



# Installation Instruction

Performance Y-pipe

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PORSCHE

Porsche 911 Carrera (991.2)

Carrera / Carrera S / Carrera GTS / Carrera 4 / Carrera 4S / Carrera 4 GTS

PART NUMBER: TR-450

## Description

This instruction shows how to replace the OE Y-pipe with do88 performance Y-pipe.

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 Porsche 911 Carrera 4S (2017) and the procedure for removal of panels and covers will differ a bit if the install is carried out on any other model this product fit.

## Parts List

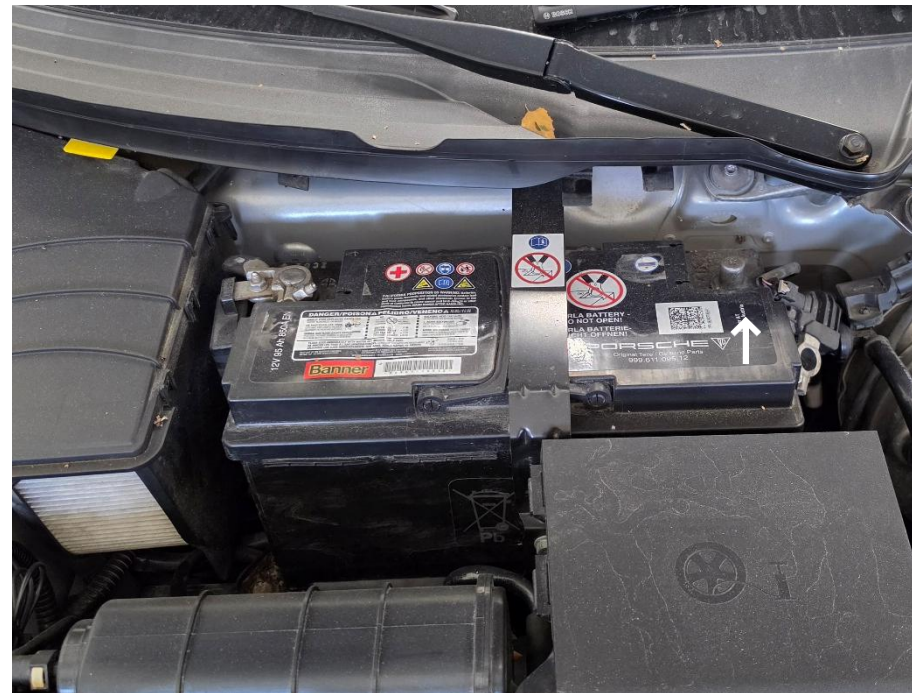


1. Performance Y-pipe
2. Silicone hose do88 intercooler (ICM-510) to Y-pipe (Right)
3. Silicone hose do88 intercooler (ICM-510) to Y-pipe (Left)
4. Silicone hose non return valve
5. Silicone hose non return valve
6. Non return valve
7. Aluminium hose fitting
8. Brass hose fitting
9. Plastic hose fitting
10. 1/8 NPT blanking plug (2pcs)
11. M5x12 screw
12. Hose clamp 50-70mm (2pcs)
13. Hose clamp 14-15mm (2pcs)
14. Hose clamp 15-17mm (2pcs)



