



Installation Instruction

Performance Intercooler



Audi RS3 8V 8Y 2017-

We recommend to calibrate the ACC radar after doing this installation.



Description

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

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

This installation instruction is performed on a RS3 8V -17 and the procedure for removal of panels and covers will differ a bit if the install is carried out on the 8Y and some extra steps are required.

Parts List

- 1pc do88 Performance Intercooler
- 1pc do88 Chromoly 48mm crash bar
- 1pc intercooler inlet hose
- 1pc intercooler outlet hose
- 4pcs hose clamps
- 2pcs M6 reed nuts
- 1pc Silicone cap (Not in Picture)
- 1pc M6 Flange nut Nyloc
- 2pcs Stripes
- 4pcs Washers (Not in Picture)



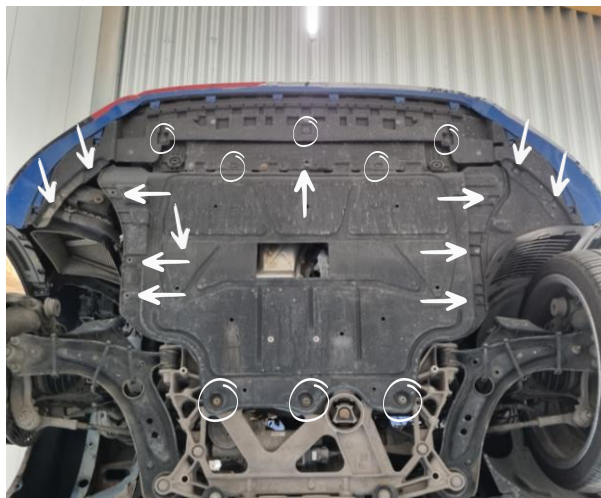
Step 1

Securely lift the car with the help of an auto lift or a jack and jackstands and remove both front wheels.



Step 2

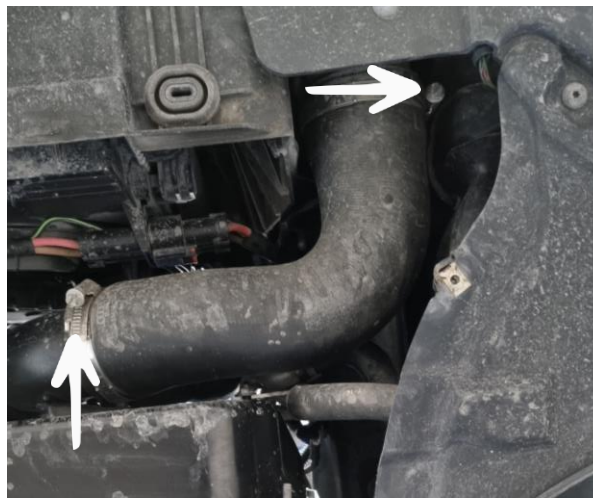
Remove 4x Torx T25 screws to the both sides inner wheel arch. Three of them are located where the arrows point (wheel arch already removed on this picture) and one is located approximately 20cm closer to the center of the wheel arch.



Step 3

Remove 6x Torx T45 and 11x Torx T25.

Use a flat head screwdriver to separate the plastic tabs and remove the plastic cover underneath the car.



Step 4

Loosen 2x 7mm hose clamps and remove the hose from the car.



Step 5

Loosen 1x 7mm hose clamp.



