

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



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:

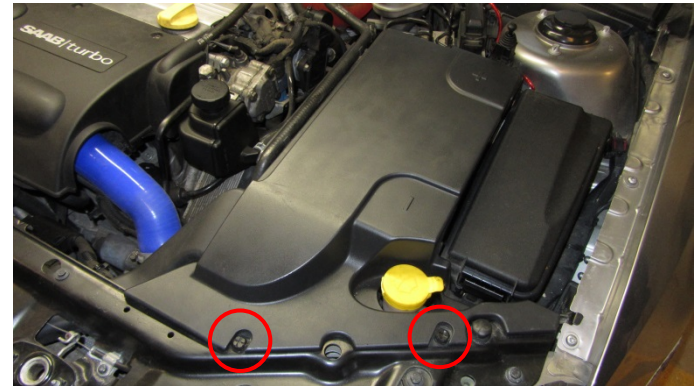
1. Intercooler 1pc
2. Hoseclamps 2pcs
3. Plastic screws 5x25 T25 2pcs
4. M5x16 T25 screws 2pcs
5. Hose inlet 1pc
6. Hose outlet 1pc

Part number: ICM-110-I4

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.

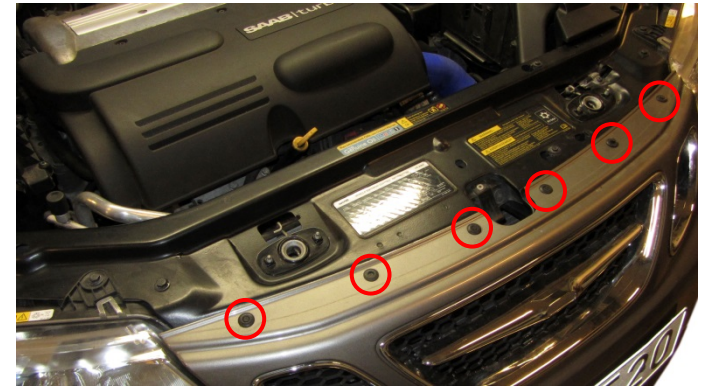


2. Remove the 4pcs 8mm hex head screws in each front inner fender.



- 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.

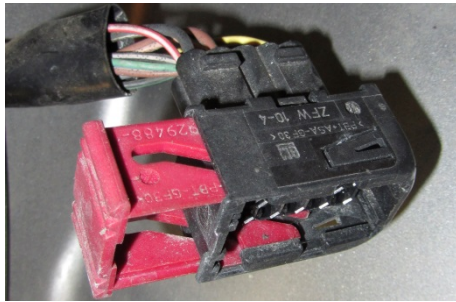
On vehicles with high pressure cleaning of headlight: Disconnect the hose to the headlight nozzles from the pump positioned in the washer fluid tank above the same "corner" (2.).
NOTE! Washer fluid might pour out.



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



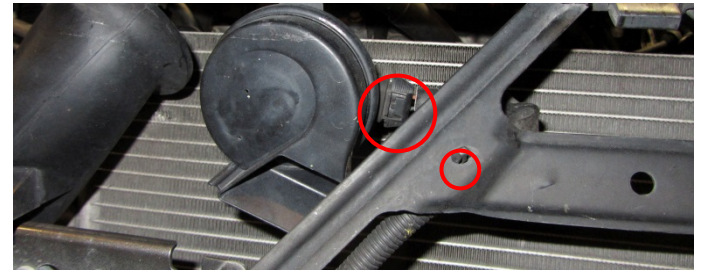
6. Remove the headlights by removing 3pcs of 10mm (on facelift 2pcs 10mm & 1pc 7mm) hex screws on each headlight and then pull/lift forward so you can disconnect the electrical connector from the headlight and then remove headlight from vehicle.



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.