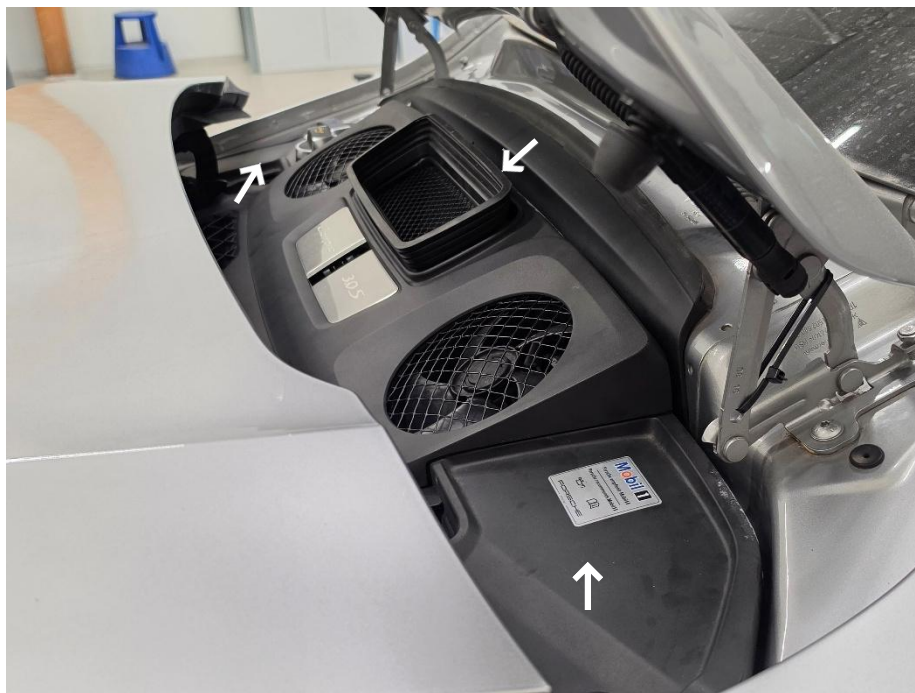
## Step 1

Raise the vehicle and remove both rear wheels. Open the engine lid and raise the rear wing.



## Step 2

Disconnect the battery negative terminal.



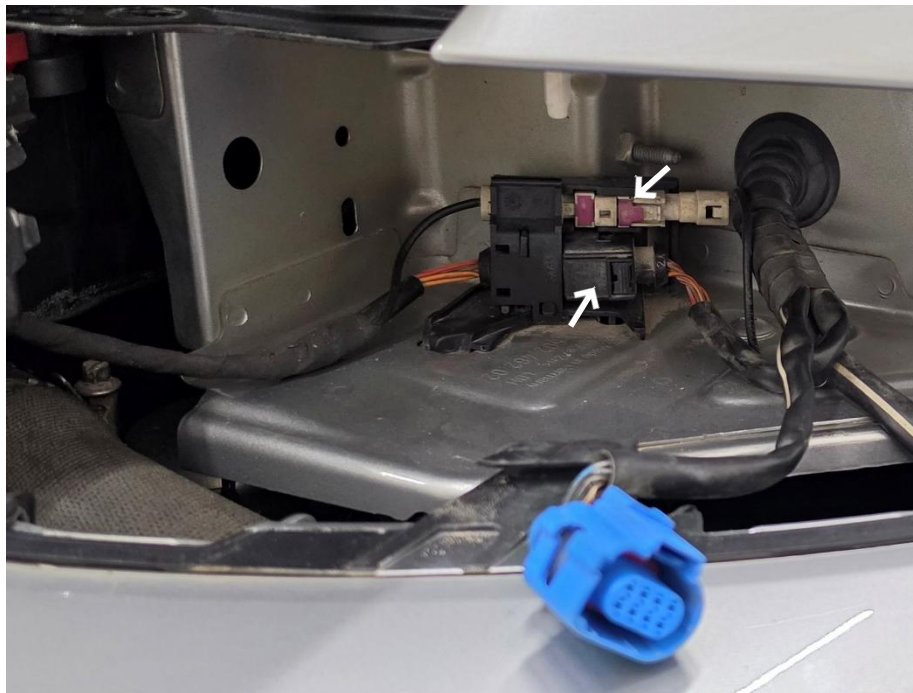
### Step 3

Remove the three engine covers, starting with the larger center cover. To remove the left cover, first remove the oil and coolant caps.



