



Installation Instruction

Performance Charge Pipe kit



BMW G8X

S58

PART NUMBER: TR - 420

Description

This instruction shows how to replace the OEM pressure pipe with do88 pressure pipe.

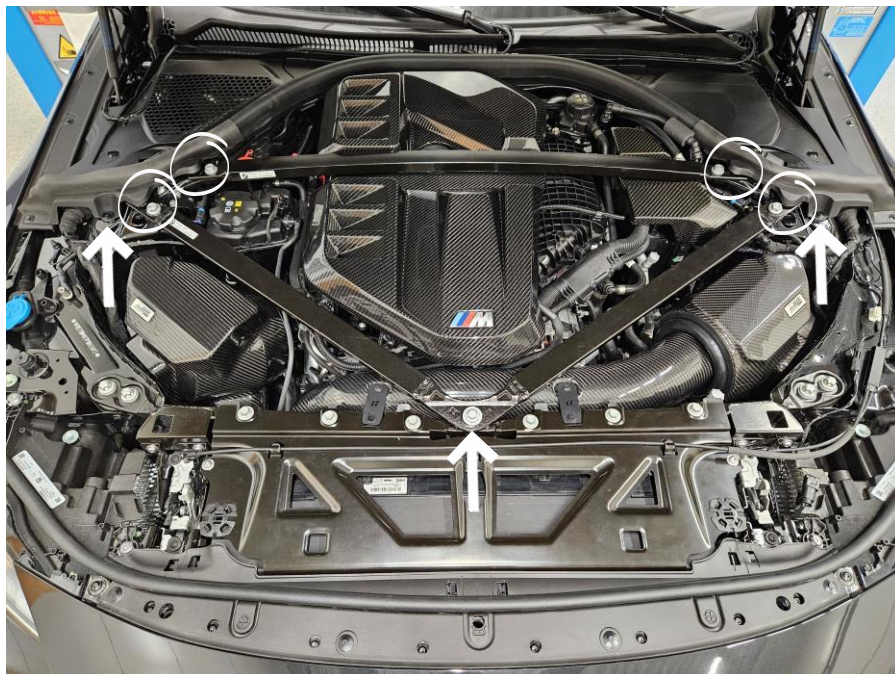
At this type of installation, we always recommend that you have mechanical experience and knowledge about safety during work on vehicles.

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. Cast aluminium Y-pipe
2. Rear turbo outlet pipe
3. Silicone hose - Rear turbo outlet pipe to y-pipe
4. Silicone hose - Front turbo to y-pipe
5. Silicone hose - Y-pipe to Throttle body adapter
6. Front turbo outlet adapter
7. Throttle body adapter
8. 1 x M6x20 Button Flange Black Stainless Steel
9. 3 x M6x25 Countersunk screw
10. 4 x Hose clamp 50-70mm
11. 2 x Hose clamp 70-90mm

