



Installation Instruction

Performance Charge cooler Radiator



BMW G8X

S58

PART NUMBER: WC - 430



Description

This instruction shows how to replace the OEM radiator with do88 Performance radiator.

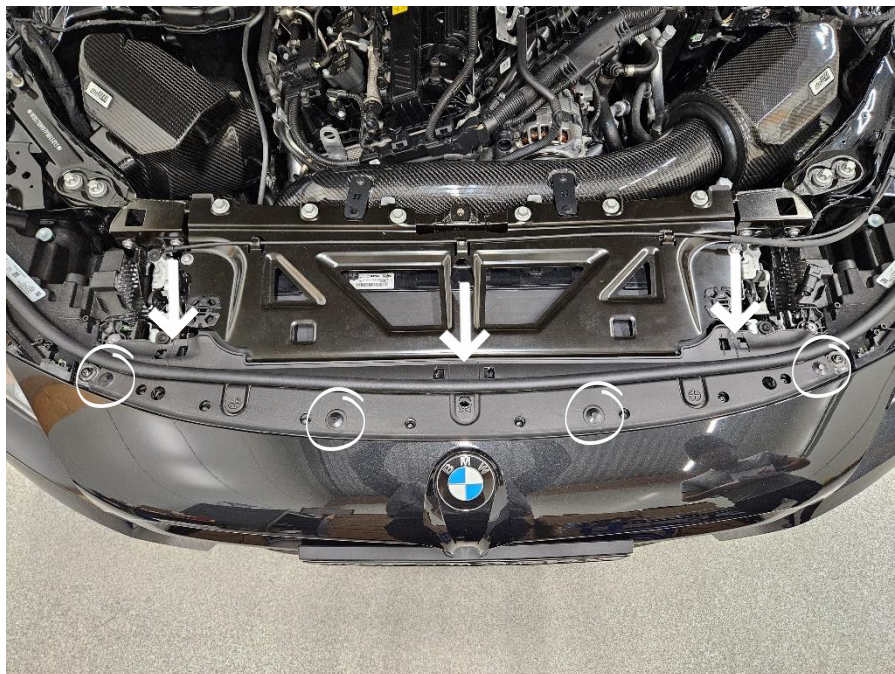
At this type of installation, we always recommend that you have mechanical experience and knowledge about safety during work on vehicles.

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

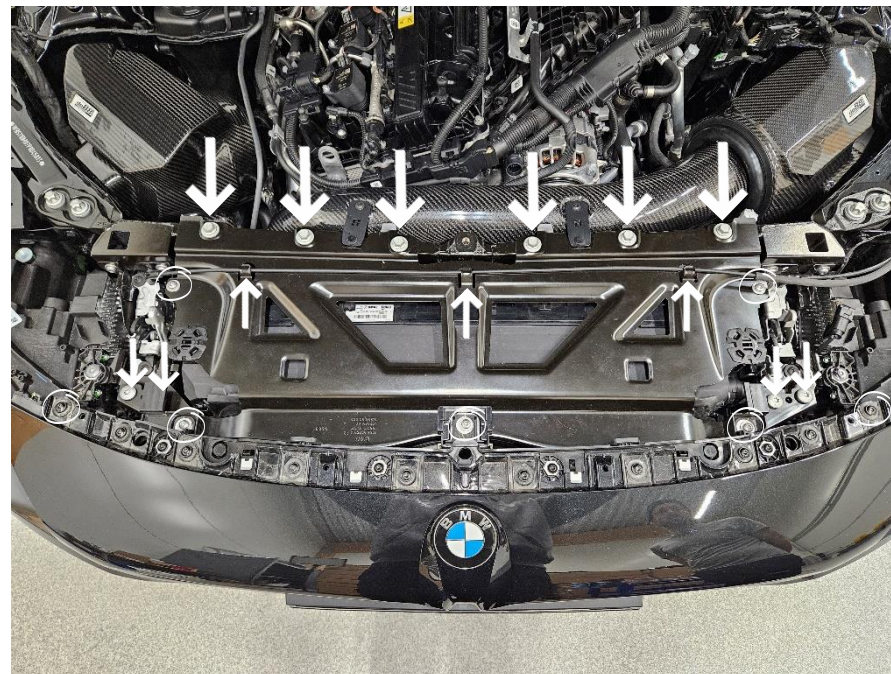
1. do88 Performance charge cooler radiator
2. Upper rock guard
3. Lower rock guard (only used on manual gearbox cars)

do88 performance radiator has a coolant capacity of about 3,6 liters which is about 1,4 liter more than the OE radiator.