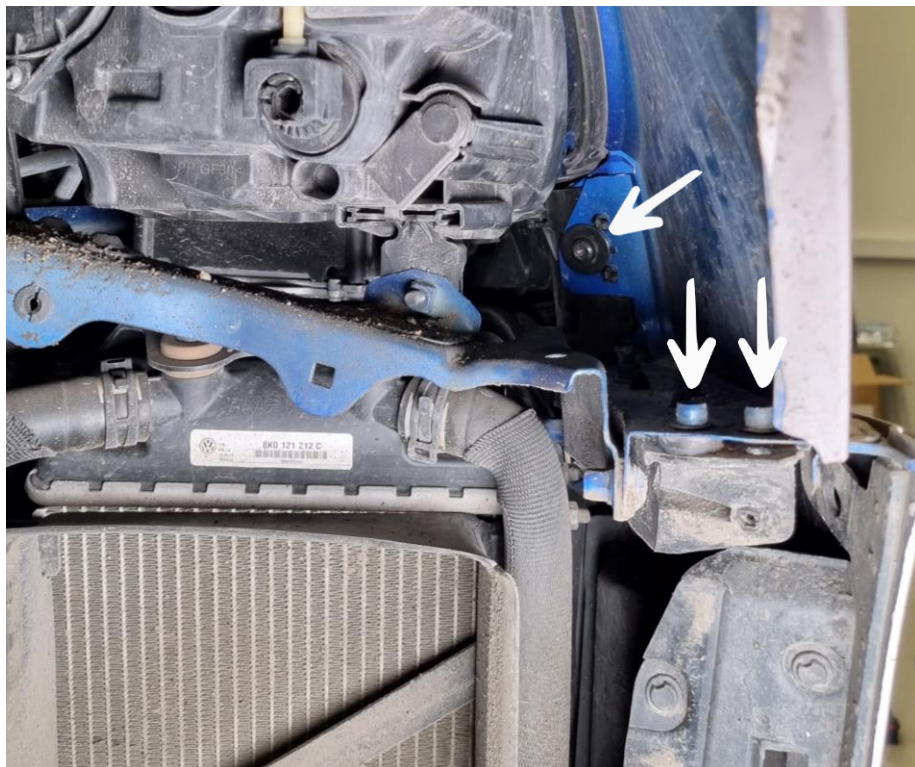
Step 6

Loosen 1x 7mm hose clamp and remove the hose from the car.



Step 7

Disconnect the hose for the washer fluid and use the included silicone cap to prevent the washer fluid from pouring out.



Step 8

From the wheel arch, remove 3x Torx T30 that holds the bumper cover, do this on both sides of the car.

Gently pull the sides of the front bumper towards the sides of the car in order to separate the bumper cover from the fender.

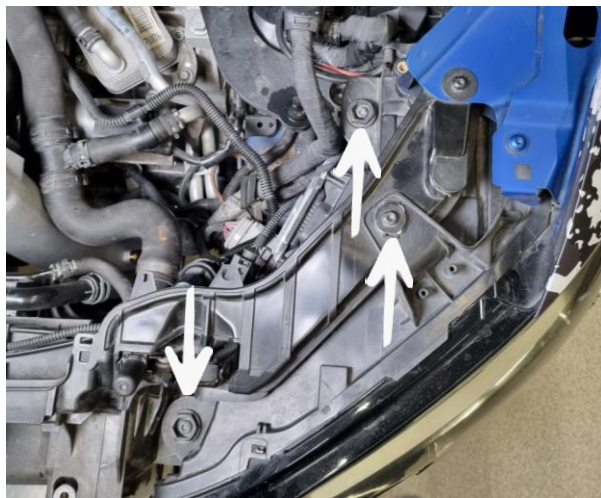


Step 9

Remove 3x Torx T30 located above the grille.

With the help of an assistant, carefully separate the front bumper from the car approximately 10 cm to access the cable connector to the bumper harness (located in the lower left part of bumper).

Once that's disconnected remove the front bumper from the car.



Step 10

Remove 3x Torx T30 that holds the headlights.
Do this on both sides of the car.