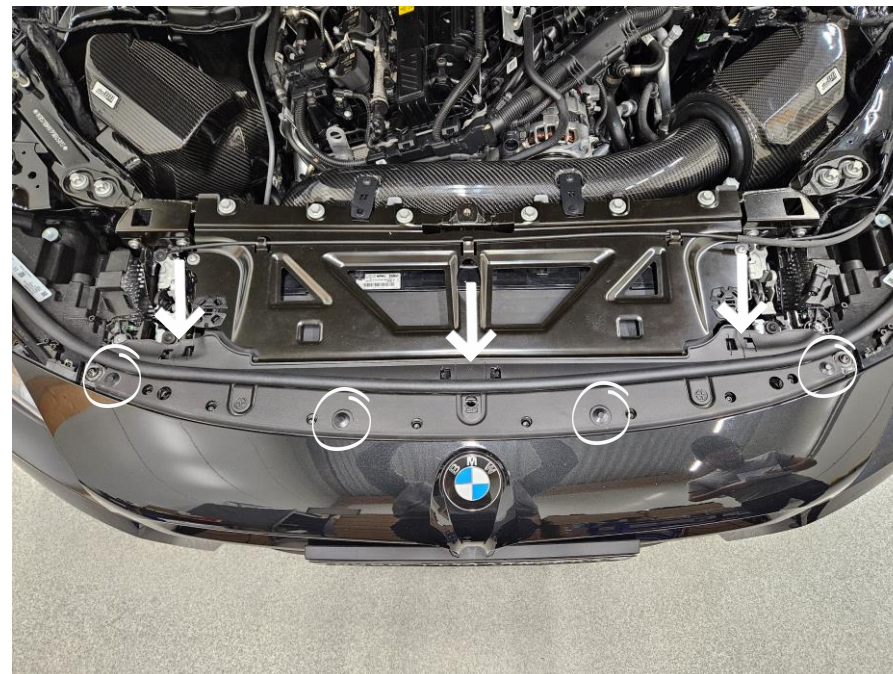




Step 1

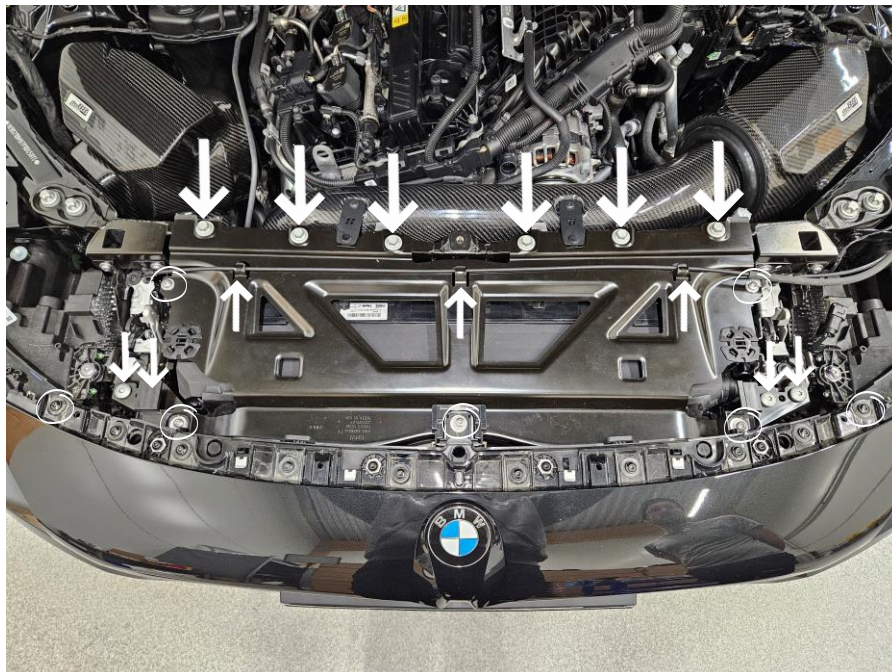
Remove both strut tower braces by undoing the 13mm hex screw in the front. Two plastic retaining clip to reveal four 15mm nuts on each side, then remove the 4 15mm nuts on each side.

Remove the engine cover.



Step 2

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 3

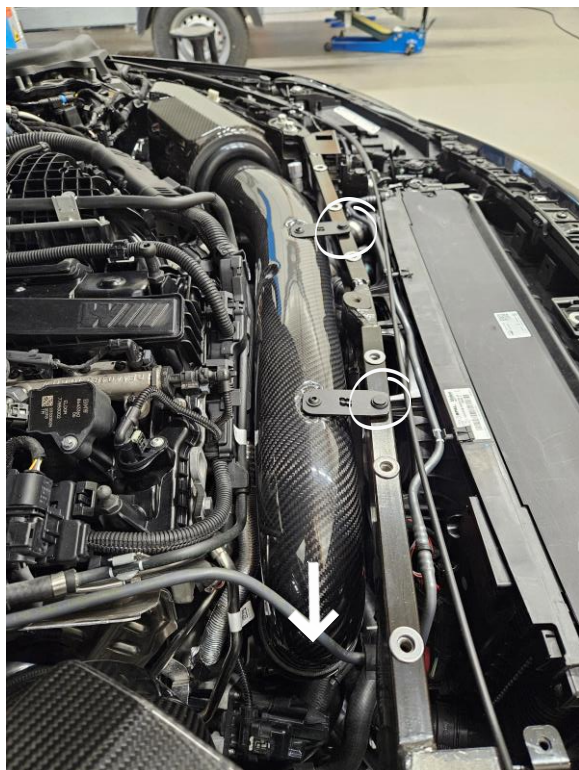
Remove 6x 13mm Hex screws (upper arrows) and 7x Torx T30 screws (Circled) then pull the upper part of the bumper cover forward to reveal and remove all 4x Torx T40 screws (lower arrows). Loosen the hood cable from the 3 tabs.