Step 1

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 2

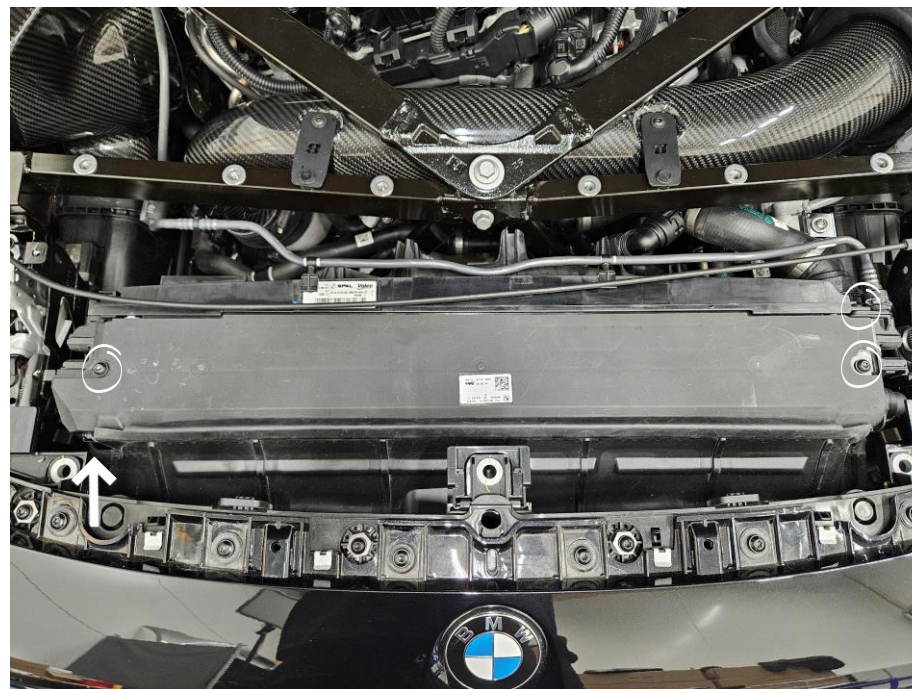
Remove 6x 13mm Hex screws (upper arrows) and 7x Torx T30 screws (Circled) then pull the upper part of the bumper cover forward to reveal and remove all 4x Torx T40 screws (lower arrows). Loosen the hood cable from the 3 tabs.



Step 3

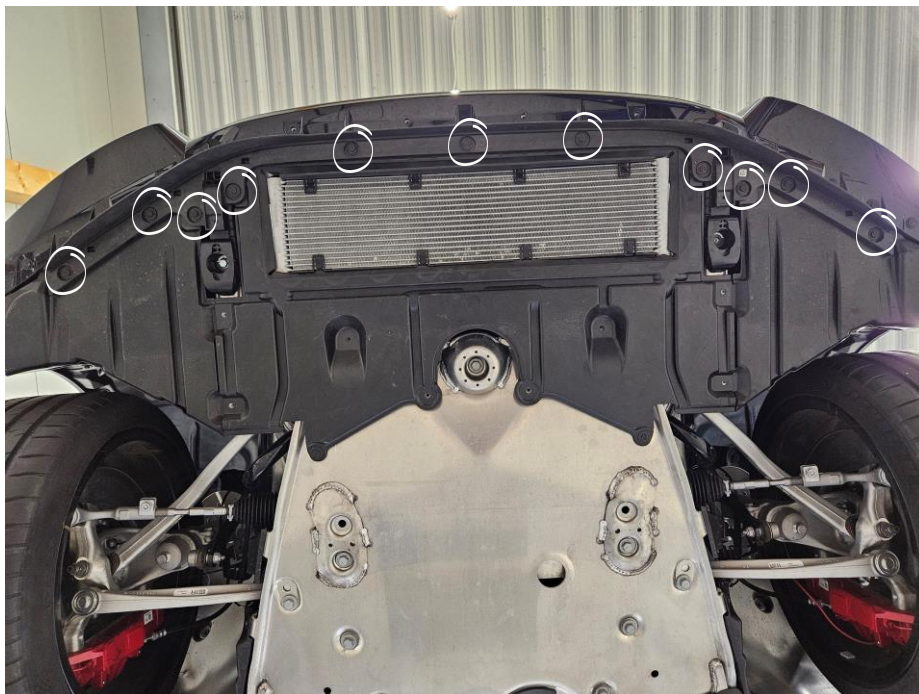
Gently pull the upper part of the bumper cover forward and remove the four plastic clips holding the plate to the front air duct. The ones on the left side is shown in picture.