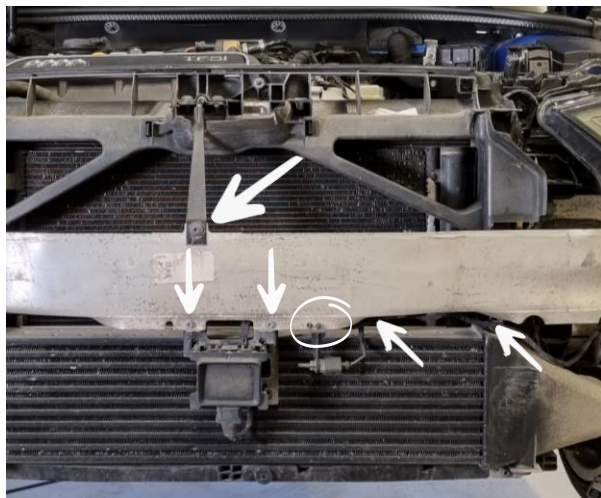
Step 11

Remove 1x Torx T30 that holds the headlight.
Do this on both sides of the car.



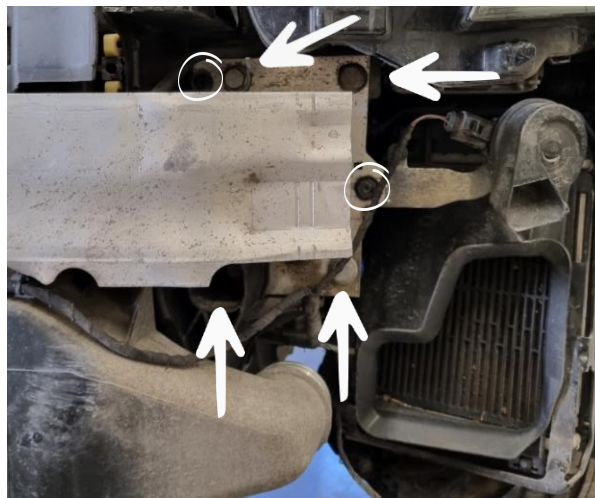
Step 12

Remove 2x Torx T30. Gently pull the plastic bracket towards the front of the car while pulling the bracket downwards.
Once this bracket is removed, pull the headlight out until you can disconnect the headlight connector, then remove the headlight from the car.
Do this on both sides of the car.



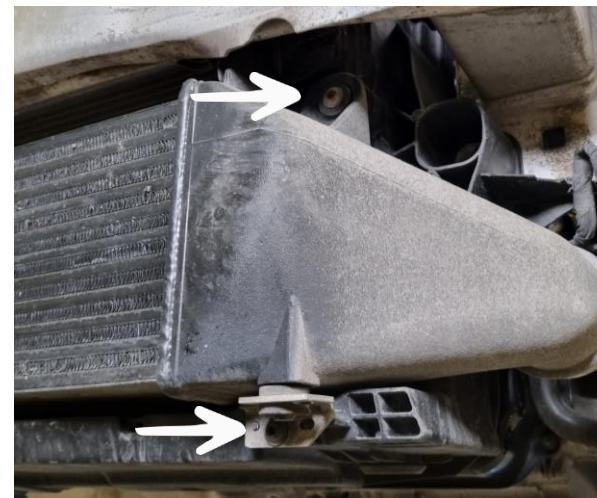
Step 13

Remove 3x Torx T25 and disconnect the cable clips along the crash bar.
Disconnect the outside temperature sensor from the crash bar.



Step 14

Remove 8x16mm hex screws and 4x torx T30 (4x 16mm hex screws and 2x Torx T30 on each side of the intercooler)
Tilt the crash bar towards yourself while lifting the crash bar upwards. It helps to pull the bottom of the radiator support in a forward direction at the same time. Do this in small steps at a time and the crash bar can eventually be removed from the car.



Step 15

Remove 4x Torx T30 (2x on each side of the intercooler)
Remove the intercooler out from the car.



Step 16

Remove the bushings and brackets from the OEM intercooler and install it on the do88 intercooler in the same positions as mounted on the OEM.



Step 17

Mount the do88 intercooler in place and tighten the OEM 4x Torx T30 screws.

