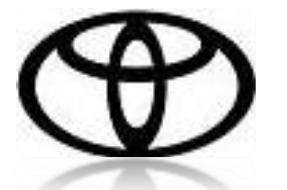




Installation Instruction

Performance oil cooler



Toyota Yaris GR

G16E-GTS turbo I3



Description

This instruction shows how to install the do88 performance oil cooler.

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

Parts list

(Note hardware for installation with OEM intercooler is not included, see step 18)

- 1pc do88 Performance oil cooler
- 2pcs Oil hoses
- 1pc Oil adapter sandwich
- 4pcs Metal sleeves
- 6pcs M6x16 black Allen screw
- 2pcs M6x12 black Allen screw
- 2pcs M6x30 screw
- 2pcs Oil cooler mounting brackets
- 2pcs P-clips
- 4pcs M6 locking nut
- 4pcs Rubber grommets
- 16cm Adhesive sealing strip

Step 1: With do88 performance intercooler

If you are installing this oil cooler together with the do88 intercooler, please follow the intercooler installation instructions found on our website (part number ICM-390).

This instruction will show how to remove the OEM intercooler.

Step 2: With OEM Yaris GR intercooler

If you are installing this oil cooler together with the OEM intercooler, please follow the intercooler installation instructions found on our website (part number ICM-390).

This instruction will show how to remove the OEM intercooler.

When you have installed the do88 oil cooler you will need to follow step 18-19 in this instruction how to modify the installation of the OEM intercooler.



Step 3

Install 4x rubber grommet in both oil cooler brackets.



