

Installation instruction do88 performance Intercooler kit 911 TT (997.1) 2005-2008

Part number: ICM-230-1

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

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

Parts included:

1. Left side intercooler
2. Right side intercooler
3. Silicone hose Turbo to Intercooler left side
4. Silicone hose Intercooler to Y-pipe left side
5. Silicone hose Turbo to Intercooler right side
6. Silicone hose Intercooler to Y-pipe right side
7. Carbon fiber air guide left side
8. Carbon fiber air guide right side
9. 2pcs O-ring 41mm, 10pcs O-ring 50mm
10. Sealing 3x10mm
11. Sealing 8x2mm
12. Sealing 10x10m
13. 8pcs Hose clamps
14. 8pcs M8 screws, 2pcs M6 screws, 10pcs M8 washers and 2pcs Thread-locking fluid



do88
Performance

1. Loosen 2pcs Torx T25 screws from each rear light and then remove rear lights by pulling them rearwards from car. Disconnect cable by pushing contact lock tab and pull contact apart.



2. Remove 1pc Torx T30 plastic lock screws from the plastic clips on each side of the car located in the front of the space for the rear lights. Then pull out plastic clip.



3. Remove 4pc Torx T30 screws located on the top of the rear bumper.



4. Lift and secure the car so both rear wheels can be safely removed using a 19mm hex socket and socket wrench.

5. From each rear part of the rear inner fenders, Remove 5pcs Torx T25 screws and underneath one Torx T30 screw and then remove them from the car.



6. Remove 4pcs Torx T30 screws from the bottom of the rear bumper. Picture shows two of them, the other two are positioned in the same locations on the right hand side of the car.



7. Remove the Torx T30 in each wheel arch the holds the upper edge of the bumper from underneath.



8. This step should be performed with the help of an assistant.

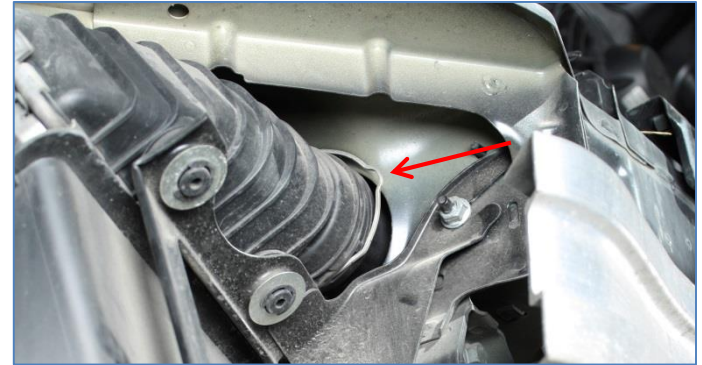
Remove the bumper from the vehicle by carefully pulling it rearwards.

If the car are equipped with PDC you have to unplug the connector to the sensors before bumper can be completely removed from the vehicle. For PDC vehicles, when bumper have some distance from the vehicle, disconnect the electrical connector by pressing its retainer clip and pulling apart.



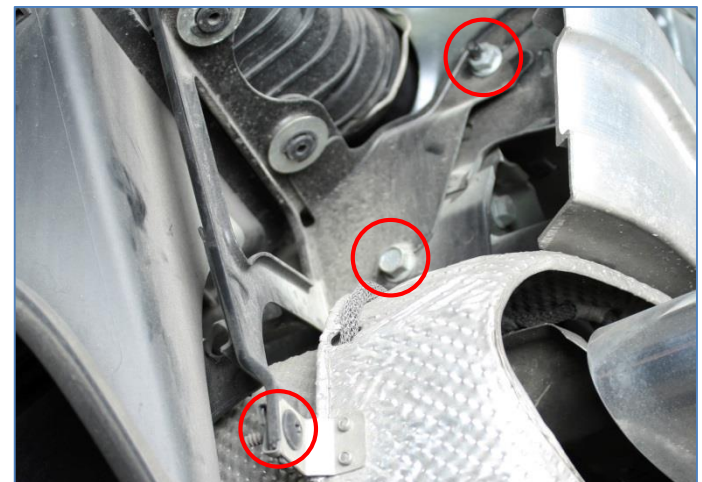
9. Loosen the intercooler outlet hose (upper) from intercooler on both sides by prying out the quick coupling lock clips with a flat screwdriver about 10mm.