Make sure there is clearance between the intercooler and AC-Condenser. If not adjust with included washers between the upper mount and the radiator support to move the intercooler outwards.

Install the included intercooler inlet and outlet hoses with the included hose clamps.



(8Y Cars)

Hold up the intercooler and mark where it interferes with the brace, then cut/grind away material until there is enough space for the intercooler.



(8Y Cars)

On both sides of vehicle, use a rasp or a knife to cut away some of the tabs that are circled to make room for the new crash bar that have thicker mounting plates.

Then remove the upper plastic tab on the left side with a grinder so the mounting plate of the crash bar can sit flush.



Step 18

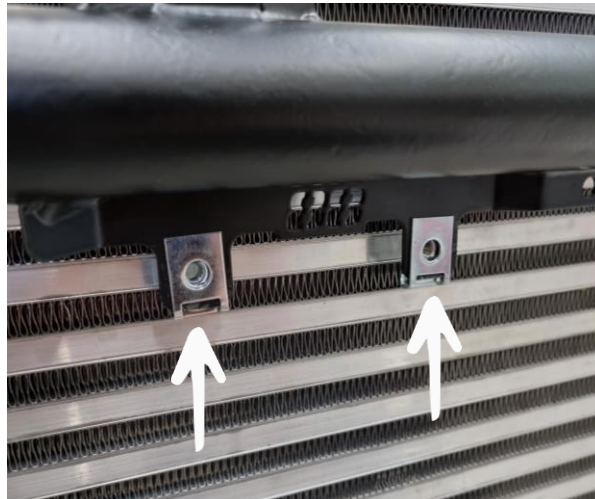
Install do88 crash bar in reversed order as the OEM crash bar was removed. Install 1x bolt per side, in the lower, inner screw hole and adjust the position of the radiator support and then tighten the screws. Align the bolts by the marks from the original bolt position. Once the crash bar is in place and aligned, install all the remaining screws. Torque these 8 screws with 60Nm (44.25 ft-lb).

When installing on 8Y the brackets for the horns have a different hole pattern. Either drill one appropriate hole for the tab of the horn bracket, or straighten out the tab so it will not be used anymore.



Step 19 (8V only)

Re-use the OEM Torx screw and install with included M6 flange nut.



Step 20 (8V only)

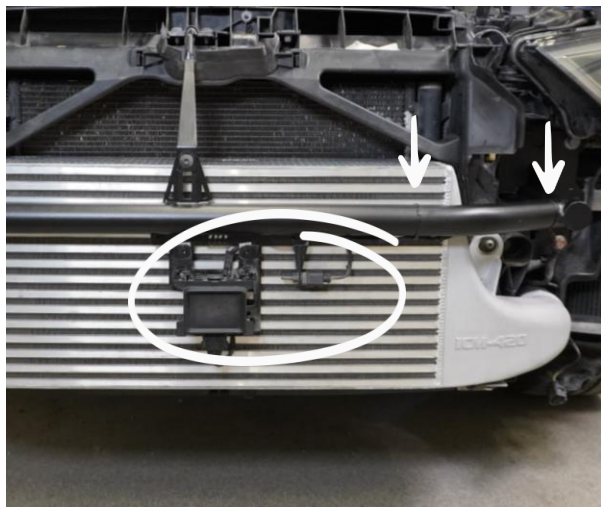
Install the 2x included M6 reed nuts as shown on picture.



Step 21 (8V only)

From ACC sensor bracket, remove the 2x Torx T30, then remove the ACC spacer plate.

Re-use these screws to install the ACC onto the do88 crash bar.