Step 4

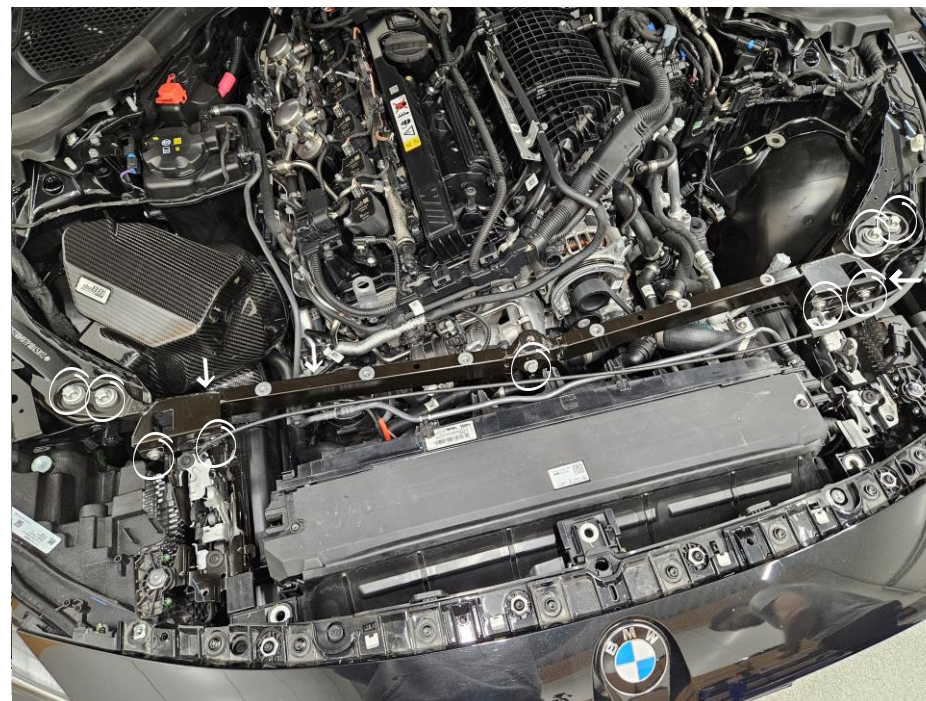
Gently pull the upper part of the bumper cover forward and remove the four plastic clips holding the plate to the front air duct. The ones on the left side is shown in picture.

Remove the front support member plate.



Step 5

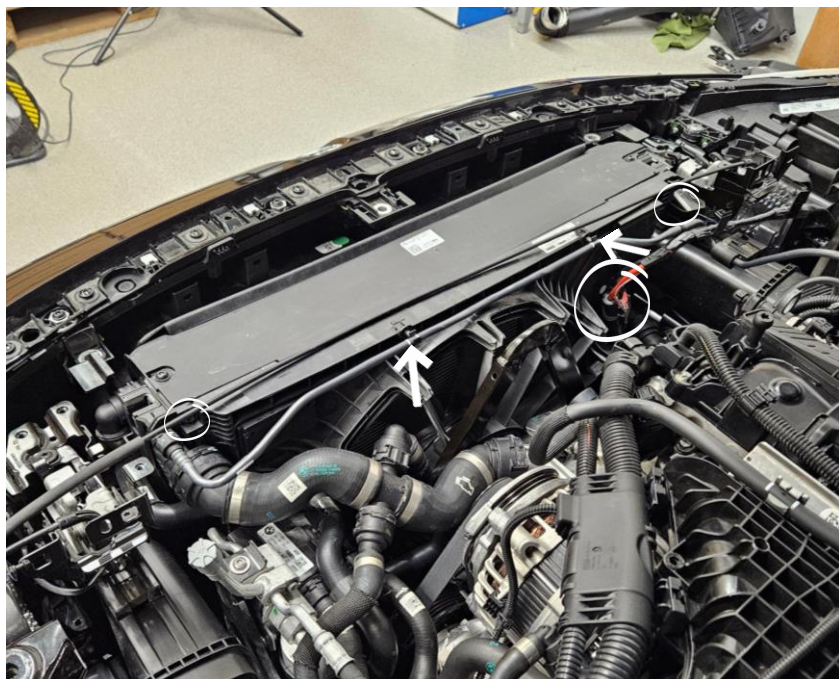
Remove the two plastic clips holding the intake pipe to the radiator support bar and undo the C-clip or hose clamp holding the intake pipe to the front turbo inlet. Then remove the left intake assembly.



Step 6

Remove the 4x Torx T30 screws holding the hood latch to core support bar. Then undo the 13mm Hex screw in the middle of the bar and the 4x Torx E18 screws on each side. Loosen the 3 clips holding electrical harnesses to the bar, one on the left and two on the right.

Remove the radiator support bar from the car.



