

# **MANTHEY - RACING**



## **Installation manual**

**Function plate steering wheel**

**MTH347800**

**Version \_V3\_2017/11**



## Contact

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## Note

Due to the ongoing optimization of our products, this document will be updated on a regular basis. Please note that only the current version of this document is valid. The current documents are available in the download area.

## Download area:

The installation and operating instructions as well as the technical manuals are available for download under the following link.

<http://www.manthey-racing.de/downloads.htm>



# Warning and safety instructions

The classification of the warning and safety information is made using the respective signal word (Danger, Warning, Caution) in addition to the warning icon.

 **DANGER**

Warning of death or serious bodily injuries, which will occur in the event of non-compliance.

 **WARNING**

Warning of death or serious bodily injuries, which may occur in the event of non-compliance.

 **ATTENTION**

Warning of minor bodily injuries in the event of non-compliance.

**NOTE**

Warning of property damage in the event of non-compliance.

## General safety instructions

### DANGER

Risk of injury and risk of accident during and after work on the vehicle

- Repairs are to be carried out only if access to the repair handbooks in the PIWIS Information System is also available
- Observe the safety instructions
- Observe the repair handbooks of the vehicle series in the PIWIS Information System.

### DANGER

Crashing vehicle

Squeezing or crushing

Damage to the vehicle

- Do not place any rigid objects under the lifted vehicle.
- Secure lifting platform against lowering.
- Remove any rigid objects before lowering.
- Lift the vehicle only at the pick-up points designated for this purpose.
- The outer pick-up points should be used as a matter of priority.

### WARNING

Improper handling of safety-relevant fitting

Injuries

Torque reduction

- Use new fastening screws and nuts after every dismantling
- Observe the specified tightening torques.
- Visually inspect the parts used

### NOTE

Always observe the currently valid „Technical Information“ (TI) of Porsche AG. These can be viewed and downloaded at **[motorsport.porsche.de](https://motorsport.porsche.de)**.

If you do not have access to this portal, please contact **[gt4clubsport@porsche.de](mailto:gt4clubsport@porsche.de)**.

Always use this manual in accordance with the currently valid Technical Information (TI) of the Porsche AG.

**⚠ WARNING**

Working with compressed air

Eye injuries

Damage and contamination of components

- Wear safety goggles with side shield.
- Secure the compressed air discharge point with suitable materials.
- Place the compressed air discharge point on suitable areas.

**⚠ WARNING**

Toxic exhaust fumes

Suffocation

- When the engine is running, position the exhaust gas extraction system behind the exhaust end pipes of the vehicle and switch it on.

**⚠ WARNING**

Falling objects or loads

Squeezing or crushing

- Secure components against falling.

**⚠ WARNING**

Flying foreign bodies during grinding, drilling and milling

Eye injuries

- Wear safety goggles.

**⚠ WARNING**

No heat-resistant materials

Fire

- Avoid contact with hot components or sources of ignition.

**⚠ ATTENTION**

Sharp or sharp-edged objects

Cracks, punctures, cuts

- Wear personal protective equipment.

**⚠ ATTENTION**

Hot components

Burns

- Allow hot components to cool down.
- Wear personal protective equipment.

