

# Installation instruction do88 performance Radiator for Volvo S60/V60/V70/XC70/S80 MY07-16

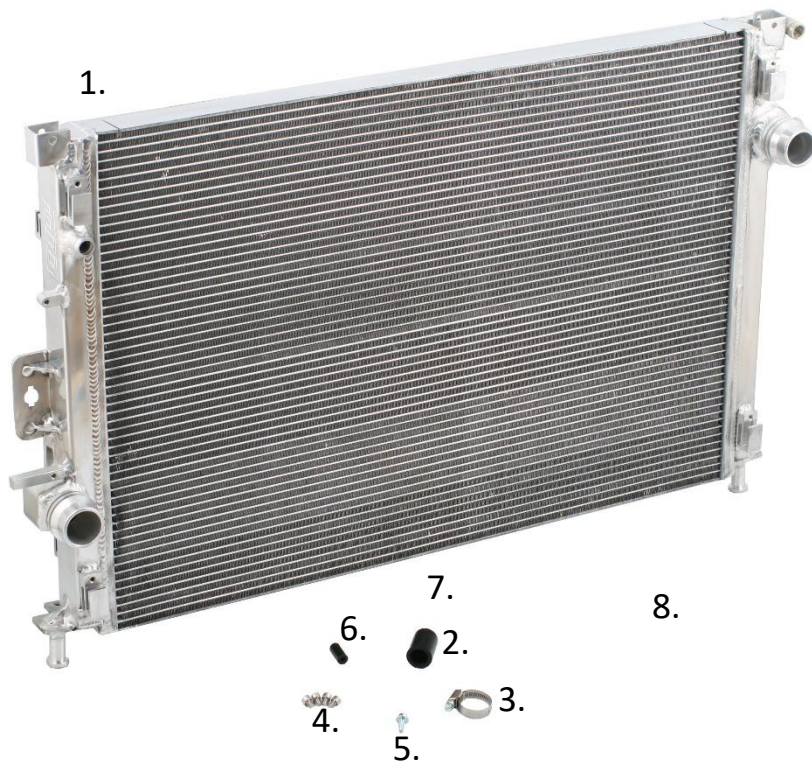
Part number: WC-340

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.

Parts included:

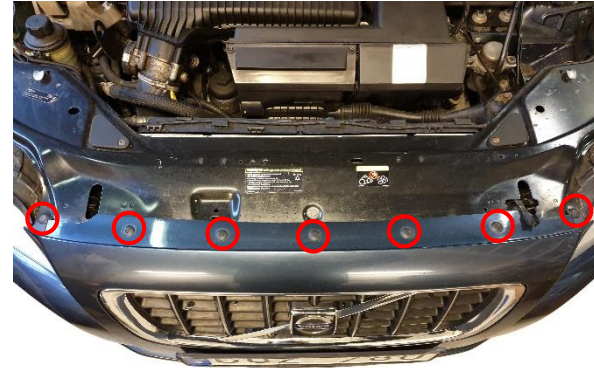
1. 1pc do88 Performance Radiator
2. 1pc 16mm silicone cap
3. 1pc hose clamp 16-27mm
4. 4pcs M5x6mm hex head screws
5. 1pc M5x12 flange screw
6. 1pc 4mm Silicone cap



This installation instruction are written according to our installation of this intercooler performed on a Volvo V70 2,5t. Other vehicles that this intercooler also fit to might have some differences in the way of installation.



1. Loosen the 7 pcs 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 4pcs Torx T25.  
In left wheel arch, remove 2 pcs 10mm hex plastic nuts.



3. 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 and the connector on top of the pump.

Carefully remove the quick connector for the hose and seal the connection on the pump with the included silicone cap to prevent leakage.



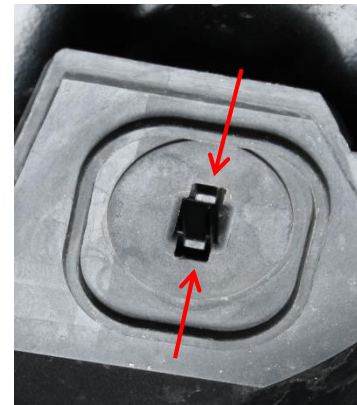


4. Remove the head lights. On both sides pull the two large metal locking pins straight up.
- Gently pull the head light forward until you can reach and disconnect the cable connector.

5. On both sides remove 1 pc Torx T25 in the front lower end in each wheel arch.



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





**7.** Disconnect the large cable connector located in the bottom of the bumper in front of the right inner fender.

Disconnect cable connectors from both fog lights.



**8.** 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.

Now remove the bumper from the car.