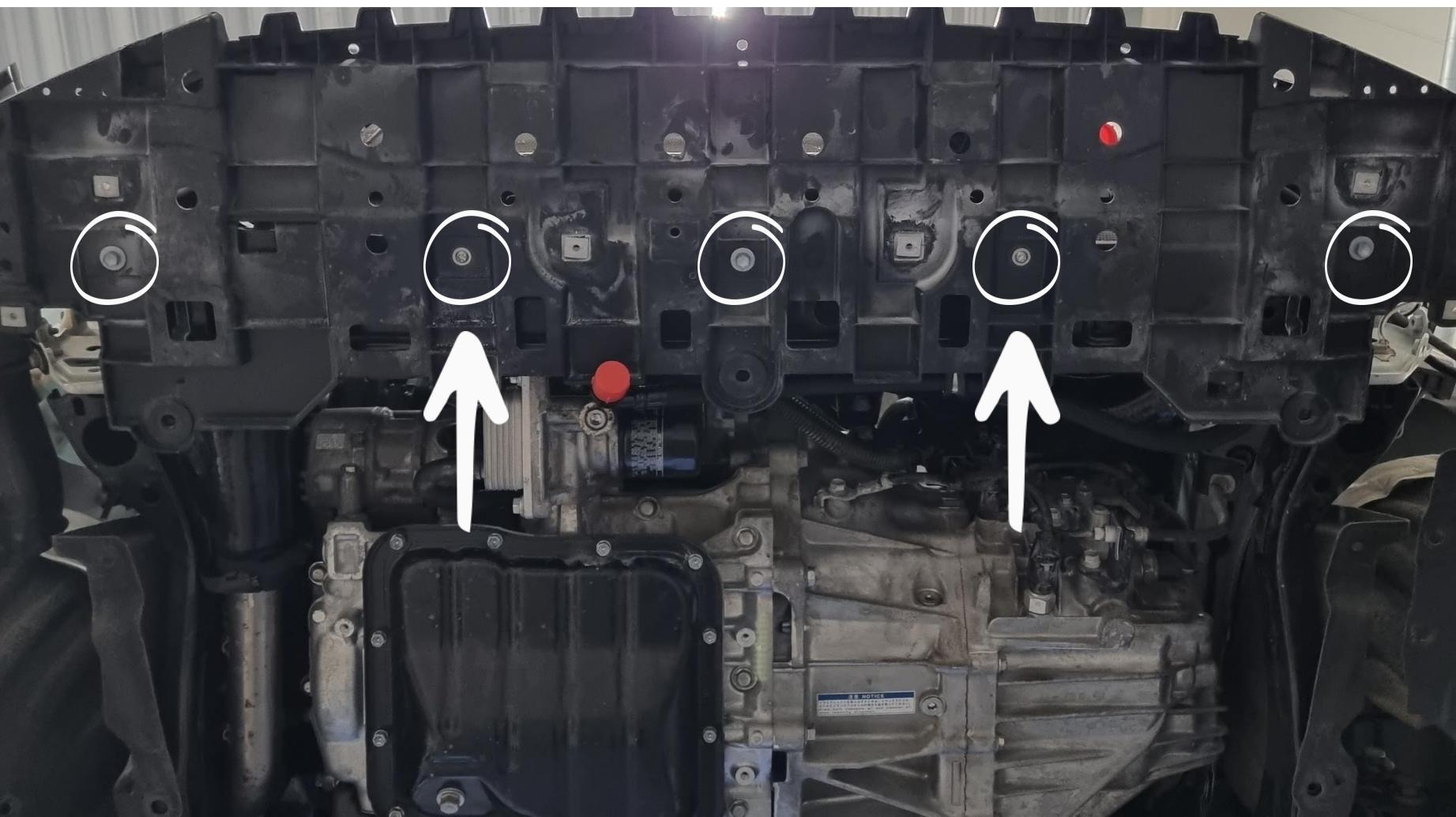
Step 4

Install 4x metall sleeves inside the rubber grommets.



Step 5

Install the oil cooler brackets on the oil cooler with the included 4pcs M6x16mm Allen screws.