Remove the front support member plate.



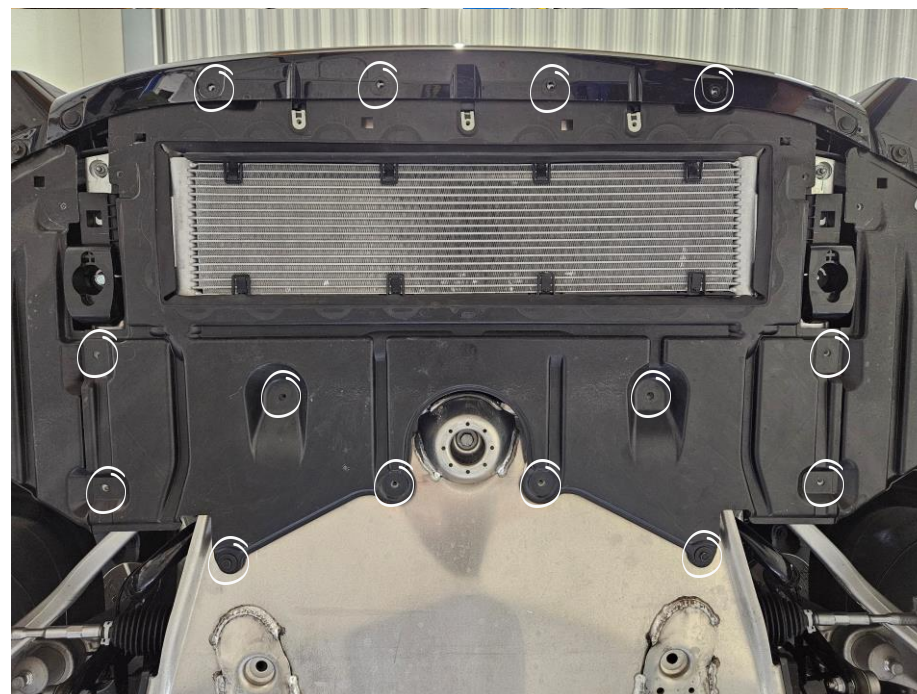
Step 4

Remove 3x Torx T30 screws and lift the fan shroud upwards approximately 20mm. Then push the tab on the right side (at arrow) and remove the top radiator support upper cover.



Step 5

Remove the lower lip by loosening 11x 10mm hex screws and move the lip in a rearward then downward direction.



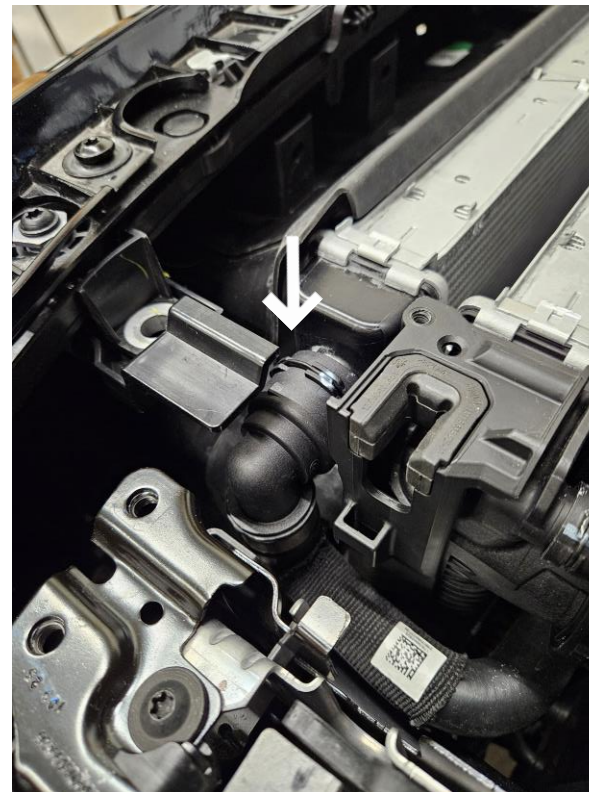
Step 6

Remove the plastic undertray surrounding the oil cooler by loosening 14x 10mm hex screws.



