



# Installation Instruction

Performance Plenum

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**PORSCHE**

Porsche 911 Turbo

996

PART NUMBER: TR-370



## Description

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This instruction shows how to replace the OEM Plenum with do88 performance Plenum and 997.1 Turbo Throttle body **which is not included** in this kit and must be purchased separately (OEM part number 99760511500). After installing this part, you will need to recalibrate the engine management software for optimal functionality.

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

## Parts List

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- 1pc do88 Performance Plenum
- 5pc do88 Performance Silicone hoses
- 1pc O-Ring
- 9pc Hose Clamps
- 1pc Back pressure valve
- 4pc Screws



## Step 1

Disconnect the hoses from the charge pipe (y-pipe) they are retained by c-clips.

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



## Step 2

Remove Charge pipe fastening screws (3pcs 10mm Hex indicated by arrows).

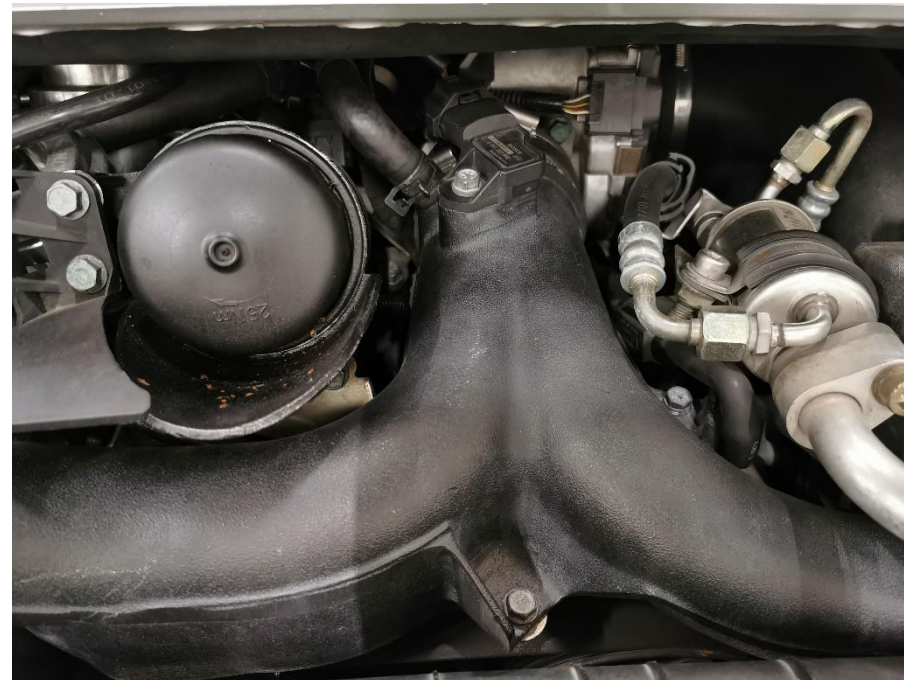
Then loosen the 13mm Hex head screw that holds the airbox (Indicated by the circle).



## Step 3

Disconnect the air mass meter electrical connector and loosen the airbox hose clamp. Then rotate the airbox counterclockwise to remove it from the car

Disconnect the diverter valve (spring clamp) hose from the charge pipe.



## Step 4

Disconnect the intake air temp sensor and remove it by unscrewing the 10mm Hex bolt.

