

Installation instruction do88 Intercooler for SAAB 9-3 1,9 TTiD

Part Number: ICM-110-TTiD



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

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

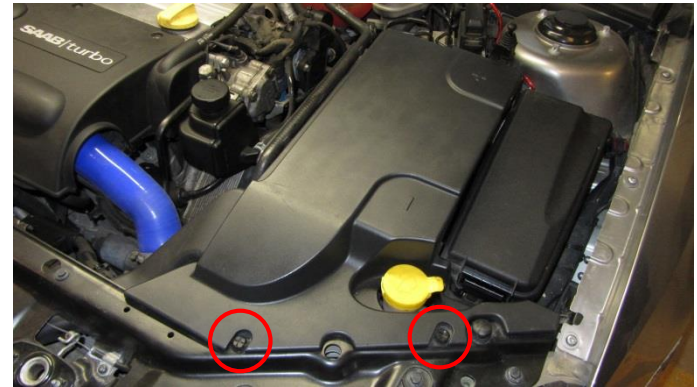
Parts included:

1. Intercooler 1pcs
2. M5x12 6 hex screws 2pcs
3. M5 washer 2pcs
4. M5 flange nut 2pcs
5. Plastic screws 5x25 T25 2pcs

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.

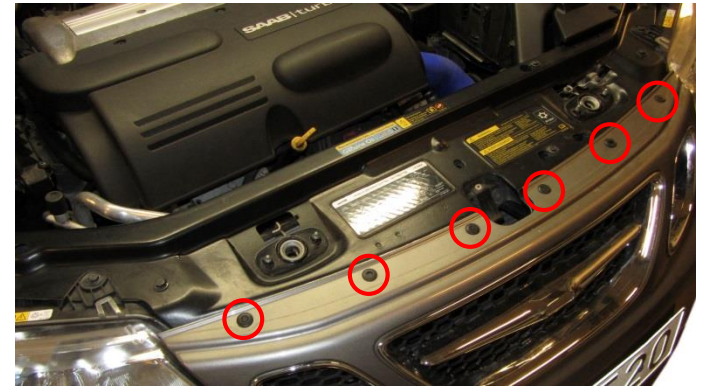


2. Remove the 4pcs 8mm hex head screws in each front inner fender.



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.

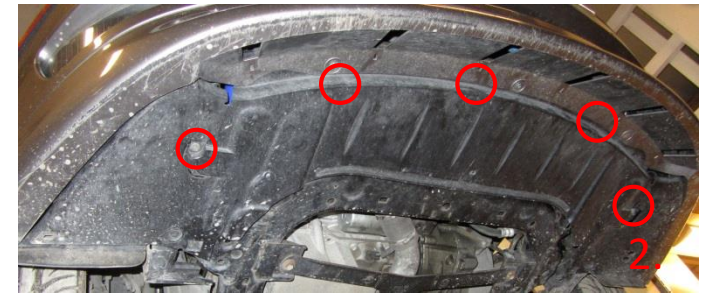
Cars with facelift 08-> have 4 pcs of plastic rivets and 2pcs of Torx T30 screws instead.



4. Remove the 6pcs 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.

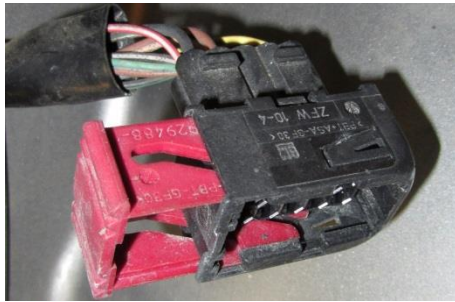
On vehicles with high pressure cleaning of headlight: Disconnect the hose to the headlight nozzles from the pump positioned in the washer fluid tank above the same "corner" (2.).
NOTE! Washer fluid might pour out.



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 7mm) 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.



This type of electrical connector are disconnected by pulling the red part out from it at the same time as the male and female connectors are pullet apart.