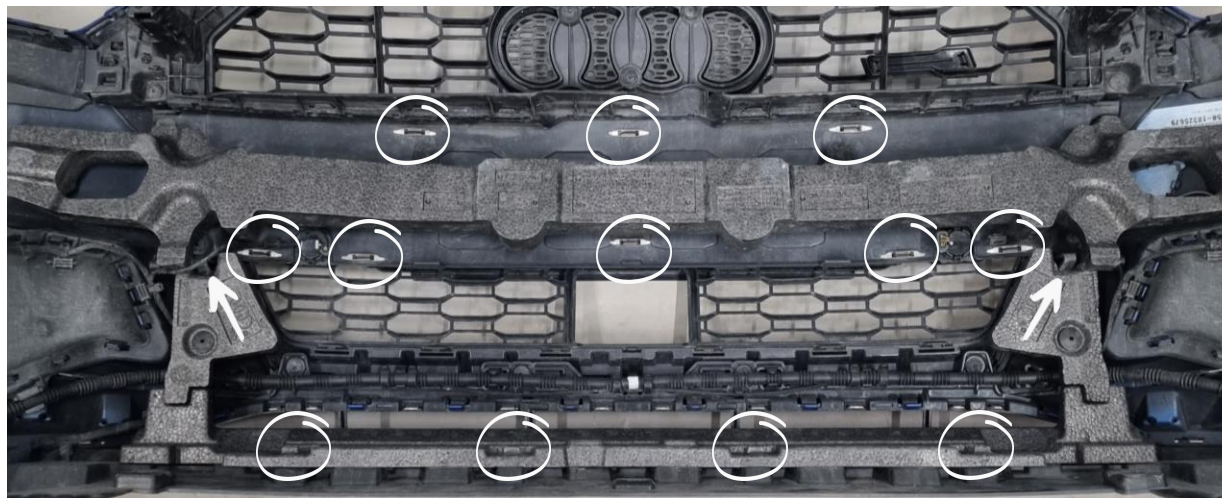


Step 22

(8V only) Install the ACC and outside temperature sensor.

Use the 2x included stripes to secure the cables along the crash bar.

On the 8Y model you may have to move the cable clip holding the harness to the radiator support above the intercooler outlet so that its not under tension against the intercooler.



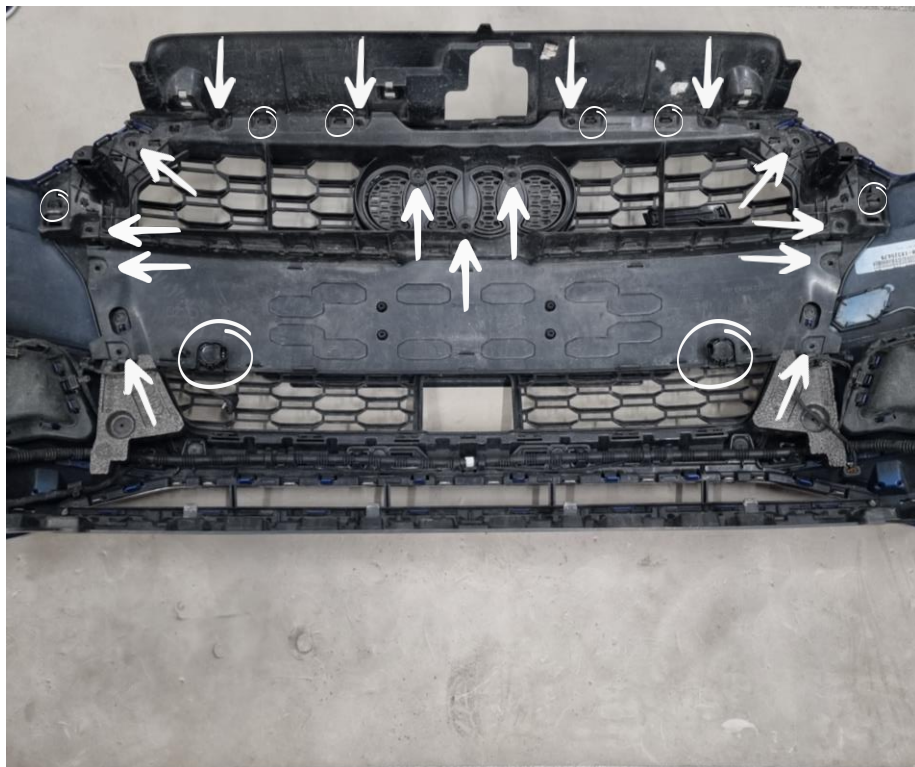
Step 23 (8V only)

