

Installation instruction do88 Performance Radiator for SAAB 9-3 SS/SC 4-cyl Turbo

Part Number: WC-230



1.



2.

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

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

VERY IMPORTANT, Follow this instruction carefully otherwise you may void warranty!

Parts included:

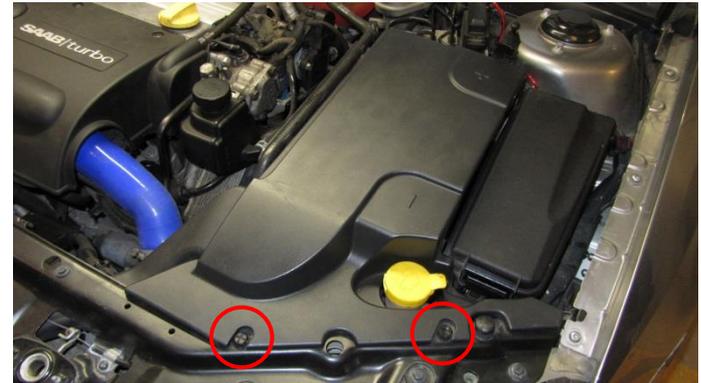
1. Performance radiator 1pcs
2. M5x12 Hex screws 4pcs
3. M5x20 Hex screws 2pcs (Not on photo)
4. M5x40 Pin screws 2pcs (Not on photo)
5. M5 Nylon lock nuts 2pcs (Not on photo)
6. M5 Washers 2pcs (Not on photo)
7. Rubber washers 2pcs (Not on photo)
8. M5 Nylon washers 2pcs (Not on photo)



1. Remove battery cover by loosen the two plastic screws in the front end, remove coolant hose from the groove and lift the cover away.

Remove the air guide positioned between radiator support and battery box by lifting it up from battery box and then pull out to the rear.

Remove the negative terminal from the battery post and make sure it will not be in contact with the battery terminal.



2. Remove the 4pcs 8mm hex head screws in each front inner fender.



- 3.** Remove 6pcs plastic rivets in the top of the bumper above the upper grille by pushing the center piece of them downwards a few millimeters (about 1/8") and then pull it up in the collar.

Cars with facelift 08-> have 4 pcs of plastic rivets and 2pcs of Torx T30 screws instead.



- 4.** Remove the 4pcs of 8mm hex head screws marked on picture.

Bend down the outer left "corner" (2.) of the front protecting plate and disconnect the electric connector attached to it and make sure vehicle chassis harness are not attached to the protecting plate.

On vehicles with high pressure cleaning of headlight: Disconnect the hose to the headlight nozzles from the splitter positioned near the washer fluid tank above the left corner.
NOTE! Washer fluid might pour out.



- 5.** Pull the rear end of bumper out from the car until it comes loose on both sides of vehicle.



6. Remove the headlights by removing 3pcs of 10mm (on facelift 2pcs 10mm & 1pc 8mm) hex screws on each headlight and then pull/lift forward so you can disconnect the electrical connector from the headlight and then remove headlight from vehicle.



7. Remove the air inlet duct by screw up the 2 washers, twist the pipe on its lower connection so it lifts from the attachment point then twist at the same time as you pull forward until it comes loose from the air box.



8. Disconnect the horn connector and cable clips. Also remove the 2x 10mm hex nuts holding the radiator support brackets.



9. Remove the radiator support by removing 8pcs of 10mm (on facelift 6pcs) hex head screws.

Protect the battery terminals so they will not be shorted and then lift up and position the radiator support with cross member above the engine compartment so its not on top of the radiator.



10. Remove the air guides positioned at each intercooler connection 2x Hex 10mm nuts.



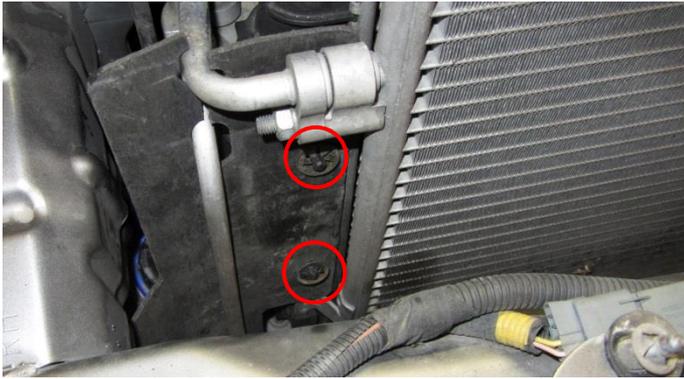
11. Remove the air guide from the top of the intercooler by pulling it upwards.

Remove the 2pcs Torx T25 screws that attach the AC condenser to the intercooler.



- 11.** Remove the air guides on both sides of the intercooler by gently pry out the tabs in the washer and then remove from intercooler pin. Remove air guides from intercooler.

Then straighten out the tabs in the washers so you can reuse them when installing air guides on the new intercooler.



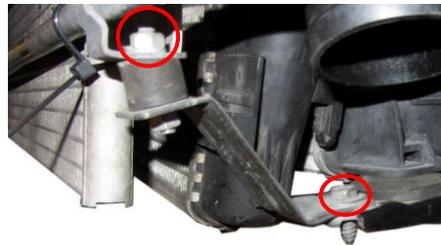
- 12.** Remove the 10mm hex head screw that attaches power steering pipe clip to bracket.



