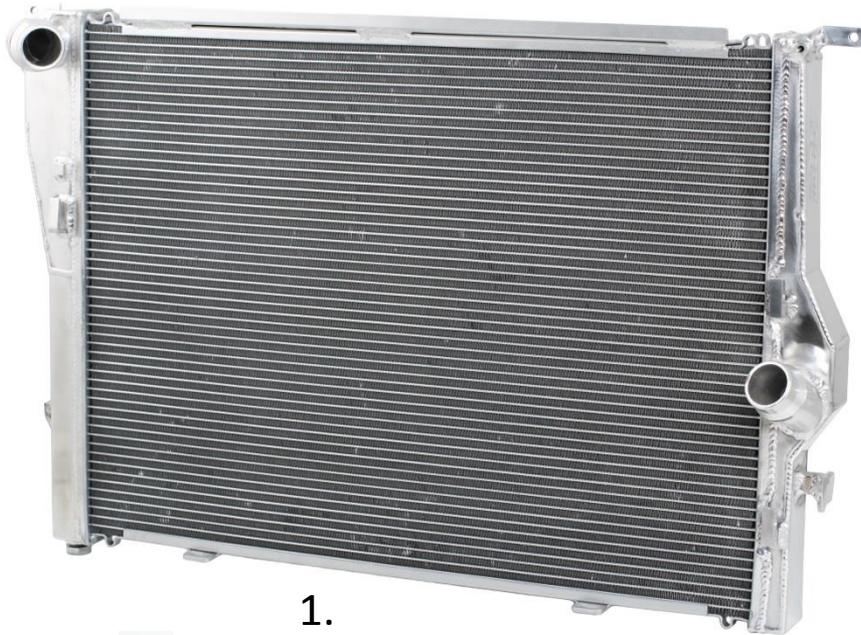


Installation instruction do88 BMW M3 E90 Racing Radiator

Part number: WC-190



This instruction shows how to replace the OEM radiator with our performance radiator.

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

Parts included:

1. do88 Racing Radiator
2. M6x12 2pcs

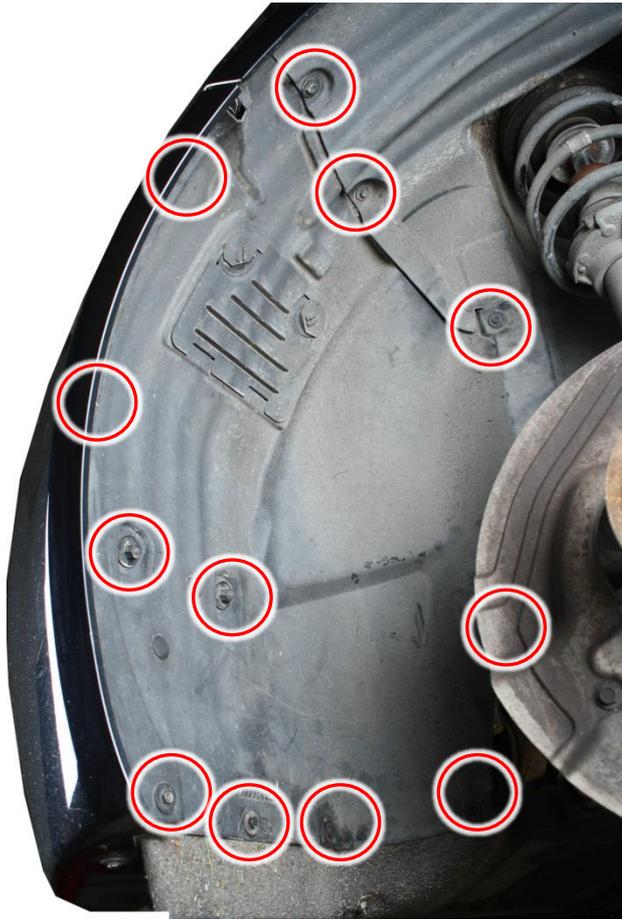
1.

Remove inner fenders.

