needs to be reoiled. Do not apply to much filter oil, read the filter oil instructions. Apply air filter oil evenly along the crown of each pleat. Allow the oil to wick for about 20 minutes, and then add some more in any light areas on either side of filter until there is a uniform color in all areas.
You can for example use BMC Filter oil with part number "WAFLU250".



Step 1

Remove the front V-shaped strut tower brace by removing the 13mm hex screw in the front. Remove one plastic retaining clip to reveal and remove two 15mm nuts, repeat on the other side.



Step 2

Loosen the 6mm hose clamp on the right airbox and remove the box entirely. Undo the clip holding the inlet duct to the rear turbo inlet pipe and remove it.



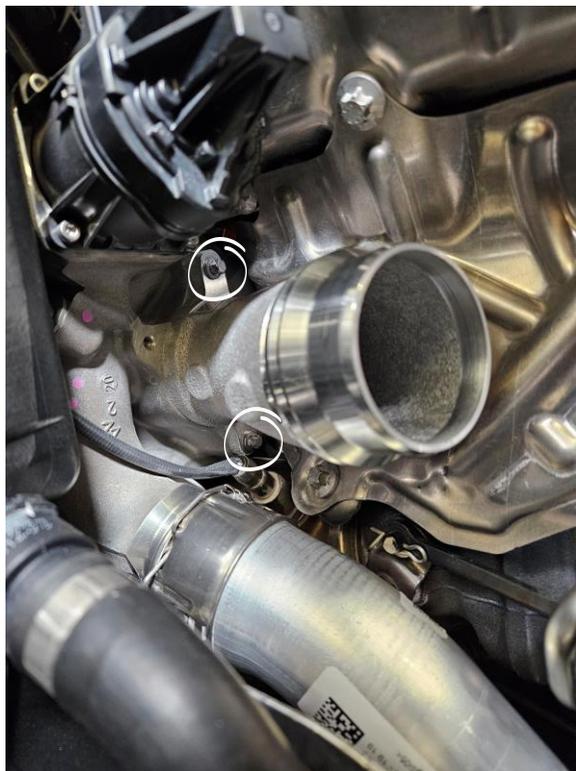
Step 3

Disconnect the electric connector from the camshaft solenoid and loosen the front end of the engine cover.



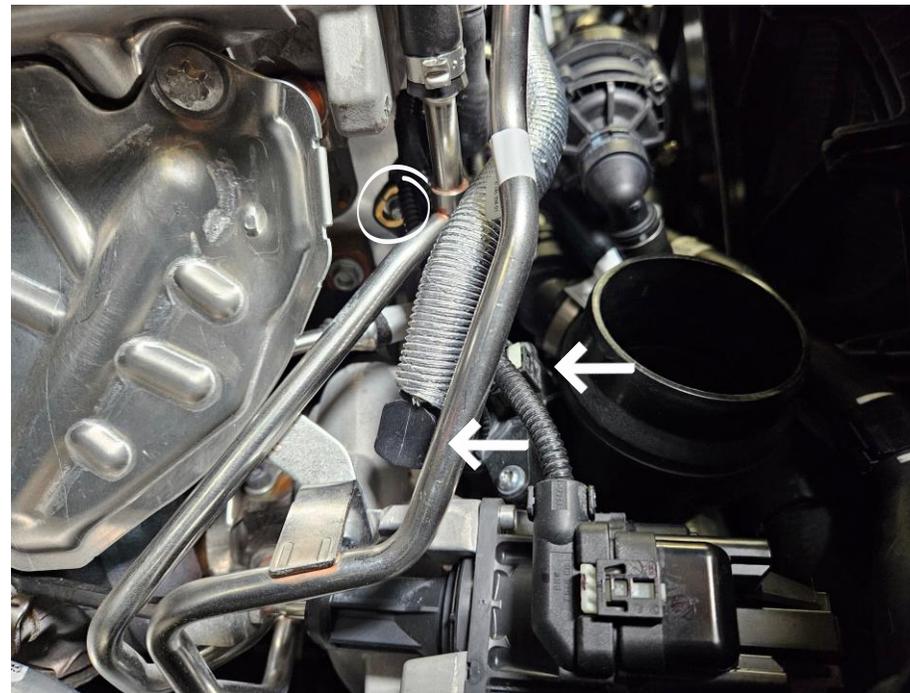
Step 4

Undo the clip holding the inlet pipe to the front turbo and the two plastic retainer clips holding the pipe to the front support member, then remove the left airbox and inlet pipe together.