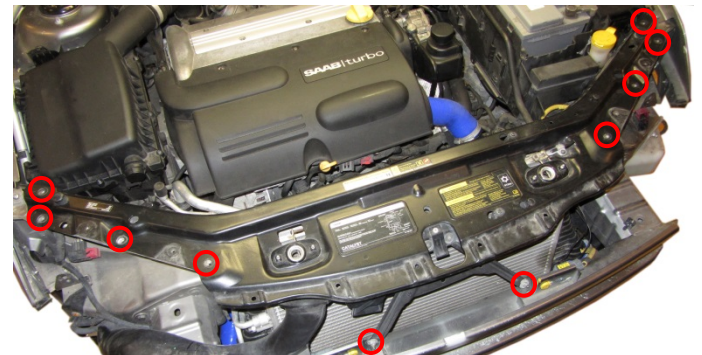


7. Disconnect the electrical connector from the horn and remove the cable clips from the front cross member.



8. Remove the 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.

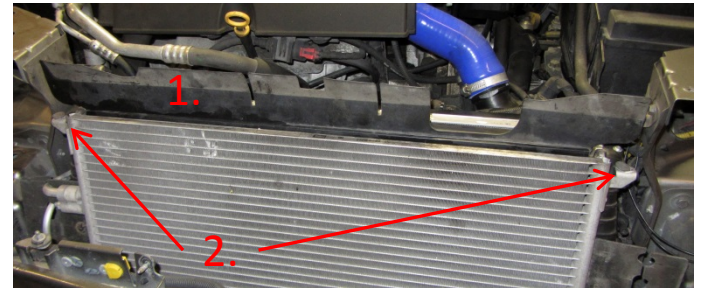
Protect the battery terminals so they will not be shorted and then lift up and position the radiator support with cross member above the engine compartment so its not on top of the radiators.



9. 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.

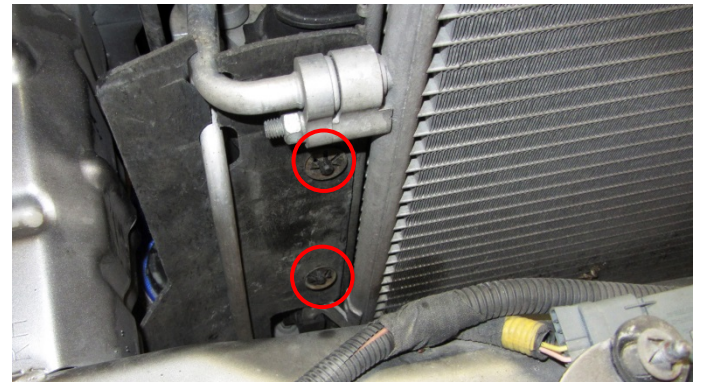


10. Remove the air guide (1.) from the top of the intercooler by pulling it upwards. Remove the 2pcs Torx T25 screws (2.) that attaches the AC condenser to the intercooler.



11. 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.



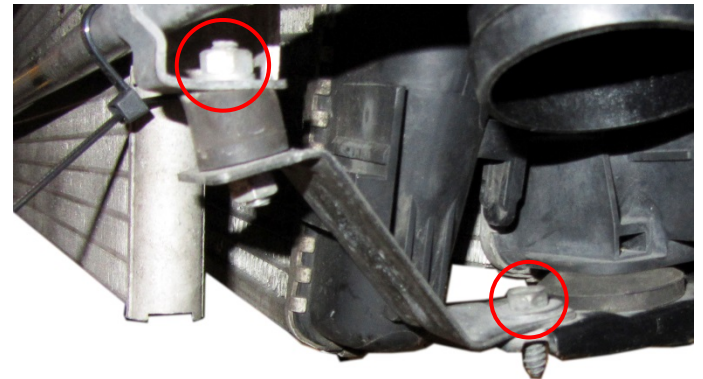
- 12.** Remove the 10mm hex head screw that attaches power steering pipe clip to bracket.



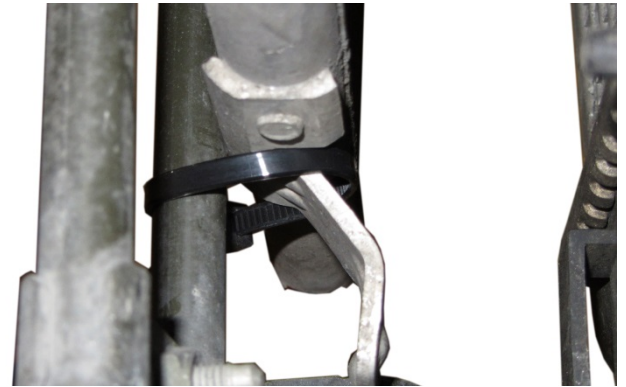
- 13.** Remove the power steering pipe bracket by removing the 10mm hex head screw, turn it upwards and pull loose.



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



16. Remove both intercooler hoses from the vehicle by loosen hose clamps (with a 7mm hose clamp screwdriver or 7mm hex socket) in both ends and completely remove hoses from the vehicle.