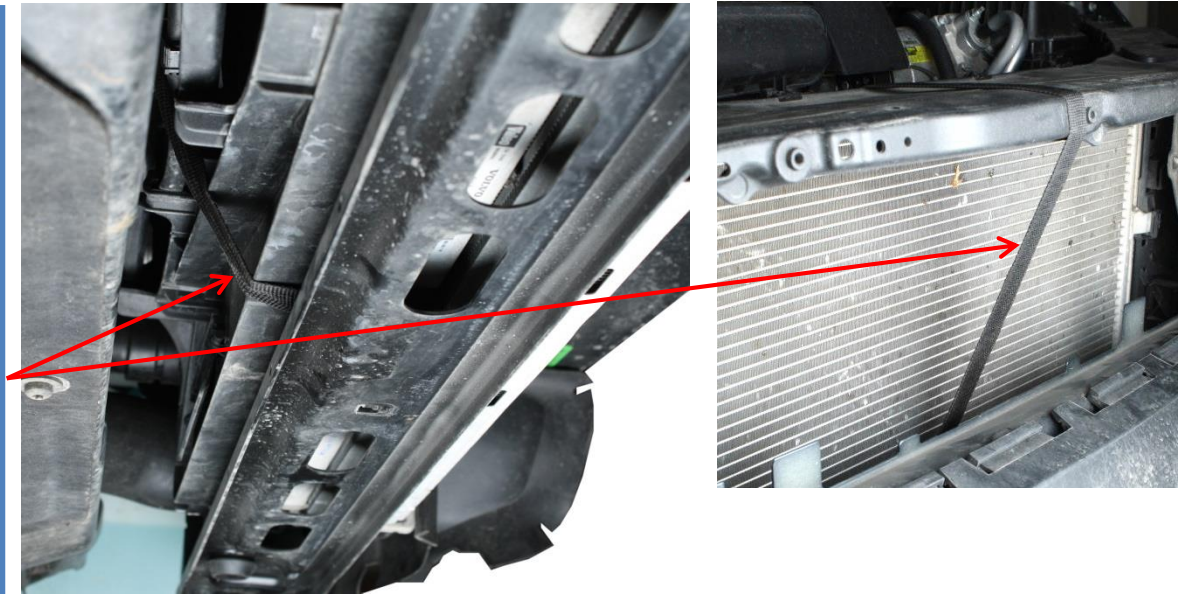
**9.** Drain the cooling system by opening the drain plug in lower left corner of radiator or by removing the lower radiator hose.

10.

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 make sure it does not damage anything.

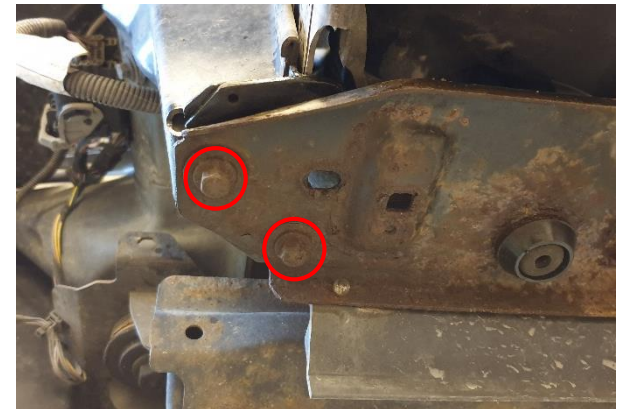


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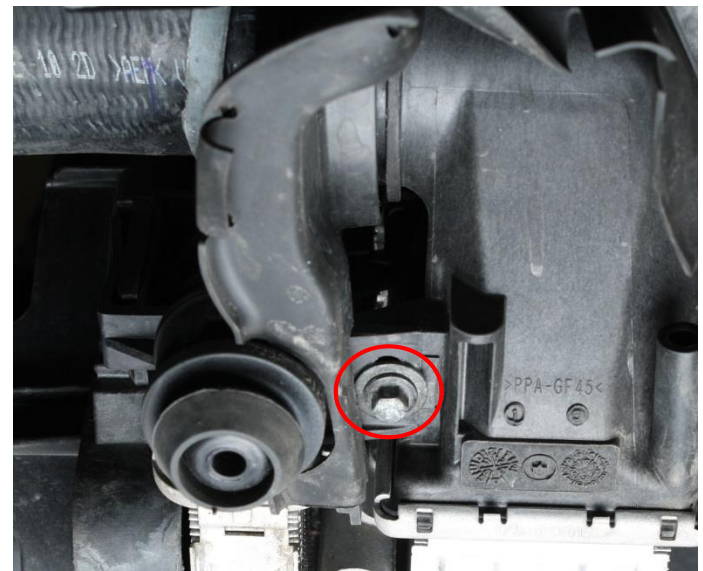
On both sides of the radiator support member remove 2x Hex 10mm. Remove it from the vehicle.

12.

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



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



**14.** 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.

**15.**

- Remove lower radiator hose (1.) by prying out the metal clip on its left side and then pull/jiggle it off the connection.
- Remove the electric fan connector (2.)
- On auto gearbox models, remove hose (3.) from radiator and loosen Torx T30 screw (4.) then remove heat exchanger (5.) from radiator by tilting it a bit backwards and lift.