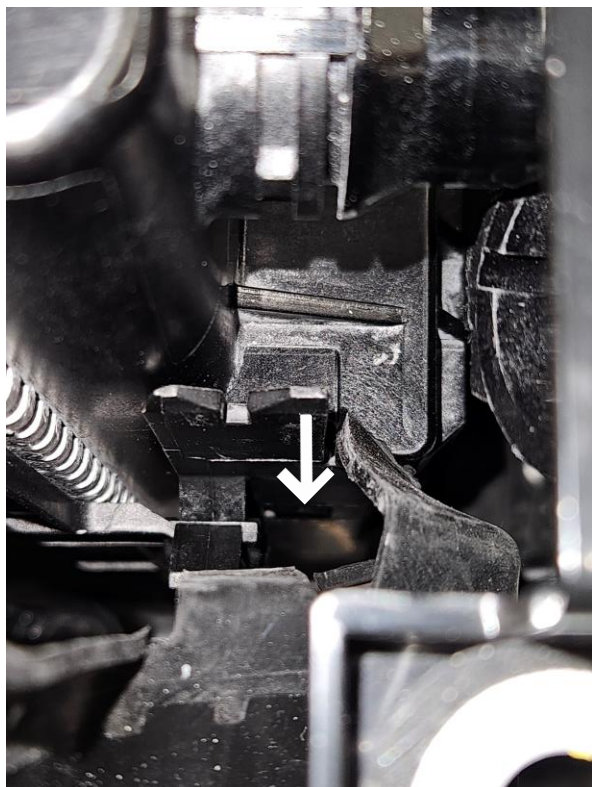
Step 7

Pinch the lower and upper radiator hose
Remove the lower radiator hose connection in the bottom of the left side of the front radiator and drain the coolant from the radiator.



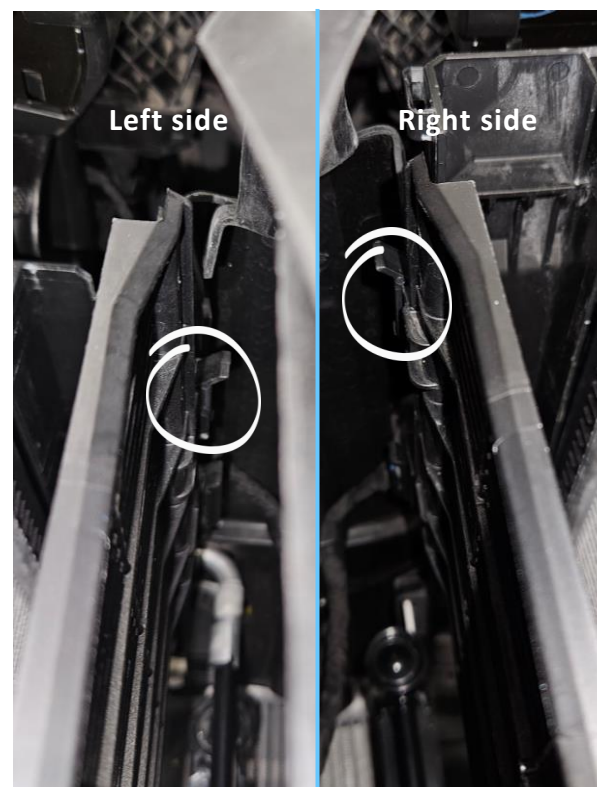
Step 8

Remove the upper radiator hose connection in the left side of the front radiator.



Step 9

Release the tab on the radiator holding the radiator to the radiator support by pushing it in from the front of the radiator support, lift the radiator upwards and out of the radiator supports.



Step 10

Remove the upper rock guard by release the tabs and lift it upwards.



Step 11

ONLY for manual cars without transmission oil cooler!

Remove the lower OE rock guard by removing the Torx T30 Screw securing it to the radiator support (using a small ratchet and short T30 bit) and jiggle it out.

