

Installation instruction do88 performance Radiator BMW M3 M4 F8X

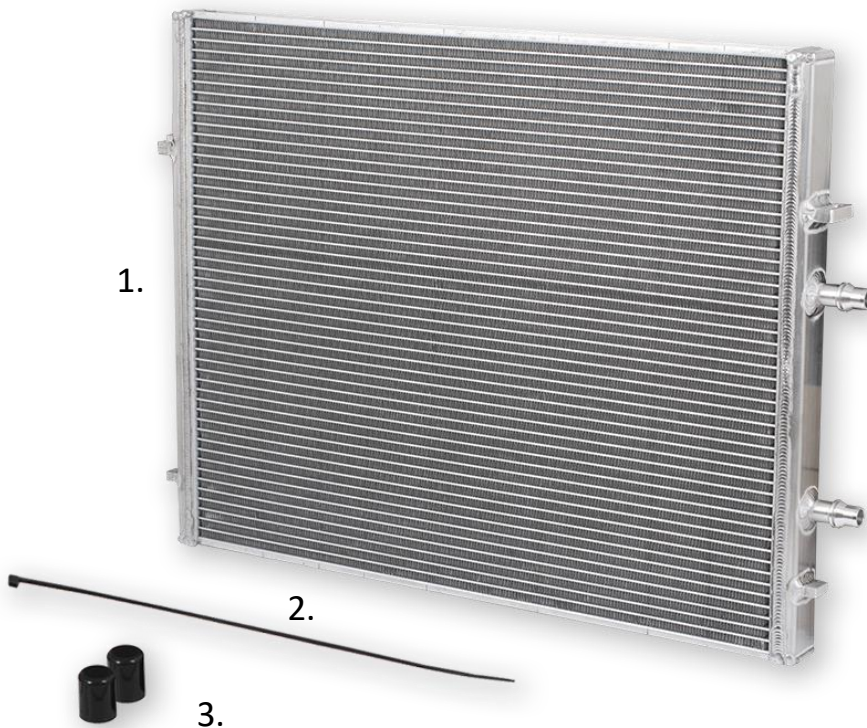
Part number: WC-350

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

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

Parts included:

1. Performance radiator
2. Zip Tie
3. 2pcs silicone cap 21mm



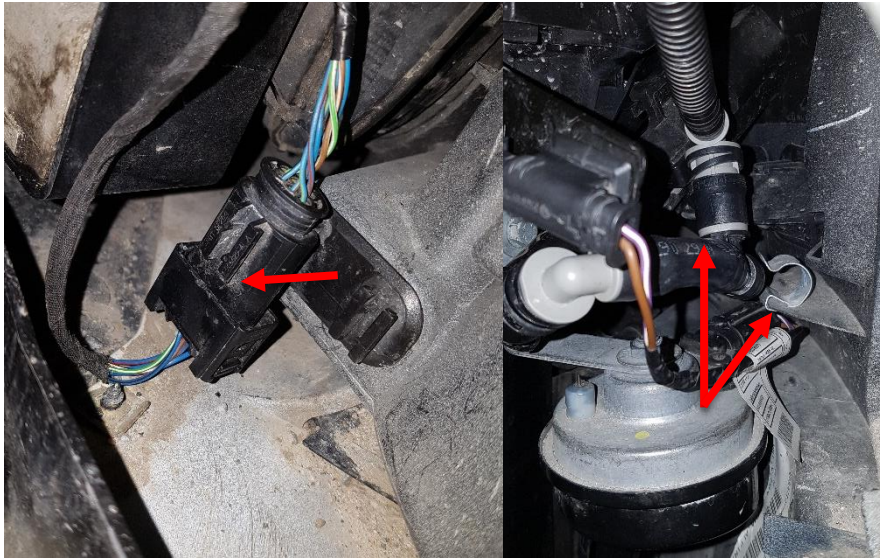
1.

Loosen 5x hex 8mm in each side front inner wheel arch.



