



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.

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
- 1pc M6 Flange nut Nyloc
- 2pcs Stripes



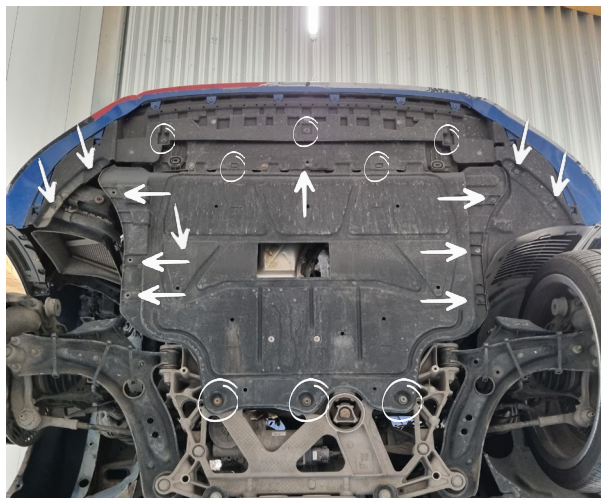
Step 1

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



Step 2

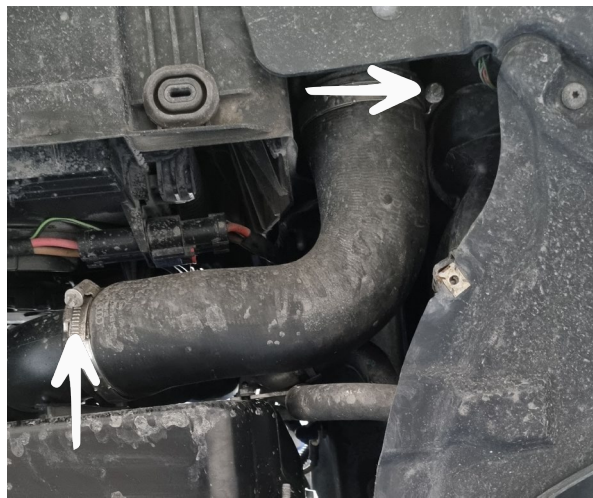
Remove 4x Torx T25 screws to the both sides inner wheel arch. Three of them are located where the arrows point (wheel arch already removed on this picture) and one is located approximately 20cm closer to the center of the wheel arch.



Step 3

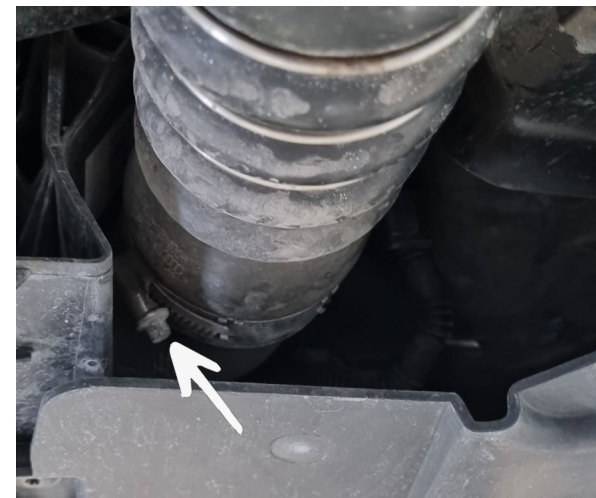
Remove 6x Torx T45 and 11x Torx T25.

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



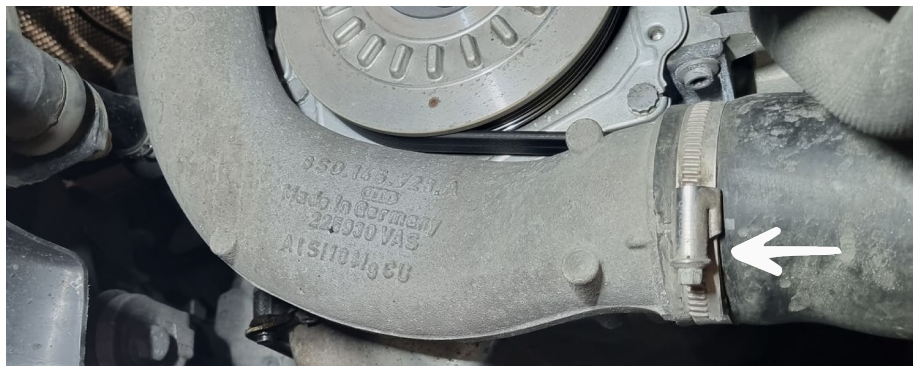
Step 4

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



Step 5

Loosen 1x 7mm hose clamp.