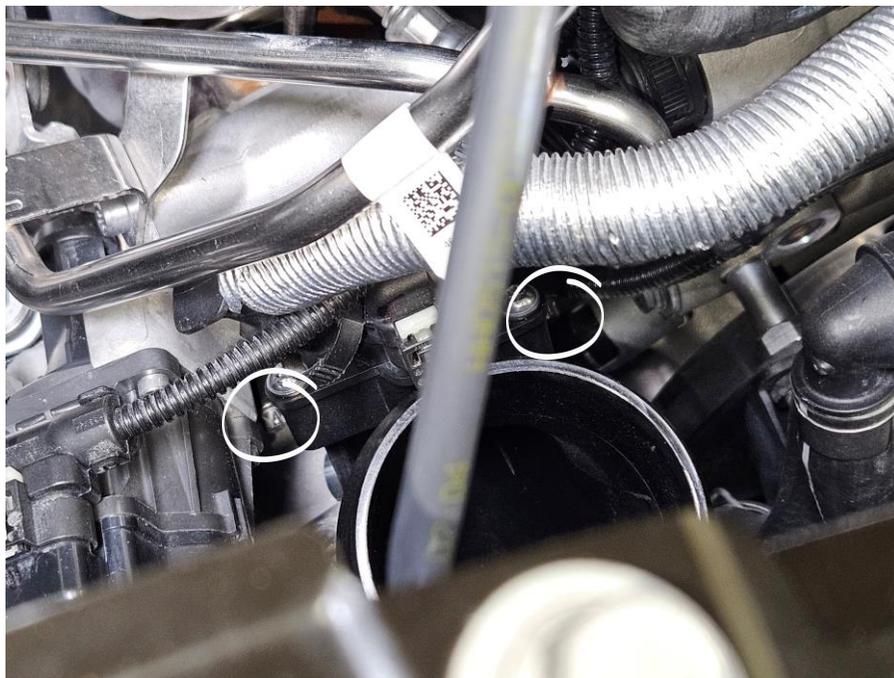
Step 5

Remove the rear turbo inlet by removing the 2 x Torx E8 screws.



Step 6

At front turbo inlet elbow.
Disconnect the electric connector from the heater element.
Disconnect the EVAP line from the heater element. Remove the E8 screw holding the crank case breather line to the engine block (circled in picture).



Step 7

Remove the front turbo inlet pipe by removing the two Torx E8 screws holding it to the turbo.



Step 8

Remove the heating element from the turbo inlet by removing the 2 x T25.

When element is removed from turbo inlet, remove o-ring (marked with arrow).

Then carefully heat the plastic line in the circled area with a heat gun until it is possible to remove it from the heater element.



Step 9

Install the OEM O-ring removed from the crankcase breather hose in previous step and install to the included crankcase breather adapter.



Step 10

Remove the O-ring from heater element.



Step 11

Transfer the heater element metal diaphragm to the do88 front turbo inlet and make sure it seats correctly.



Step 12

Mount the heater element with 2pcs included M5 screws and the crankcase breather hose with the short end toward the heater element.



Step 13

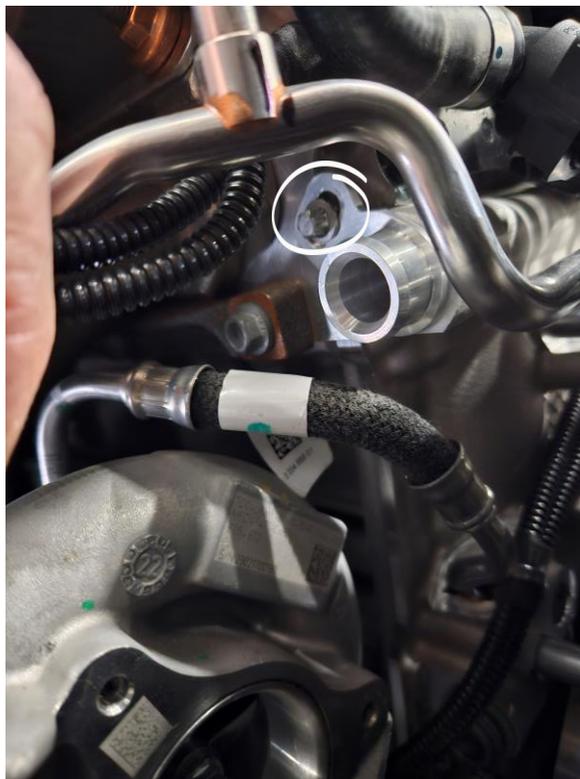
For OE turbos, replace the o-rings in the turbo inlet with the included 52x2,5 o-rings. Lube the o-ring and install the included turbo inducer sleeves in the front and rear turbo.