7. Disconnect the electrical connector from the horn and remove the cable clips from the front cross member.

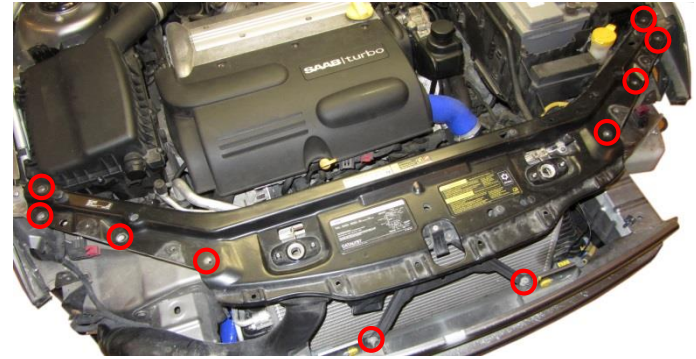


8. Remove the two Torx T25 screws that secures the air inlet pipe to the radiator support.

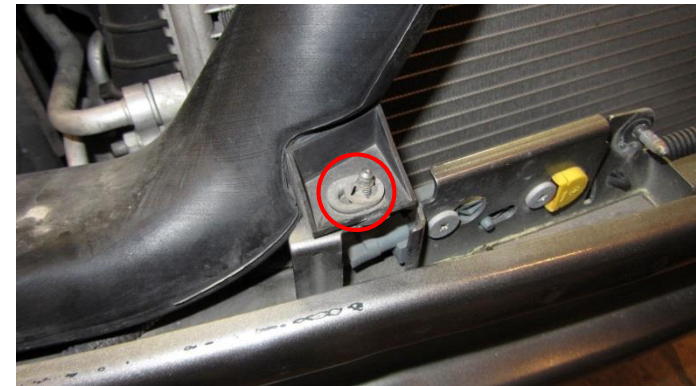


- 9.** Remove the radiator support by removing 8pcs of 10mm (on facelift 6pcs) hex head screws on top of it and 2pcs of 10mm hex head screws in the bottom of the cross member.

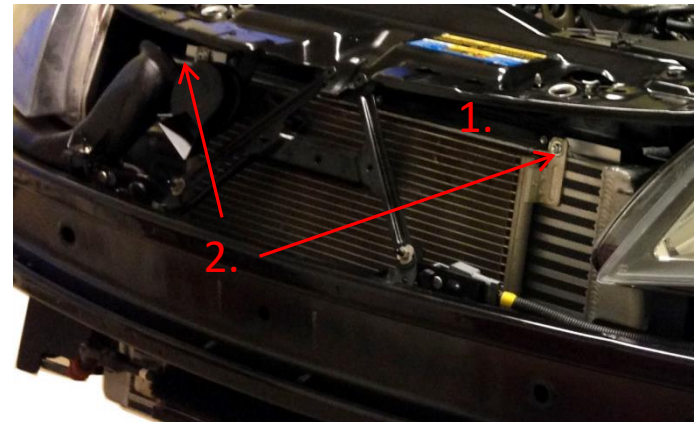
Protect the battery terminals so they will not be shorted and then lift up and position the radiator support with cross member above the engine compartment so it's not on top of the radiators.



- 10.** Remove the air inlet duct by screw up the 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.

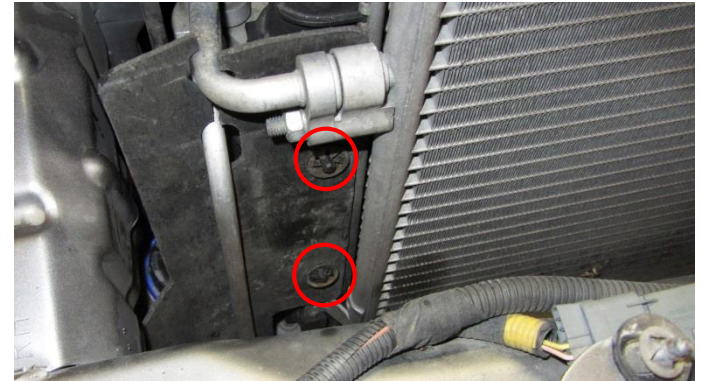


- 11.** Remove the air guide (1.) from the top of the intercooler by pulling it upwards. Remove the 2pcs Torx T25 screws (2.) that attaches the AC condenser to the intercooler.



