

# **MANTHEY - RACING**



## **Installation manual**

### **Balance bar adjuster**

**Version\_V1\_2017/06**

**MANTHEY - RACING**

**Cayman GT4 Clubsport**

## Warnings and safety instructions

The warning notes and safety instructions are classified by the respective signal word (Danger, Warning, Caution) beside the warning symbol.



Warns against death or very serious injury which will certainly occur if the instructions are ignored.



Warns against death or very serious injury which may occur if the instructions are ignored.



Warns against minor injury if the instructions are ignored.

**NOTE**

Warns against damage to property if the instructions are ignored.

## General safety notes



Danger of injury and risk of accidents during and after work on the vehicle

- Chapter 0 of the Technical Manual version 2 describes the service work and repairs that must only be carried out by qualified and suitably trained personnel.
- Repairs are only to be carried out when access to the Workshop Manuals in the PIWIS information system is also available.
- Pay attention to safety instructions.
- Pay attention to the Workshop Manuals for the Cayman GT4 series car in the PIWIS information system.



Falling vehicle

Squashing or crushing

Damage to the vehicle

- Avoid placing solid objects under the raised vehicle.
- Ensure that the lifting platform is prevented from lowering.
- Remove solid objects before lowering the vehicle.
- Lift the vehicle only at the jacking points provided.
- The outer jacking points should primarily be used.



Incorrect handling of safety bolts

Injuries

Loss of torque

- Always use new fastening screws and nuts following removal.
- Observe specified tightening torques.
- Carry out a visual inspection of all parts used.

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**Cayman GT4 Clubsport**

## Cayman GT4 Clubsport



### WARNING

Working with compressed air

Eye injuries

Damage and dirtying of components

- Wear protective goggles with side eye protection.
- Protect the point where the compressed air emerges with suitable material.
- Place the point where the compressed air emerges on a suitable surface.



### WARNING

Toxic exhaust gases

Danger of suffocation

- With the engine running, position the exhaust gas removal system behind the vehicle's exhaust pipes and switch it on.



### WARNING

Danger of objects or loads falling down

Squashing or crushing

- Secure components to prevent them from falling down.



### WARNING

Airborne foreign bodies during grinding, drilling and milling

Risk of eye injuries

- Wear protective goggles.



### WARNING

Non-heat resistant materials

Fire

- Avoid contact with hot components or sources of ignition.



### Caution

Pointed or sharp objects

Cracks, pricks or cuts

- Wear personal protective equipment.



### Caution

Hot components

Risk of burns

- Let hot components cool down.
- Wear personal protective equipment.





## Caution

Heavy components

Risk of squashing

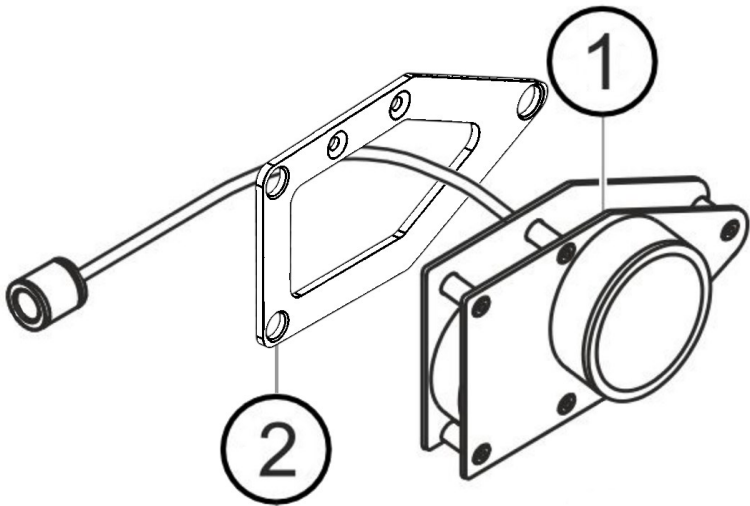
- Wear personal protective equipment.
- Get someone to help if necessary.

