



Installation Instruction

Performance Radiator



BMW G2X and Toyota GR Supra A90

B58, B48, B46



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 GR Supra 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

- 1pc do88 Performance Radiator
- 2pc Brackets
- 6pc Zip-ties
- 6pc M5 Screws



Step 1

Remove the two plastic clips on each side holding the plastic panel over the hood latch.

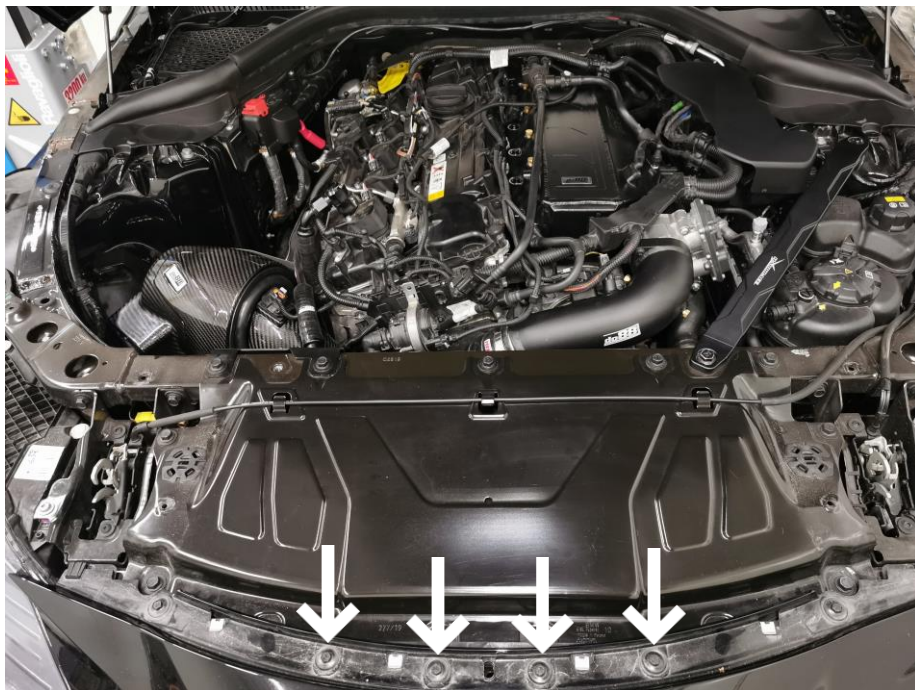
Then lift the edge of the panel that rests against the bumper on each side to reveal two 8mm hex screws and remove them.



Step 2

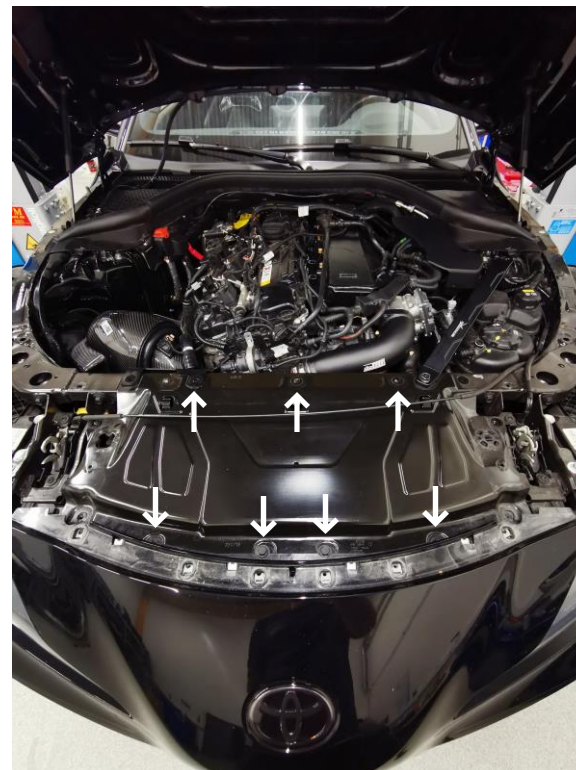
Lift the plastic panel to reveal 3 x 13mm hex screws and one 10mm hex screw on each side, remove from the right and left side.

Then unclip the core support retainer on both sides using a narrow plier.