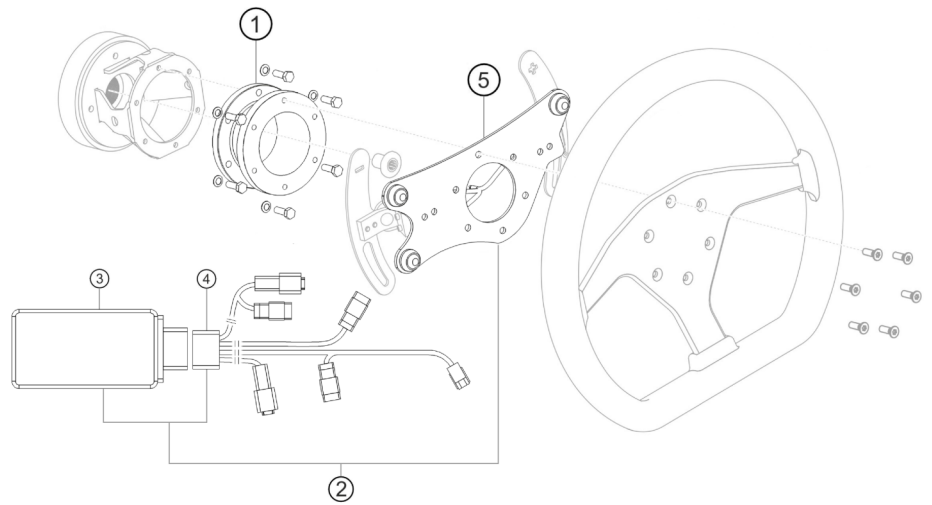
**⚠ ATTENTION**

Heavy components

Crushing

- Wear personal protective equipment.
- If necessary call somebody to help you.

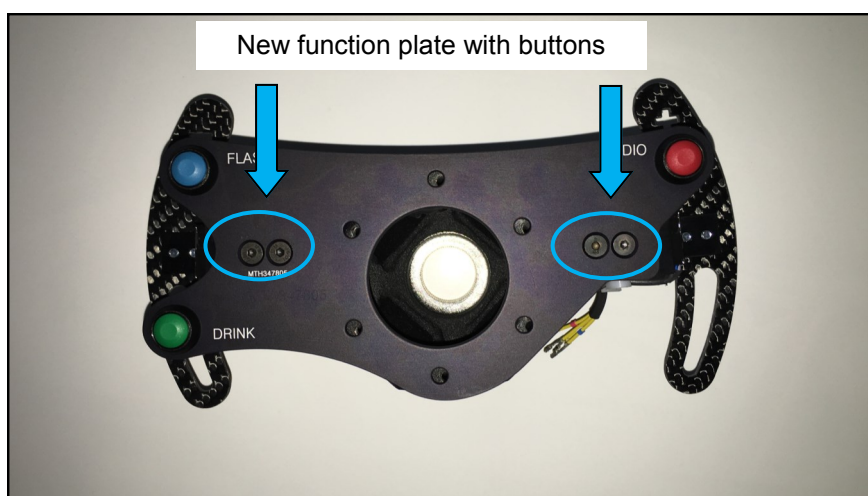
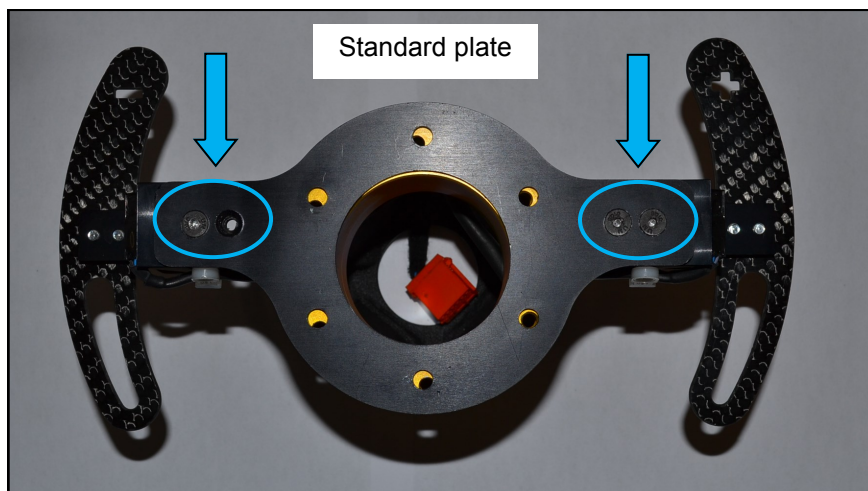
## Overview function plate steering wheel (MTH347800)