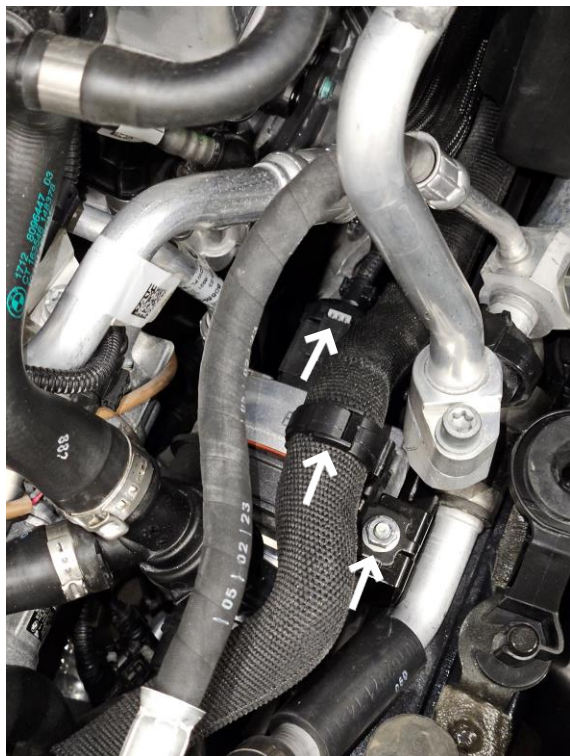
Step 7

Remove the Torx T30 screw securing the fan shroud to the radiator support. Separate the breather line and disconnect the electrical connector from the fan shroud. Then release the tab and pull the fan shroud upwards, to make more room to get it out, tilt the radiator assembly forward.



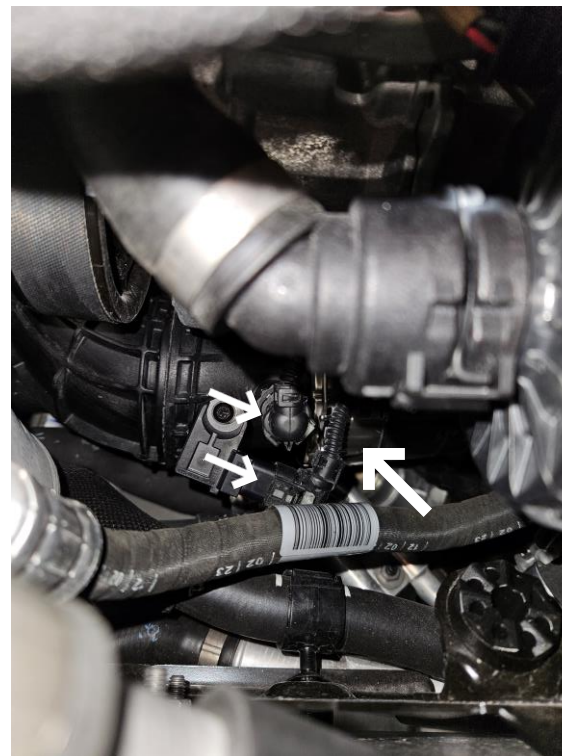
Step 8

Remove the 2x 16mm Hex screws holding the V support brace to the lower frame member, release the clip holding the radiator hose to the V support brace and then remove the V support brace from the car.