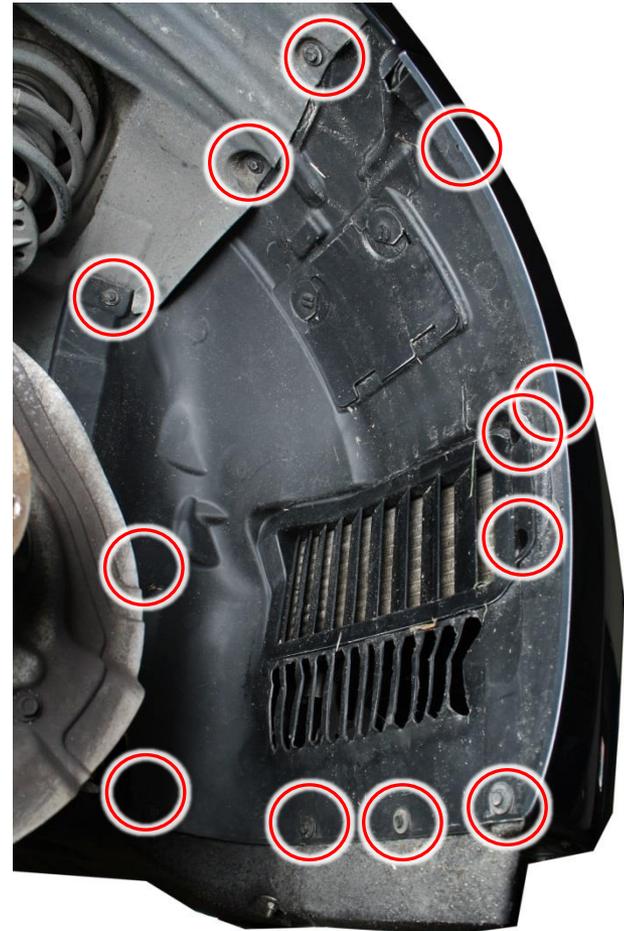
Left side: 9 pcs Hex 8mm and 3pcs Hex 10mm

Right side: 11 pcs Hex 8mm and 1pc Hex 10mm

Left side



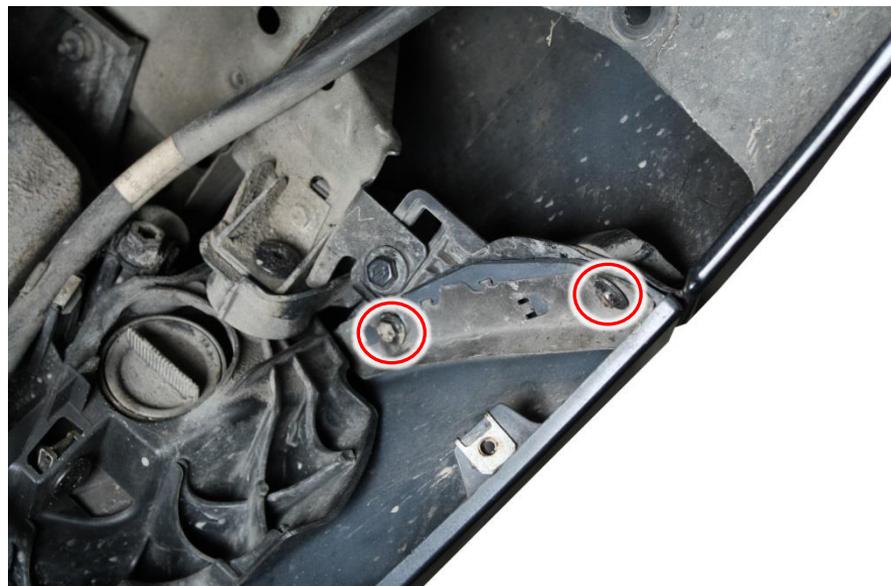
Right side



2. Release the steel wire fasteners on both sides of the bumper. Turn the wire bracket 90 degrees and pull it forward.



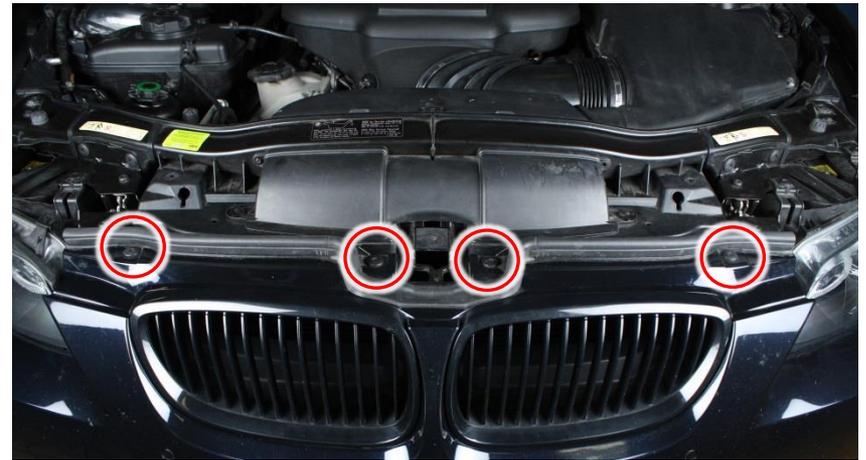
3. Remove 2x Hex 8mm in each upper corner of the bumper on both sides. (These become visible after you have removed the inner fenders).