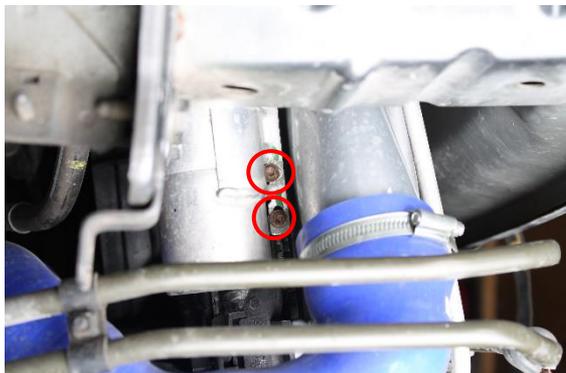
- 13.** Remove the power steering pipe bracket by removing the 10mm hex head screw, turn it upwards and pull loose.



- 14.** Loosen the 10mm hex nut just a bit, then remove the 10mm hex head screw from the bracket and then turn the bracket out from the car. Support the power steering pipe by hand and temporarily attach it to the bumper beam with zip tie or similar.



15. Remove 2x T25 Torx screws holding the air conditioning filter to the radiator.



17. Loosen both hoses from intercooler by loosen hose clamps (with a 7mm hose clamp screwdriver or 7mm hex socket) and pull them off the intercooler connections.



16. Lift the AC condenser upwards from its slots in the intercooler and tie it toward bumper beam as much forward as possible.



18. Remove the 2pcs Torx T25 screws that attaches intercooler to radiator (one on each side of intercooler).



- 19.** Remove the intercooler by lifting it up from the radiator slots and then carefully remove the intercooler downwards starting with the left hand side and then the rest of it according to picture.



- 20.** Loosen the hose clamps for the intercooler pipe in both ends. Disconnect the sensor cable. Remove 2x E10* Torx that holds the pipe to the fan shroud. Remove pipe from the car.

** If you don't have a E10 Torx socket, you can use a 8mm Hex socket instead.*



- 21.** Now drain the radiator from all coolant, use the plastic drain screw in the lower right corner. The disconnect all three radiator hoses.

- 22.** If you have automatic transmission on your car you need to disconnect the oil lines to the integrated oil cooler in the radiator.

Gently bend the plastic dust covers backwards from the connections. With a small flat screw driver gently bend the small metal clips free from the connections. Then pull out the oil lines from the connections. Protect the oil line connections from dirt. Put some protection over them.

23. Disconnect the fan cable connector.

Remove 2x T25 Torx screws in top of each corner of the fan shroud.

Now lift the fan shroud straight up out from the car.



24.

With the help of a friend lift the radiator while you remove the two bottom radiator brackets 2x E14 Torx.

When brackets has been removed lower the radiator out from the car.



25. Remove the two top rubber bushings from the OEM radiator and install them on the do88 performance radiator.

Install the fan shroud with two of the included M5x12 screws.

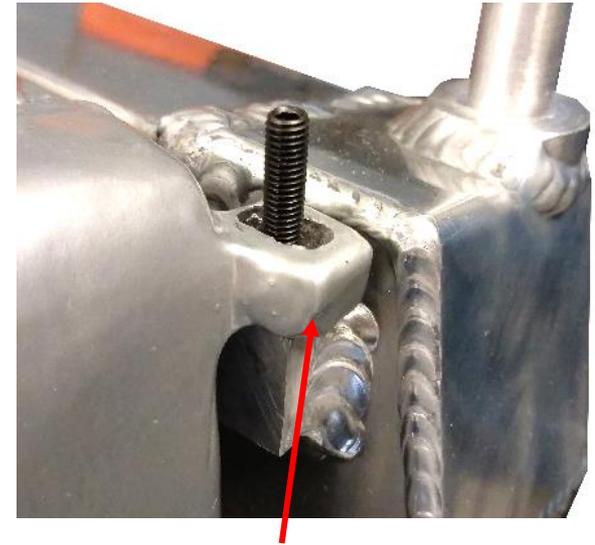


26.

VERY IMPORTANT, Follow these steps carefully otherwise you will void warranty!

When installing the intercooler:

1. Screw both M5x40 pin screws into the radiator all the way down until it stops and then tighten.
2. Install 1pc M5 nylon washer on each pin screw.
3. Lift the intercooler in place on the two pin screws*
4. Install 1pc rubber washer and 1pc flat M5 washer on each pin screw.
5. Install 1pc M5 nylon lock nut on each pin screw. Do only tighten the nut until it touches the metal washer.



Nylon (plastic) washer here.

27.

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Grab the intercooler with both hands and try and move it horizontally. There must be allowance for movement left/right of a few mm.

If you can't move the intercooler sideways try these steps:

1. Untighten the M5 nut in the previous step a bit more.
2. If needed, grind the edges of the holes in the intercooler to make clearance in-between the hole and the screw.
3. If needed, grind this surface on the intercooler more flat/smooth.



28.

Reinstall all other parts in reverse order.

But observe this: The air conditioning filter should be installed with two of the included M5x12 screws.