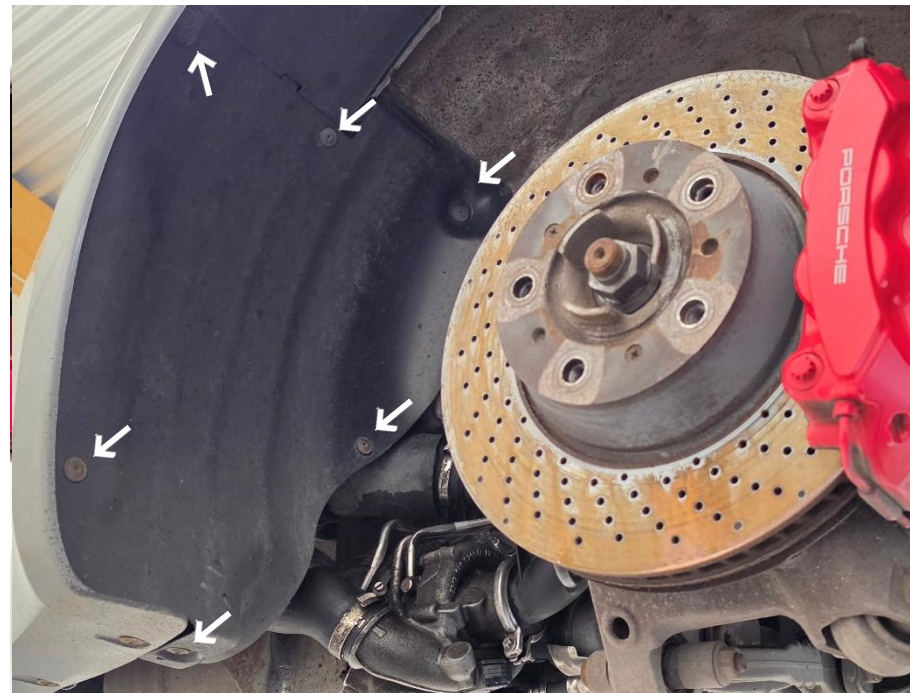
### Step 4

Remove both tail lights by removing the two T25 Torx screws, then pull the light straight rearward and disconnect the electrical connector.



