

# Installation instruction do88 performance Intercooler for Volvo S60 V60 XC60 MY09-17

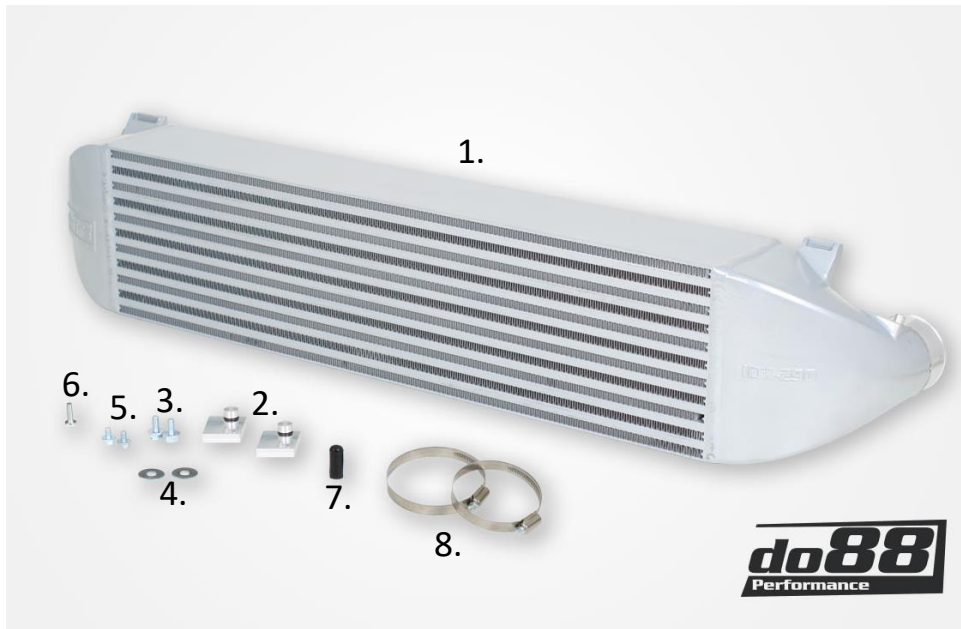
Part number: ICM-290

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

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

## Parts included:

1. 1pc do88 Performance Intercooler
2. 2pcs Sensor covers with o-rings
3. 2pcs M6x12mm flange screws
4. 2pcs M6 washers
5. 2pcs M5x8mm screws
6. 1pc Torx T25x16mm screw
7. 1pc 4mm Silicone cap
8. 2pcs 60-80mm hose clamps (included if you need to replace the ones that secures hoses to intercooler)



This installation instruction are written according to our installation of this intercooler performed on a Volvo XC60 D4 AWD MY-16. Other vehicles that this intercooler also fit to might have some differences in the way of installation.



1. Loosen the 9 plastic rivets on top of the bumper by pressing the middle part down and then pull rivet up by its collar.



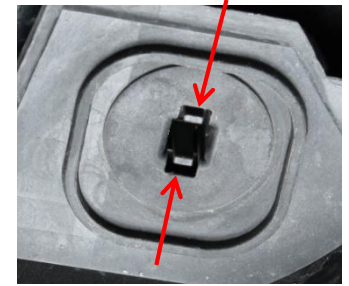
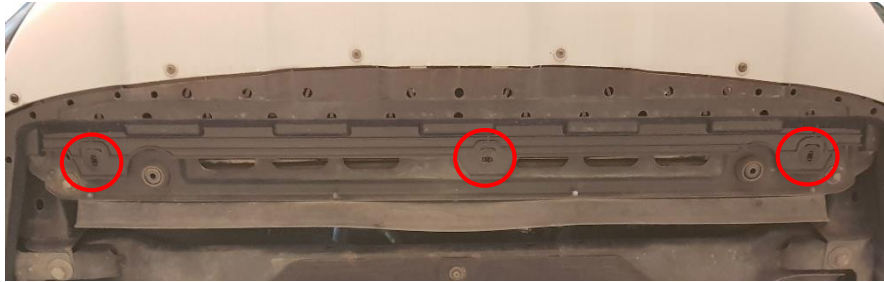
2. In the wheel arch on both sides, remove 6pcs Torx T25.



3. Remove the head lights. On both sides pull the two large plastic locking pins straight up.  
  
Gently pull the head light forward until you can reach and disconnect the cable connector.



4. In the bottom of the bumper remove 3pcs plastic rivets. Press both the plastic tabs towards the middle and then gently pull it out in its collar.



5. For cars with headlight washers only:  
Inside the left wheel arch behind the inner fender you need to disconnect the hose for the head light washers.