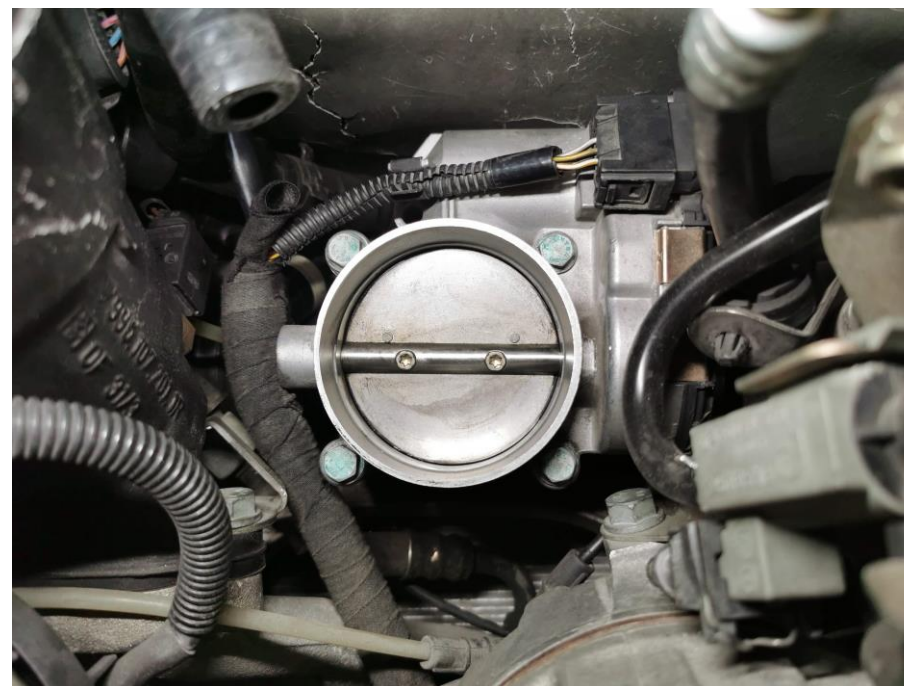
Now you can disconnect the crankcase breather hose and loosen the throttle body hose clamp.





## Step 5

Now pull the charge pipe gently back until it loosens from the throttle body. Then disconnect the vacuum hose from the charge pipe before you remove it entirely.



## Step 6

Disconnect the throttle body electrical connection and remove the 4x10mm Hex screws to remove the throttle body.



## Step 7

Disconnect the three vacuum lines to the left of the throttle body flange from the plenum. The vacuum line with the back pressure valve is preferably removed during installation, the other two is easily moved to the side to give space.



## Step 8

Remove the hose that in connection on the right side of the "tower" on the plenum.



## Step 9

Loosen the front left hose connected to the "tower" on the plenum, bend it rearwards then rotate it out and up from engine bay.

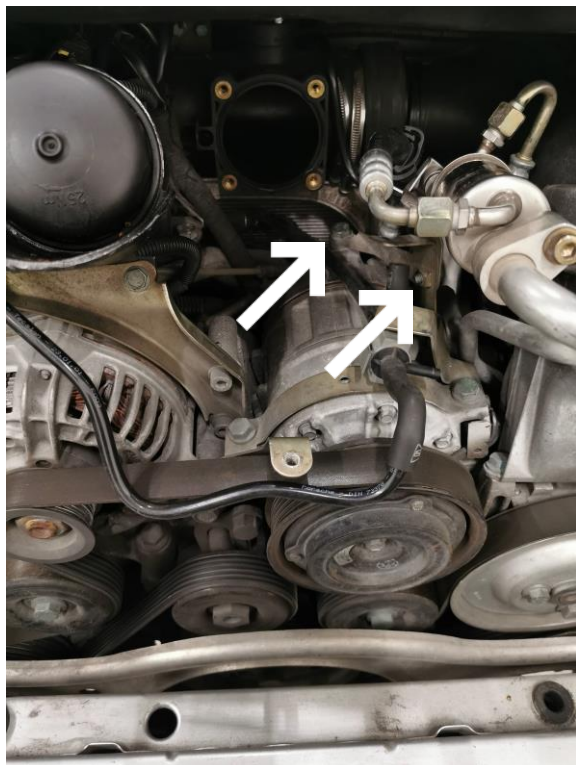
To give a bit more space, disconnect the oil pressure electrical connection, then unplug the evap hose and disconnect the vacuum line between the diverter valves.



## Step 10

Now you can disconnect the evap from the car and remove the last hose connected to the "tower" on the plenum.





## Step 11

Remove the P-clip holding the AC-Accumulator. Then remove the bolt located on the back of the AC-Compressor 13mm Hex and the 10mm Hex under the Accumulator. Separate the pressure valve from the bracket. The hose connected to the bottom of the pressure valve needs to be disconnected and moved to the side to remove the plenum.