If you are running Pure Turbos skip this step as the cast turbo inlets will match the turbocharger inlet without this sleeve.



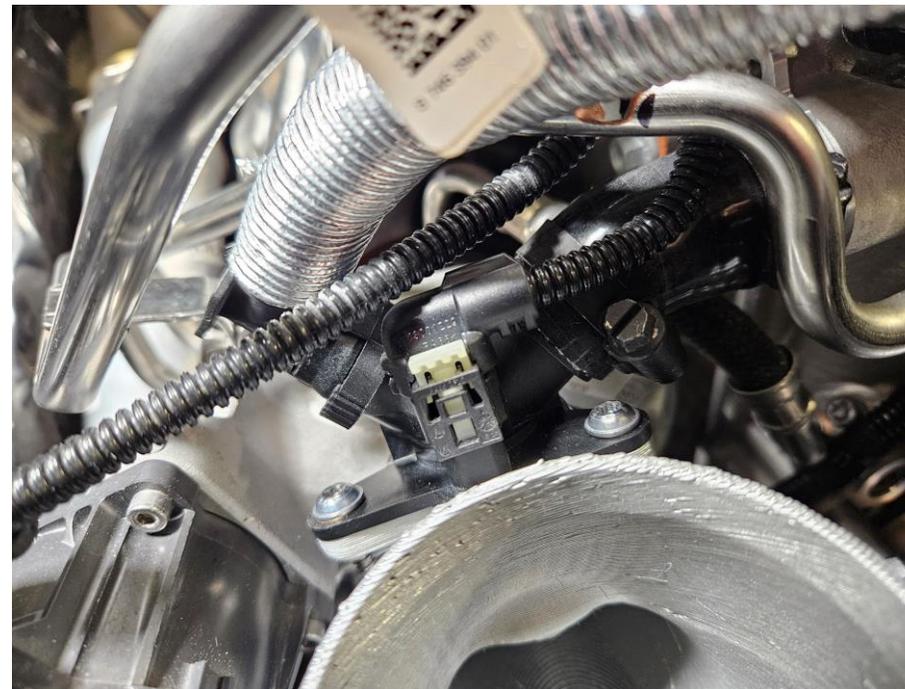
Step 14

Mount the included 57x1,5 O-rings to the front and rear turbo inlets. Use a little grease to secure it in the groove.



Step 15

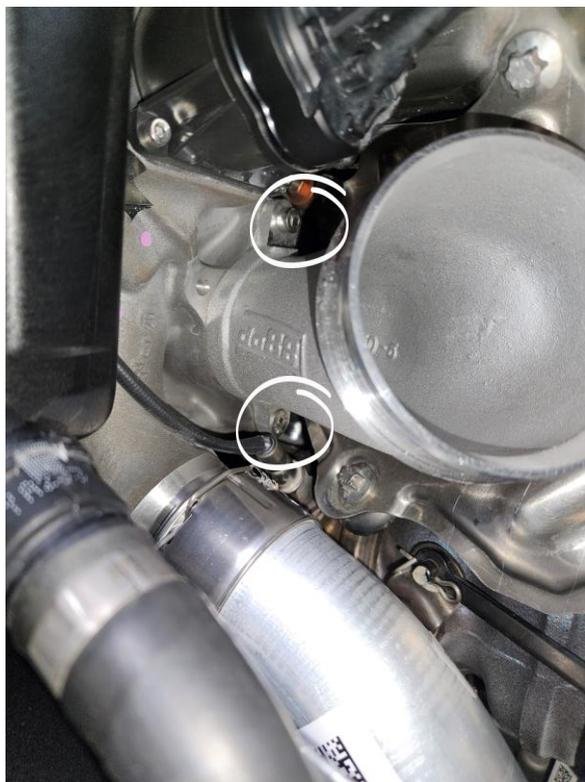
Mount the crankcase breather adapter to the engine block using the previously removed OE Torx E8 screw.