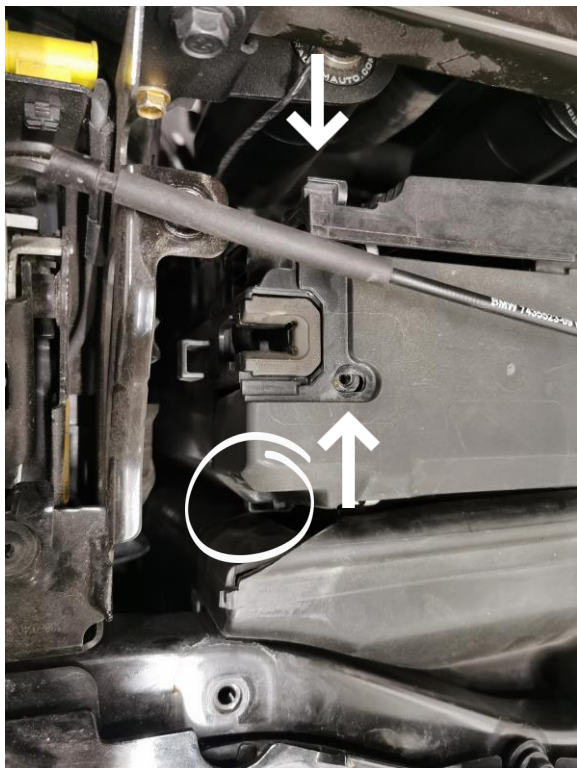
Step 3

Remove the rubber seal and remove the 4 x 10mm hex holding the bumper cover.



Step 4

Pull the bumper slightly forward and loosen the screws that holds the metal cover, 4 x 13mm hex screws in the front and 3 x 13mm screws in the back. Then unclip the hood wire and lift the cover in the back and remove it in a backwards direction.



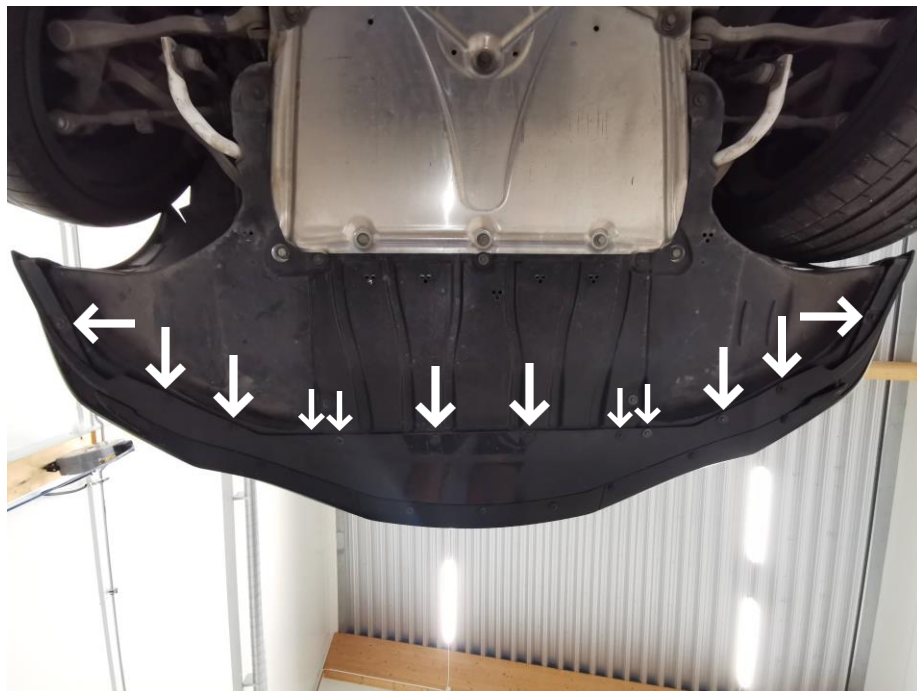
Step 5

Remove the 4 x T30 screws holding the top plastic and fan to the radiator. Release the clip and lift up the fan a bit to remove the top plastic.