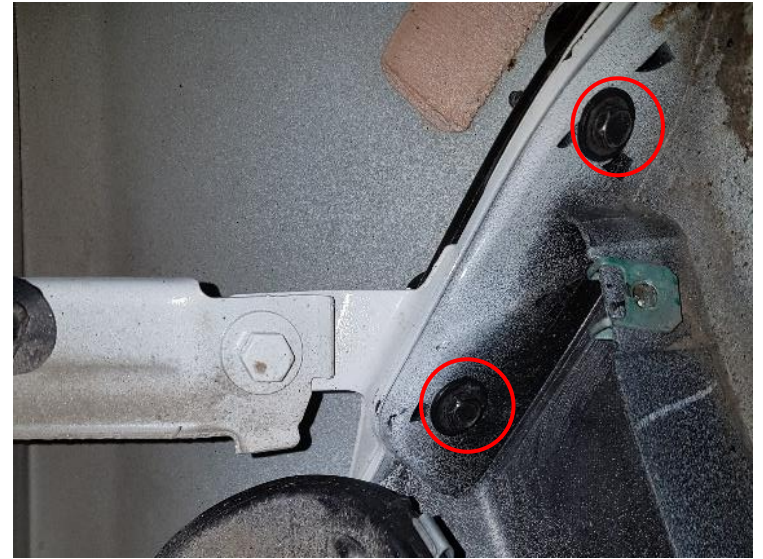
2.

Disconnect a cable connector and a plastic hose for the wiper fluid.
Disconnect the plastic hose from its clip.



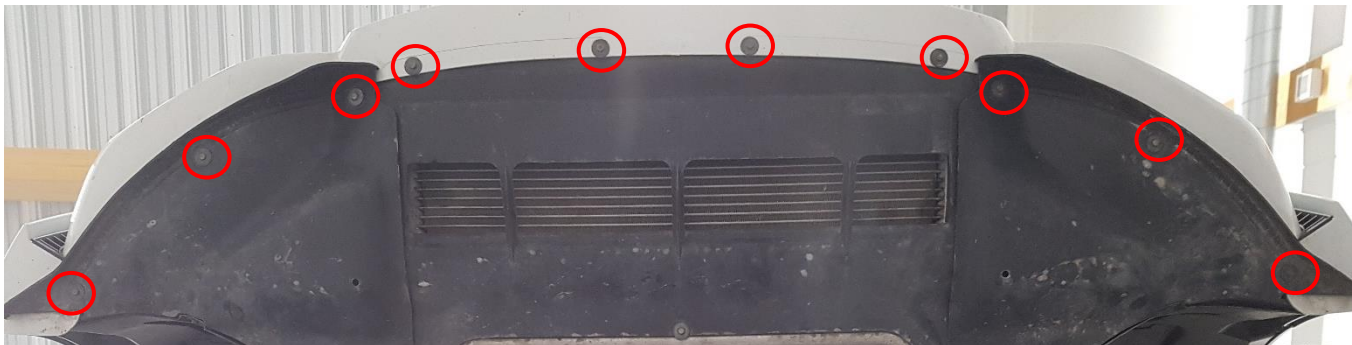
3.

Remove 2x hex 8mm that holds the bumper cover and the front fender together.
Do this on both sides of the car.



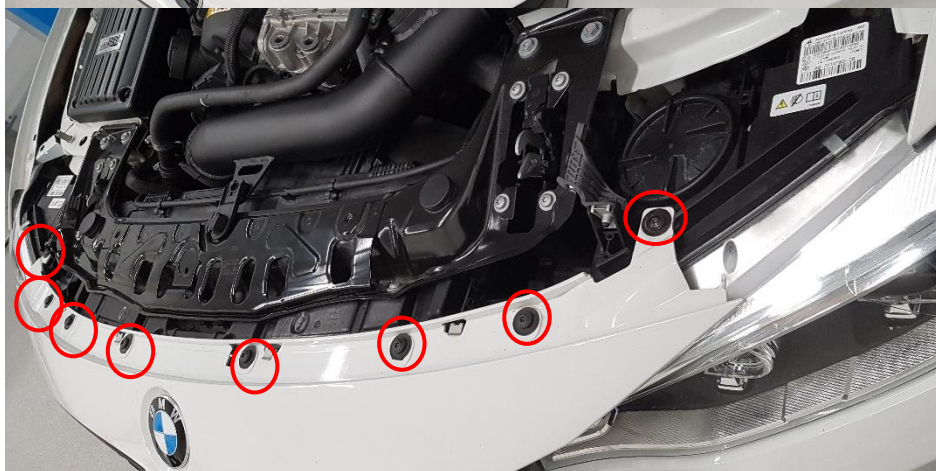
4.