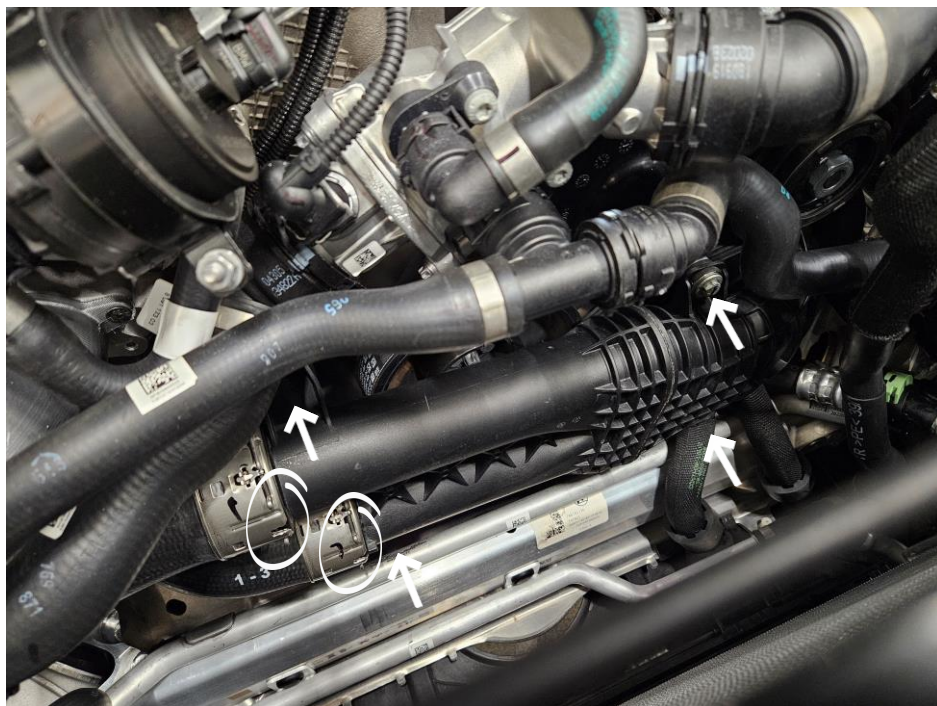
Step 9

Remove the 10mm Hex nut and release the clip holding the radiator hose on top of the auxiliary water pump located on the chassis beam on the left side of the engine. Disconnect the electrical connector from the water pump and move the water pump to the side.



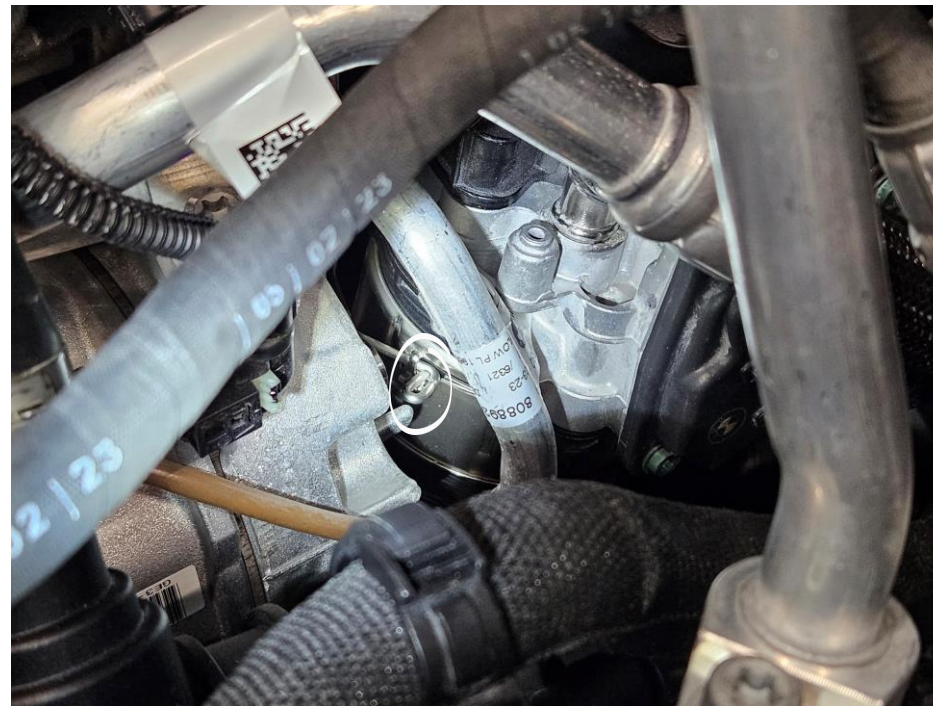
Step 10

Under the water pump you can reach the two sensors on the y-pipe, disconnect both electrical connectors. Then release the c-clip holding the throttle body hose to the y-pipe.