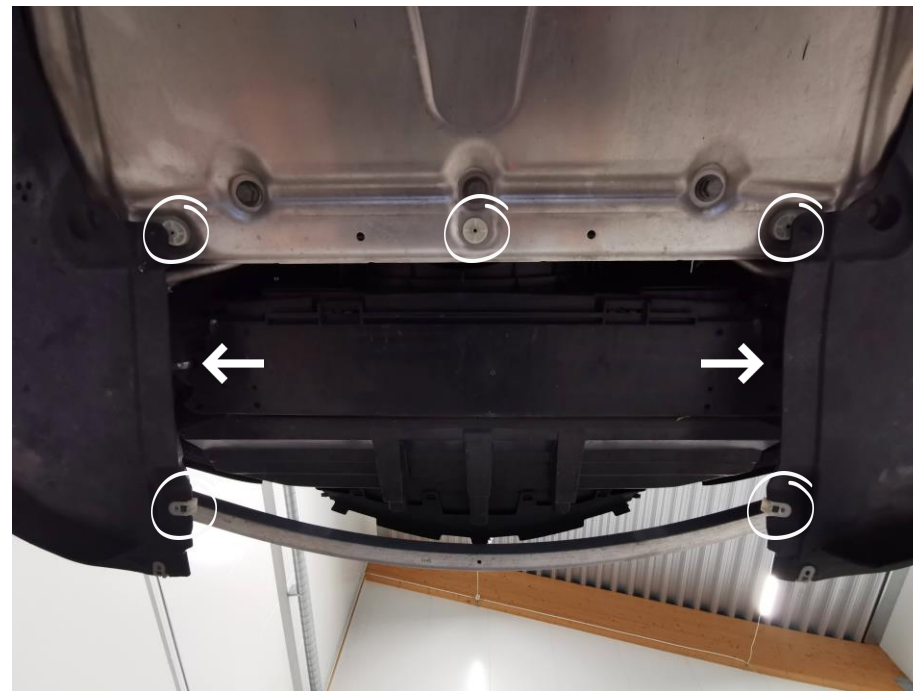
Step 6

Remove the 3 x 8mm hex screws holding the bumper to the inner wheel arch on both sides.



Step 7

Remove the 12 x 8mm hex screws holding the bottom part of the bumper. Then preferably with the help of an assistant, remove the bumper. Start by pulling out the sides and disconnect the electrical connections on both sides, then pull the bumper forward to remove it from car.



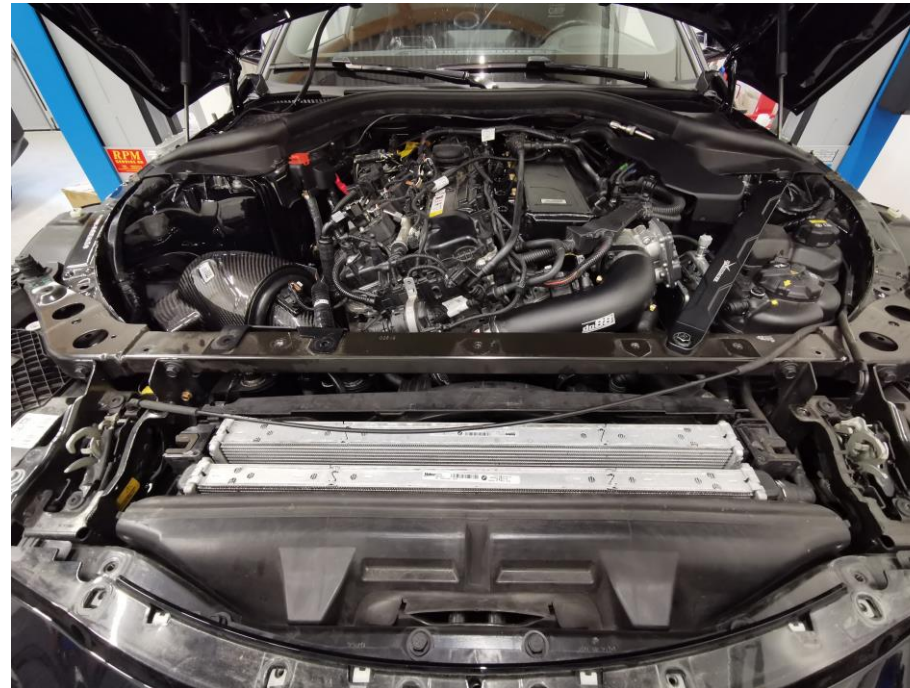
Step 8

Remove the 5 x 8mm hex screws holding the underfloor to reveal the bottom of the radiator pack and undo the 2 x T30 securing it in place.



Step 9

Release the clip to remove the bottom radiator connector. Then pinch the lower radiator hose and disconnect it from the radiator and drain the coolant from the radiator.



Step 10

Pinch the top radiator hose and undo it from the radiator.