**Pay attention to the Workshop Manuals for the Cayman GT4 road car !**



**Cayman GT4 Clubsport**

Cayman GT4 Clubsport



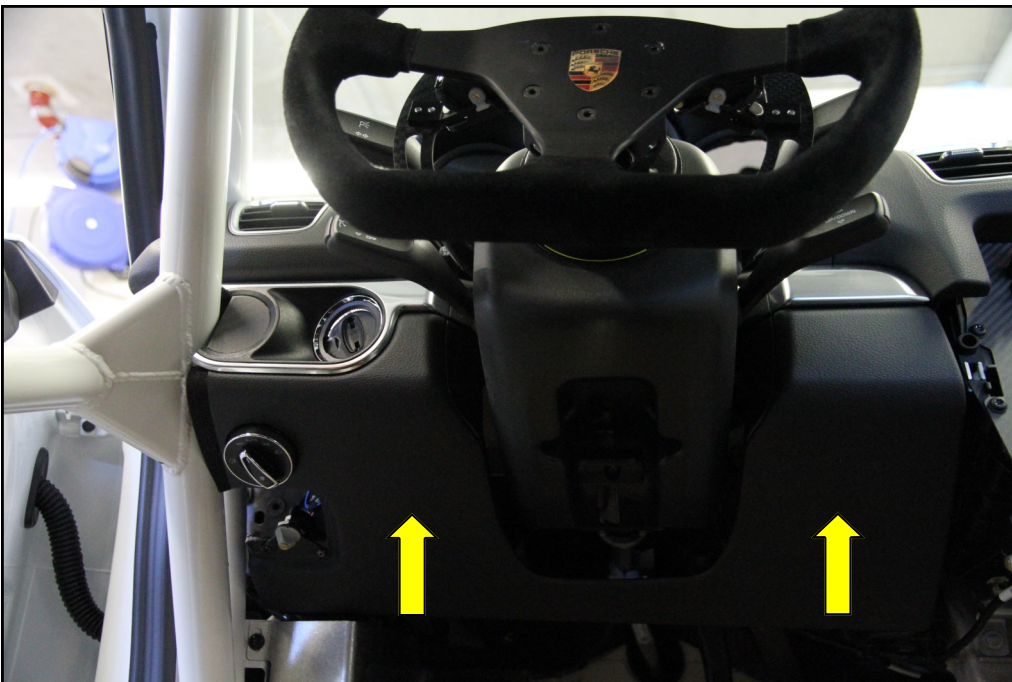
pos.	article	m	pc.	part number
1	brake balance adjuster		1	MTH641809
2	holder brake adjuster		1	MTH641811
o.A.	direction of rotation sticker		1	-
o.A.	M4 countersunk rivet nut		3	-
o.A.	6mm grommet for 10mm drilling		1	-
o.A.	3x12mm rivets		2	-
o.A.	cable ties incl.retaining clip		2	-
o.A.	intermediate length cable ties		1	-
o.A.	long cable ties		2	-
o.A.	short cable ties		2	-

## Cayman GT4 Clubsport

### Step 1:

- ↓ Remove the paneling beneath the steering wheel according to the Porsche specifications.






**Pay attention to pipes that are mounted to the paneling. The pipes of the fire extinguishing system have to be loosened at the T-piece. The other pipes can be dismantled by opening the cable ties.**

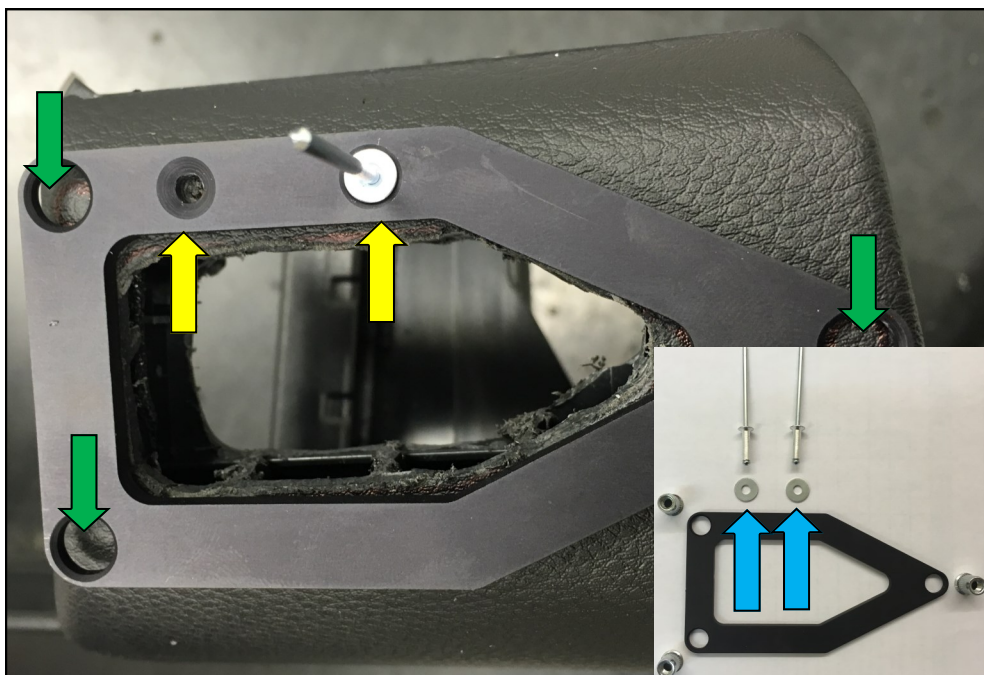
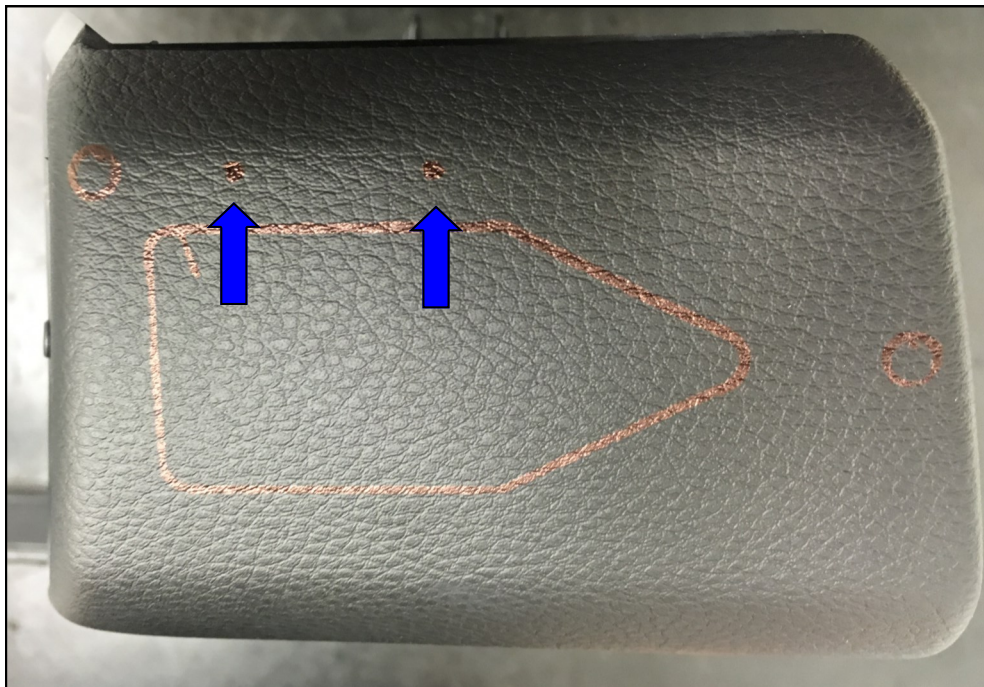
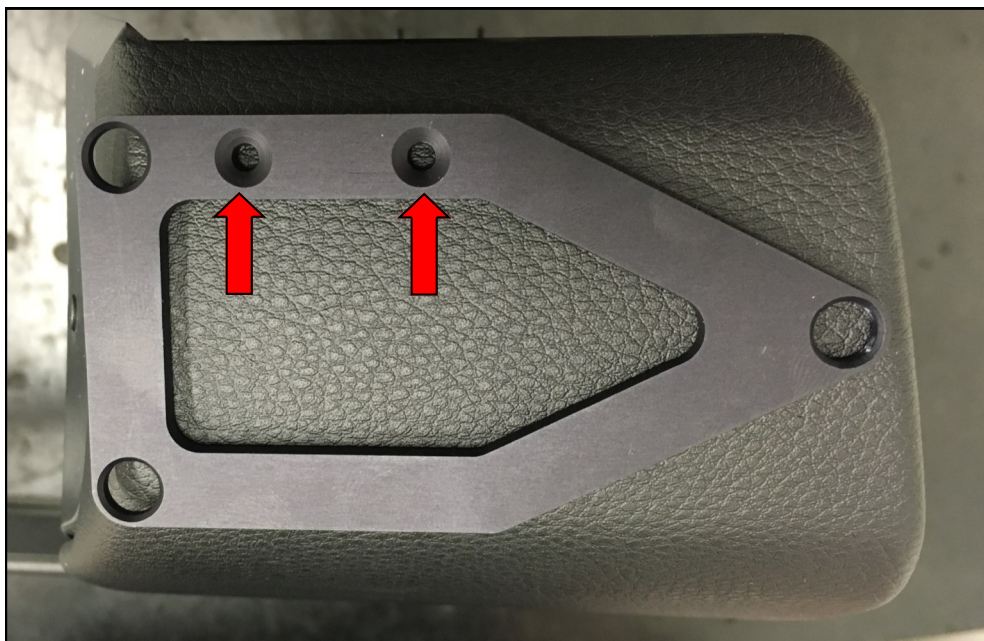