Note the rotation of the oil cooler connections!



Step 6

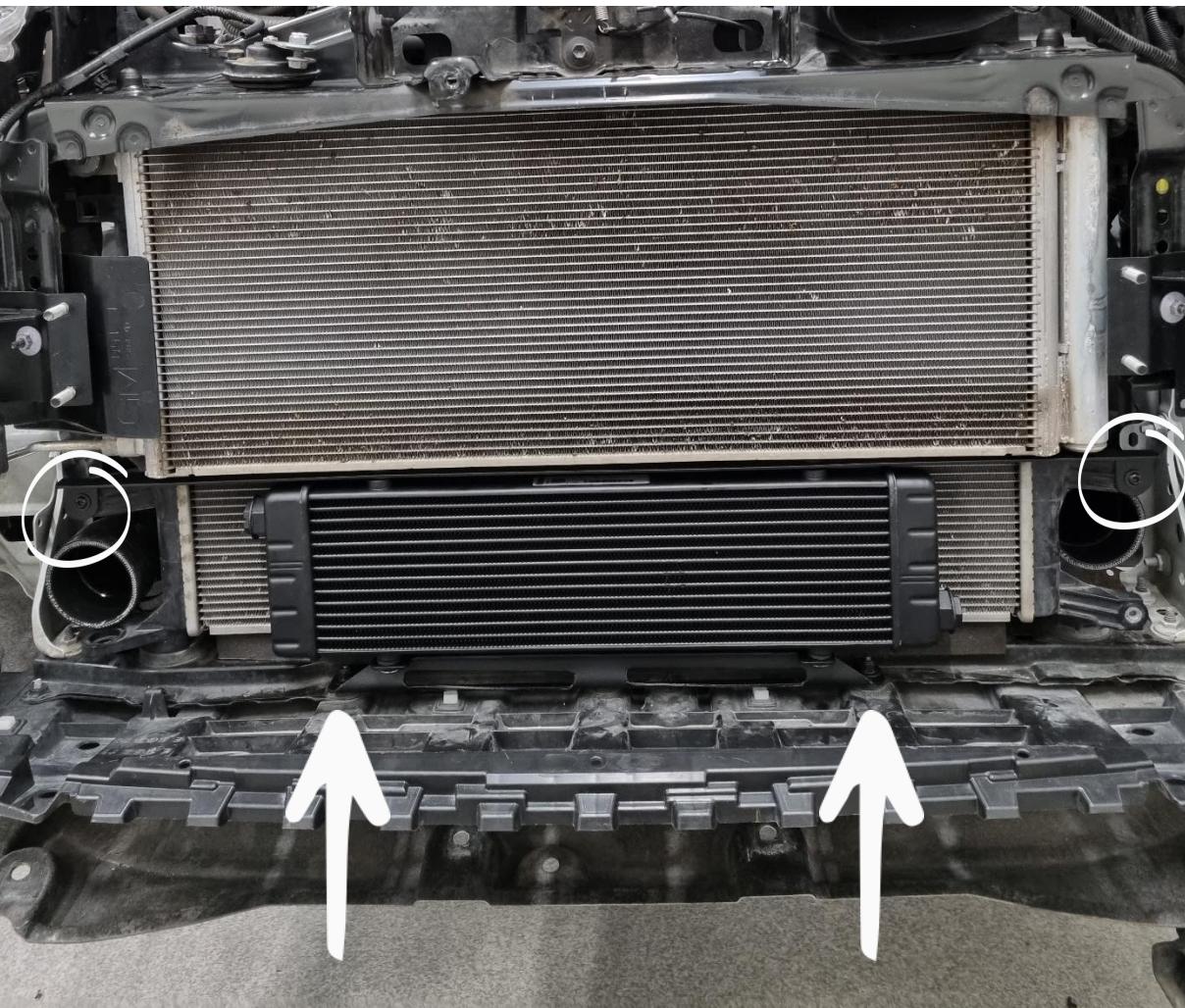
Remove the plastic cover underneath the radiator. 5x 10mm Hex screws.