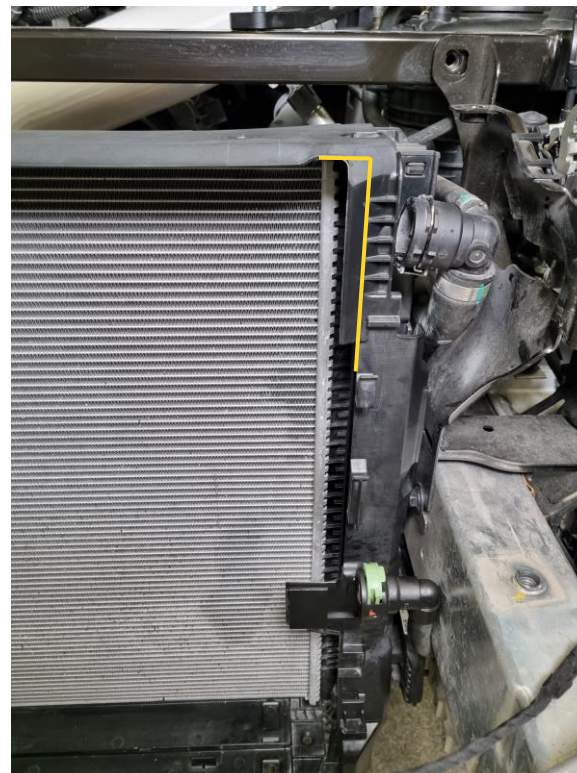
Then lift out the radiator upwards.



Step 11

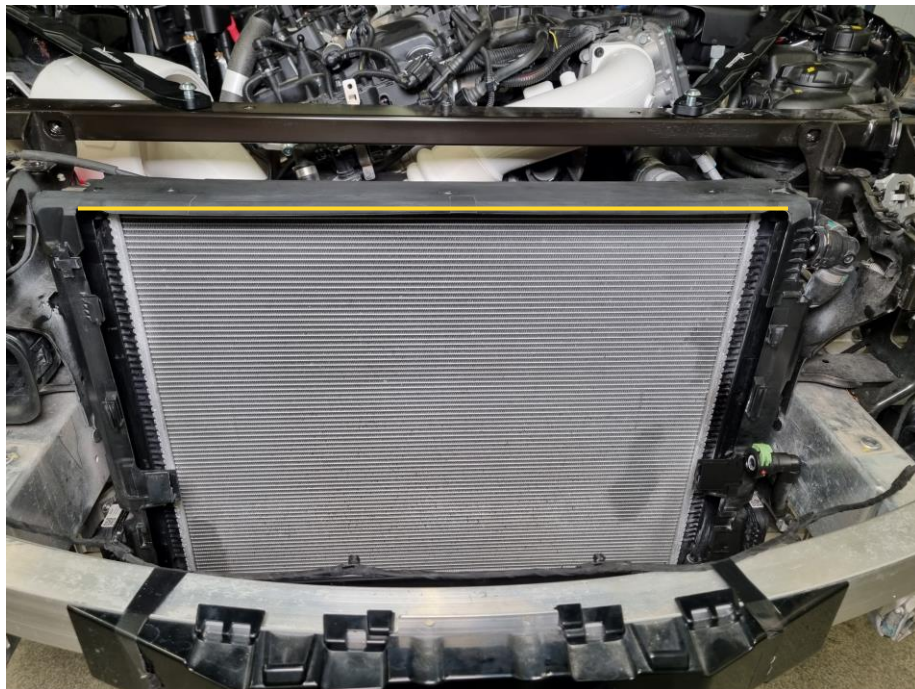
Note for step 11-18: It is possible to cut the plastic radiator supports with the front radiator air duct in place but it is a bit tight space. To have better access you can remove the front air duct by first removing the lower support beam (under bumper beam) then remove the radiator air duct.

Cut the upper right corner of the radiator support as marked in the picture.



Step 12

Cut the upper left corner of the radiator support as marked in the picture.



Step 13

Trim back the front part of the upper radiator support as shown by the line in the picture.



Step 14

Trim down the edge running along the bottom plastic radiator support and cut the 3 tabs for the radiator guard, it will sit over the front lip of the lower plastic when installed with the do88 Performance radiator.