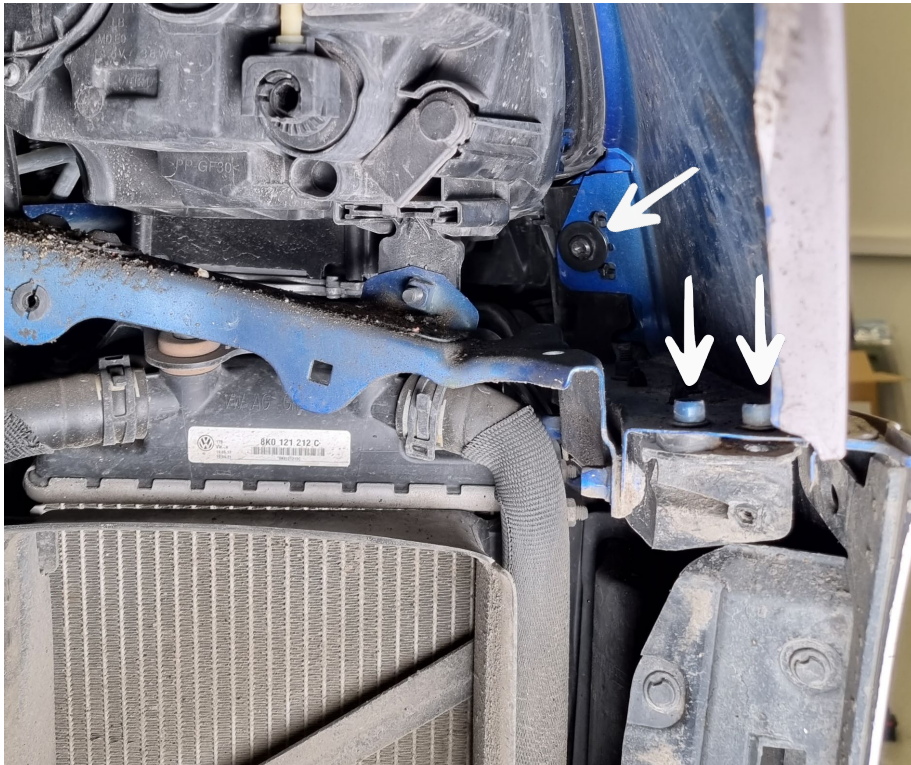
Step 6

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



Step 7

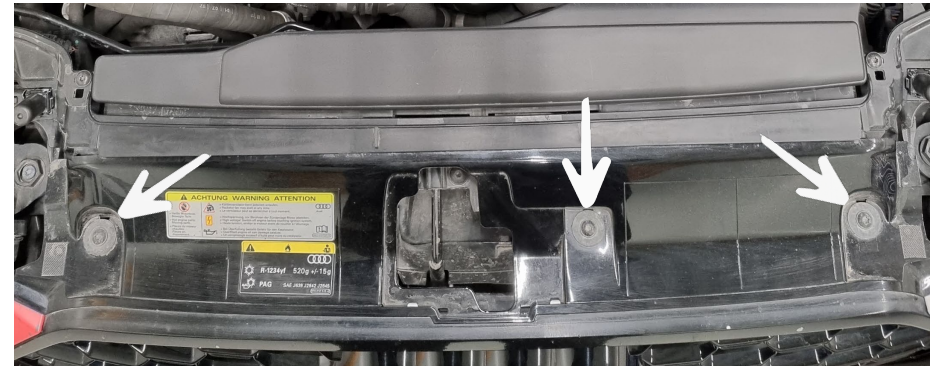
Disconnect the hose for the washer fluid and use the included silicone cap to prevent the washer fluid from pouring out.



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.

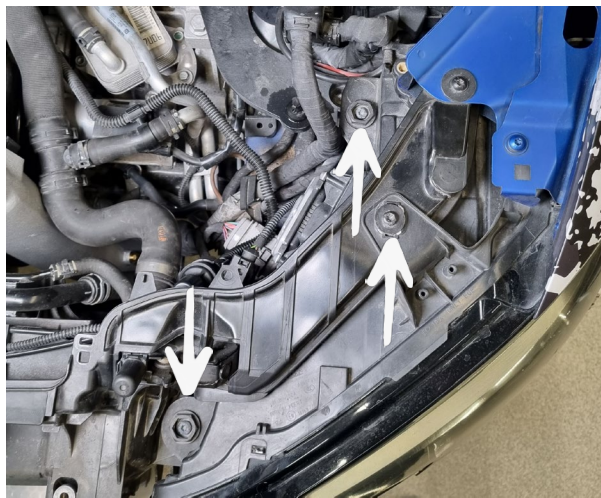


Step 9

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.



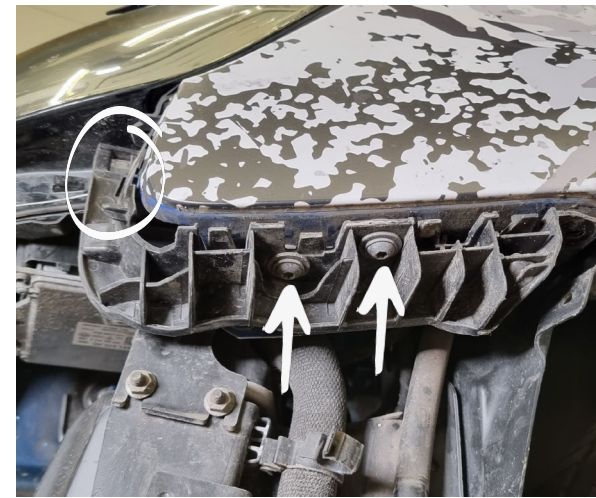
Step 10

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



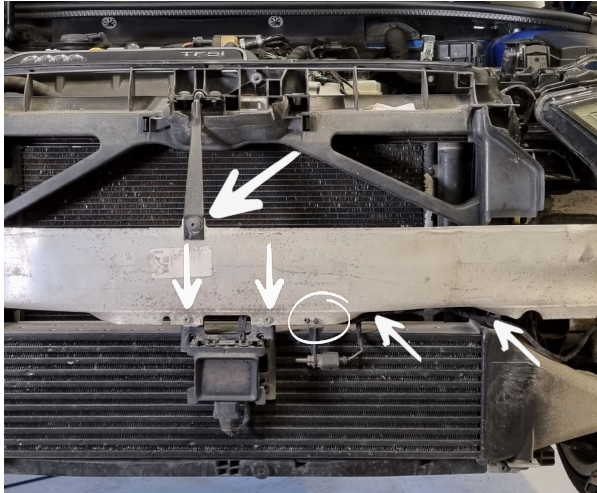
Step 11

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



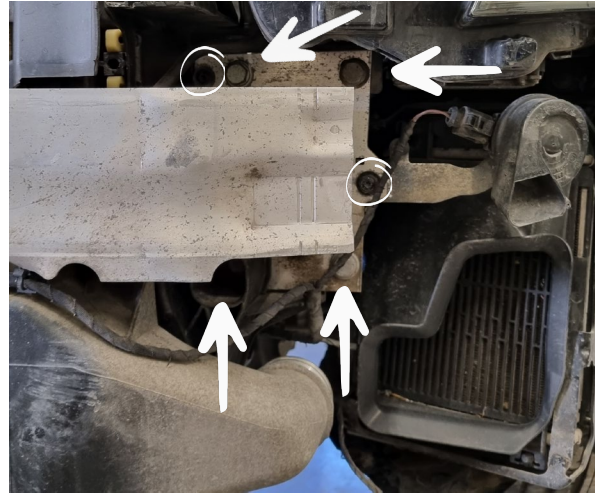
Step 12

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.