Carefully remove the quick connection by sliding the sleeve toward the pump and then remove, immediately seal the connection on the pump with the included silicone cap to prevent leakage.



6. On both sides behind the inner fenders pry the bumper plastic over the plastic clip by pulling this corner rearwards.

7. This step should be performed with the help of an assistant.

On both sides, pull the bumper cover out from the fender to loosen the plastic clips that holds it in place.

Remove the bumper cover from vehicle by gently pulling it straight forward from car until it comes loose from clips.

Once the bumper is about 15cm out from the car, disconnect the large cable connector located in the lower right corner of the bumper.

Now remove the bumper from the car.



8. Remove the 2 air guides (1.) by pressing the locking tab in the top of them, fold down and remove.

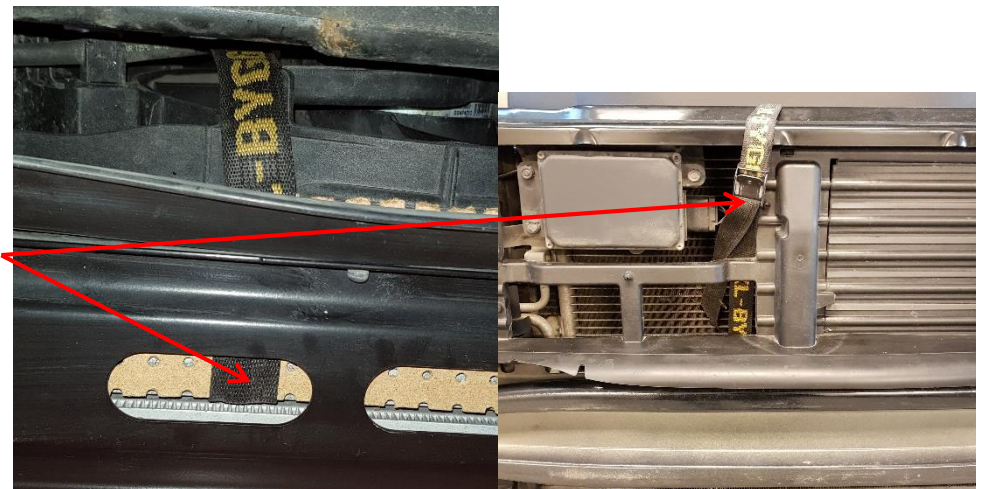
Remove the intercooler protection beam by removing the 2 pcs 15mm hex screws (2.) and lift it off the hooks.



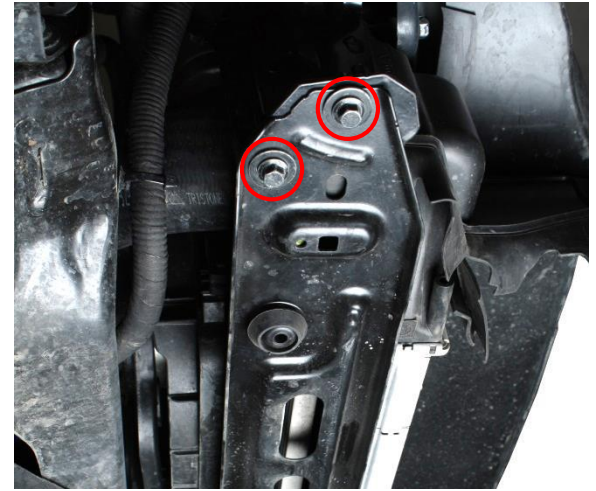
9. To be able to remove intercooler the lower radiator support member must be removed. While this is removed the radiator and AC-condenser needs to be supported.

Use one or two long straps to support the radiator and AC-condenser.

Pull the strap in the gap between the AC-condenser and intercooler, then in gap between the bottom of the radiator and the radiator support member. Before tightening the strap protect the bottom of the radiator and AC condenser with a plate to prevent damage from the strap.