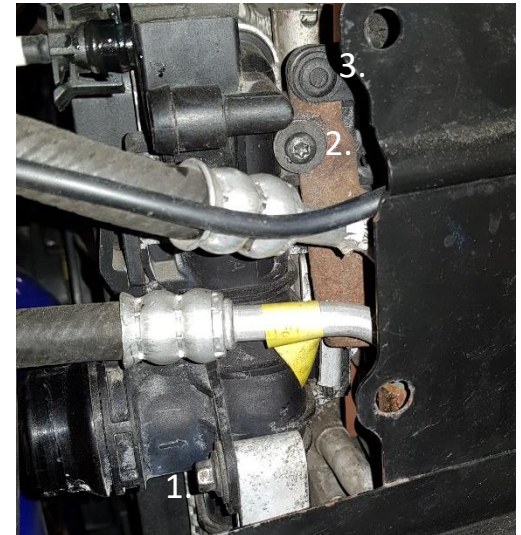




- 16.** Remove upper radiator hose (1.) by removing its metal clips and pull/jiggle it out.  
Remove radiator bleed hose/pipe (2.) by pushing its clips and pull it out.



- 17.** Remove the 8mm hex screw (1.), the Torx T25 screw (2.).  
Remove the plastic rivet (3.) by pressing the middle part down and then pull rivet up by its collar



- 18.** Remove the 2 upper radiator holding plates by removing its screws then slide it a bit to the side and lift upwards.



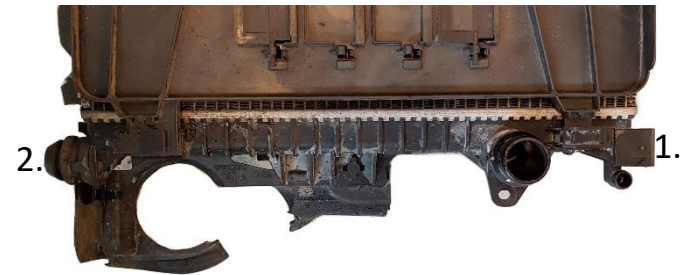
19. Remove AC condenser by pushing the lock tabs (1.) on the radiator and lift the AC condenser up from its brackets.



20. With help of an assistant:  
Hold the radiator with fan and AC condenser then relocate the previously installed strap so that it holds only the AC condenser.

21. Remove the top right air guide (that covers the top half of the right radiator tank) from the radiator by lowering radiator about 5cm (2 inch) then lift the air guide from the hook it sits in.

22. Remove upper (1.) and lower (2.) rubber bushings from both sides of original radiator and install them in do88 radiator.



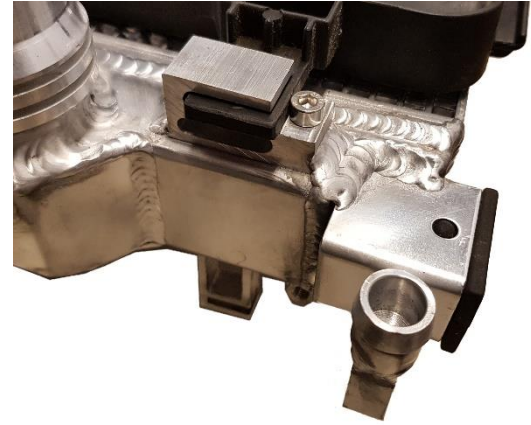
23. Remove air guide fasteners (1.) and air guides (2.) on both sides by twisting the air guide fastener  $\frac{1}{4}$  revolution then lift it up and remove it and air guide.  
Install these parts the same way on the do88 radiator.





24.

Remove electric fan with cover from original radiator by pushing down the lock tabs on the radiator and slide it out of the brackets. Install fan cover on do88 radiator and secure it with 2pcs included M5x6 (4mm hex) screws above the plastic tabs of the fan cover.



25.

If installed on a manual gearbox car (without oil heat exchanger fastened to left radiator tank) block off the small 16mm connection using the included 16mm silicone cap and 16-27mm hose clamp.

26.

Cover the core of the do88 radiator by securing a cardboard sheet with tape to protect from damages during install.

27.

With help of an assistant:  
Remove the strap that holds the AC condenser and lift up the radiator in place to a position about 5cm (2 inch) lower than it should be. Fasten the AC condenser to the radiator and secure it with 2pcs included M5x6 (4mm hex) screws above the tabs of the AC condenser.



**28.**

Install the upper right air guide removed in step 21 by just placing it on the lower bracket. This radiator does not have any upper bracket for it, but it will be secured by the plastic rivet.

**29.**

Slide the power steering cooling circuit into the radiator bracket for it on the left side of radiator and then secure its bracket on the right side of the radiator with 1pc included M5x12 flange screw using an 8mm socket. Secure the upper right air guide to the recently installed bracket using it's plastic rivet.

**30.**

Install remaining parts in reverse order with this exception:

-On auto gearbox models:

Secure the heat exchange to the left radiator tank using 1pcs included M5x12mm flange screw for the lower bracket.