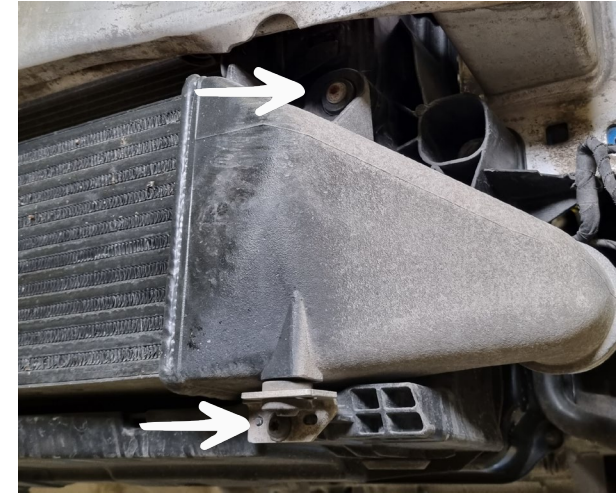
Step 13

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



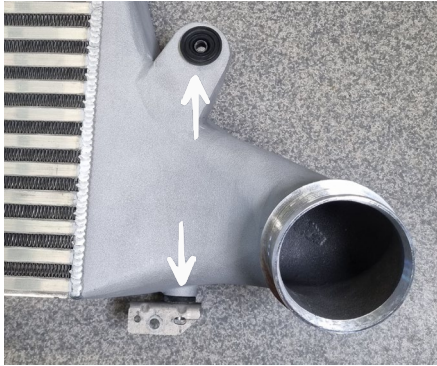
Step 14

Remove 8x16mm hex screws and 4x torx T30 (4x 16mm hex screws and 2x Torx T30 on each side of the crash bar)
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.



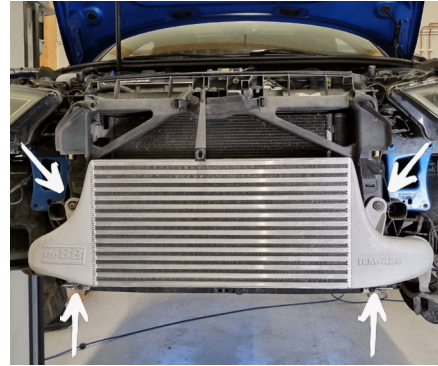
Step 15

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



Step 16

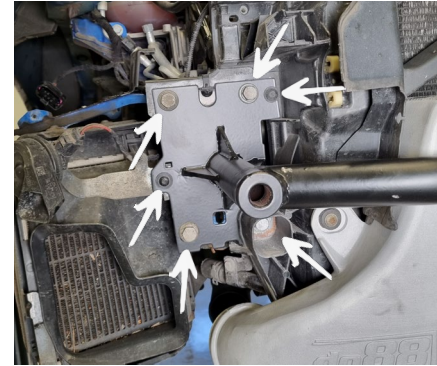
Remove the bushings and brackets from the OEM intercooler and install it on the do88 intercooler in the same positions as mounted on the OEM.



Step 17

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

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



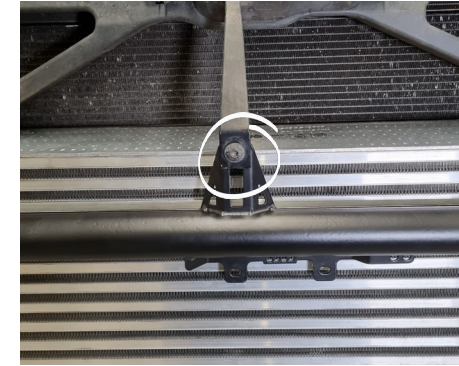
Step 18

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.

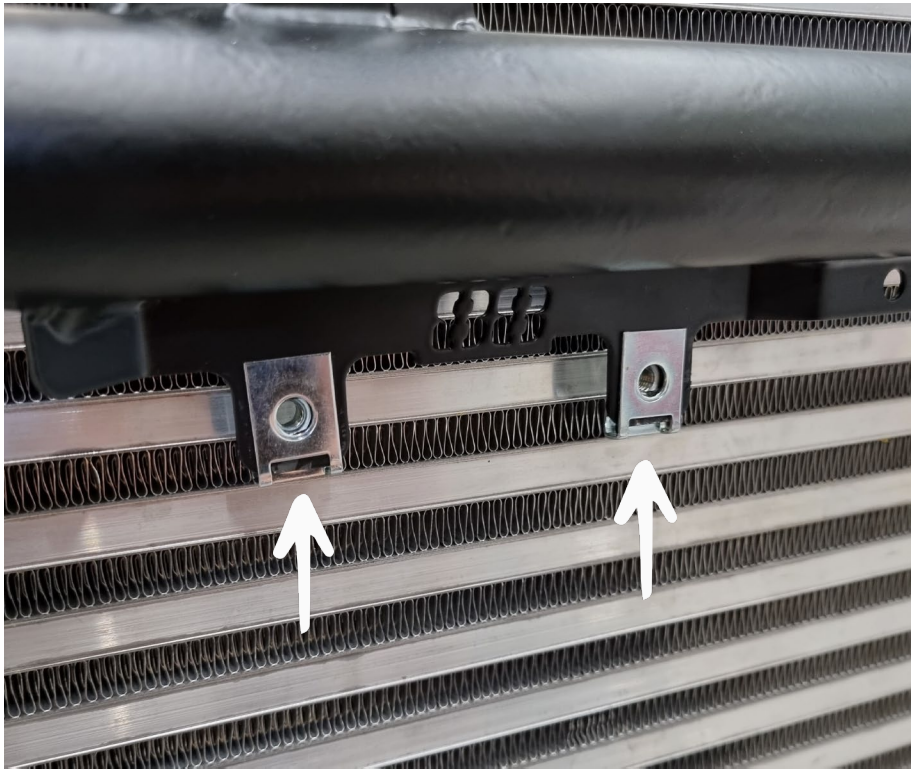
Align the bolts by the marks from the original bolt position.

Once the crash bar is in place and aligned, install all the remaining screws. Torque these 8 screws with 60Nm (44.254 ft-lb)



Step 19

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



Step 20

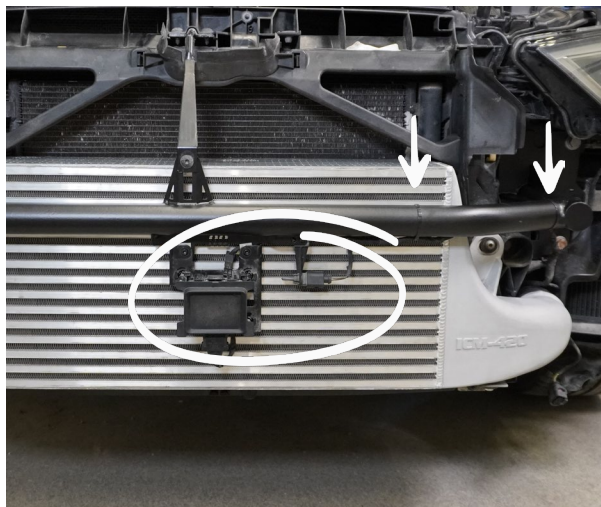
Install the 2x included M6 reed nuts as shown on picture.



