



Installation Instruction

Performance Intercooler

PORSCHE

Porsche 911 Turbo

996 99-05

PART NUMBER: ICM - 410



Description

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

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

Parts List

- 2pc do88 Performance Intercooler Left and Right
- 2pc do88 Performance Intercooler Air Guides Left and Right
- 4pc do88 Performance Silicone Hoses
- 8pc do88 Black Hose Clamps
- 3pc do88 Foam Strips
- 8pc do88 "8"- Clip
- 8pc do88 O-rings
- 8pc do88 Aluminum intercooler Bushings
- 2pc OEM Y-Pipe adapters (only included for OEM Y-Pipe)
- 8pc M8 Bolts

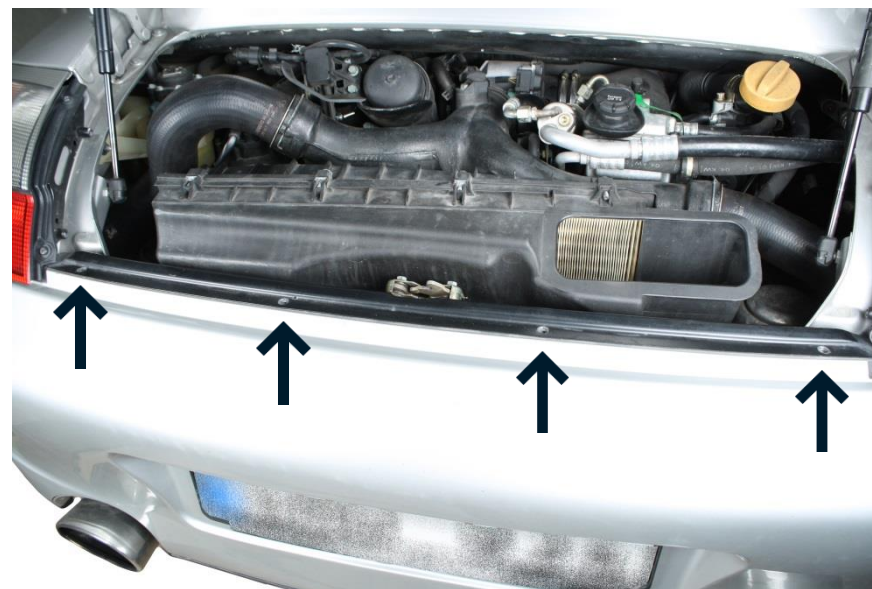
Step 1

Lift car and remove rear wheels.



Step 2

Loosen 2pcs Philips 2 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.



Step 3

Remove 4pcs Philips 2 screws located on the top of the rear bumper. Remove the metal bracket.



Step 4

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

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



Step 5

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

On both sides pull the bumper cover out from the fender to loosen the plastic clips that holds it in place.

Now remove the bumper from the vehicle by carefully pulling it rearwards about 15cm.

When bumper have some distance from the vehicle, disconnect the electrical connector to the license plate lightning by pressing its retainer clip and pulling apart.



Step 6

From each rear part of the rear inner fenders, Remove 4pcs Torx T25 screws and 2pcs plastic Hex 10mm nuts and then remove them from the car.



Step 7

Remove all the intercooler hoses (4pcs). All hose ends have clips except on the turbo outlets (Hex 7mm).

Remove the clips by prying out the quick coupling lock clips with a flat screwdriver about 10mm. Then pull the hose out from the connections.



Step 8

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

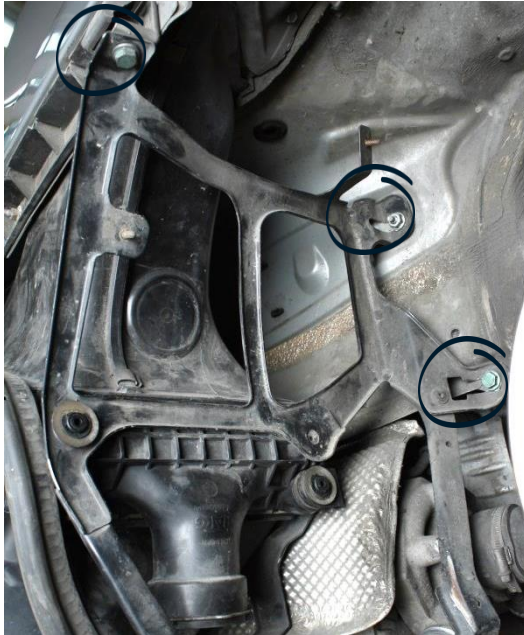
From rear part of intercooler support frame on both sides, remove 1pc Torx T25 screw, 1pc 13mm hex screw and 1pc 13mm hex nut.