Step 7

Drill a 6,5mm hole as shown on the photo.

Re-install the plastic cover removed in step 6, when doing this you must exchange the screws marked with arrows in step 6 with the included M6x25 screws.



Step 8

Install the do88 oil cooler with the included M6x12 screws in the top bracket.

Fasten the lower bracket on the screws installed in step 7 with the included M6 locking nut & washer.

Step 9

Install the long oil hose, apply some lube on the aluminum threads and O-ring before installation. Do not tighten the connection yet.

Use the included M6x16 screw, M6 nut and the 19mm *P-clip to fasten the oil feeding line (marked with arrow on the photo).

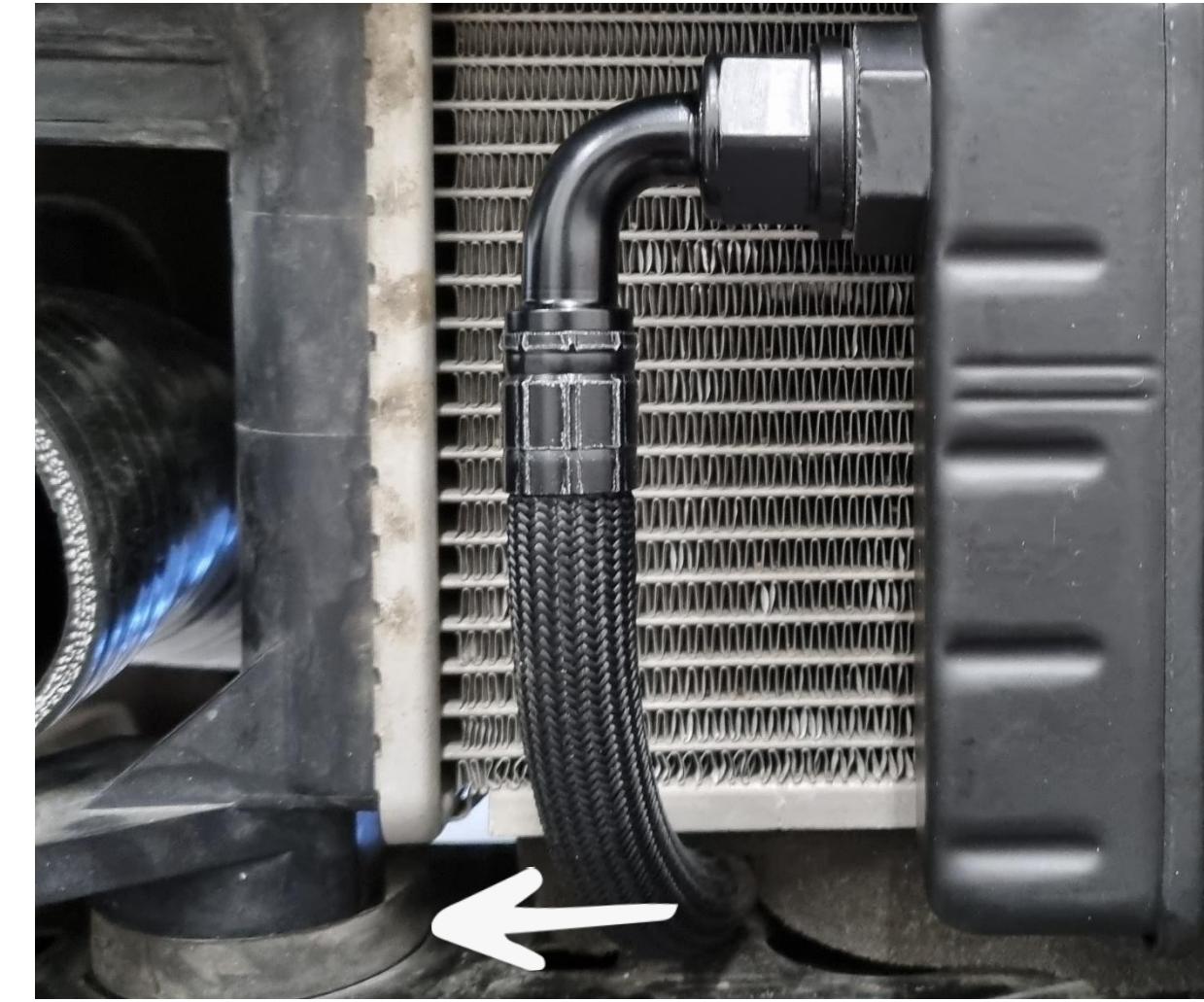
** This P-clip needs modification before installation. Fasten the flat screw hole surfaces in a wise and then insert something (screwdriver handle) round that fills the P-clip, then turn the Clip approximately 90 degrees.*