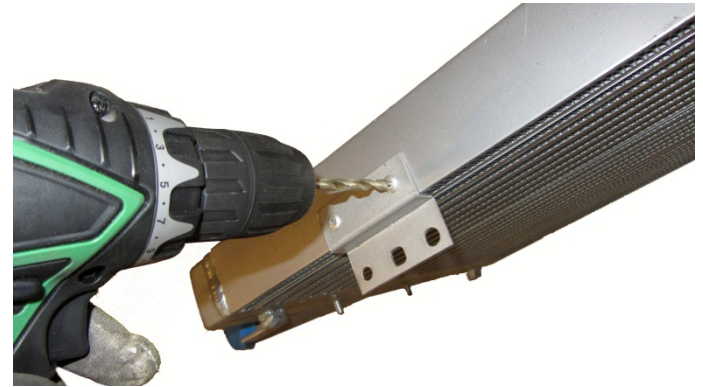
17. Remove the 2pcs Torx T25 screws that attaches intercooler to radiator (one on each side of intercooler).



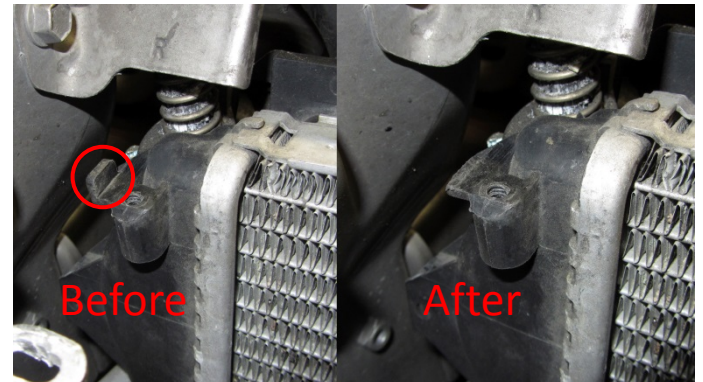
18. Remove the intercooler by lifting it up from the radiator slots and then carefully remove the intercooler downwards starting with the left hand side and then the rest of it according to picture.



19. To install the intercooler on a 4 cylinder model 9-3 the lower brackets need to be removed. Drill the 2 pcs of rivets on each bracket head using a drill and drill only about 3mm (1/8") deep. Take care to not drill too deep. If you drill about 10mm deep you might cause a leak in the core. When the rivet heads are drilled according to this, just bend the brackets loose.



20. Cut/grind the small plastic tab down flat on the radiator according to picture.



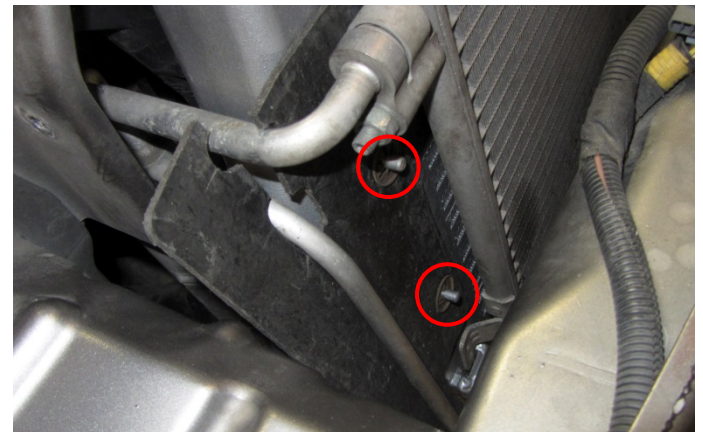
- 21.** Install the new intercooler the same way the old one was removed. Lift up right side inlet connection over the lower radiator bracket then lift up the left side (Outlet). Lift the intercooler and position the tabs in the radiator slots.



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



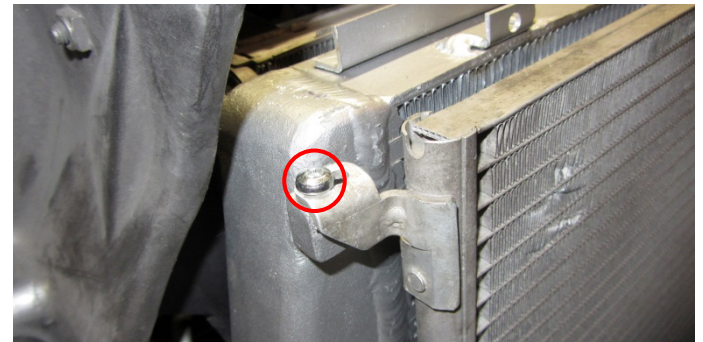
- 23.** Install the OEM air guides on each side of the intercooler using the tab washers removed in step 11. This step are very important to achieve maximum cooling efficiency.