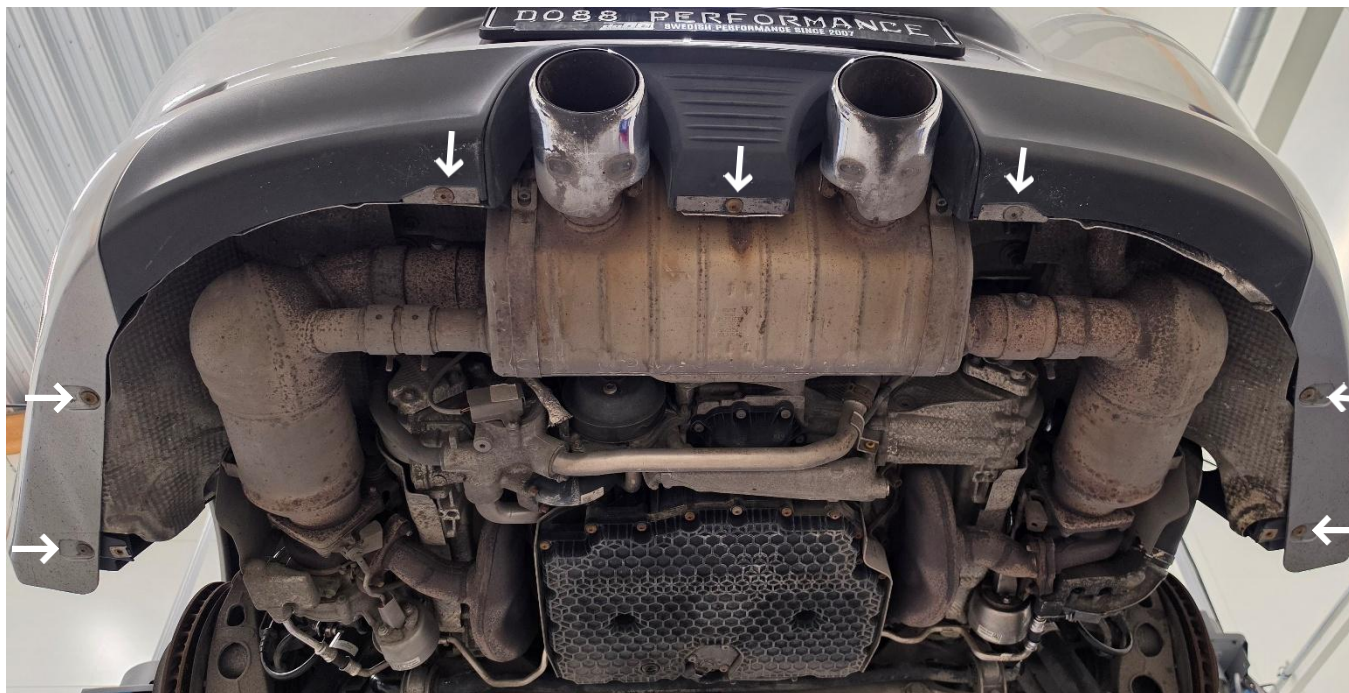
## Step 5

Disconnect the rear bumper electrical connectors. There are two on the right side and one on the left, located in the tail light openings.



## Step 6

Remove the inner wheel arch liners on both sides. Each liner is secured with five T25 Torx screws and one T30 Torx screw underneath.



## Step 7

Remove the seven T30 Torx screws along the bottom edge of the bumper.



## Step 8

Remove the two T30 Torx screws inside each wheel arch.



## Step 9

Remove one Torx T30 screw on each side.



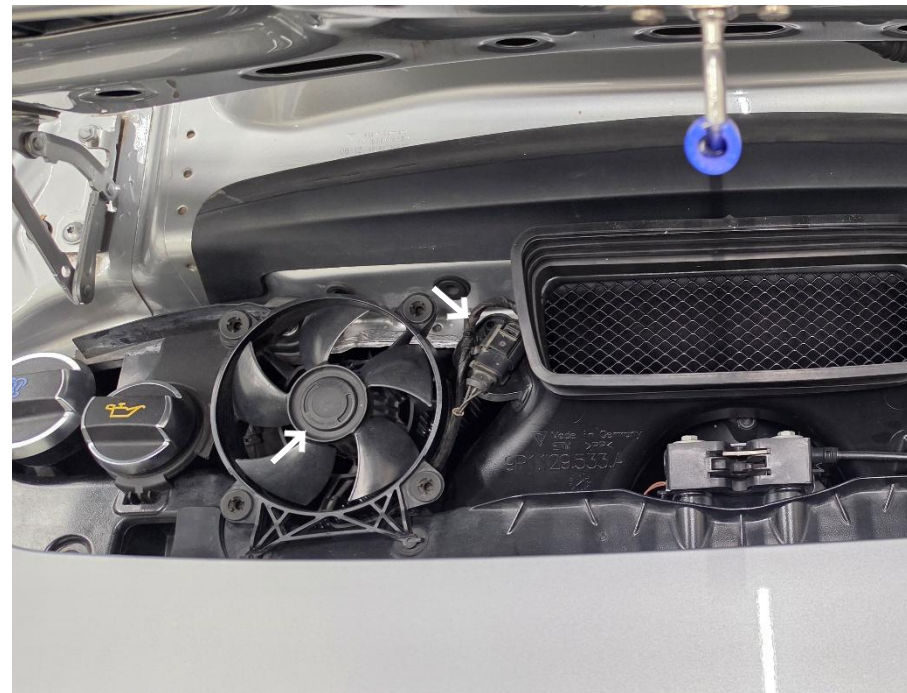
## Step 10

Remove the four T25 Torx screws from the top edge of the bumper.



## Step 11

Gently release the front edge of the bumper from the fender on both sides, as shown in the photo. Then remove the bumper from the car.



## Step 12

Disconnect the fan electrical connector, then remove the fan. Repeat on both sides.



## Step 13

Release the radiator cap bracket by removing the 10 mm hex screw and plastic clip. Also release the fan wiring clip from the air duct on both sides.



## Step 14

Remove the two T45 Torx screws securing the spoiler mechanism on both sides. Then remove the spoiler mechanism.