Step 16

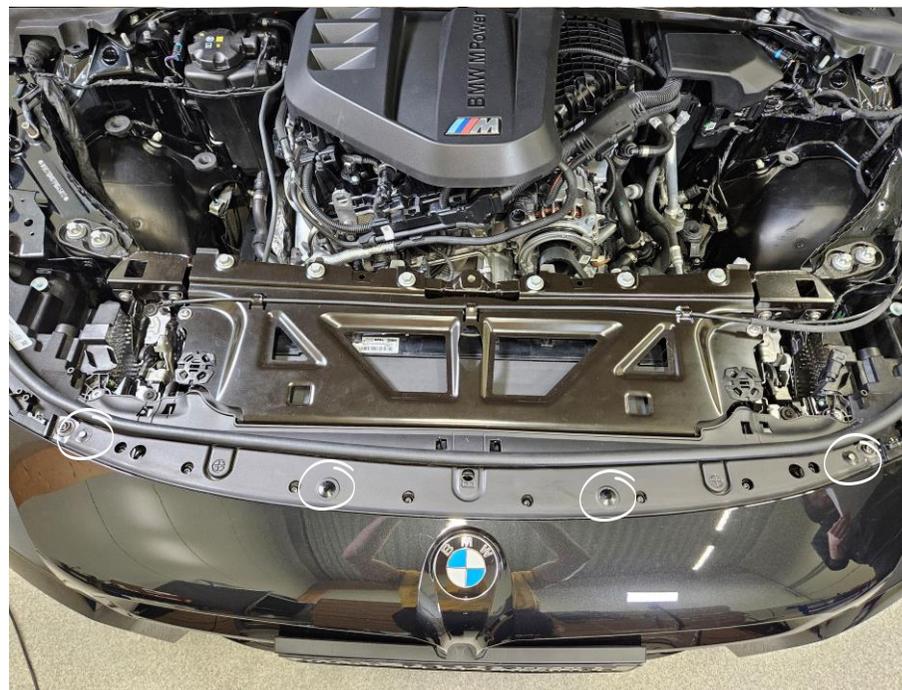
Mount the front turbo inlet elbow starting with the crankcase breather hose and included hose clamps. Then secure the turbo inlet with two included countersunk M6 screws, apply blue thread locker and tighten to 8 Nm.

Reconnect the EVAP line and heater element electric connector.



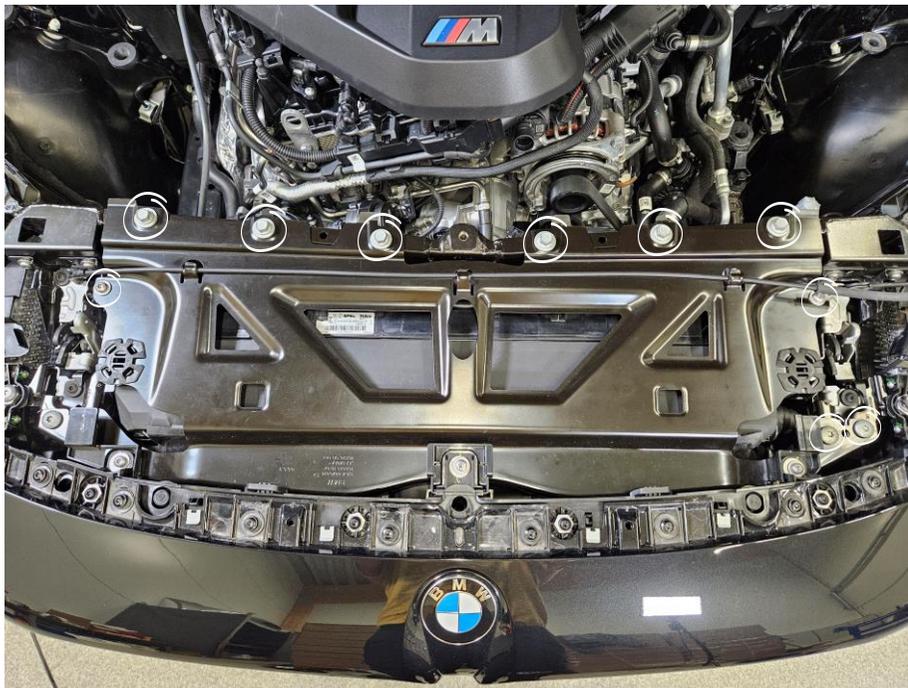
Step 17

Mount the rear turbo inlet with included countersunk M6 screw in the bottom and socket head M6 screw in the top, apply blue thread locker and tighten to 8Nm.