## Cayman GT4 Clubsport

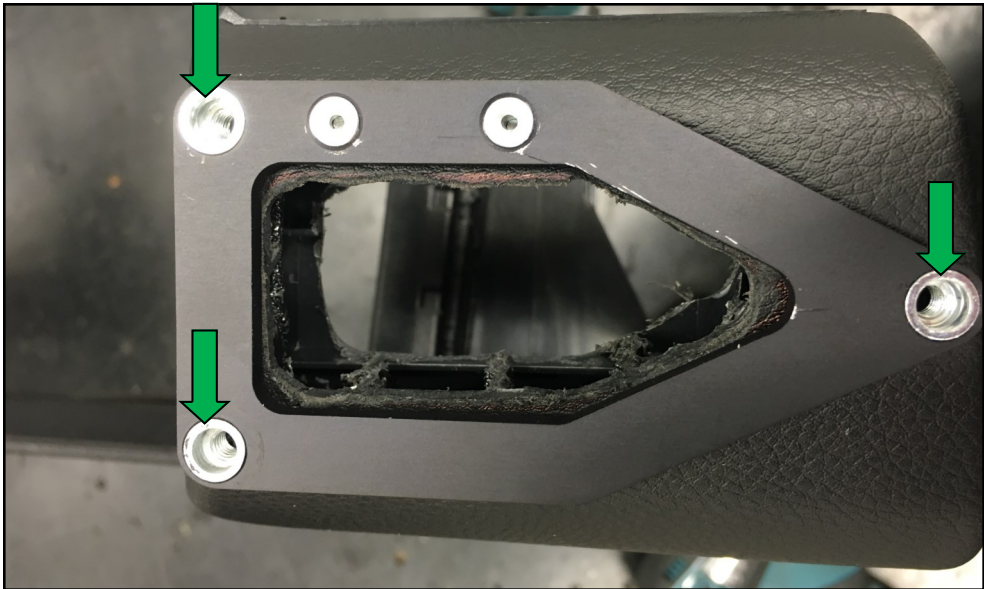
### Step 2:

-  Mark the holes, that have to be drilled for the rivets using the included holder.
- Cut the central hole using an air saw into the paneling.
-  Drill the Ø 3mm holes at the previously marked positions.
-  Rivet the holder on the paneling.
-  For more stability use flat washers behind the rivets.
-  Drill the three Ø 7mm holes into the paneling.