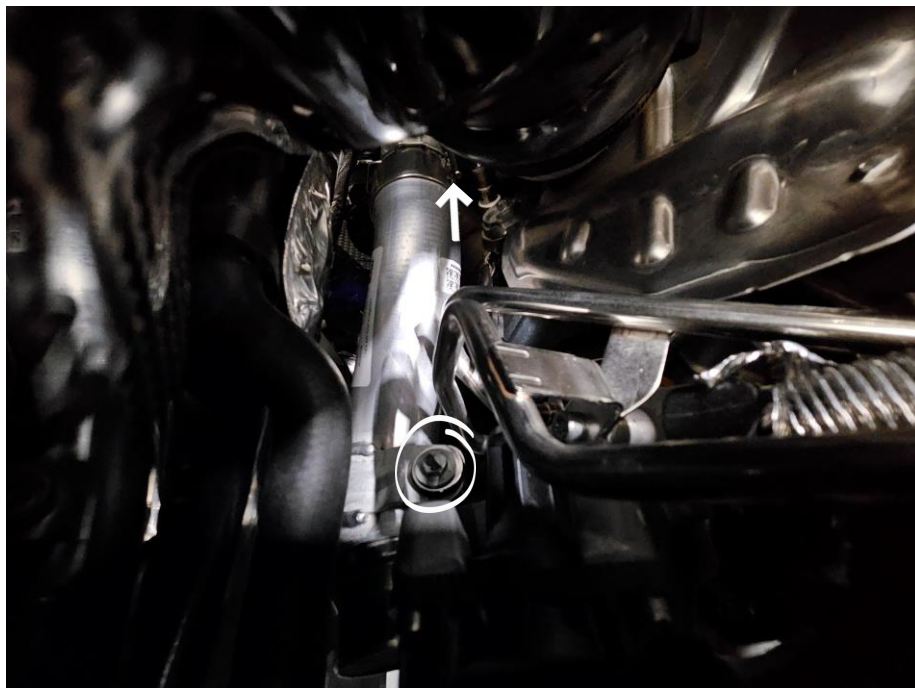
Step 11

Remove the 4x 10mm Hex screws (arrows) holding the y-pipe to the engine. Two on the top and two on the bottom (there is standoff screws between y-pipe and engine that may loosen from engine when removing the 10mm hex screw). When the y-pipe is loose remove the turbo side hoses by undoing the 4 c-clips, two on the y-pipe, one on the front turbo and one on the pipe from the rear turbo. Remove the y-pipe from the car.



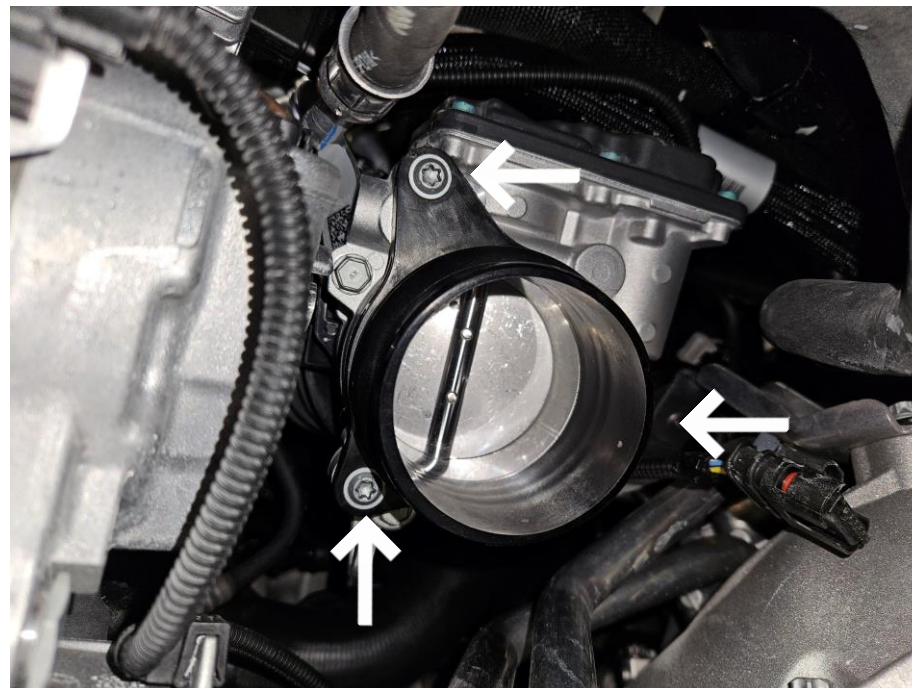
Step 12

Loosen the c-clip holding the throttle body hose to the throttle body adapter and remove the throttle body hose from the car.



Step 13

Loosen the c-clip holding the charge pipe to the rear turbo and remove the 10mm Hex screw securing it to the engine. Then remove the pipe from the car.



Step 14

Remove the 3x Torx T30 screws holding the throttle body adapter to the throttle body. Install the included do88 billet throttle body adapter with the three included M6x25 countersunk Torx T30 screws.

NOTE!

This is in a tricky position. If you have a problem to reach this, you may want to remove the under engine aluminum skid / reinforcement plate and do this step from underneath.



Step 15

Transfer the OE sealing ring, C-clips and bushing with sleeve to the do88 Performance charge pipe.

Make sure that the sealing ring is installed in the correct direction (small lip pointing towards the opening of the pipe).

Use some lubricant for easier install of the bushing.