Pos.	Bezeichnung / Description	M	A.	Teile Nr. / Part no.
1	<b>KIT ADAPTER LENKRADVERLÄNGERUNG</b> AS STEERING WHEEL SPACER		1	MTH347810
2	<b>KIT FUNKTIONSPLATTE LENKRAD</b> <b>POS. 3-5</b> AS FUNCTION PLATE STEERING WHEEL POS. 3-5		1	MTH347800
3	<b>STEUERGERÄT LENKRADBEDIENUNG</b> CONTROL UNIT FUNCTION PLATE		1	MTH347804
4	<b>HAUPTKABELSTRANG LENKRADBEDIENUNG</b> WIRING LOOM FUNCTION PLATE		1	MTH347806
5	<b>ADAPTERPLATTE FUNK - TRINKSYSTEM</b> ADAPTER PLATE RADIO & DRINKING SYSTEM		1	MTH347805



**Step 1:**



**Step 1:**

**NOTE**

Turn off the main switch and make sure that it is not going to be activated during the installation. Failure to observe this can lead to malfunctions and damage to the control unit steering angle sensor.

**NOTE**

Remove the steering wheel including the shift paddles and the steering wheel hub according to the specifications clarified in the technical manual of the Cayman GT4 Clubsport.

Remove the standard plate where the shift paddles are mounted and put on the new function plate (MTH347805).

To do this, remove the four countersunk screws of the shift paddles and mount them to the new function plate.

**NOTE**

Ensure that the car will not be moved while the steering wheel is removed. Secure the steering angle sensor, to which the orange plug is connected, with a piece of tape.

**Step 2:**

Stick Velcro to the control unit as shown in the picture.

Drill two holes of Ø 6,0 mm into the center console at the shown position for the cable ties.

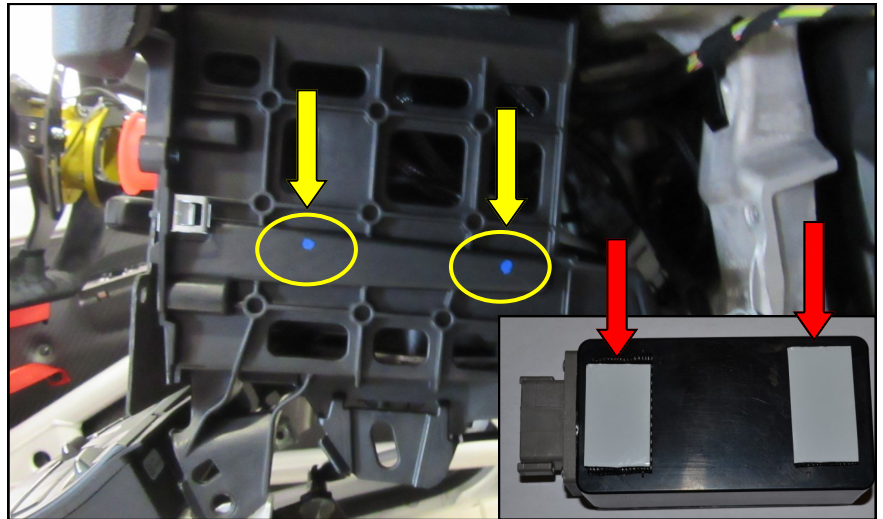
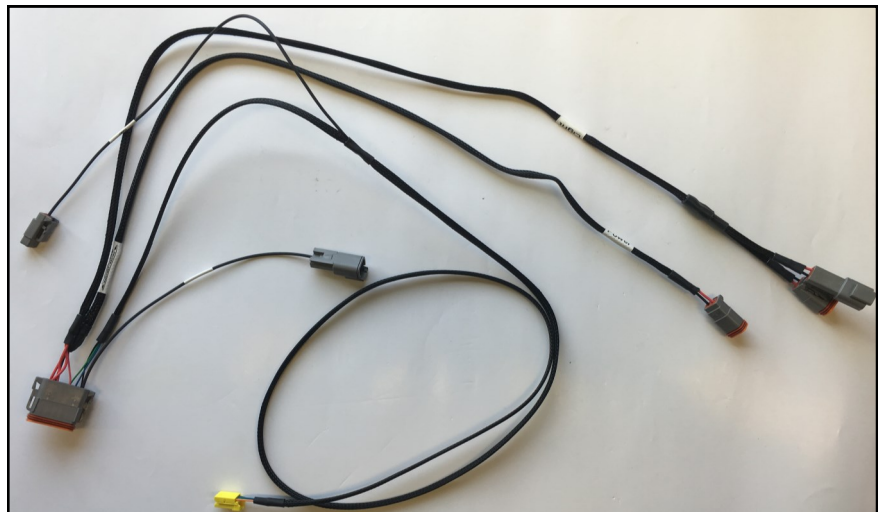
Mount the control unit to the side as shown.