Remove hoses from turbocharger outlet on both sides by loosening the hose clamps with a 7mm hex socket or 7mm hose clamp screwdriver and then remove hose from outlet. (Not on picture)

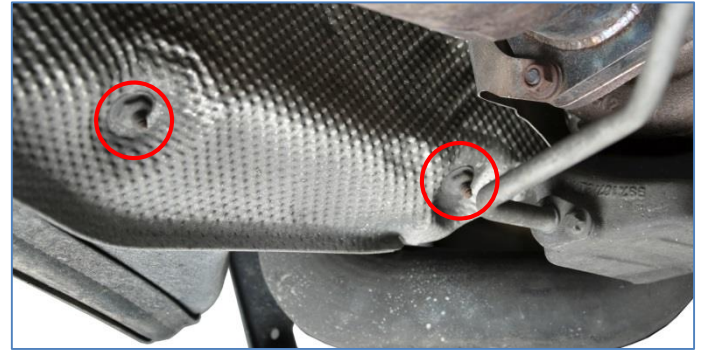


10. Before you perform this step, make sure to support the intercooler to prevent it from coming loose before you want it to.

From rear part of intercooler bracket on both sides, remove 1pc Torx T30 screw, 1pc 13mm hex screw and 1pc 13mm hex nut.



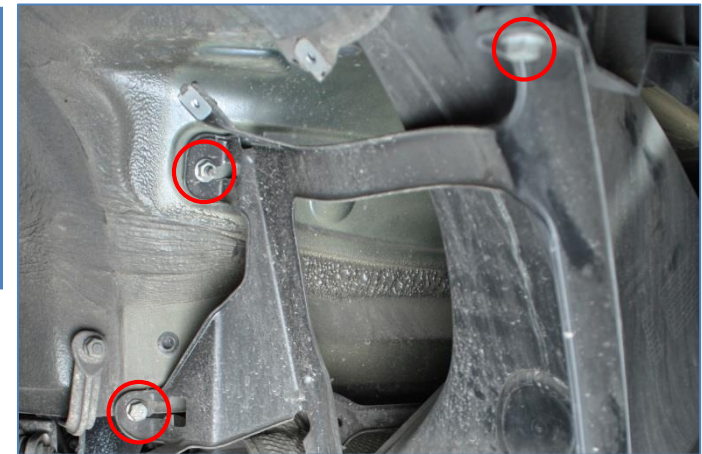
- 11.** On both sides, from underneath remove 2 pcs 13mm hex nuts holding the heat shield to the intercooler support frame.



- 12.** Remove 1x Hex 10mm screw on both sides.



- 13.** Remove the two 13mm hex screws and one 13mm nut that holds the front part of intercooler support frame.
- Now the intercooler assembly are loose and you remove it from the vehicle by moving it forward then pull the rear part out from the vehicle and remove the intercooler with support frame down/rearwards from vehicle. Do this with both intercoolers.

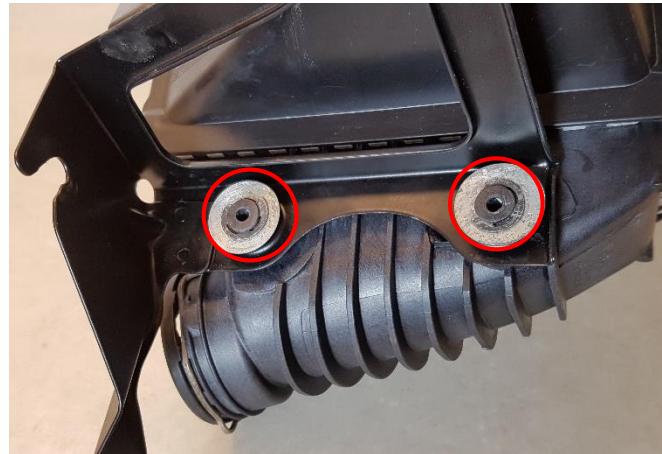


14. Remove the Y-pipe.
3pcs hose clamps
1pc cable connector

Also remove the air filter box. Loosen the two hose clamps to the turbo inlet pipes. Lift the air filter box straight up.