- 12.** Remove the air guides on both sides of the intercooler by gentle 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.



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



- 14.** 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. The hoses can be in place on car during intercooler replacement unless they should be replaced at the same time.



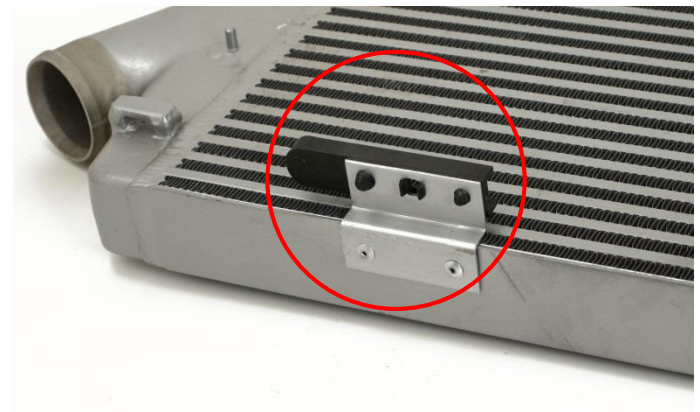
15. Remove the 2pcs Torx T25 screws that attaches intercooler to radiator (one on each side of intercooler).



16. 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.



17. Remove the lower AC condenser plastic brackets from the OEM intercooler and install them in the new intercooler according to picture.



18.

Install the new intercooler the same way the old one was removed. Lift up right side inlet connection over the lower radiator bracket then lift up the left side (Outlet). Lift the intercooler and position the tabs in the radiator slots.



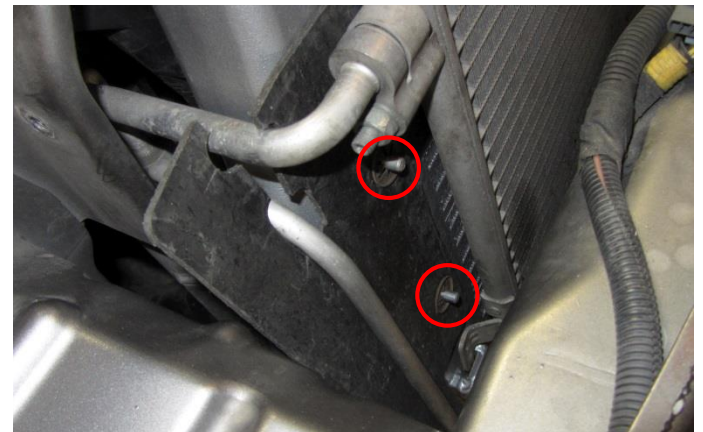
19.

Attach the intercooler to the radiator with the two included 5x25 Torx T25 plastic screws . One on each top end of the intercooler.



20.

Install the OEM air guides on each side of the intercooler using the tab washers removed in step 11. This step are very important to achieve maximum cooling efficiency.



- 21.** Install the AC condenser to the new intercooler by placing it in the plastic brackets installed on intercooler in step 19.



- 22.** Fasten the AC condenser to the intercooler with the included M5x12 hex head screws together with the M5 flat washer and flanged nut according to picture. One on each side of condenser.



- 23.** Install the upper air guide on the front side of the bracket on top of the intercooler using three included 4x16mm self drilling metal screws (not on included parts picture). Position the plastic air guide centered on top of the intercooler.



24. Install both hoses on intercooler inlet and outlet. Secure with OEM hose clamp.



25. Reinstall all other parts in reverse order.