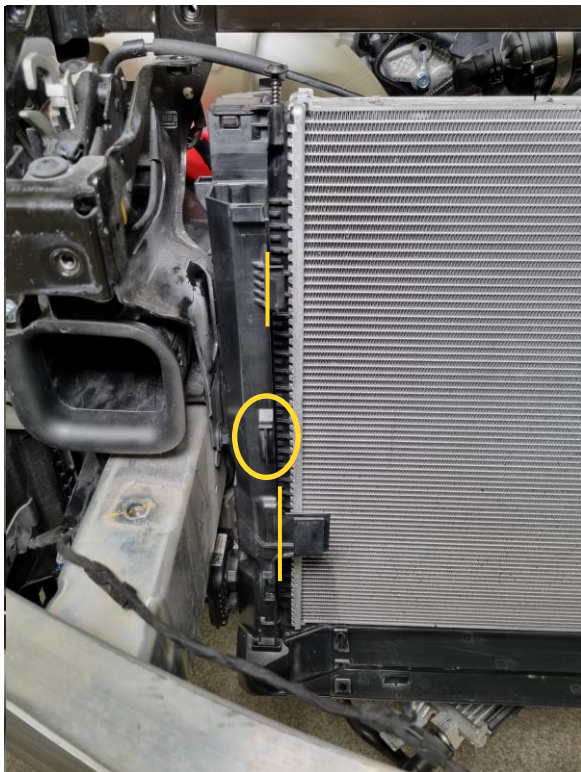
Step 15

Cut the right side of the lower radiator support in a straight line down from the clip mount.



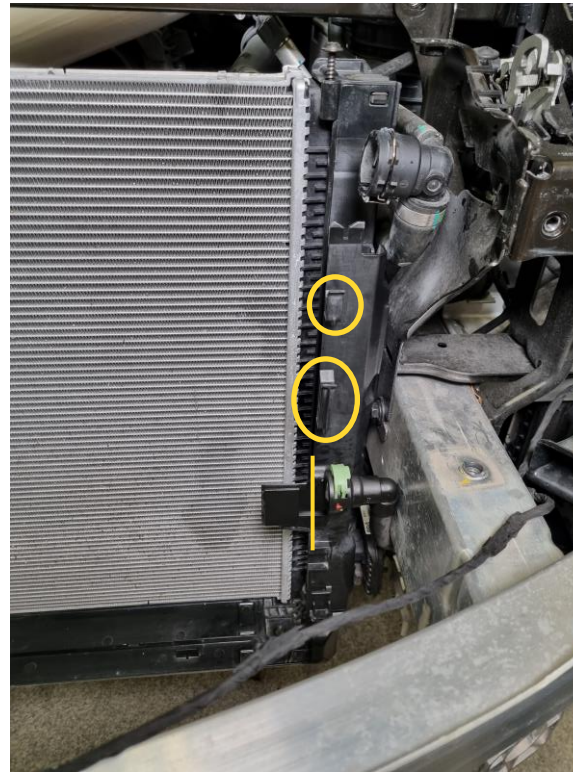
Step 16

Cut the left side of the lower radiator support in a straight line down from the clip mount.



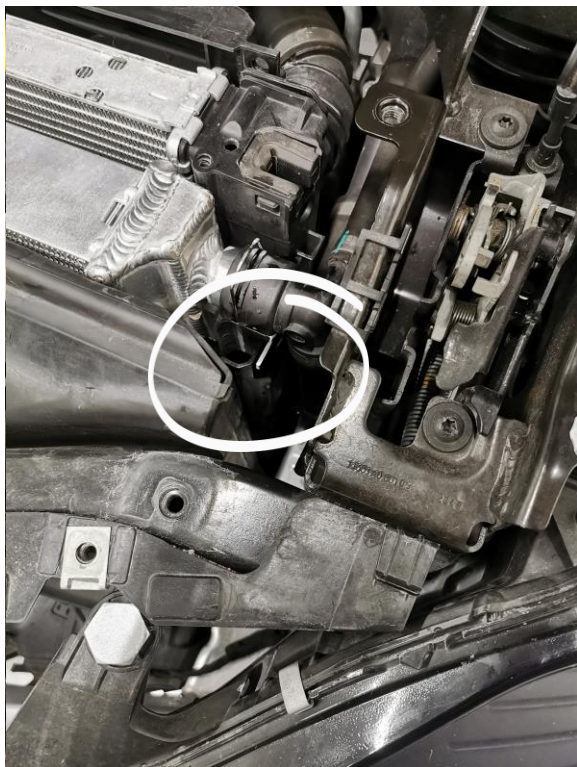
Step 17

Cut the brackets according to lines in picture from the right plastic radiator support and cut the tab circled in picture flush.