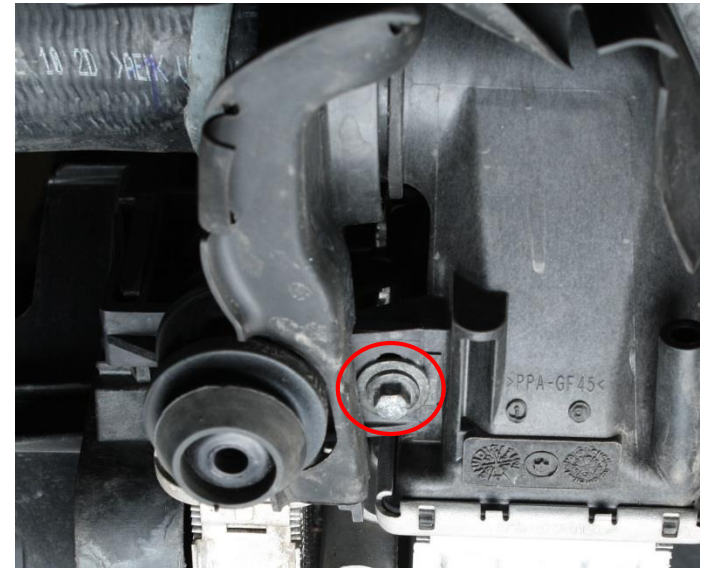


**10.** On both sides of the radiator support member remove 2x Hex 10mm. Remove it from the vehicle.



**11.** Loosen the hose clamps on both the intercooler inlet and outlet. Pull the hoses off the connections.

**12.** Remove the 2pcs Hex 8mm on the intercooler bottom brackets. (The photo only shows the right side screw).



**13.** Now gently remove the intercooler from vehicle downwards. Remember to disconnect the sensor cable from the intercooler outlet once you have clearance to reach it.

14.

Remove the sensor from the OEM intercooler 1pc Torx T25.

Install the sensor in the flange on the same side it was located on your OEM intercooler. Fasten the sensor with the included M5X16mm screw with Torx T25 head.

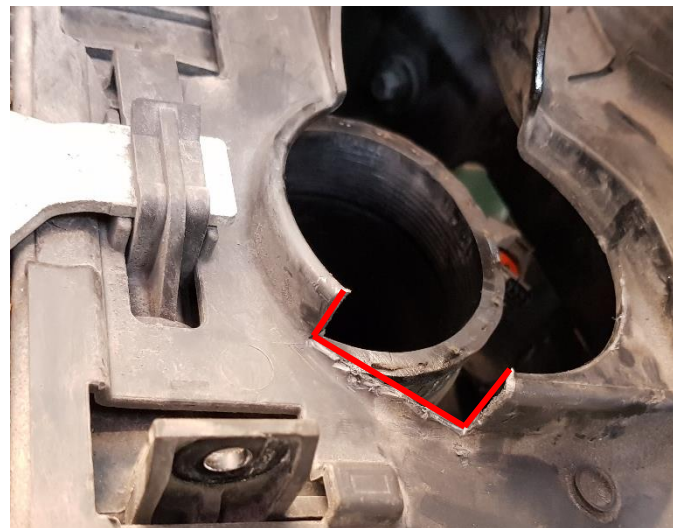
Install the included sensor cover plate with o-ring installed in groove in the sensor flange on the other side of the intercooler. Fasten it with the included M5x8mm screw and washer.

For some vehicles there are no sensor located on the intercooler at all, in these cases install one sensor cover in each sensor flange.

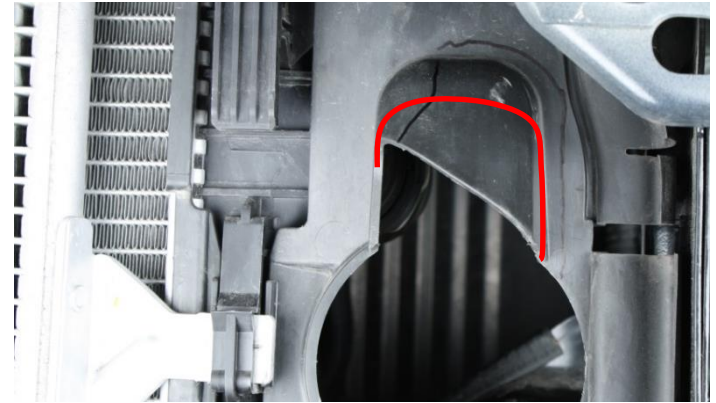


15.

Cut out the plastic edge in the inner lower corner of the air guides according to the red line on the picture. Do this on both sides.



16. The plastic above the intercooler connection with the sensor installed to it might need to be trimmed slightly to make space for the sensor and cable. If necessary, carefully cut the plastic air guide according to picture using a metal shears.



17. Support the radiator and AC-condenser with something stable from the underside. And then remove the strap you installed in step 10. (The strap can't be kept since it will interfere with the do88 intercooler).

Now remove the strap.



18. This step should be performed with the help of an assistant.

Now lift the do88 performance intercooler into place, it is a tight fit. So please take your time to carefully adjust into the right place. Make sure the 2 bottom brackets align with the brackets on the radiator.

Install the 2pcs included M6x16 flange screws and washers into the 2 bottom intercooler brackets.

19. Install all other parts in reverse order.