Step 16

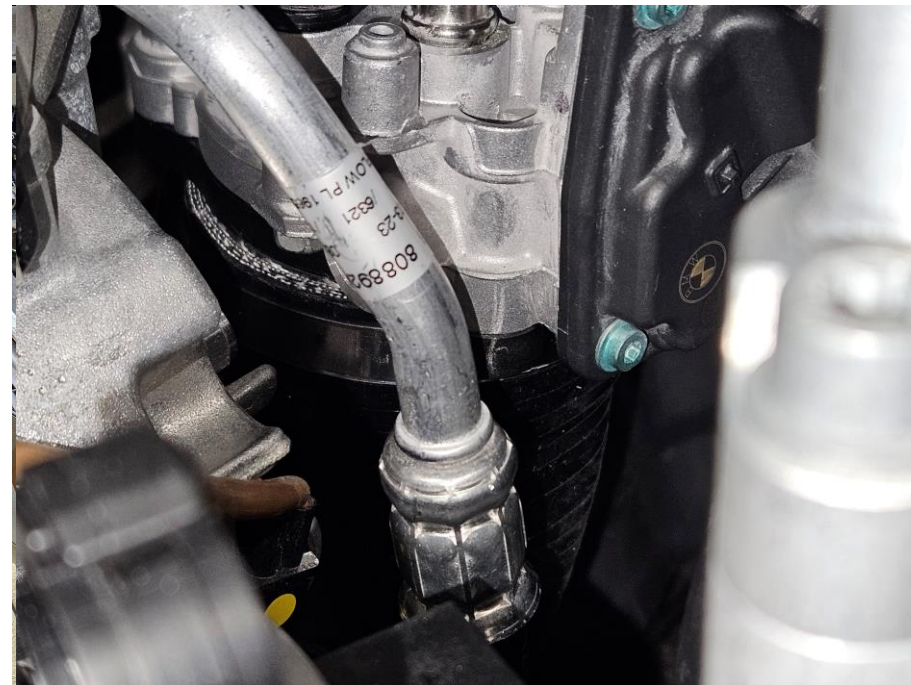
Transfer the two sensors located on the OE y-pipe (one secured with a Torx T25 screw and the other threaded in with a 12-point 17mm) and the four bushings with sleeves to the do88 Performance y-pipe. Secure the temperature sensor with included M6x20 4mm Allen head screw and use some lubricant on the sensor O-rings, bushings and the sensor plastic threads for easier installation.



Step 17

From the front turbo outlet hose, transfer the OE sealing ring and C-clip to the do88 Performance turbo adapter.

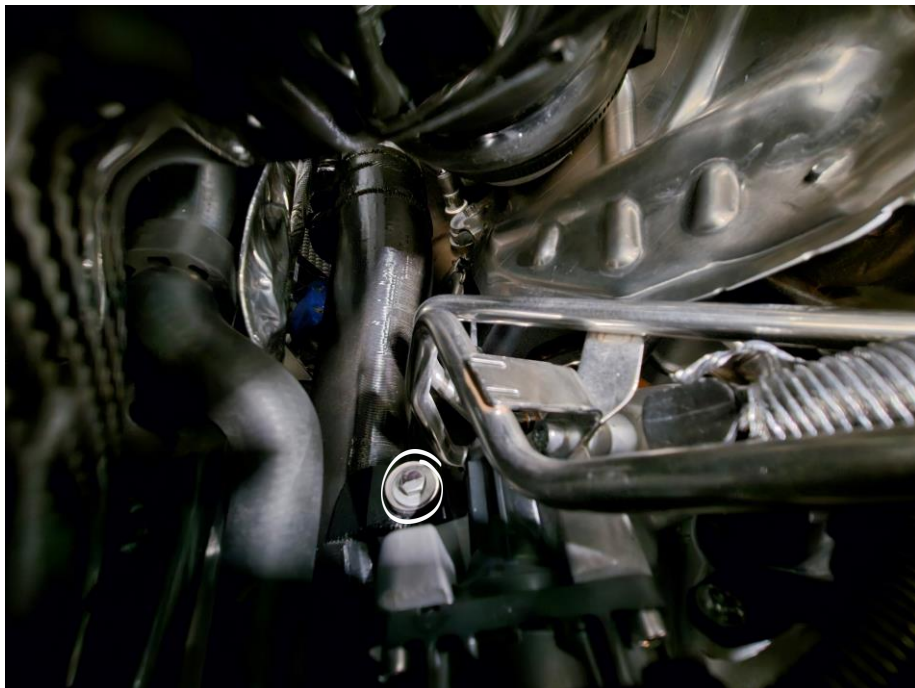
Make sure that the sealing ring is installed in the correct direction (small lip pointing towards the hose side of the adapter).



Step 18

Mount the large silicone hose with the shorter end to the throttle body adapter and make sure the rotation is correct. The other end of the hose should be pointing a tad to the left, use the y-pipe as reference.

Then tighten the hose clamp to 5Nm.