Step 21

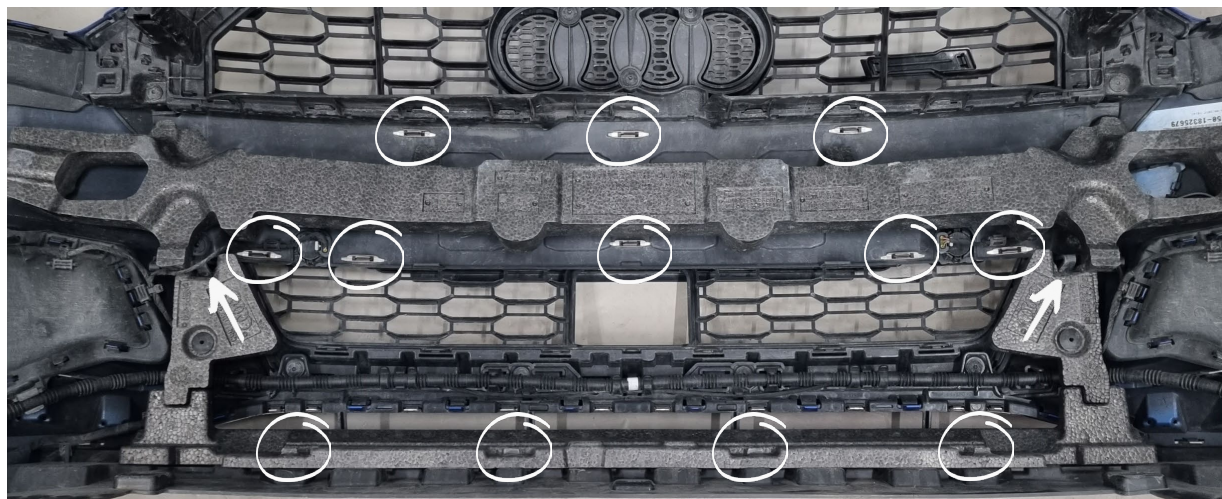
From ACC sensor bracket, remove the 2x Torx T30, then remove the ACC spacer plate.

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



Step 22

Install the ACC and outside temperature sensor.
Use the 2x included stripes to secure the cables along the crash bar.

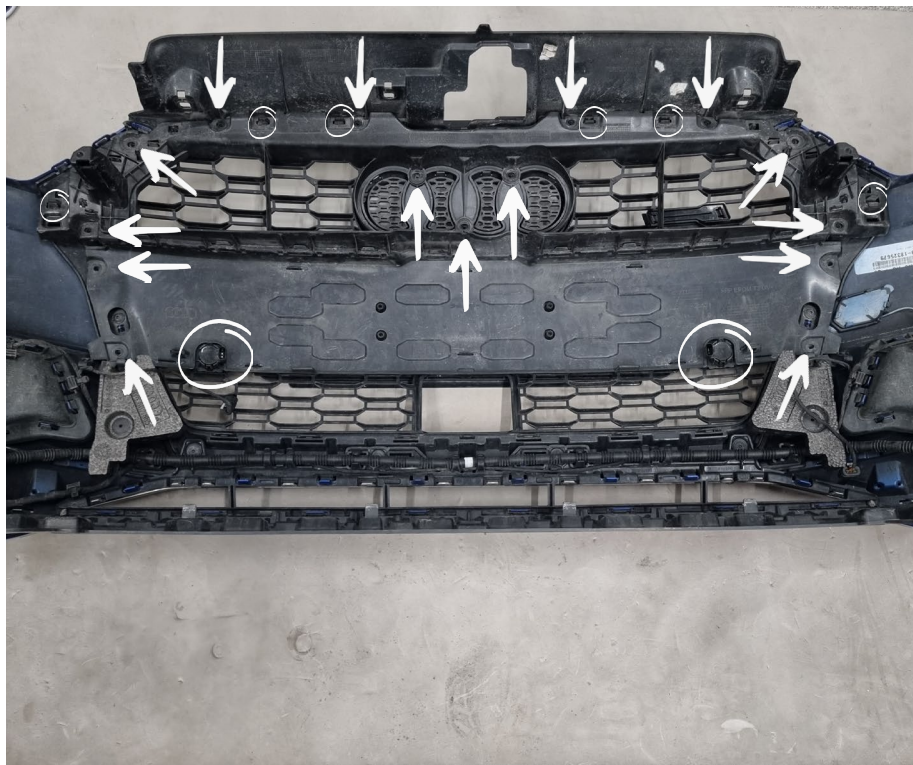


Step 23

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.