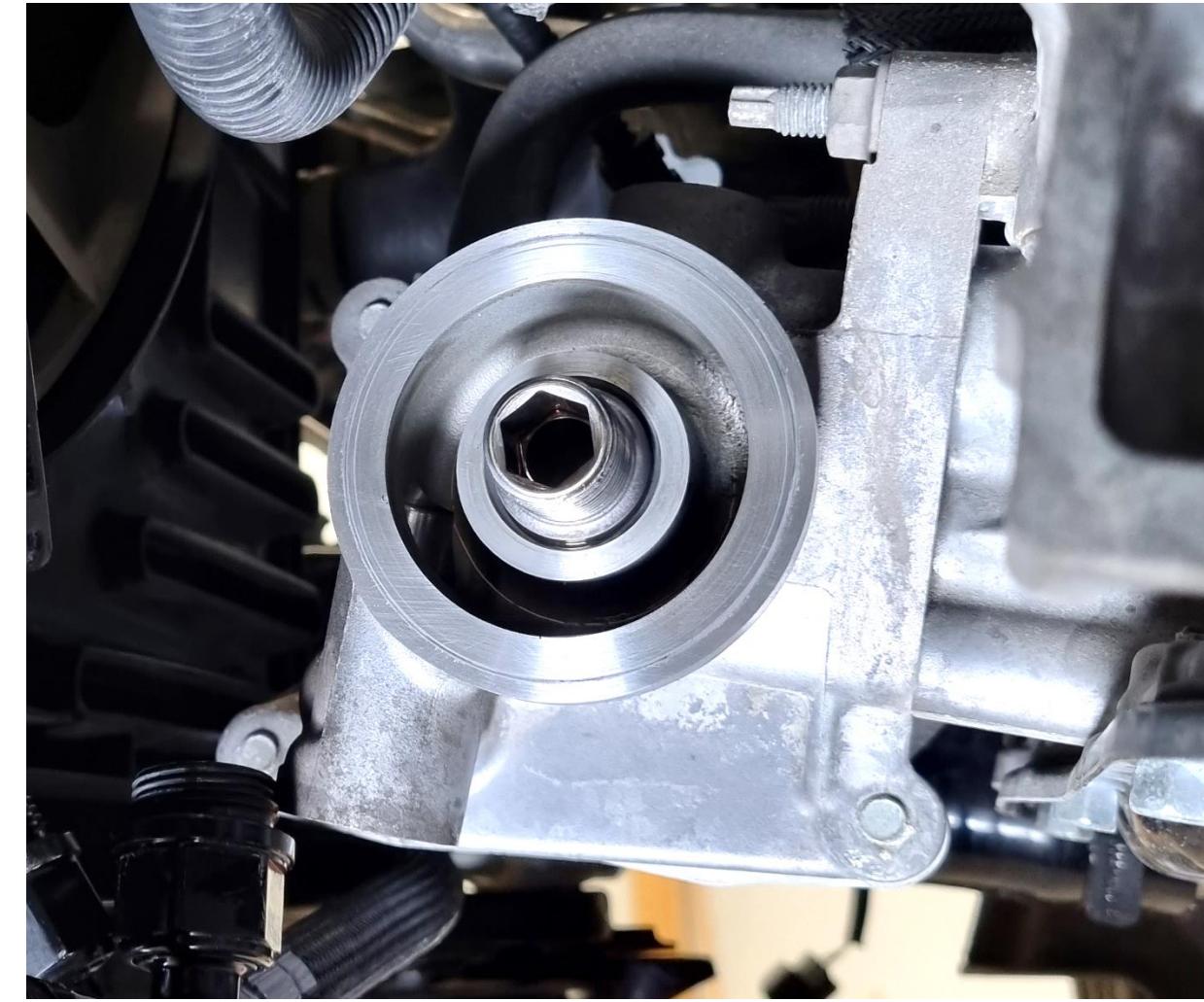
Step 11

Fasten the oil hose with the included P-clip 16mm, M6x16 Screw and M6 Nut, use the hole you drilled in step 7.