Remove 10x hex 8mm underneath the front spoiler.



5.

Gently pull the front rubber sealing from bumper. Remove 2x Torx T25 and 6x Torx T30. the bumper is now loose, carefully remove the bumper with the help of an assistant.



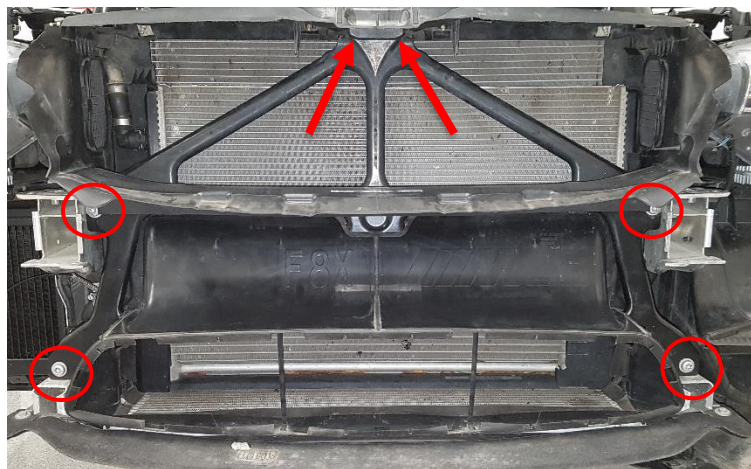
6.

Remove 4x hex 13mm on both side of the aluminum crash bar and remove it from the car.



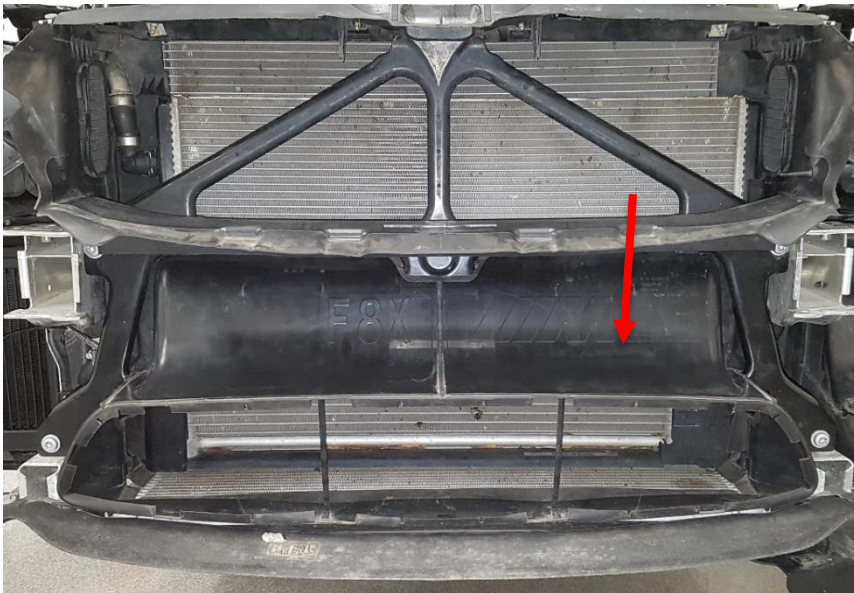
7.