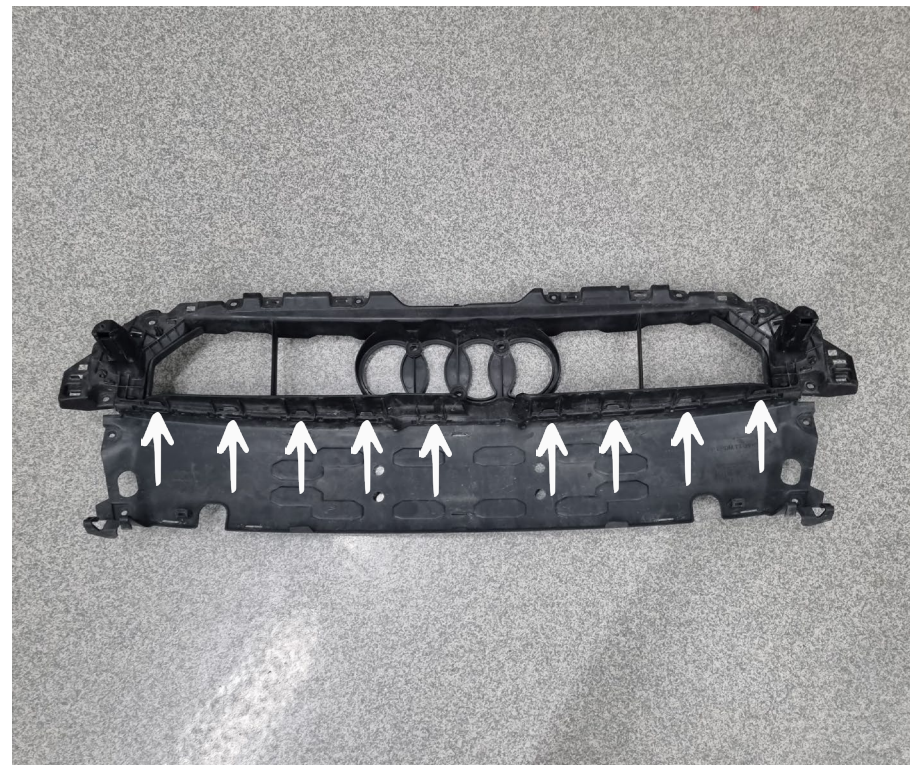


Step 24

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.

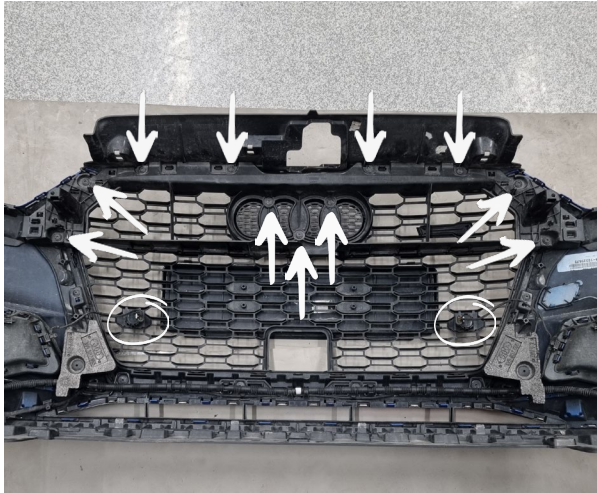
Be careful around the parking sensor.



Step 25

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

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.



Step 28

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 to perform an ACC calibration before using the car.



Thank you for purchasing another do88 product.

Please check our website frequently for new product releases.

If you have any questions or concerns about this product please do not
hesitate to contact us: do88.se/contact



Installation Instruction

Performance Charge air pipes / Throttle body spacer



Audi RS3 8V 2017-2022

NOTE!

Before starting the installation, we recommend you to buy these Audi OE parts:

Gaskets between throttle body and intake manifold: **2pcs 07D 133 073 A**

Gasket between upper and lower part of intake manifold: **07K 133 379**

If this instruction is used for installation of Throttle body spacer (CP-130) alone, only follow the steps that refers to the charge pipe between intercooler and throttle body.

Step 4, 5, 11, 12, 13, 14, 15, 17, 18, 19, 20, 21.



Description

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

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

Parts List

- 2pcs do88 Performance Aluminum charge pipes
- 4pcs do88 Performance silicone hoses
- 8pcs hose clamps
- 1pc BOV return aluminum joiner
- 1pc stainless steel bracket
- 1pc O-ring 20.5x1.5
- 2pcs M6x12 black Allen screws
- 2pcs M6 Spacer washer
- 1pc ball joint adapter
- 1pc BOV intake pipe adapter

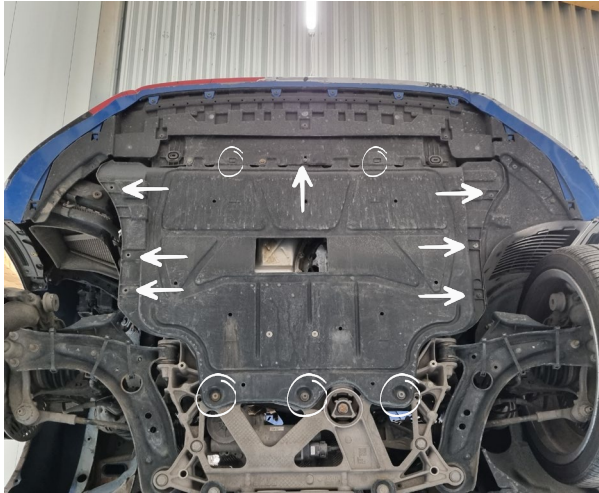


Step 1

Securely lift the car with the help of an auto lift or a jack and jackstands and remove the right side front wheel (cars driving directions)

Step 2

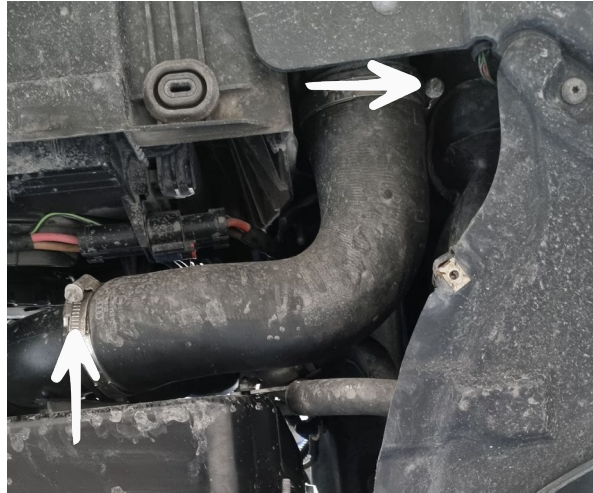
In the right wheel arch. remove 15x Torx T25 screws, 1x 10mm hex screw and 5x plastic rivets. To remove the rivets press in the middle section using a small screwdriver, be aware that they will end up inside the wheel arch and can be found when the inner wheel arch is fully removed.
Remove the plastic inner wheel arch from the car.



Step 3

Remove 3x Torx T45 and 7x Torx T25.

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



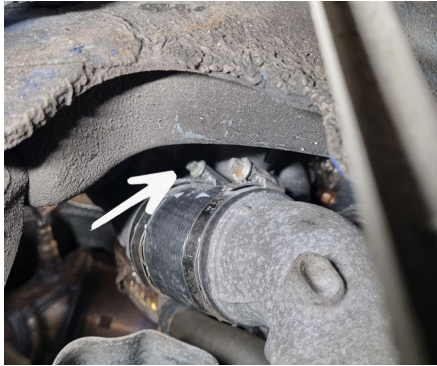
Step 4

Remove 2x 7mm hose clamps and remove the intercooler outlet hose from the car.