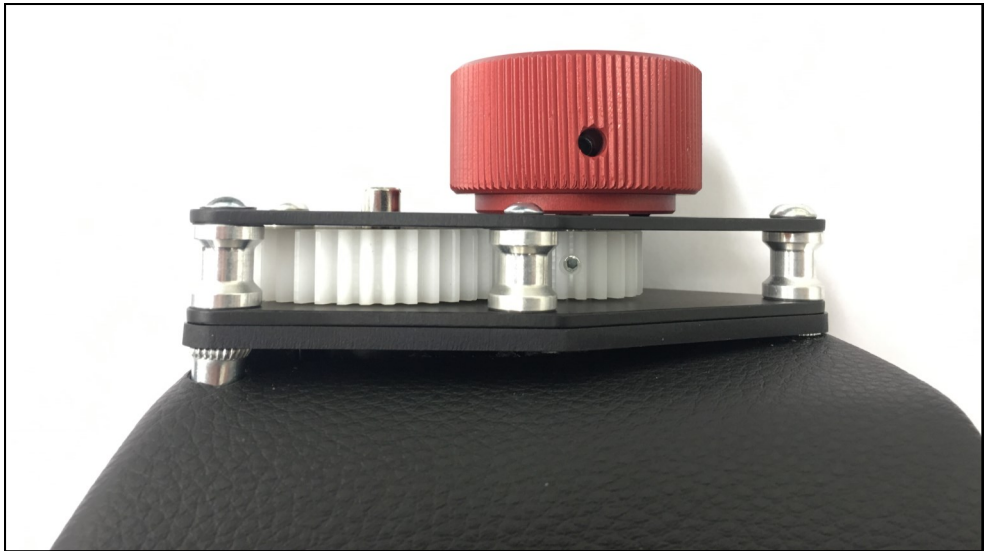




Step 3:



Step 4:



**Cayman GT4 Clubsport**

**Step 3:**

➡ Mount the 3 rivet nuts to the holder.

**Step 4:**

➡ Bolt the brake balance adjuster to the holder.

The hole in the red balance controller should point downwards.

The included nuts, which belong to the 3 screws of the brake adjuster, are not going to be used and remain after the assembly.




## Cayman GT4 Clubsport


### Step 5:

 Push the sealing towards the trunk.

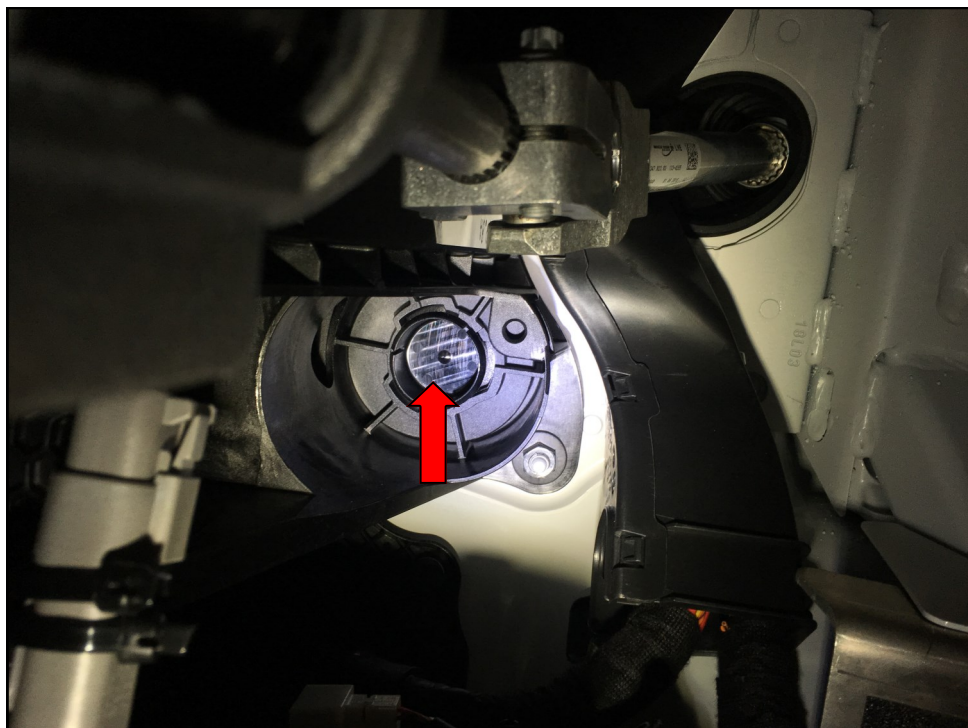
### Step 6:

 Drill a Ø 10mm hole into the sealing.

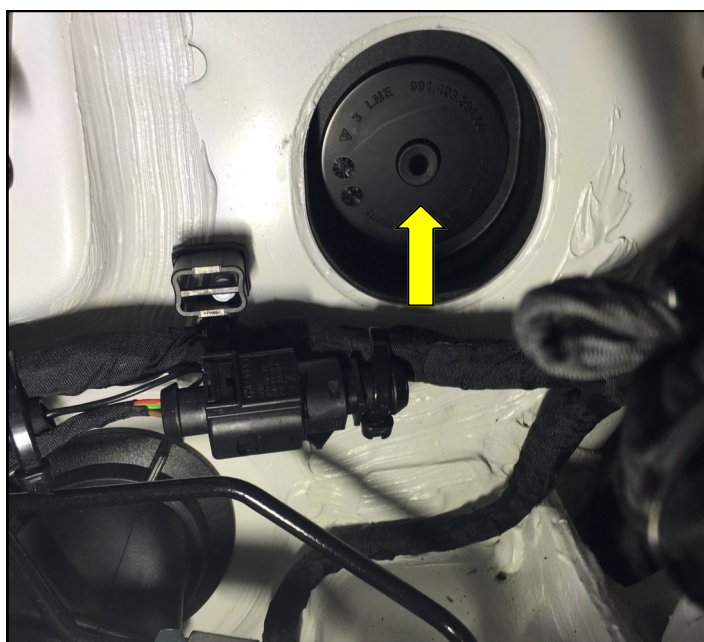
 Put the grommet into the hole

 Reassemble the sealing.