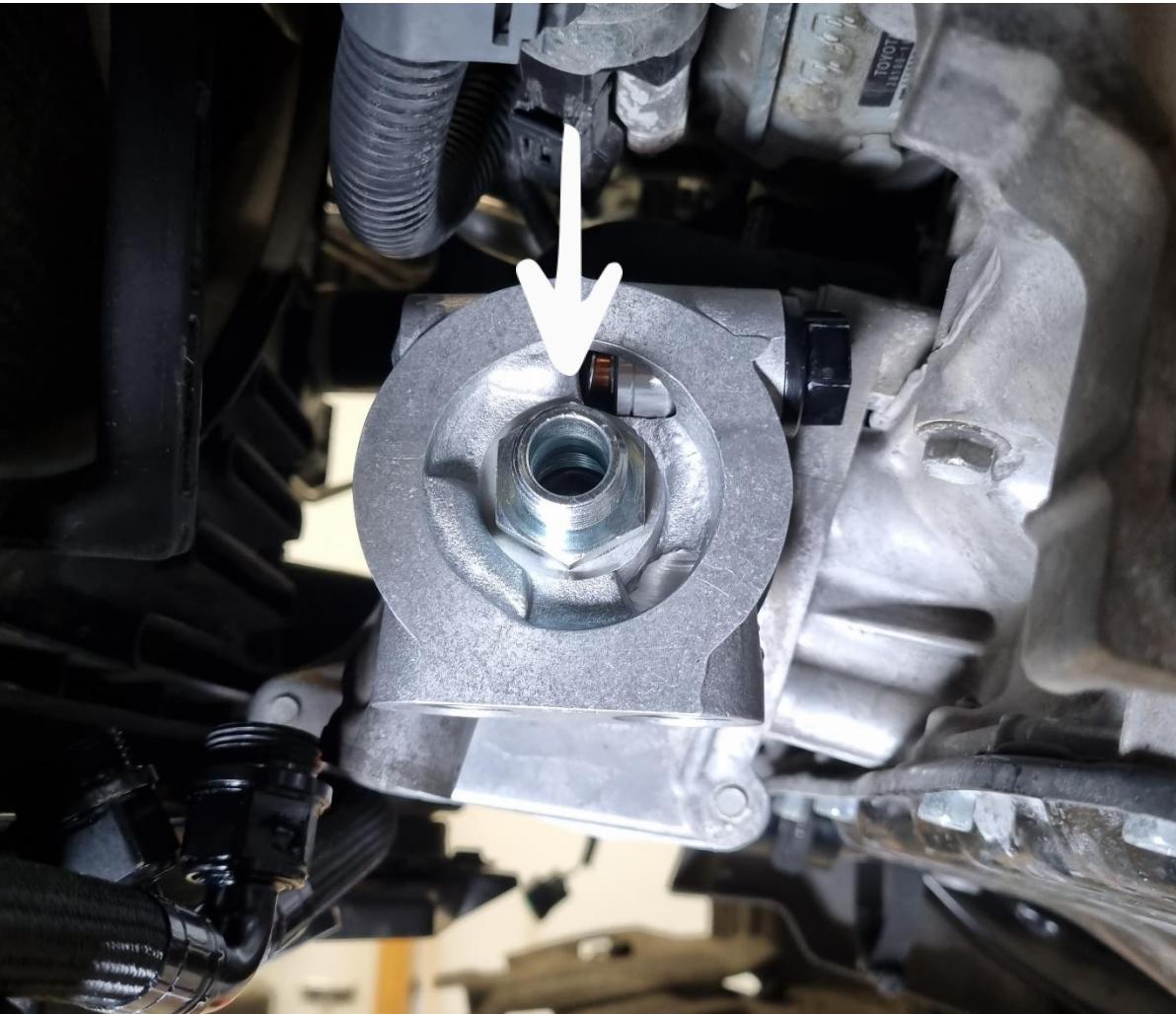
Step 12

Carefully lift the bottom right side of radiator with the help of a crowbar or similar tool to slightly lift it upwards a couple off millimeters to feed the short oil hose underneath the radiator.
Apply some lube on the aluminum threads and O-ring before installation. Do not tighten yet.