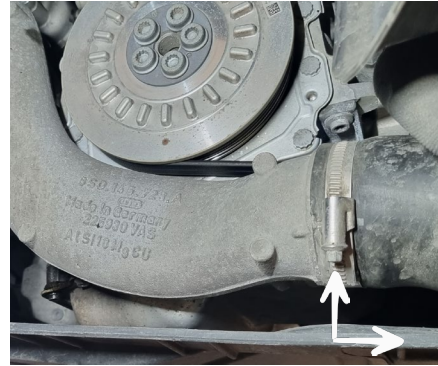
Step 5

Remove 1x 10mm hex screw to the charge pipe bracket.



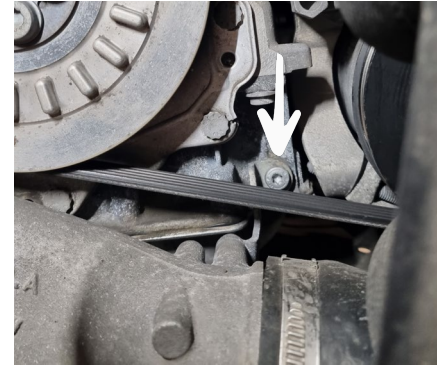
Step 6

Remove 1x 7mm hose clamp.



Step 7

Remove 2x 7mm hose clamps and remove the intercooler inlet hose.



Step 8

Remove 1x Torx T30.



Step 9

Remove 1x XZN 10mm screw located on backside of the engine.
Remove the charge pipe from the car.



Step 10

Install the do88 charge pipe.

Begin with the turbo outlet hose, then install the charge pipe and the intercooler inlet hose.

Secure the pipe with the screws previously removed from OE pipe.

Check so there is space between the charge pipe and oil pan. It might be necessary to use 1 or 2 of the included spacer washers between the engine and the front bracket of the charge pipe.

The do88 charge pipe should be aligned as close to the bottom of the oil pan as possible without any rubbing.

Tighten the hose clamps.

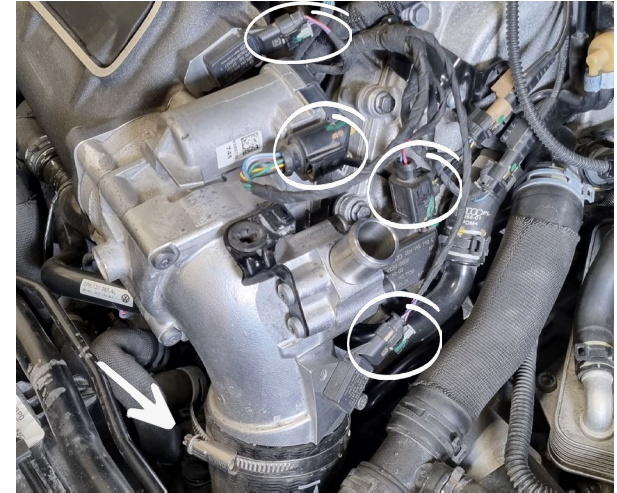


Step 11

Remove the engine cover.

Remove 2x Torx T25 screws holding the front air guide and remove the air guide.

Loosen 2x spring clamp to remove the blow-off valve return hose.



Step 12

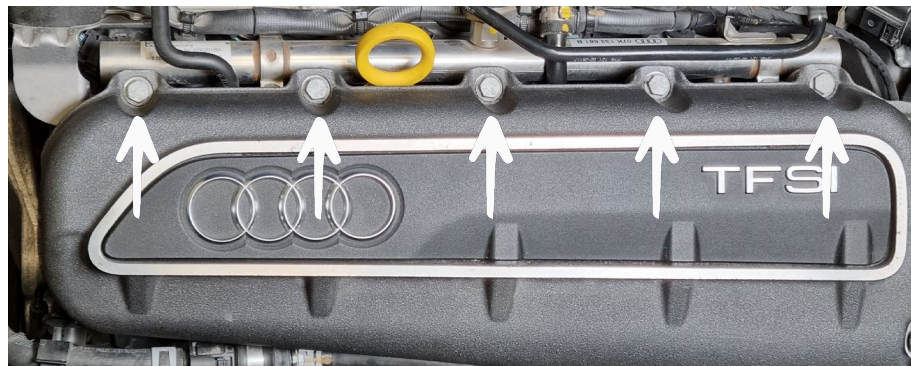
Disconnect 4x electrical connectors.

Loosen 1x 7mm hose clamp and remove the charge pipe and hose downwards.



Step 13

Remove 1x 10mm hex screw underneath the intake manifold.



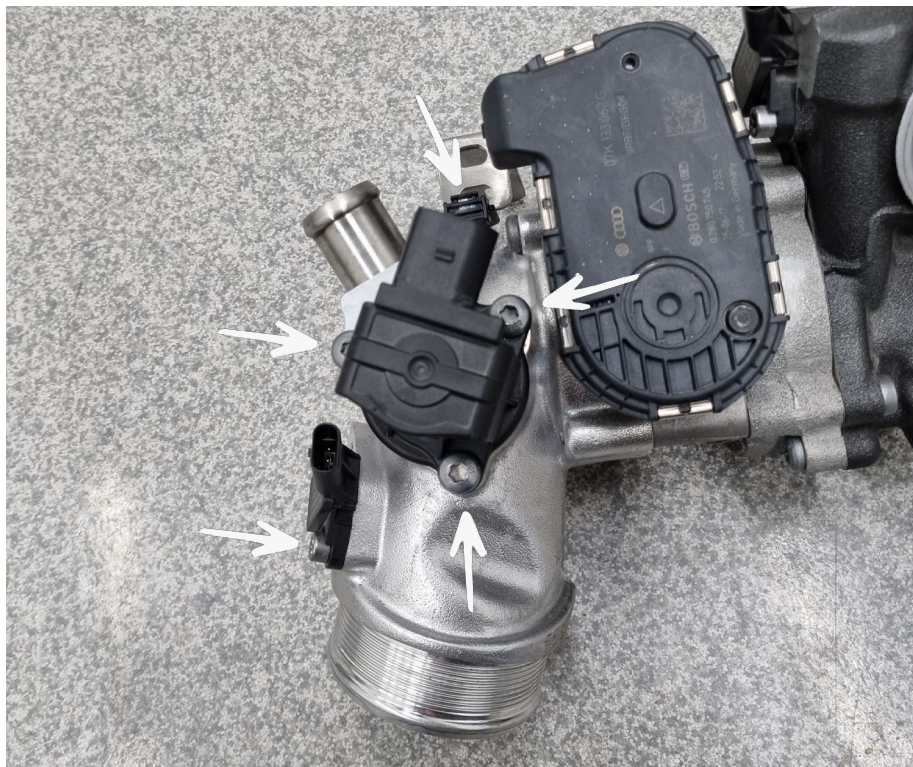
Step 14

Remove 5x 10mm hex screws.