Step 9

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

Gently bend the heat shield downwards away from the screws.



Step 10

From front part of the intercooler support frame on both sides remove the two 13mm hex screws and one 13mm nut .

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.



Step 11

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.

Now remove all 4 washers and then remove intercooler from support frame together with the air guides.



Step 12

From both intercoolers, remove the intercooler inlet air guide by unclipping the 6 metal fasteners that holds it to the outlet air guide with a flat screw driver



Step 13

To fit the do88 performance intercoolers you need to modify the air guides by grinding down the small edges pointing towards the core according to picture in the lower air guides. (This needs to be done along every edge on both lower air guides)



Step 14

After you have made the cuts the air guides needs to be heated in the marked areas and then pressed against the bottom of the intercooler to mold after each other.



Step 15

Grind down the intercooler support frame on both sides as shown in the picture to make room for the intercooler.

Apply Epoxy lacquer on the bare surface.



Step 16

Insert the aluminium bushings in the intercooler support frame, 4pcs a side.

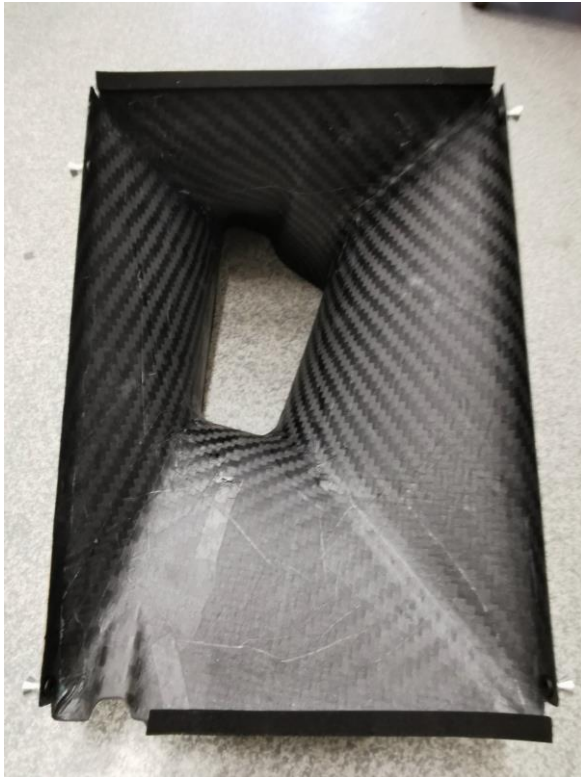
Install with the larger end outwards away from the intercooler.



Step 17

Cut the included foam strips and mount to the carbon fiber top air guide.

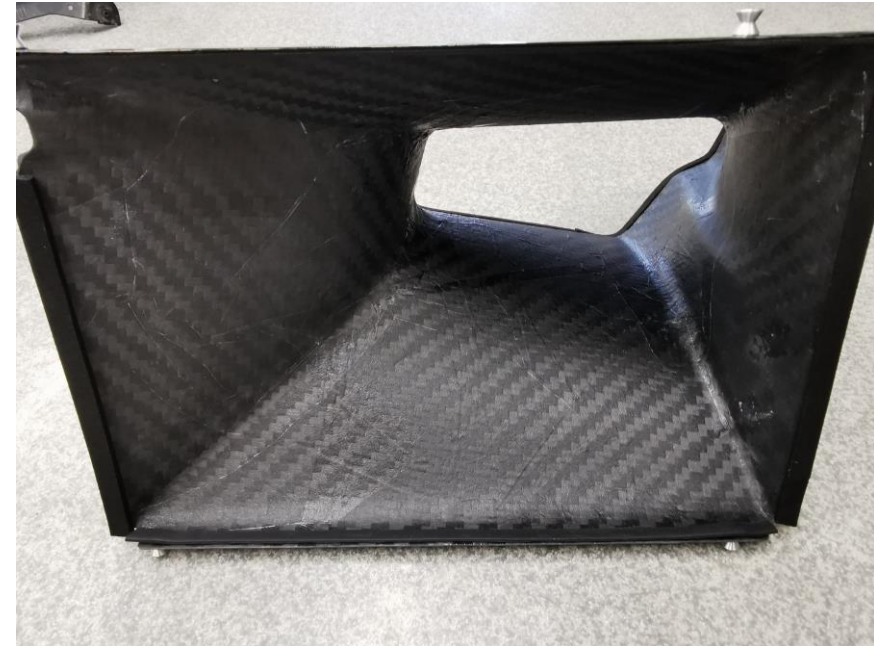
Use the 5x10mm (130cm) and cut into 2 x 65cm pcs and mount to the top part (Shown in picture) towards the car on both the air guides.