Loosen 4x Torx T45 that holds the crossmember and 2x T40 on top of it.



8.

Remove the lower plastic air guide using a small flathead screwdriver and gently push the tabs in, lift the plastic air guide out of the car.
Remove the crossmember out of the car.
(use a piece of cardboard to keep in between crossmember and radiator to keep from damaging anything)



9.

Remove 4x Torx T30 to release the upper plastic air guide.



10.

Where left and right air guides secure to the frame rails you need to remove these plastic clips, carefully push the air guide inwards while grabbing the clip and pry it out from its slot.
The plastic tab is fragile so be careful.
Do this on both sides of car.



11.

Grab and pull the rubber tab to remove the plastic air intake grate.
Do this on both sides.



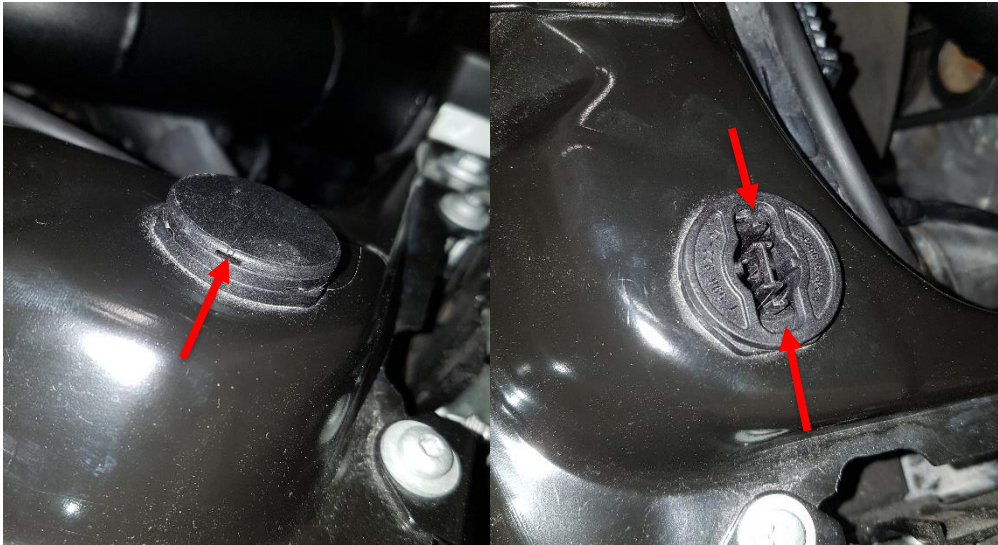
12.

Lift the air guide tab up and out from the aluminum bracket. Do this on both sides.
Remove air guides from vehicle.



13.

Use a small flathead screwdriver and remove the plastic cover and use your fingers or a plier to push the two tabs together and use another plier to lift the plastic tab upwards, do this on both sides of car. Now you can carefully move the radiator assembly towards the engine to make more space to remove the upper air guide.



14.

Disconnect the cable to temperature sensor located on the left side of the upper air guide.



15.

Use two hose pincher pliers to keep most of the coolant from draining out. Use a small flat head screwdriver and release the clips on the connectors, remove connectors from radiator and plug the connections on the radiator with the included 21mm silicone caps.