Step 18

Remove the 4 plastic retaining clips from the top of the bumper cover.
Remove the front plastic molding and rubber seal strip by prying its plastic clips and lift it.



Step 19

To be able to lift up the rear end of the front support member plate, remove the 6 x 13mm hex screws, 2 x T30 and 2 x T40 circled in the picture.



Step 20

Mount one of the silicone hoses to the front turbo inlet elbow and secure with included hose clamp.



Step 21

Install the rubber grommet and filter with included hose clamp and tighten it to 5NM, do NOT overtighten the hose clamp on the carbon fiber pipe as it will damage it.



Step 22

Mount the brackets loosely to the inlet pipe with included M6 screws.



Step 23

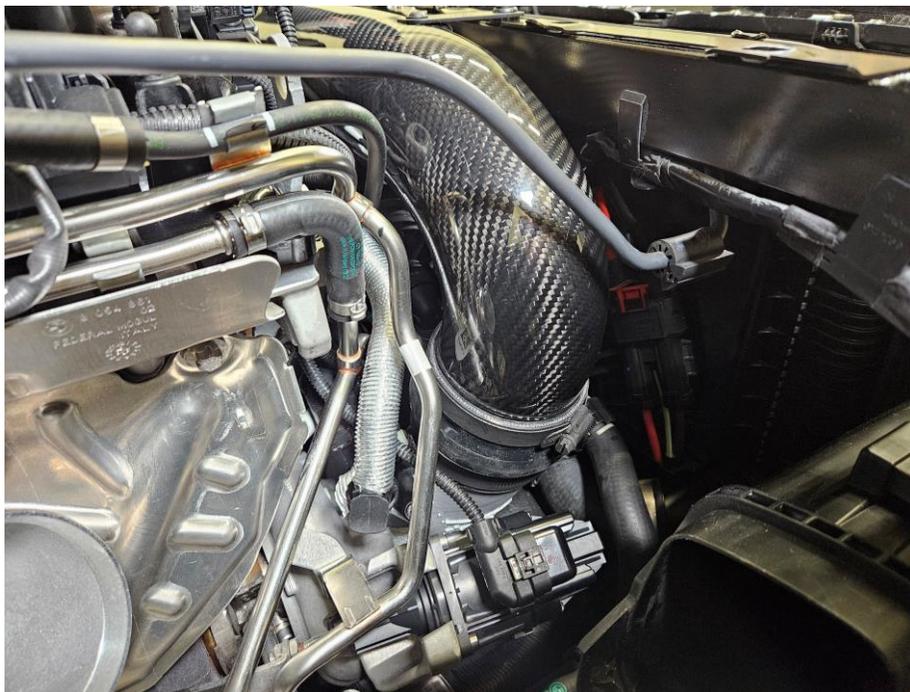
Mount the large bracket with 3 holes to the left air filter housing using three included M6 screws. Do not tighten the screws yet. Fine tuning the filter housing position towards the bracket can be made after installation is done.



Step 24

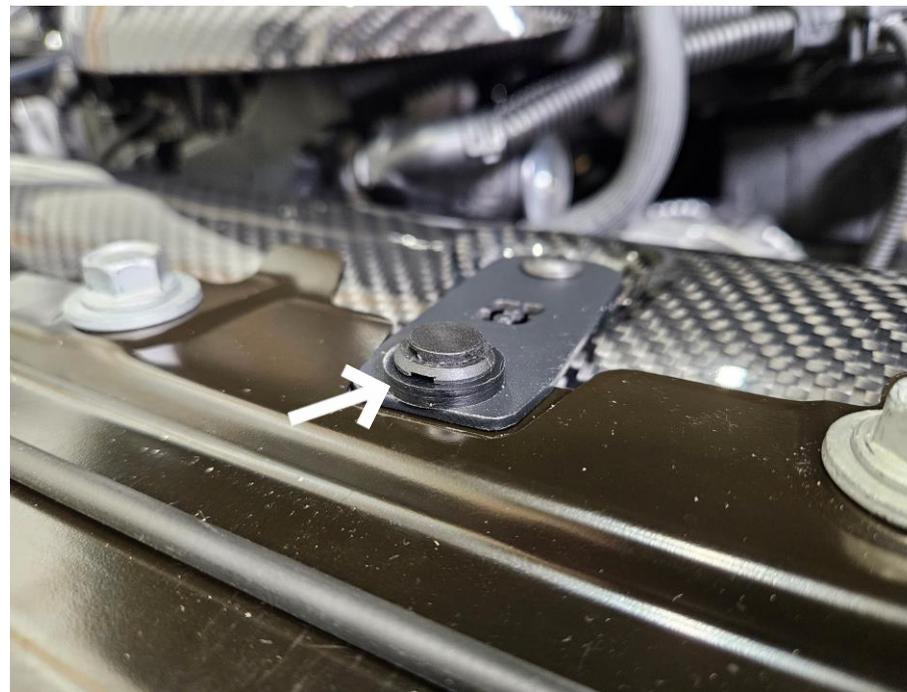
Assemble the left air filter housing and the intake pipe to one unit. Rotate them towards each other as it should sit in the car.