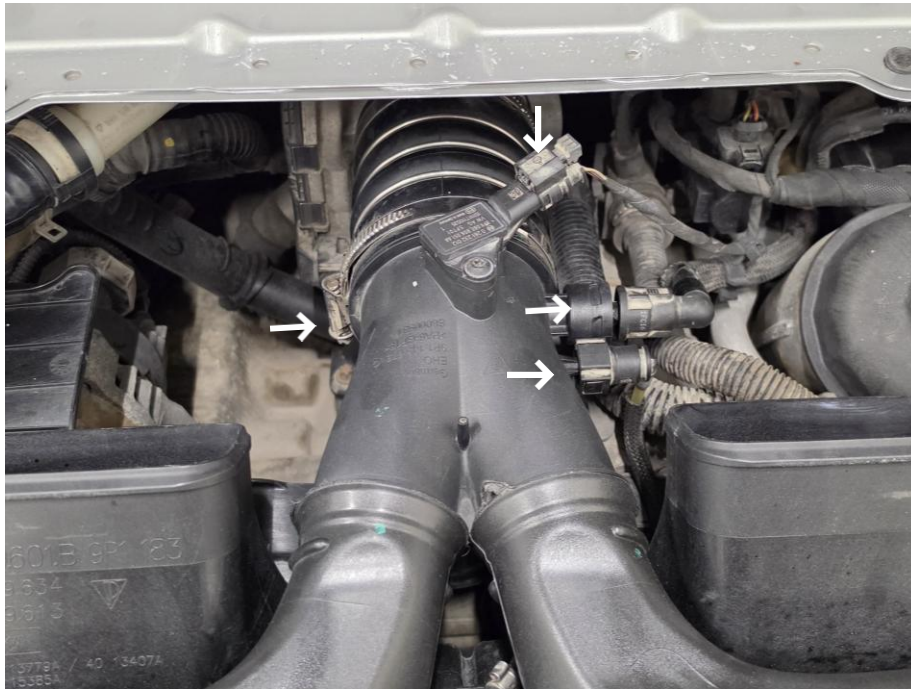
## Step 15

Remove both intercooler fresh-air ducts.



## Step 16

Remove air filter fresh-air duct.



## Step 17

Disconnect the sensor cable connector, the two hose connections on the right side, and finally loosen the throttle body hose clamp.



## Step 18

Loosen the hose clamps and pull the hoses off the intercooler and symposer connections.

Repeat on both sides and then remove the Y-pipe from the car.



## Step 19

Remove the sensor from the OE Y-pipe by removing the Torx T25 screw, then install it in the do88 Y-pipe using the included M5x12 screw.



## Step 20

Install the two supplied 1/8 NPT brass plugs in the two front connections, one on each side, as shown in the photo.

**Important:** Lubricate the plugs with WD-40 or a similar lubricant before threading them in **by hand**. Tighten them using a 5 mm Allen key until approximately **2-3** threads remain visible. Do not overtighten, as this may damage the threads, crack the aluminum, or break the plugs.



## Step 21

Install the supplied plastic hose fitting in the left-side connection, as shown in the photo.

**Important:** Lubricate the plastic fitting with WD-40 or a similar lubricant before threading it in **by hand**. Tighten it using an 11 mm hex socket until approximately 4–5 threads remain visible. Do not overtighten, as this will crack the plastic!



## Step 22

Assemble the parts as shown in the photo using the two silicone hoses, non-return valve, aluminum hose fitting, two 14–15 mm hose clamps, and two 15–17 mm hose clamps.

Use the 14–15 mm hose clamps on the straight silicone hose.

**Important:** The arrow on the non-return valve must point toward the aluminum hose fitting.



## Step 23

Install the hose assembly from the previous step onto the plastic fitting, as shown in the photo.



## Step 24

Install the Y-pipe into the car.



## Step 25

If installing the Y-pipe together with do88 intercoolers (ICM-510), install the supplied intercooler silicone hoses. Use the supplied 50–70 mm hose clamps at the Y-pipe hose connections.

If installing the Y-pipe with the OE intercooler hoses, preheat the hoses with a hot air gun and lubricate them with WD-40 or a similar lubricant before pushing them onto the Y-pipe hose connections.



## Step 26

Reinstall all remaining parts in reverse order.



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