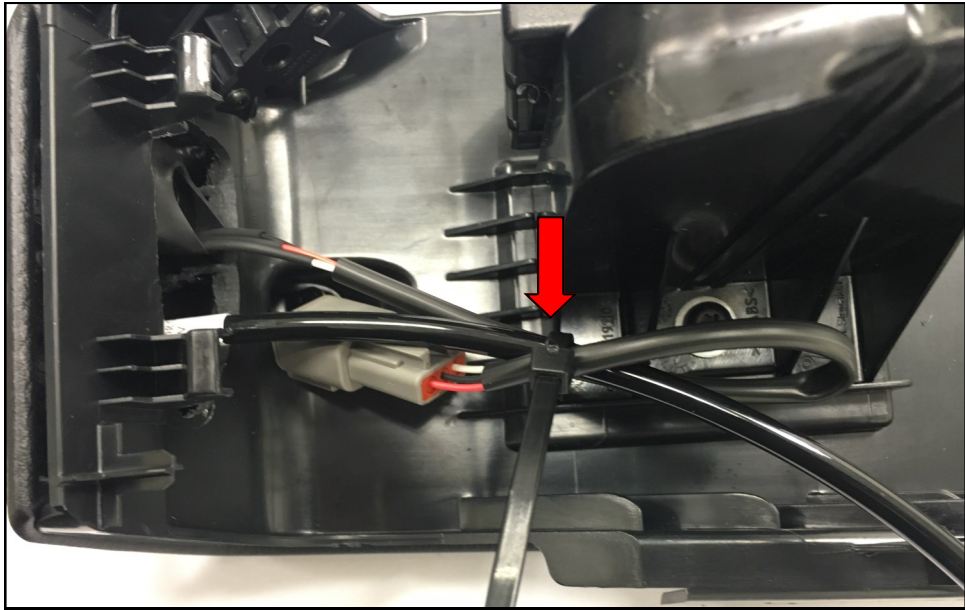
### Step 5:



### Step 6:



Step 7:



Step 8:



**Cayman GT4 Clubsport**

**Step 7:**

↓ If the potentiometer is not being used, attach it behind the paneling using a cable tie.


**Step 8:**

Loosen the grub screw of the clutch.





## Cayman GT4 Clubsport

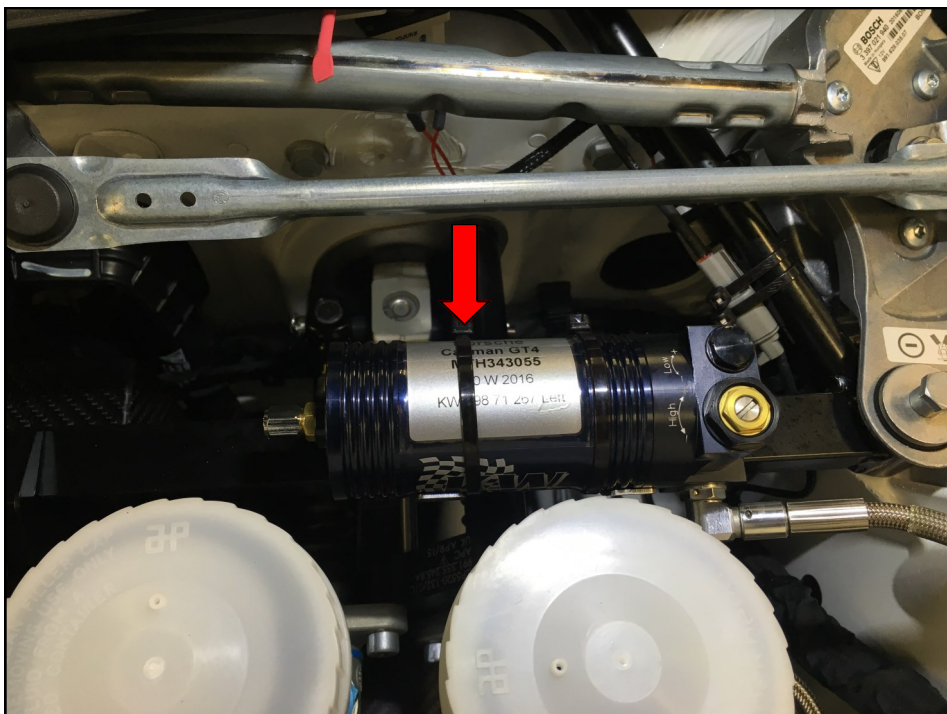
### Step 9: (optional)

-  Dismount the compensating reservoir FA from its holder by cutting the cable tie.