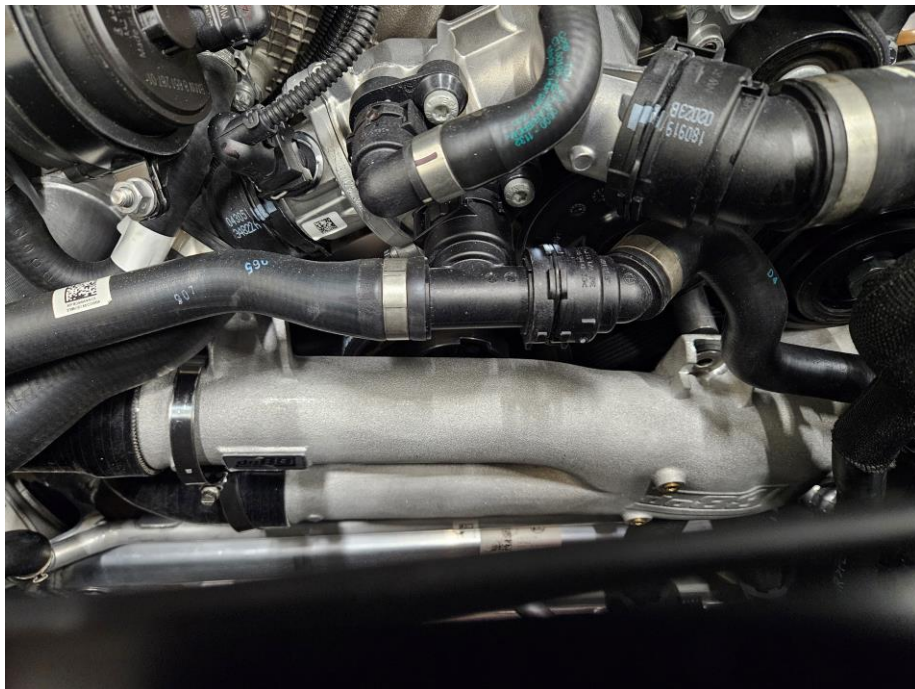
Step 19

Mount the do88 Performance charge pipe to the rear turbo and secure it with the OE 10mm hex screw. Mount the do88 y-pipe to the throttle body hose without tightening the hose clamp or securing it to the engine.



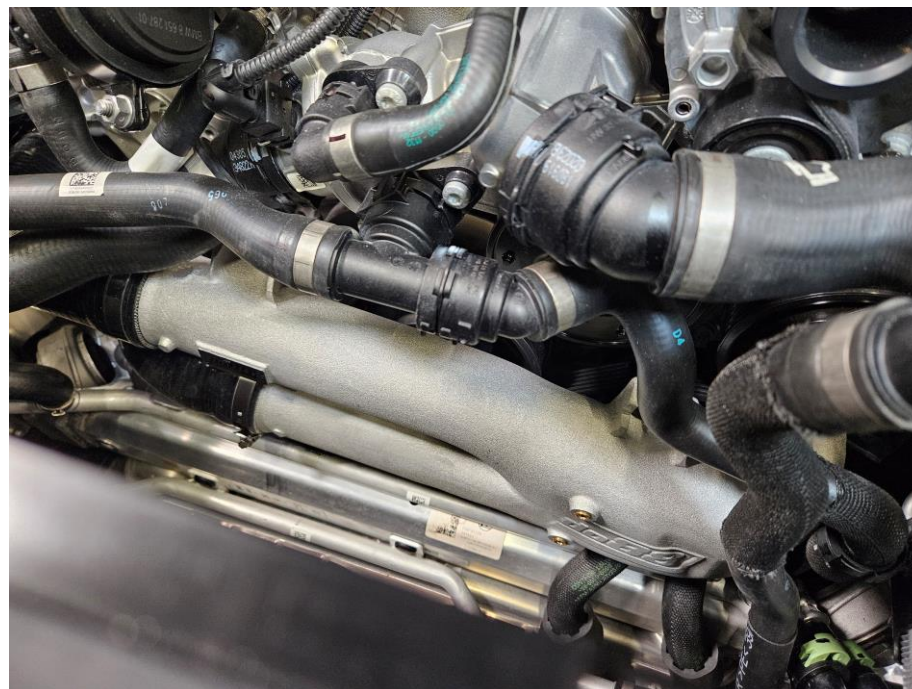
Step 20

Mount the short silicone hose to the turbo adapter. Install it on the lower inlet connection of the y-pipe but do not mount it to the front turbo yet.



Step 21

Install the long silicone hose between the upper inlet of the y-pipe and the charge pipe coming from the rear turbo.
Mount the short hose to the front turbo.



Step 22

Secure the do88 performance y-pipe with the 4x OE screws, then tighten all 5 hose clamps that have not been tightened yet to 5Nm and re-install the electrical connectors to the sensors on the y-pipe.

Re-install all other parts in reverse order.



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