4. Remove 3x Hex 10mm from the “under engine cover”.



5. Remove the 4x Torx T30 on top of the bumper.



6.

With help from a friend bend out the bumper on each side behind the head lights. And then pull it forward about 15cm and hold it in this position.

Now release the cables to the PDC sensors and remove bumper from vehicle.



7.

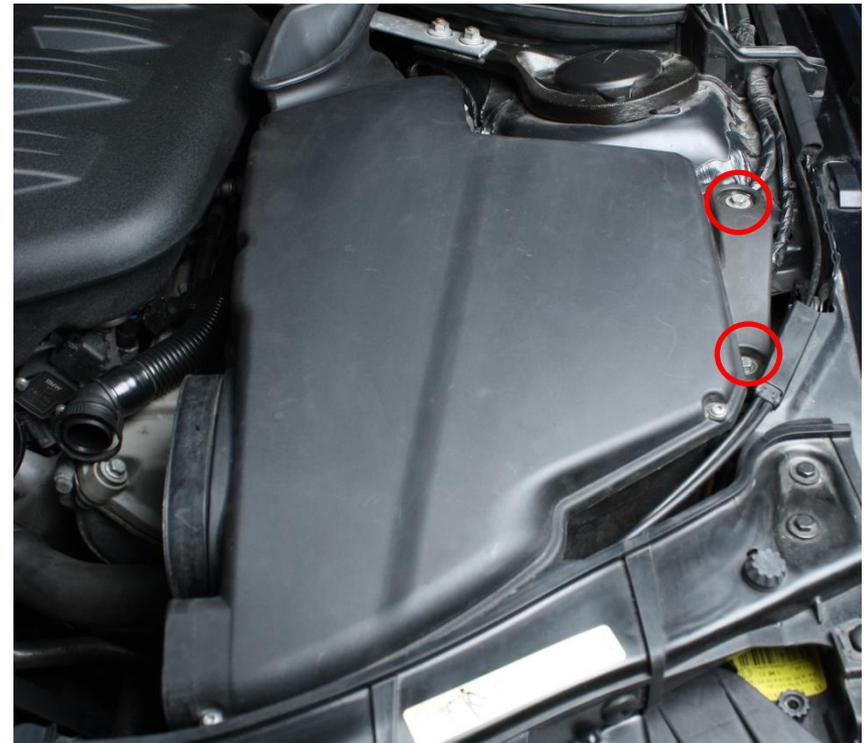
Remove the hose between the air filter box and plenum. 2x Hose clamps and Un-click 1x small hose.