Step 15

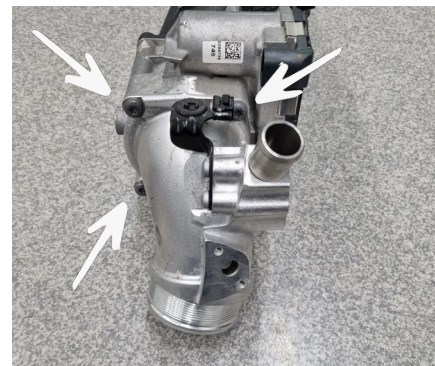
Slide the top part of the intake manifold upwards to release it from the tabs in the bottom, then take the upper part of the intake manifold out from the car.



Step 16

Remove 1x Torx T30 screw from the sensor and 3x Torx T30 screws from the BOV. Remove the rubber bushing for the engine cover.

Install the sensor and blow of valve on the do88 charge pipe pointing in the same direction as OE using the OE screws. Install the engine cover rubber bushing in the space for it on the do88 charge pipe.



Step 17

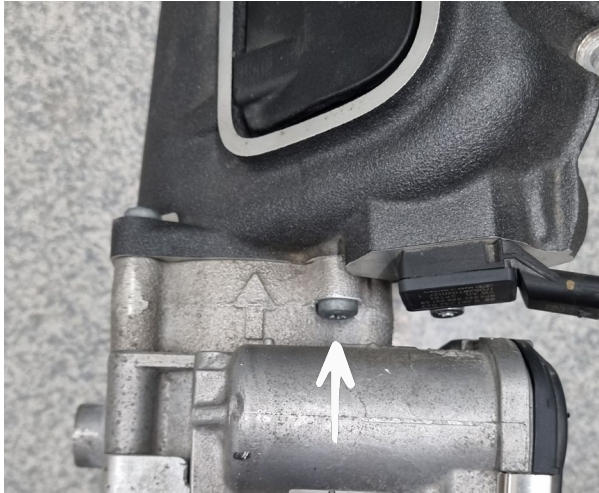
Remove 3x Torx T30 screws.



Step 18

Remove 1x Torx T30 screw.

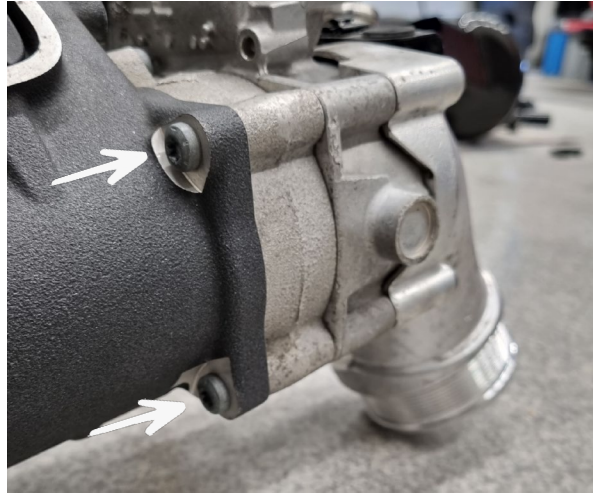
Remove cast elbow and throttle body from the intake manifold.



Step 19

This Step is only for install of do88 throttle body spacer (CP-130)

Remove 1x Torx T30 screw.



Step 20

This Step is only for install of do88 throttle body spacer (CP-130)

Remove 2x Torx T30 screws.



Step 21

This Step is only for install of do88 throttle body spacer (CP-130)

Remove 1x Torx T30 screw.

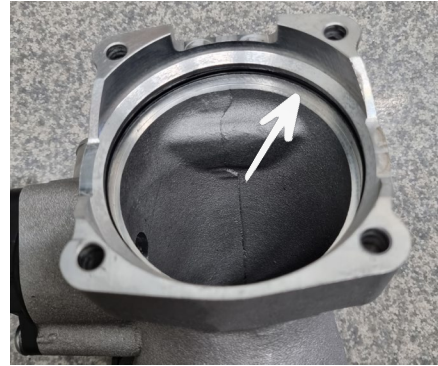
Remove the OEM adapter and re-install the do88 aluminum adapter.

It is recommended to replace the Gasket when installing the new adapter. Audi P# **07D 133 073 A**
Torque these screws to 9Nm (6.64 ft-lb)



Step 22

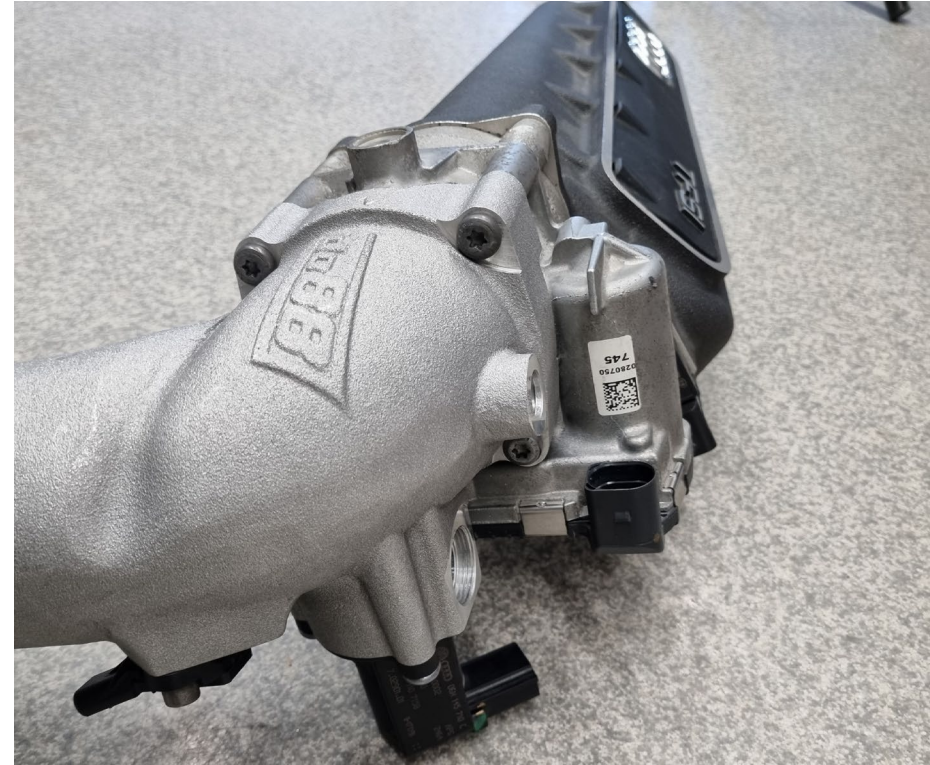
Separate the cast elbow and throttle body.