Use a flat head screwdriver and release 2x plastic clips and remove the upper foam. Lift the Foam upwards. Remove 4x steel clips with a small flat head screwdriver and remove the lower foam from the front bumper. Remove 8x steel clips with a small flat head screwdriver.



(8Y Cars)

On 8Y cars cut the airduct as marked in the picture and place it in the front before installing it on the car.

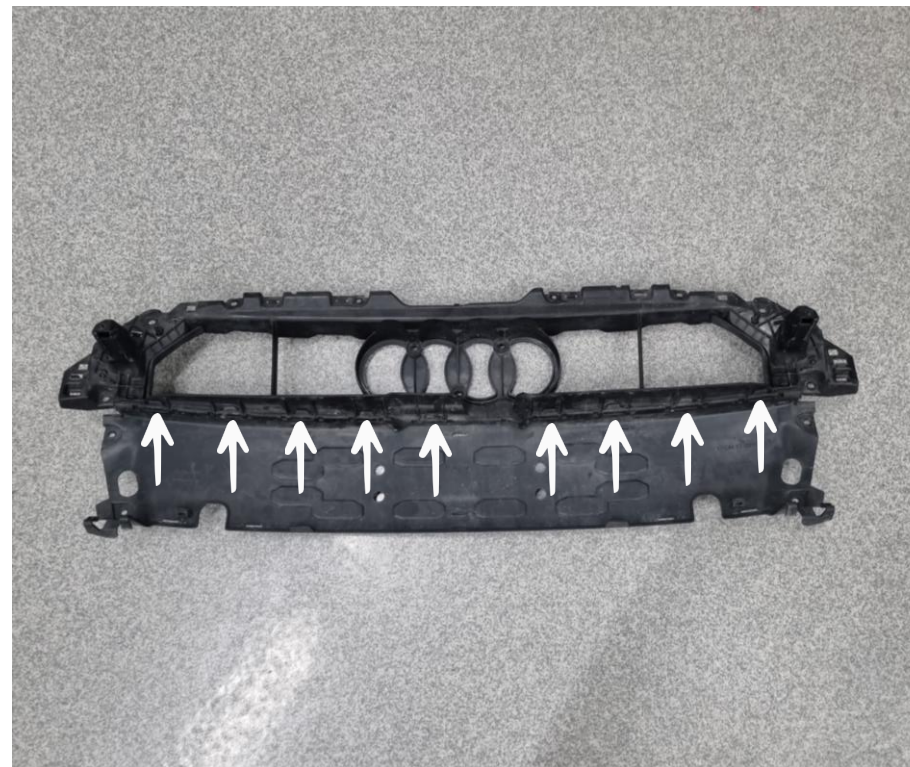


Step 24 (8V only)

Disconnect 2x cable connectors to the parking sensor.

Remove 15x Torx T25 (where arrows points) and 6 plastic tabs that need to be released to be able to remove the plastic cover.

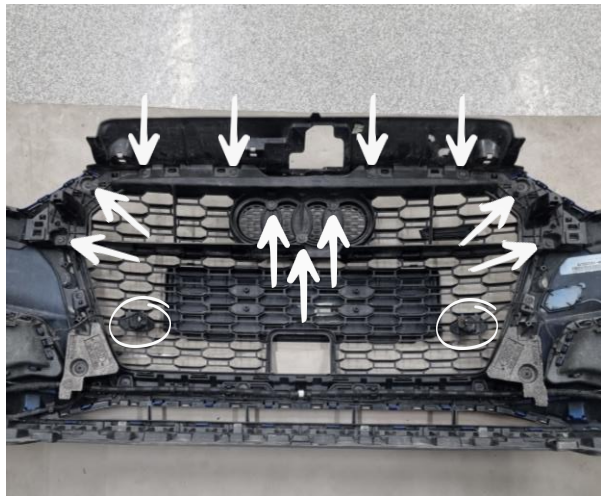
Be careful around the parking sensor.