On the M2 you can do it through the lower grill opening, on other models you can reach it from the top. (in some cases, you might have to remove the entire bumper cover to access this screw)



Step 12

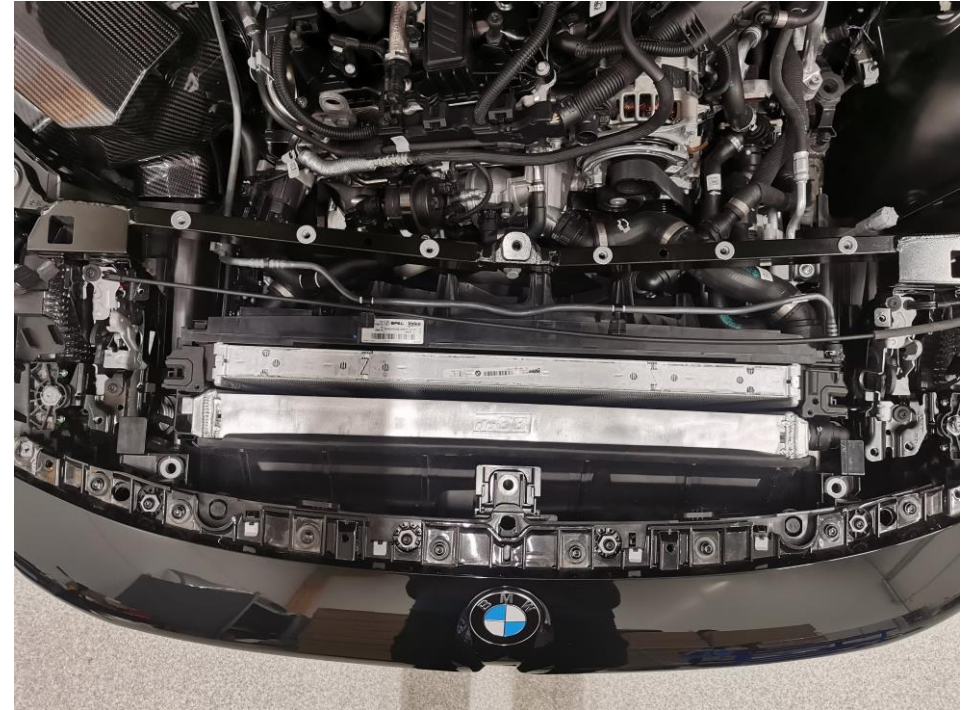
ONLY for manual cars without transmission oil cooler!

Install the do88 lower rock guard and secure it with the OE screw. (for easier installation, you can shorten the screw).



Step 13

Install the do88 upper rock guard, make sure its seated correctly and secured by the tabs.



Step 14

Mount the radiator, let the left side be slightly lower and push the radiator to the right then down. It might be necessary to jiggle it a bit from side to side to slide it down.

Connect the lower radiator hose and remove the hose pincher from that and have the upper hose (still pinched) ready to connect. With the hoses like this, fill up coolant in the expansion tank until it pours out of the upper radiator connection, now connect the hose and remove hose pincher.

Re-install all other parts in reverse order, refill coolant and perform coolant bleeding procedure according to step 15.



Step 15

Bleed cooling system according to this instruction:

- Switch ignition on without starting engine (Pushing the start button 3 times fast).
- Switch low-beam light on.
- Set climate control to max temp and lowest fan speed.
- Press accelerator pedal to the floor for 10 seconds.
- Bleeding procedure starts and take about 10-15 minutes. In the end of the procedure the intercooler coolant pump runs on full power and at this stage you should feel the coolant flowing thru the intercooler coolant hoses when you gently squeeze them.
- Top off coolant again.
- If there is still air in the system this will result in higher IAT and no or intermittent AC function due to reduced or no circulation in the intercooler/AC cooling system and filling/bleeding have to be performed.

Note.

do88 performance radiator has a coolant capacity of about 3,6 liters which is about 1,4 liter more than the OE radiator.

If this is not enough and air is trapped in the system here are some solutions.

- Disconnect the top connection on the heat exchanger for the intercooler/AC system and fill the expansion tank and wait until there is water coming out, then reconnect and do Step 31 again.
- Disconnect the bleeder hose from the expansion tank and plug the outlet, the pressurize the expansion tank and wait for a steady stream of water in the breeder hose. Repeat this multiple times in short interval to confirm there is enough water in the expansion tank, then reconnect and do Step 31 again.
- When running the cars bleeding procedure slightly pinching the hoses before and after the pump can help it pull the water through the system. **Caution! Because of engine bleeding program running there will be components turned on and parts moving.**



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