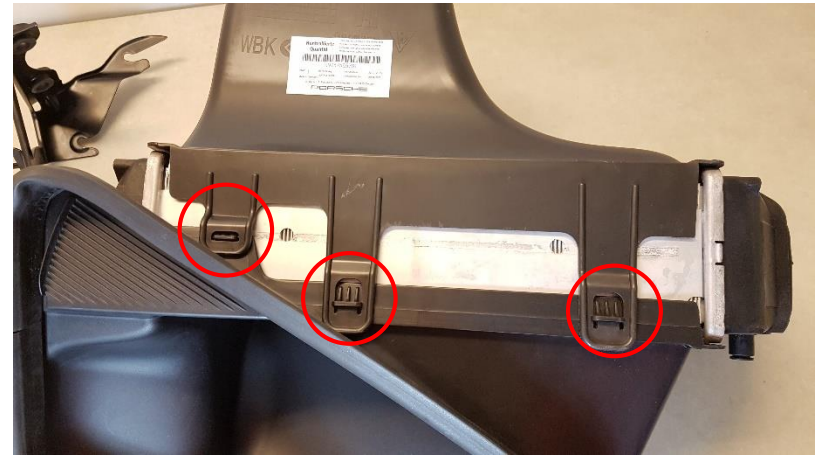
15. Remove the 4pcs metal C-clips from each intercooler that holds it in the support frame by prying the C-clip out of the groove in the original intercooler with a flat screwdriver. Then remove all 4 washers.



16. Now remove the intercooler from the support frame together with both air guides. First lift the back and then pull it backwards.



17. Split the intercooler inlet air guide by unclipping the 6 plastic fasteners that holds it to the outlet air guide with a flat screw driver.



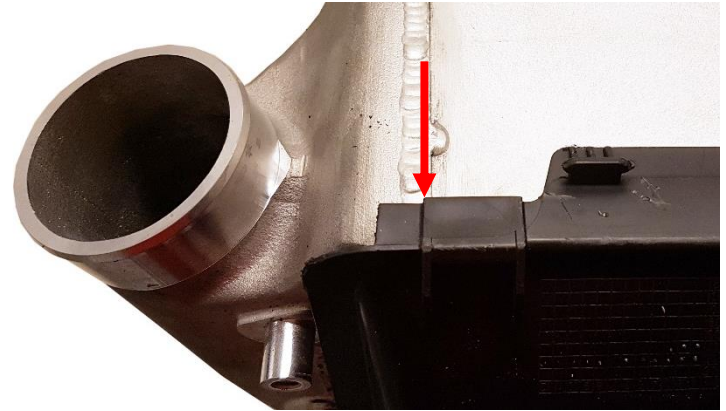
18. Cut / grind away all edges flat on both lower air guides.



19.

In the following two steps you will reshape the lower air ducting's to fit around the intercooler inlets.

Align the air ducting's in the position according to the photo.



20.

To shape the air ductings you will need a air heating gun.

While pressing the air ducting downwards onto the intercooler in the align position according to step 19.

Heat the plastic with the air heating gun until the air guide bottom sealing surface is in contact with the intercooler the whole way.

You will need to hold the air guide fixed for about 3-4 minutes until the plastic has cooled down.



21.

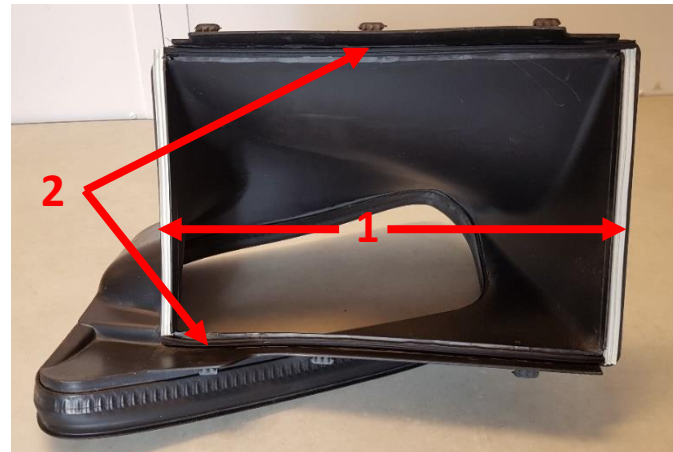
1 of the 6 plastic tabs lacks grooves, it is necessary to make 2 small cuts in this groove to be able to install the upper carbon fiber air duct. Make the cut similar as the other 5 tabs. Do this on both sides.



22.

Attach the included sealing on the lower air ducts. Do this on both sides.

1. 3x10mm
2. 2x8mm



23.