Step 18

Cut the included foam strips and mount to the carbon fiber top air guide.

Use the 5x10mm (80cm) and cut into 2 x 22cm pcs and 2 x 18cm pcs and mount the 18cm pcs on the short side with the notch. The 22cm pcs are use on the opposite short side.



Step 19

Cut the included foam strips and mount to the carbon fiber top air guide.

Use the 2x8mm (128cm) and cut into 4 x 32cm pcs and mount to the 2 long sides of both air guides.



Step 20

When mounting the intercooler into the support frame start by laying the bottom air guide in place. Then take the intercooler and place it on top and fasten it with the included m8 bolts through the aluminum bushings.

Put the carbon fiber air guide on top and mount it with the included o-rings and "8"-Clip shown in picture (Same on both sides of intercooler).



Step 21

Mount the brackets into the car reversed as you took it out.

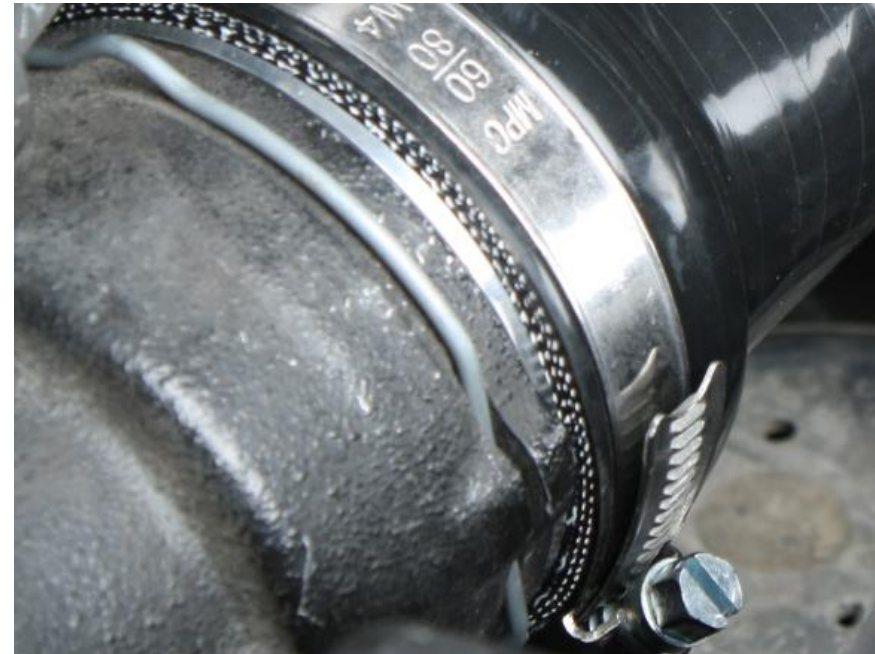
And use a knife to cut a relief in the rubber sealing.



Step 22

This step is only performed when installing with OEM Y-Pipe.

Gently remove the stock O-ring seals from the stock intercooler hose ends towards the Y-pipe. Make sure the O-rings does not get stretched while removing them. Install the O-rings on the do88 coupling adaptors. Make sure the O-ring does not get twisted while re-installing it on the do88 coupling adaptors.



Step 23

This step is only performed when installing with OEM Y-Pipe.

Install the do88 coupling adaptors into the Y-pipe on both sides. At first install them without the locking clip. After they are pushed into the bottom then reinstall the locking clips and make sure it holds the adaptor safely.



Step 22

Install all parts in reverse order except for the hoses which you install like described below.

Install all 4 supplied silicone hoses with the 8pcs supplied hose clamps in their positions. Make sure they are clocked in the right orientation. Tighten all hose clamps to 5 Nm.

On both sides, make sure the turbo outlet hoses don't interfere with the lower inner fender bracket.



Step 23

When everything is back in place make sure the turbo-out hoses don't interfere with the inner wheel guard.

If they interfere follow the two next steps.



Step 24

Heat the bottom part of the wheel guard evenly for 20sec.



Step 25

Pull it down gently and place a piece of cardboard to space it out.
Let it cool down before you remove it and enjoy the ride!



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