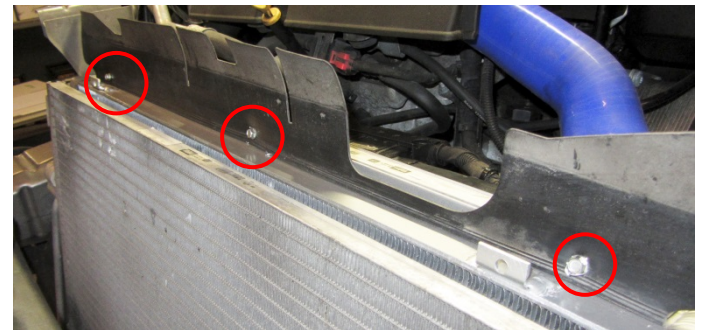
- 24.** Install the AC condenser on the new intercooler by inserting the tabs in the intercooler condenser brackets.



- 25.** Fasten the AC condenser to the intercooler with the two included M5x16 Torx T25 screws. One on each side of condenser.



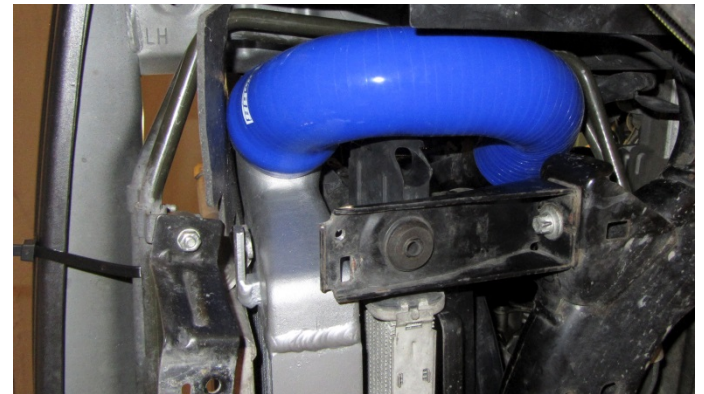
- 26.** Install the upper air guide on the front side of the bracket on top of the intercooler using three included 4x16mm self drilling metal screws (not on included parts picture). Position the plastic air guide centered on top of the intercooler.



- 27.** Install the hose between intercooler pipe and intercooler inlet. Secure with OEM hose clamp on the pipe end of hose and one of the included clamps on intercooler side of hose.



- 28.** Install the hose between intercooler outlet and intercooler pipe. Secure with OEM hose clamp on the pipe end of hose and one of the included clamps on intercooler side of hose.



- 29.** Reinstall all other parts in reverse order.

Installation instruction do88 intercooler pipe for SAAB 9-3 2.0T 2003-

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

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

Parts included:

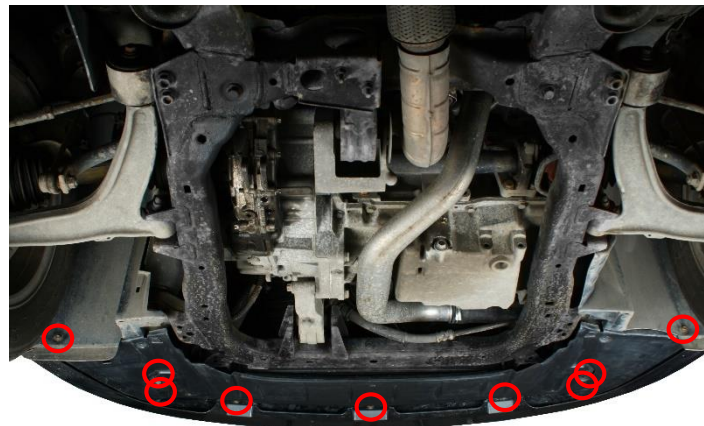
1. Intercooler pipe Turbo – Intercooler
2. Intercooler pipe Intercooler – Throttle body
3. Turbo outlet silicone hose
4. Intercooler Inlet silicone hose
5. Intercooler Outlet silicone hose
6. Throttle body silicone hose
7. Hose clamps 40-60mm 1pc, 60-80mm 6pcs, 70-90mm 1p.
8. M5x16mm Torx T25 screw 2pcs



Part number: TR-120



1. Remove the 9pcs of 8mm hex head screws marked on picture. Then gently fold down the plastic shield in the left corner and disconnect the cable connector. Then remove the plastic shield from the car.



2. Loosen the hose clamps on the intercooler inlet and outlet. Then pull the hoses free from the intercooler connections.