Step 23

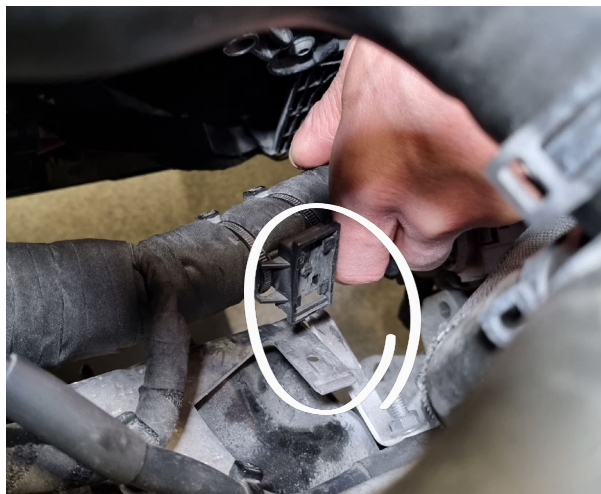
Remove the O-ring from the OEM cast elbow and install it in the do88 charge pipe.

Lube the o-ring and install the throttle body in the do88 charge pipe.



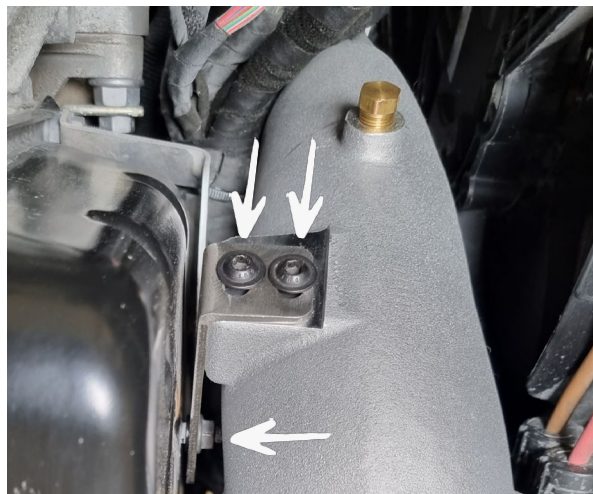
Step 24

Re-use the 4x OEM screws and install the do88 charge pipe to the intake manifold without tightening the screws.



Step 25

Disconnect this cable harness located above the gearbox oil pan, release its locking clip from underneath the car using a small flat head screwdriver.



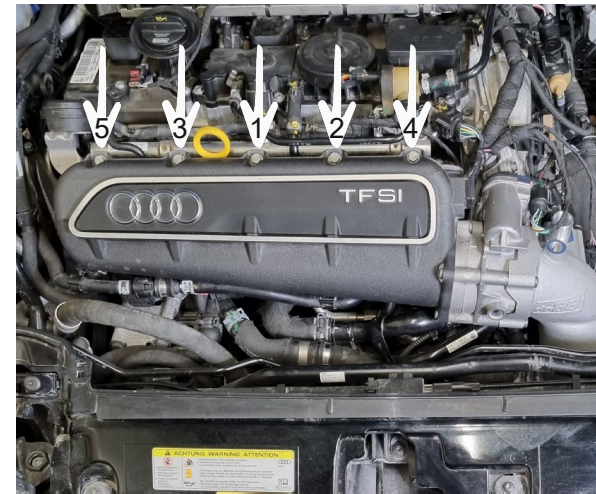
Step 26

Install the intake manifold and do88 charge pipe in the car and loosely secure the intake manifold with 2 screws.

Install the included bracket with 2x M6x12 screws and align the bracket to fit the OEM attachment bolt on the gearbox oil pan.

With the intake and charge pipe in the car, "rotate" the charge pipe until the bracket sits well to the oil pan. With charge pipe in this position tighten the 3 visible screws that holds the charge pipe and throttle body to intake manifold.

Then remove the intake manifold from the car to access the last screw underneath the intake manifold. Torque all 4 screws to 9Nm (6.64 ft-lb)



Step 27

It is recommended to replace the intake manifold gasket. Audi P# **07K 133 379**

Re-install the intake manifold and Torque the 5x screws to 9Nm (6.64 ft-lb) in the order marked on the picture. Do this step 2 more times, totally 3 times to complete the tightening process correctly.

Tighten the lower bracket between charge pipe and gearbox oil pan, re-use the OEM nut towards oil pan.



Step 28

Install the included O-ring on the machined adapter, lube the o-ring then install the machined adapter into the charge pipe.

Hand tighten it or use a soft jaw plier to prevent damaging the adapter.



Step 29

This step is only valid for ~MY19-> cars on some markets.

If the car have a BOV return hose of the type that is fastened to the OE inlet pipe with 2 screws you will need to use the included adapter set (machined adapter, two o-rings, brass plug). Install the plug and o-rings in the adapter according to picture. Then fasten the adapter to the turbo inlet pipe using the OE screws.

In this case the car will also have a small hose connected with banjo screws to the OE cast elbow and manifold. Remove this hose and its screws, then plug the connection on the manifold with the included plug and copper washer shown on picture above.



Step 30

Install the included BOV return silicone hose between the machined adapter and OE inlet pipe, secure with 2x included hose clamps. If you install with the do88 carbon fiber inlet system, use the hose supplied with that.

Re-install all other parts in reverse order.



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