Step 18

Cut the bracket according to line in picture from the left plastic radiator support and cut the tabs circled in picture flush.



Step 19

Now you can slide the radiator in from the top. Be aware of the oil cooler and main radiator and don't push down hard, carefully wiggle down in place.

Then make sure the tab under the top radiator connection is seated correctly.



Step 20

Then mount the 2 included brackets for the oil cooler and radiator guard.

Place them behind the oil cooler and loosely install the top and bottom M5 screws. Lift the oil cooler to mount the middle M5 screw and then tighten down all 6 x M5.



Step 21

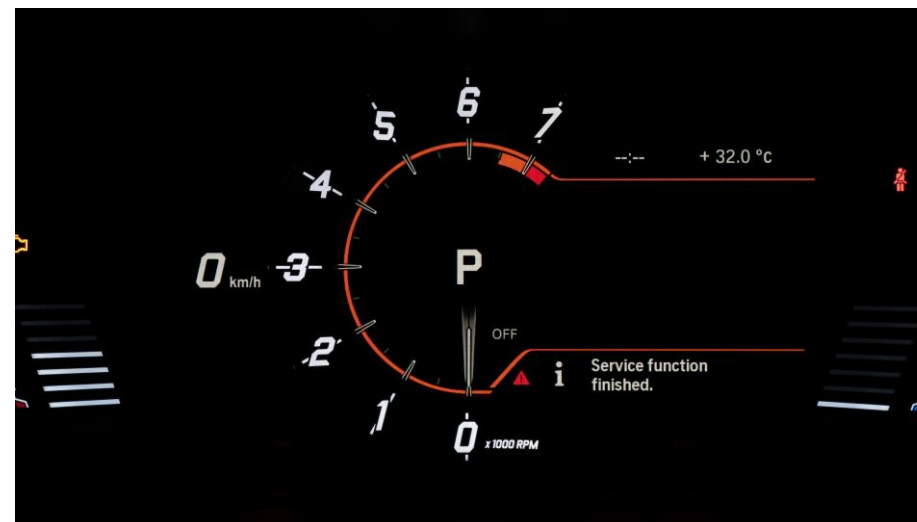
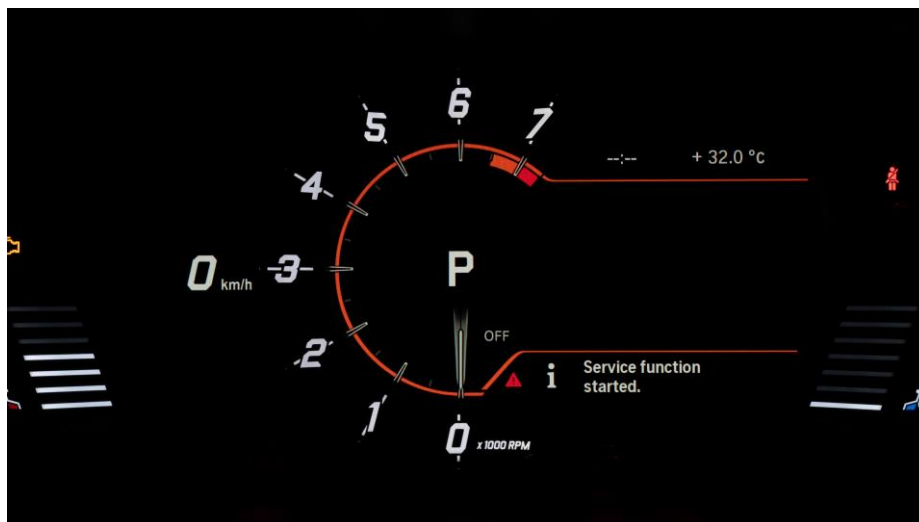
Mount the OEM radiator guard in the brackets. Then secure the radiator guard and oil cooler with included zip-ties.



Step 22

Now re-install everything in reverse order and refill coolant.

Note: The do88 performance radiator has a larger coolant capacity and holds about **2.6 liters more coolant** compared to the OE radiator.



Step 23

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.
- A "service function started" message is shown and the 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. When procedure is finished the "service function finished" message is shown.
- Top off coolant again.
- If there is still air in the system this will result in higher IAT due to reduced or no circulation in the intercooler cooling system.



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