8. Remove 2x Torx T20 and pull out the fresh air duct to the air filter box.

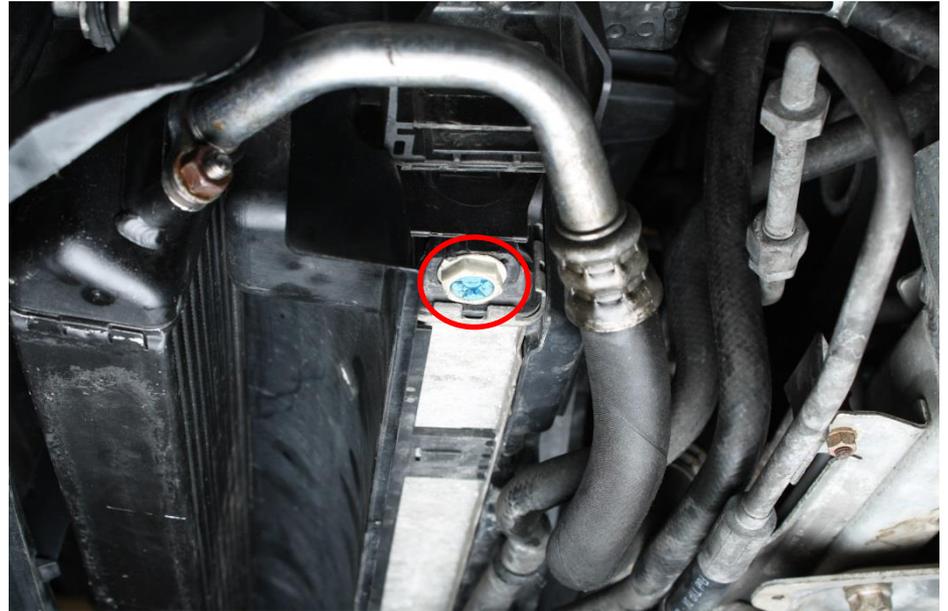


9. Remove 2x Hex 10mm and gently lift the entire air filter box straight up and remove it from vehicle.



10. **Warning! Before doing this step make sure engine is not warm!**

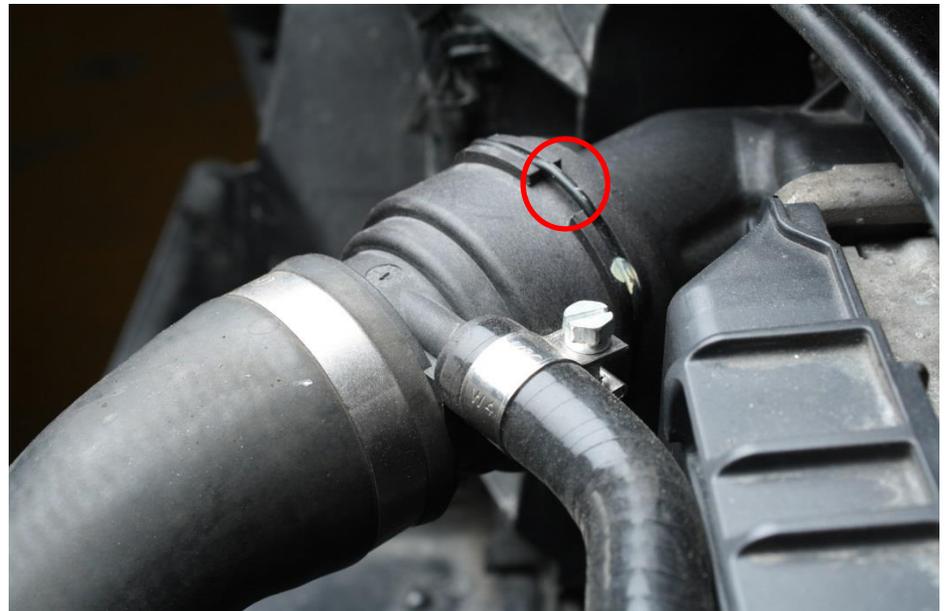
Unscrew the expansion tank lid. Then drain all coolant fluid from the radiator, do this by unscrewing the big blue Philips plastic screw.



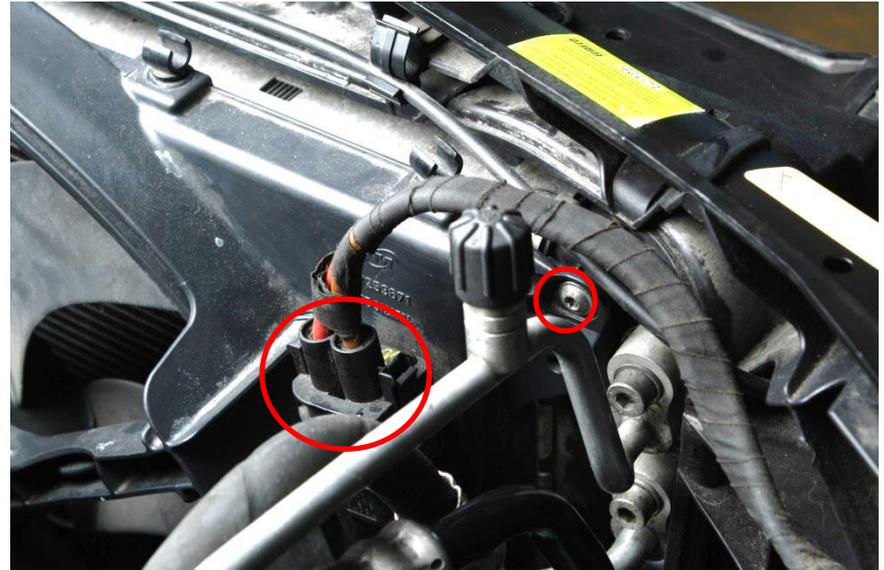
11. Remove both radiator hoses from the radiator and the small bleed hose to the expansion tank.

Release the fast connections with a flat screw driver, pull the clip about 10mm straight up and pull the hose loose.

Remove the hoses both from the engine and radiator.



- 12.** Disconnect the large cable connector and remove 1x Torx T25.