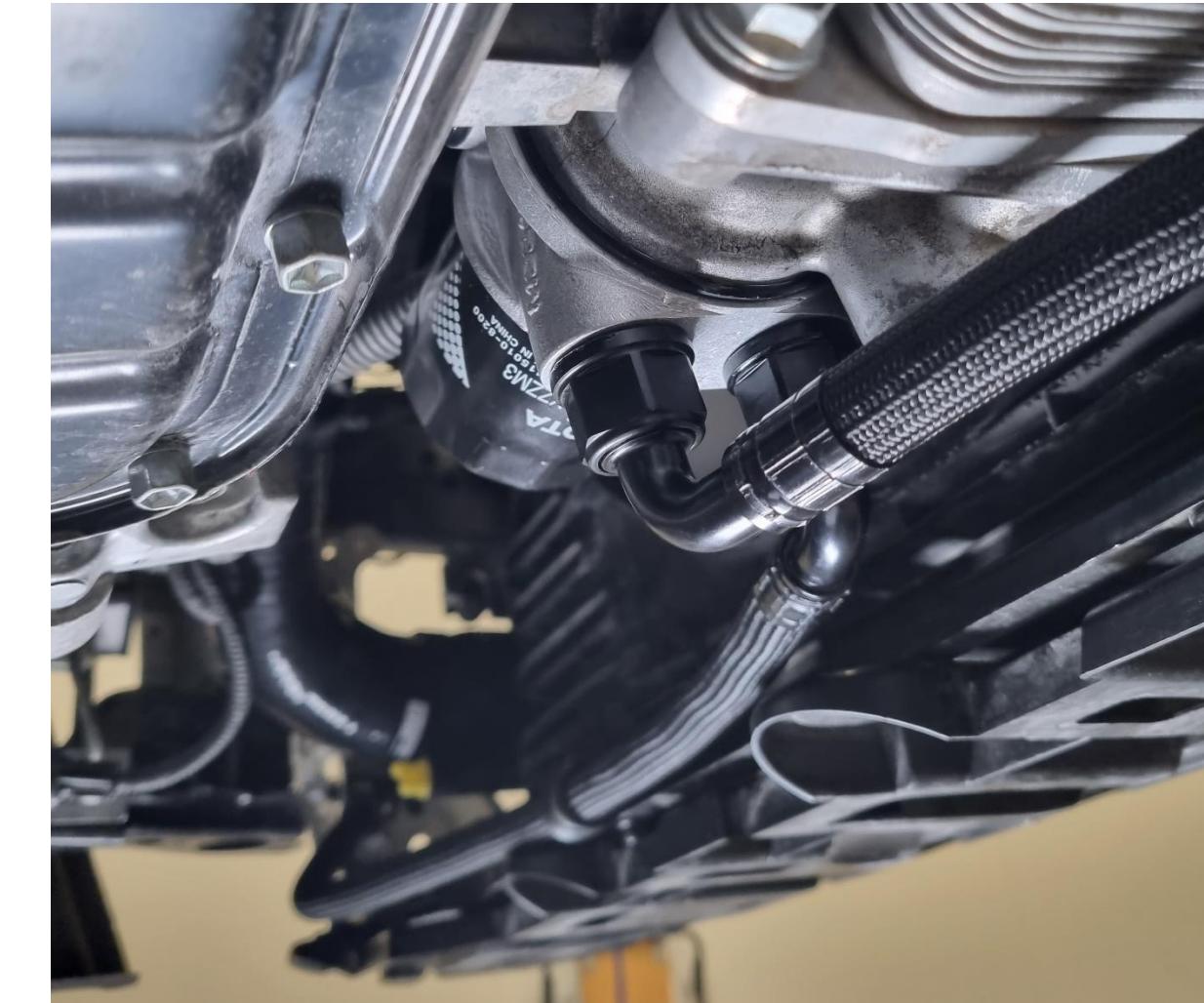
Step 13

Remove the oil filter and clean the surfaces with some brake cleaner and a clean cloth.



Step 13

Lubricate the large O-ring on the sandwich adapter plate with some engine oil and then install it with the oil filter extension screw. The connection ports should be pointing straight downwards. Tighten extension screw to 20 lb.-ft. (27 Nm) or to factory specifications of engine oil filter. Re-install oil filter and tighten to factory specifications.



Step 14

Install the oil hoses as shown on the photo. Lubricate the O-rings and threads before installing them. Firstly, thread the male adapter fitting into the female ports on the sandwich plate hand tight. Then tighten the fittings with a wrench until the metal surfaces meet or to 29.5 lb.-ft. (40 Nm).



Step 15

Fasten the included self adhesive sealing strip underneath the short oil hose, tape two strips approximately 8cm long side by side with each other.

This will help to protect the oil hose from rubbing wear in the passage underneath the radiator and the support beam.



Step 16

Tighten the oil hose fittings to the oil cooler with a wrench until the metal surfaces meet or maximum to 29.5 lb.-ft. (40 Nm). When tightening these fittings, it is important to hold a wrench on the hex flange on the oil cooler, so it won't get damaged.



Step 17

Re-install all other parts in reversed order. Then check the engine oil level and fill according to the factory specifications (approximately 5dl) and then start the engine, make sure there are no leaks , once the car has cooled down, double check the oil dip stick and add oil if necessary.