Then install the assembly in the car, make space for the intake pipe by lifting front support member plate and the engine cover. Secure the filter housing to the three OEM rubber bushings.



Step 25

Mount the intake pipe to the silicone hose, secure with included hose clamp and tighten it to 5NM, do NOT overtighten the hose clamp on the carbon fiber pipe as it will damage it.



Step 26

Secure the pipe to the front member with included plastic washers between brackets and OE plastic retaining clips. Tighten the brackets to the carbon fiber pipe.

Now, tighten the three screws that holds the mounting bracket to the left air filter housing.



Step 27

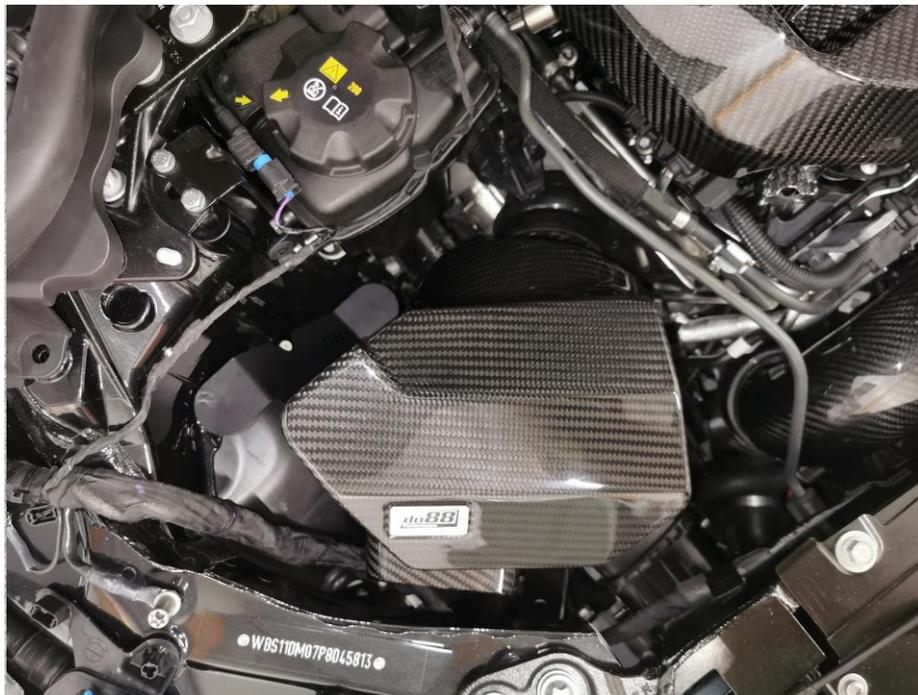
Install the large bracket with 2 holes to the right air filter housing using two included M6 screws.

Install the small machined bracket in with included M5 screw.



Step 28

Assemble the short inlet pipe, rubber grommet, silicone hose and filter as shown in the picture and tighten the hose clamps to 5NM, do NOT overtighten the hose clamps on the carbon fiber pipe as it will damage the pipe.



Step 29

Assemble the intake pipe and filter with the air filter housing. Then install them in the car starting with seating the housing in the OEM rubber bushings and then mount the silicone hose to the rear turbo inlet and clocking the filter assembly before tightening the hose clamp.

Re-install all other parts in reverse order.



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