Attach the included 3x10mm sealing along all 4 edges on the carbon fiber air duct. Do this on both sides.



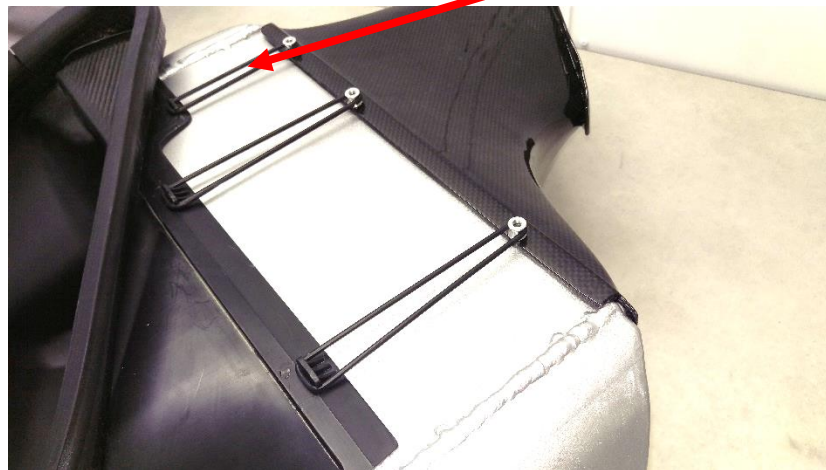
24.

Attach the included 10x10mm sealing along the top edge on the carbon fiber air duct. Do this on both sides.



25.

With the help of a friend carefully install both upper and lower air ducts onto the intercooler. Take your time to check that the sealings don't get twisted or damaged. Attach upper and lower air ducts together with the included O-rings. Note that you should use five large + one small O-ring per side.



26.

With the help of a friend carefully install the intercooler into the support frame.

It will help to put a little lubrication into the rubber bushings before you do this.

Install with the included M8x16 screws and large M8 washers. Put some of the included Thread-locking fluid onto each screw.



27.

Before the new intercoolers can be installed you will need to cut of one small bracket on each side. This bracket is not used on the Turbo models. It is used on none Turbo models for the exhaust heat shields. To mark out where to cut the bracket use some tape, as shown on the photo below. Then cut the bracket with a High Speed Metal Air Saw. Remember to put anti corrosion paint over the cut area.



28.

With the help of a friend re-install the intercooler support frame into the car on both sides. While doing this be careful not to damage the top sealing on the carbon fiber duct.



29.

Check if there is any gap in this location between air ducting and air channel. If there is a gap install some extra 10x10mm sealing in-between the carbon fiber air ducting and the air channel.



30.

Install both turbo outlet silicone hoses. Use the included hose clamp.



31.

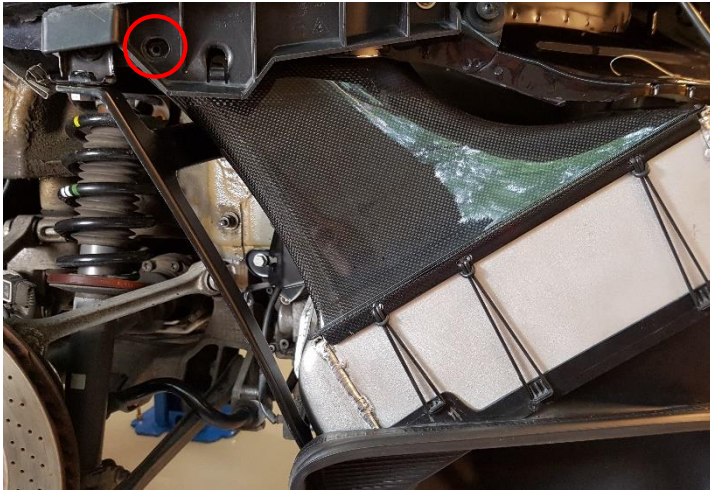
Install both intercooler outlet silicone hoses. It is easier if you put the hose clamp on the intercooler outlet before pushing on the silicone hose.

Don't tighten the hose clamp yet. You must angle the hose into right position towards the Y-pipe first.



32.

Tighten the bumper bracket with the included M6x12mm screws. Do this on both sides. The OEM screws are too long and will damage the carbon fiber air duct.



33.

Re-install the air filter box and install the Y-pipe. Align the intercooler outlet hoses into a good position and then tighten all the hose clamps.



34.

Install all other parts in reverse order.