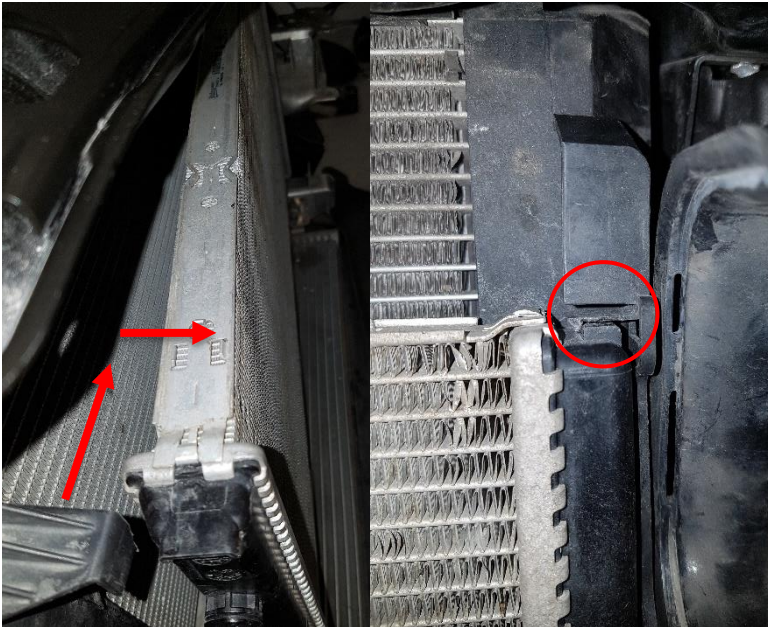


16.

To remove the radiator, you'll have to push the radiator from the right side to the left side, carefully pry the plastic tab on the down right corner the opposite direction.

Gently move it towards yourself, on the left side there is a plastic tab that needs to be opened by using a small flat head screwdriver. Remove the radiator out of the car.

Empty the radiator from coolant in a clean bucket if you want to re-use the coolant.



17.

Pre-Fill the do88 radiator with coolant and use the 2 silicone caps to block of the connections.

18.

Install the do88 radiator by first focusing on the down left corner and getting that in place. Then fold the radiator in while carefully separating the plastic sides to make as much room as possible. The plastic tab on the top left corner should be clipped over the tab on the radiator.

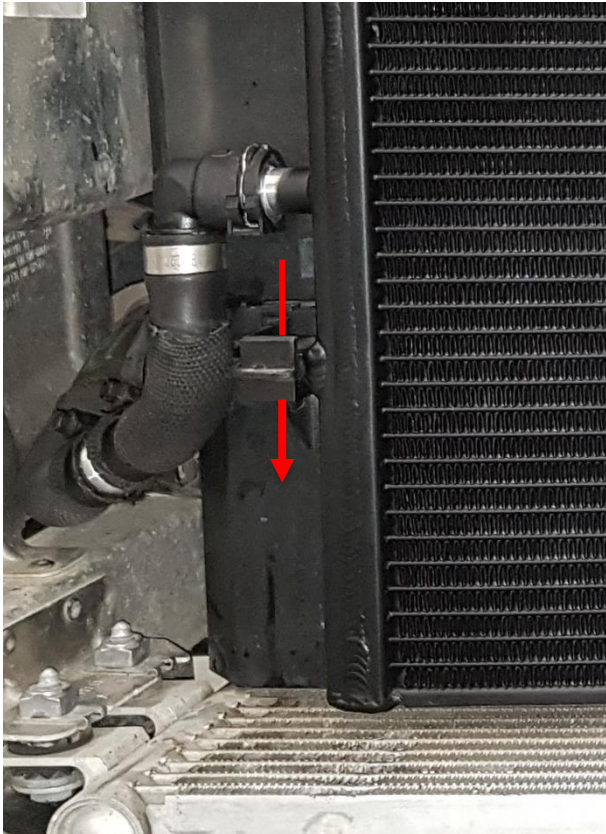
IF you have problems with getting the plastic sides back together, please make sure that the AC condenser isn't stuck or incorrect location When the radiator is installed and plastic is in place.

Re-install the 2 plastic locking's on top of radiator support to secure the cooling package. Remove the 2 silicone caps and install the connectors for the coolant hoses.



19.

Drill a 5mm hole in the plastic tab that holds the radiator thru the do88 radiator bracket. Use the included Zip tie and secure the radiator.



20.

Re-install all other parts in reverse order.

IMPORTANT!

Pre-fill the do88 intercooler with coolant, seal with caps. Top off the coolant reservoir after connecting all three hoses to intercooler. Bleed cooling system according to this instruction:

- Switch ignition on without starting engine.
- 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 due to reduced or no circulation in the intercooler cooling system.