Also loosen the hose clamp on the turbo outlet.



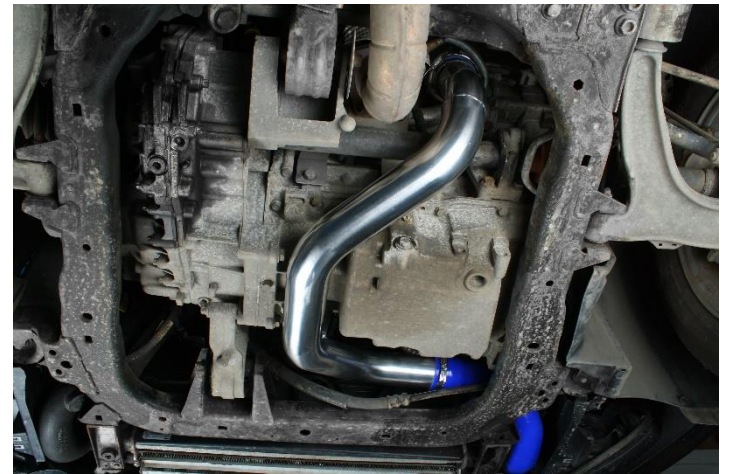
3. Remove 2pcs of 13mm hex head screws. And then remove the pipe with the hoses from the car.



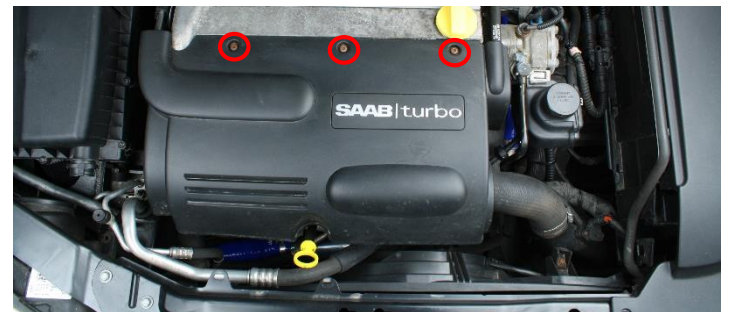
4. Remove and reinstall the heat shield from the OEM pipe on the do88 performance pipe.



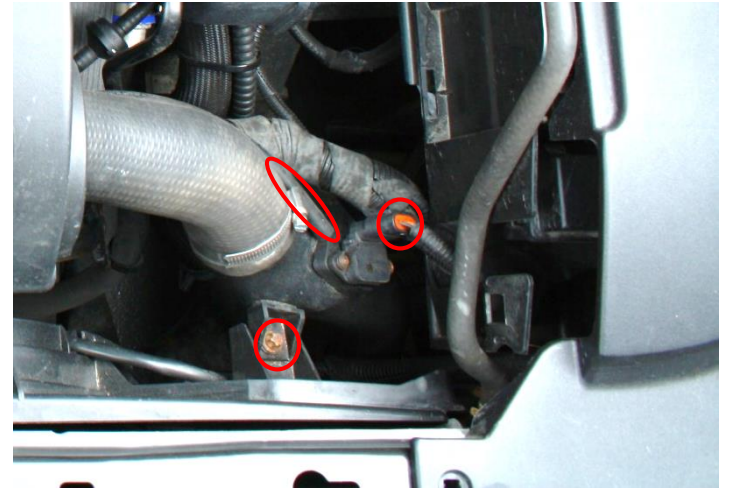
5. Install the do88 performance pipe on the car with the included silicone hoses and clamps.
- Adjust the angle on the brackets and hoses until pipe fits in a good position, then tighten the two 13mm hex screws and the hose clamps.



6. Remove the engine cover plastic, 3pcs Torx T30.



7. Disconnect the sensor connection cable and the vacuum hose. Then remove 2x Torx E10 (8mm hex socket) holding the pressure pipe to the radiator fan shroud.



8. Loosen the hose clamp at the throttle body and then remove the pressure pipe and hoses from the car.

9. Remove the sensor from the OEM pressure pipe, 2pcs Torx T20. Reinstall the sensor in the do88 performance pipe with the two included M5x16 Torx /25 screws.



10.

Install the short included silicone hose elbow on the intercooler outlet.

Now install the do88 performance pipe into this silicone hose.



11.

Install the included throttle body silicone hose and connect it to the do88 performance pipe.

Reconnect the sensor cable and the vacuum hose.

Tighten all hose clamps.



12. Reinstall all other parts in reverse order.

13. Finished.



do88
Performance
Swedish performance since 2007