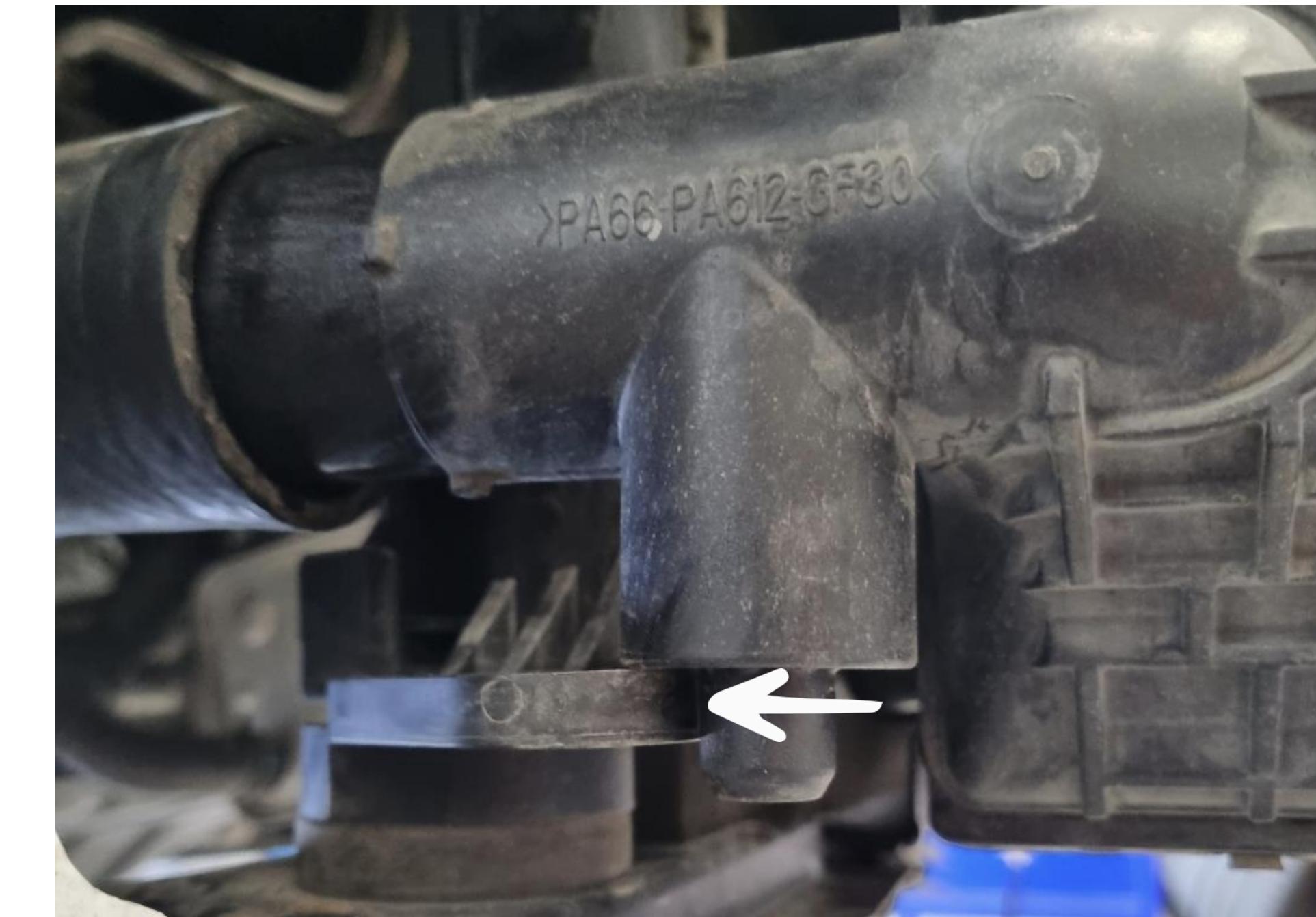


Step 18 (Only if installed with OEM Intercooler)

To be able to install the OEM intercooler in front of the do88 oil cooler you will need to space it outwards approximately 22mm. The OEM intercooler hoses are long enough to still fit when doing this.

These parts are not included in this kit, you will need to fabricate/source this:

- 3pcs spacers 22mm long. For example, pipe with ID 6-8mm and OD 10-12mm.
- 3pcs M6x40 Screws
- 6pcs M6 Washers



Step 19 (Only if installed with OEM Intercooler)

On the right side you will need to cut a slot in the bottom intercooler mounting bracket. This is necessary otherwise the bottom mounting tab on the intercooler will interfere when it is spaced out 22mm.



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