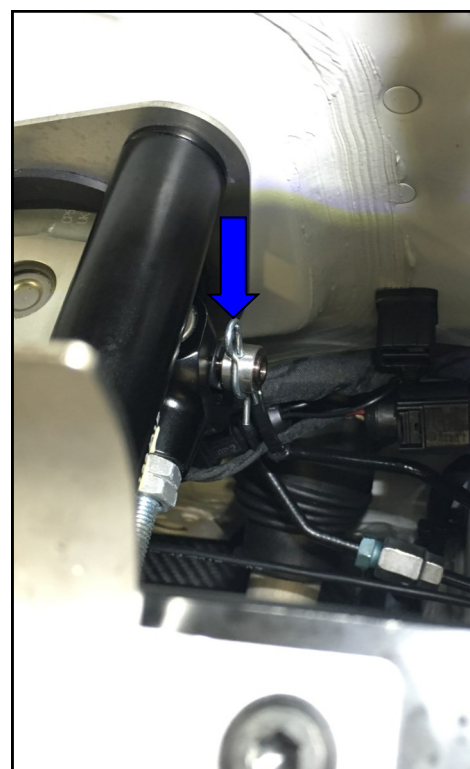
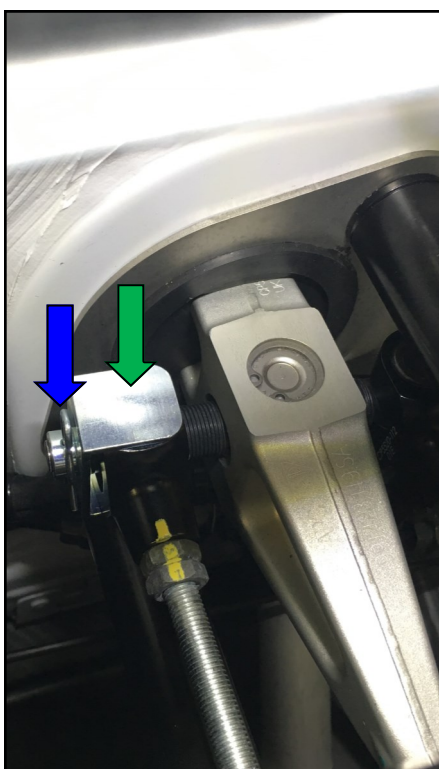
### Step 10:

-  Loosen the securing of the balance bar on both sides by pulling out the safety pin.
-  The shown securing will not be needed anymore.

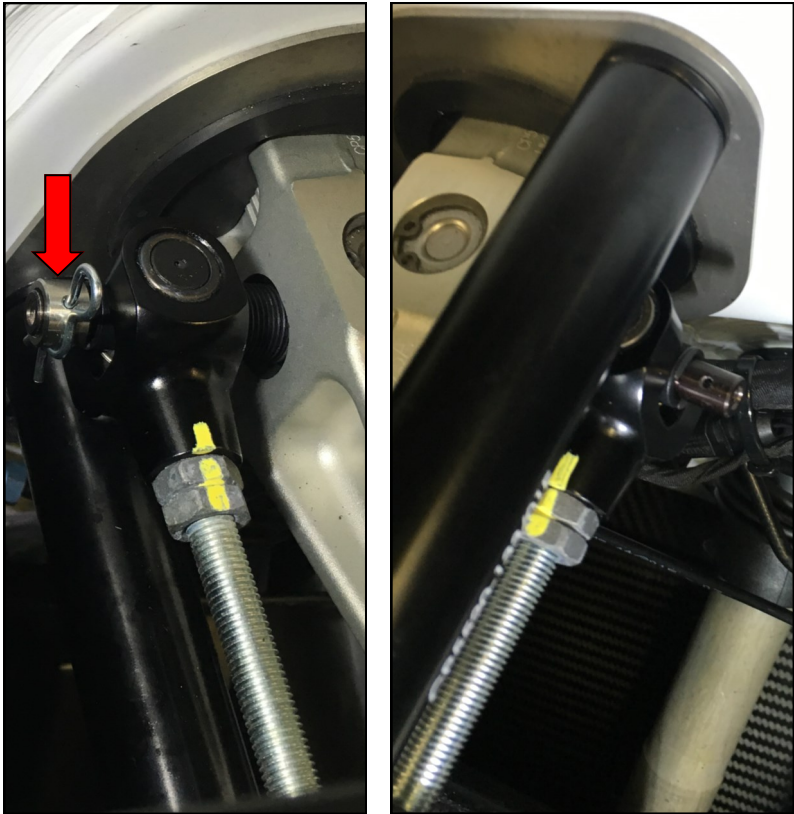
### Step 9:



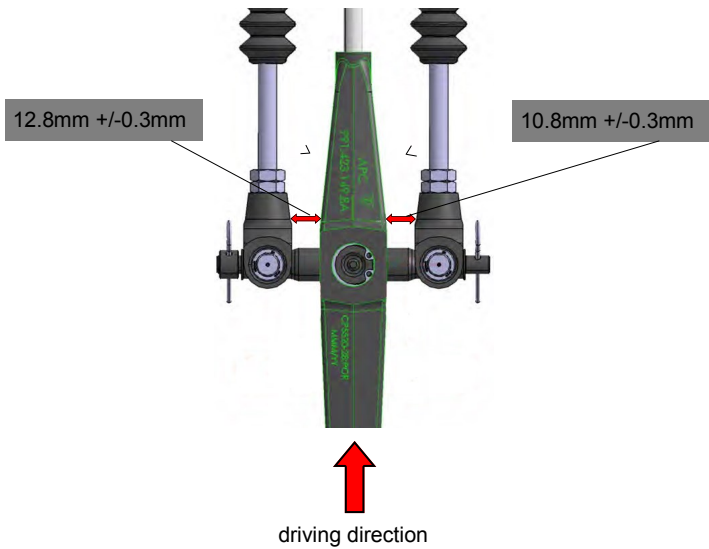
### Step 10:



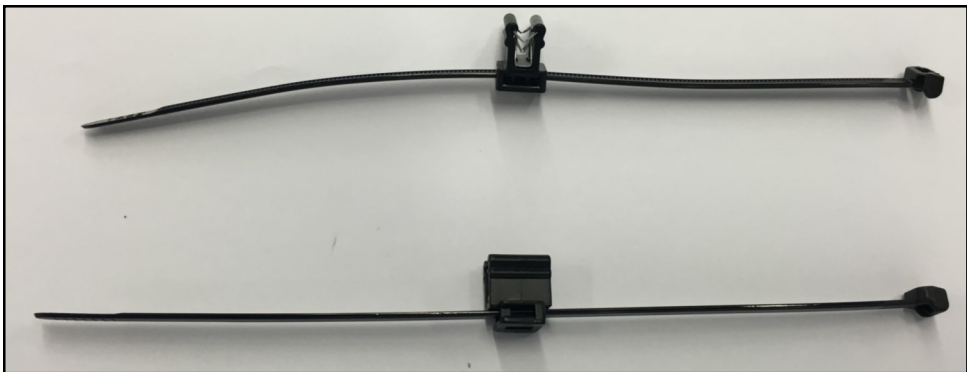
Step 11:



Step 12:




Step 13:



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**Step 11:**

 The securing on the left in driving direction is mounted to the right side.

**Step 12:**

Adjust the balance bar according to the specifications.

**Step 13:**

 Twist the cable tie holder.



## Cayman GT4 Clubsport

In this part of the process you have to work from inside of the footwell.

↓ Stick the cable tie holder to the shown position.

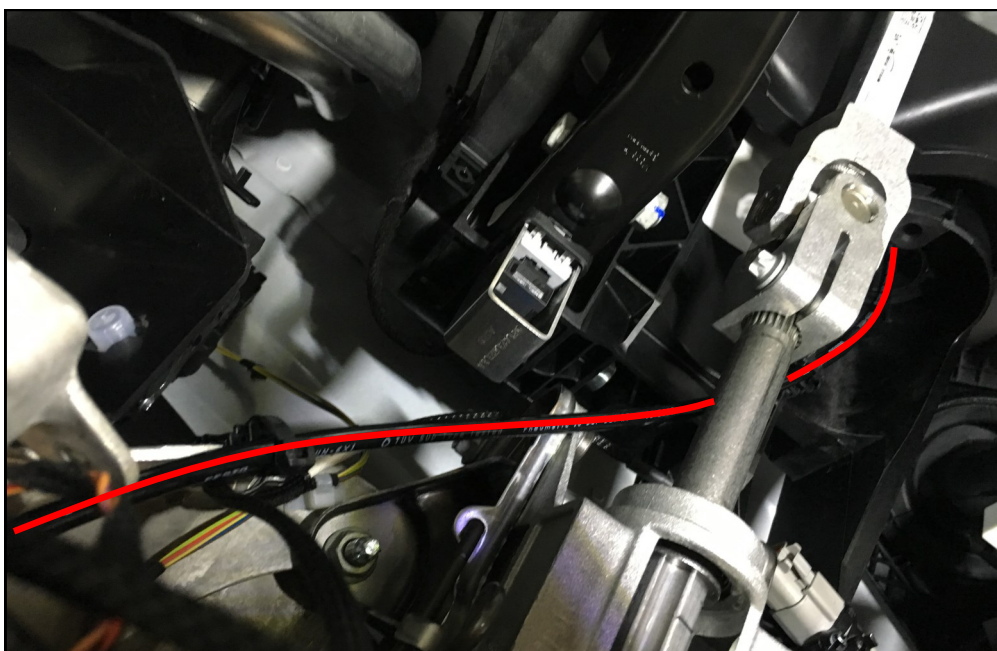
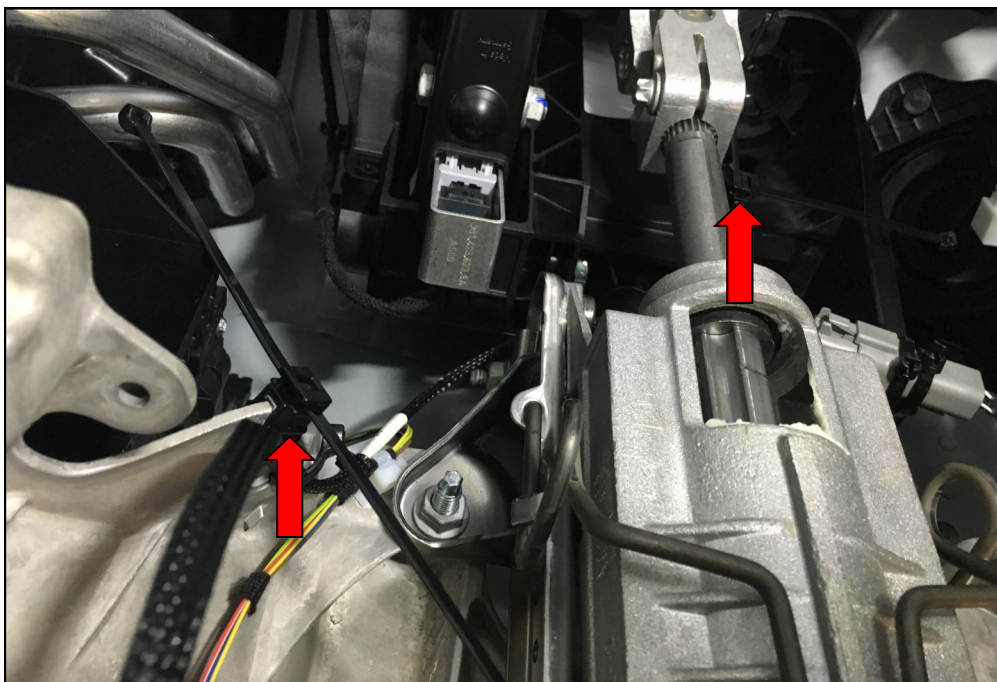
Place the shaft as it is shown in the picture.