## Step 12

Now loosen the 4 hose clamps holding the plenum to the intake manifolds and slide the hoses on to the plenum. Now there should be enough room to remove the stock plenum and later install the do88 plenum.





## Step 13

In preparation for the installation, you need to loosen the hose clamps holding the two intake manifolds together (2 on the left and 2 on the right). This is necessary to do because it might have to be rotated so it clears the plenum.

Put the plenum in approximately the right place and make sure the brace is orientated so it runs in the groove in the bottom of the do88 Plenum. Secure the brace in place again by tightening the hose clamps.



## Step 14

Before you install the plenum, you need to mount the original hoses on the Plenum.

Slide the hoses onto the plenum as far as possible without the lip in the hose sitting in the groove and loosely secure it with one of the clamps according to the picture.

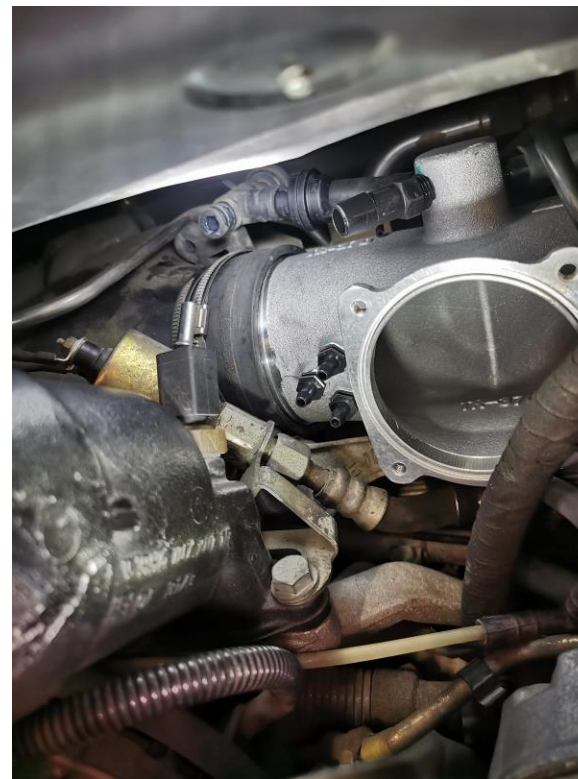


## Step 15

Put the do88 Performance Plenum into the car.

When it's in place start with one side and loosen the hose clamp and slide the hose onto the intake manifold, make sure it's seated in the grooves all the way around before you start with the next side.

Aid on how to seat the hose in next step.



## Step 16

To seat the hose correctly the easiest way is by rotating it. Hold the hose still on the manifold with your hand and rotate the plenum, then hold the hose still on the plenum and keep rotating. Keep doing this and push the hose onto the manifold until it seats correctly. Then secure it on the manifold side only with a hose clamp and seat the hose on the opposite side in the same manner.



## Step 17

Now make sure both hoses sit as they should, and all the 4 hose clamps are in their groove and tighten them to 5Nm.

Then connect the included hoses like shown in next step onto the tower and secure with included clamps.

(In picture above the hose between back pressure valve and tower is slightly folded, if this occurs, shorten the hose a tad to solve this).



## Step 18

This step shows the position for the included hoses without the plenum in place to make it more visible.

The hose with slightly smaller inner diameter is located on the left.

And the two hoses with slightly larger inner diameter is on the right (shorter one between car and back pressure valve and the longer one then connects to the tower).

Make sure the arrow on the back pressure valve point towards the plenum or there will be a loose of Fun juice.





## Step 19

Start mounting the hoses to the plenum in reverse order from how they were removed. Use included hose clamps for all new hoses. Make sure all the clamps are secure and seated correctly before next step.



## Step 20

Mount the included O-ring and fasten the 997.1 Turbo Throttle body (not included with do88 Plenum) with included bolts and connect wire harness.

Then install the Charge pipe of your choosing.

- do88 charge pipe utilize the longer hose included
- OEM charge pipe utilize the shorter hose included





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