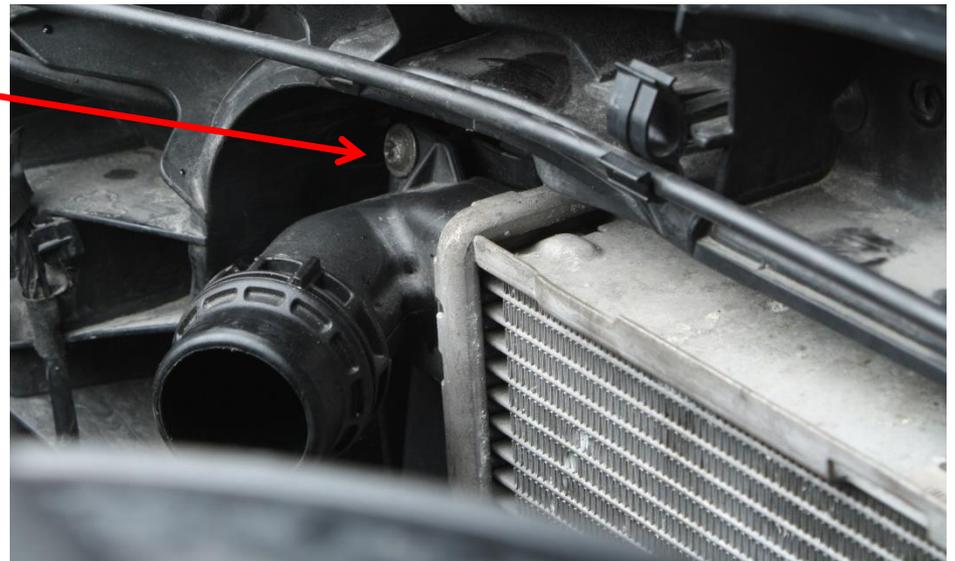
- 13.** Disconnect the hoses that are fastened in the bottom of the fan cover.
Now release the clip on the left side of the fan cover and gently lift the entire fan cover straight up.

- 14.** Remove 2x Torx T25, one in each upper end of the radiator.

- 15.** Now lift the radiator out from the vehicle. Do this by angle the top part towards the engine and then lift the right side upwards.

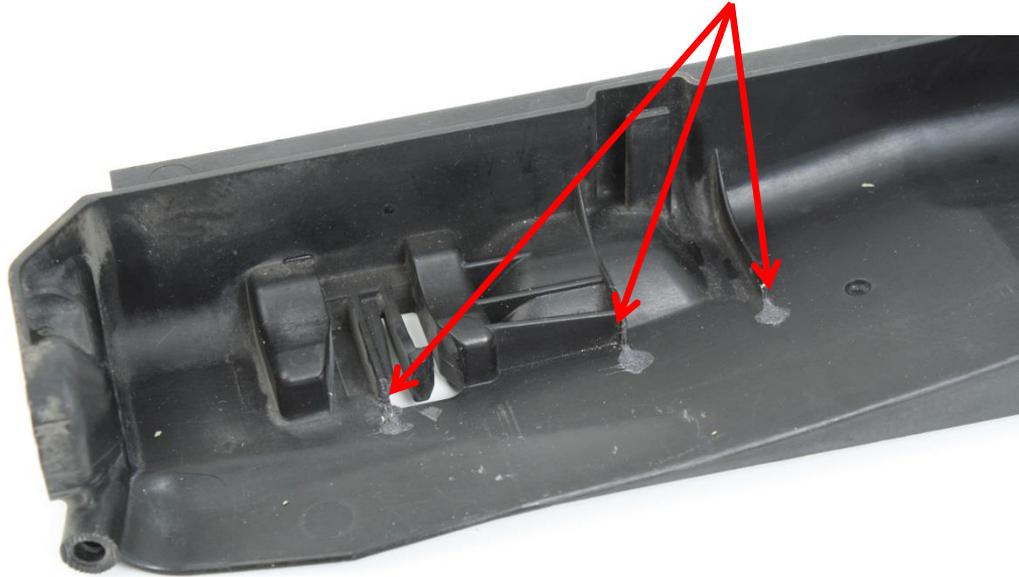
When the right side of the radiator hits the AC-lines then start lifting the left side of the radiator.

Now carefully lift the radiator straight up and out from the vehicle.



16.

Before installing the do88 racing radiator in your car you must trim the left hand side radiator support slightly. With a small wire cutter cut away these three small plastic edges, about 5mm long. After cutting your radiator support should look like the photo.



16.

Reinstall all other parts in reverse order.

(When installing the fan cover screw it to the radiator with the included M6x12 screws.)

(When installing the two radiators hoses we recommend to lubricate the O-rings inside the fast connections, this will make the instillation much more easy)

Then refill coolant fluid and bleed the system for air.