**The shaft is must not interfere with the steering mechanic in any circumstances!**

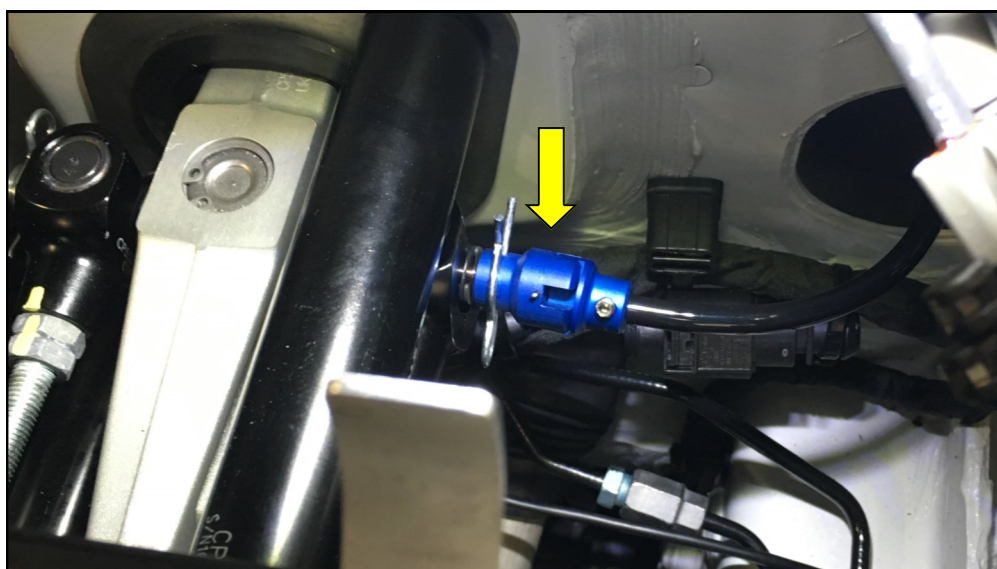
### Step 14:

Reassemble the paneling beneath the steering wheel according to the Porsche specifications.

↓ Pass the shaft through the drilled sealing, connect the clutch with the balance bar and fasten the grub screw to the clutch.

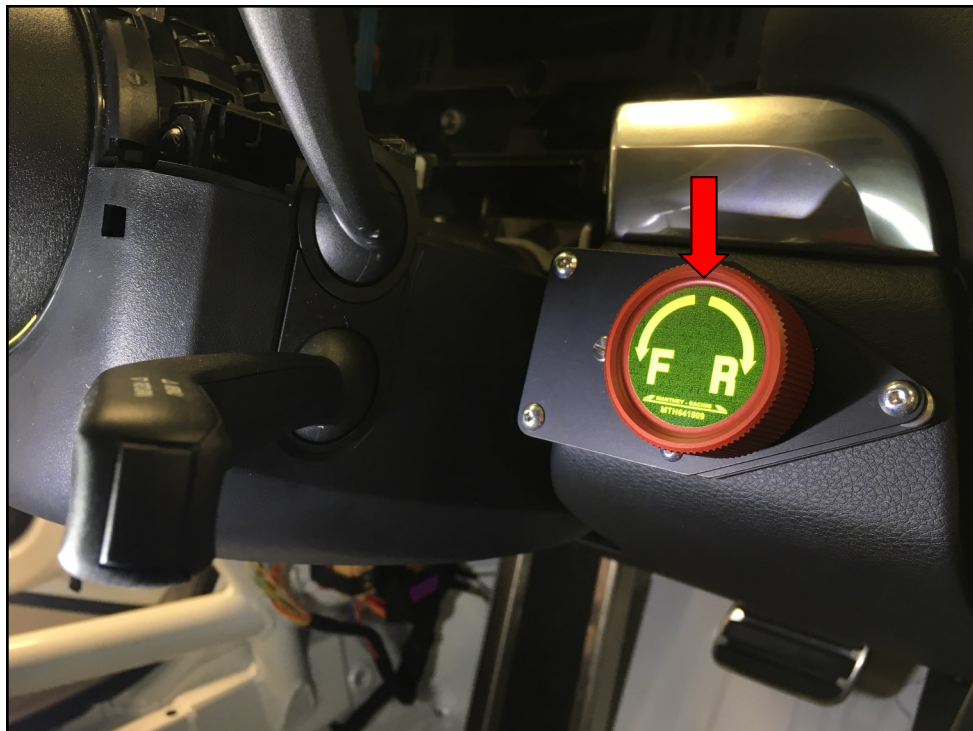


### Step 14:





## Step 15:



## Cayman GT4 Clubsport

### Step 15:

↓ Stick the sticker on the adjuster.

**Check if you have fastened every pipe you loosened in Step 1 !!!**