Step 25 (8V only)

Use some lube and with the help of a small flat head screwdriver, separate the plastic tabs.

Remove the lower plastic cover from the upper part.



Step 26 (8V only)

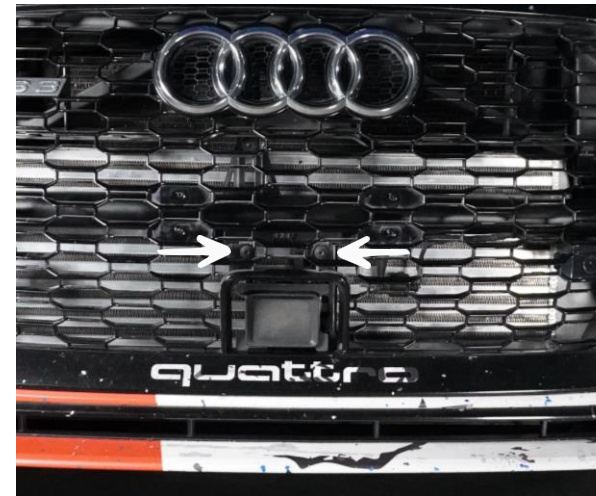
Re-install the upper part that was separated from the lower in the previous step back into the front bumper and secure with 11pcs Torx T25 screws and re-connect the parking sensors.



Step 27

Re-install all other parts in reverse order.
Install the Front bumper as the last step.

If you have an 8Y model read Step 29 before re-installing all parts in reverse order.

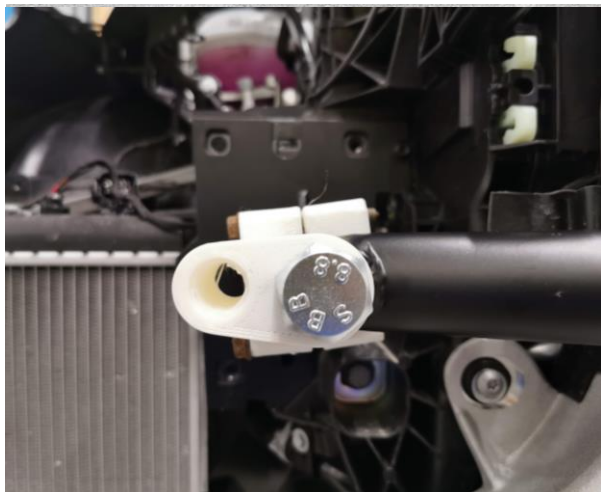


Step 28 (8V only)

Lift the front bumper into place to make sure the ACC module is centered within gap in the front bumper. Remove the front bumper again and loosen 2x Torx T30 and adjust if necessarily. As the ACC sensor have been removed from the car, we really recommend you perform an ACC calibration before using the car.

Important!

Also check that you towing eye fits the new crash bar. The thread vary depending to year model. If your towing does not fit, you must buy an after-market version with M20x2.5 thread. This part number has the correct thread 6001546734 (This is not an Audi part).



Step 29 (8Y-only)

In September 2024 we will offer a towing eye adapter for 8Y that can be purchased separately. For the 8Y install the towing eye relocation kit using the M22 screw and 2 x M8, make sure the towing eye align with the hole in the bumper.

Note:

An updated version of the crash beam is under development (so this adapter won't be needed), with an expected release at the end of 2024 or the beginning of 2025.



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