**Step 3:**

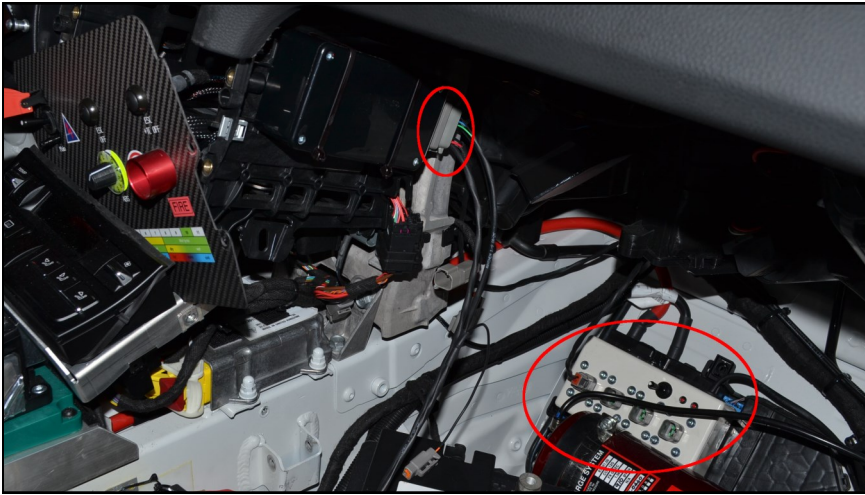
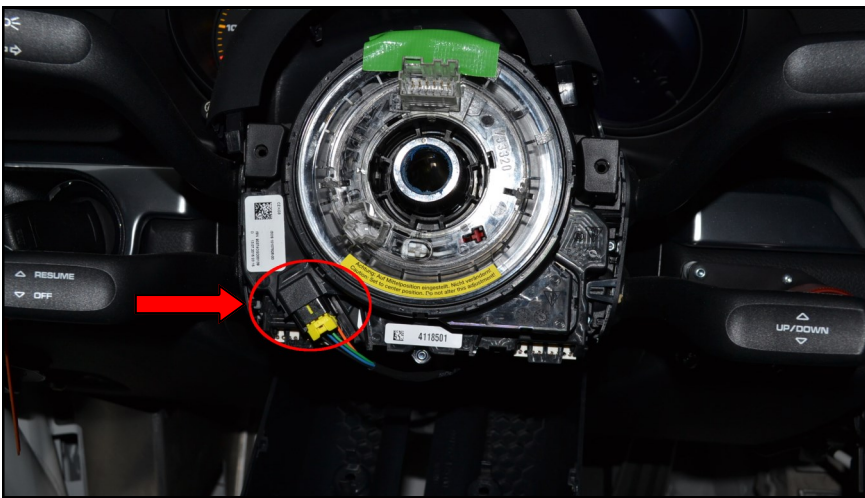
Lay the supplied wiring harness (MTH347806). Plug the 12-pin connector into the control unit. Lay the sub-string with the yellow 4-pin connector to the steering wheel electronics control unit. The sub-string labeled with "Power" is connected to the power supply (e.g., Powerbox). The sub-string with the name "Light" is required only with additional lighting installed. The sub-strings "Drink" and "Radio" are needed to control a drinking system or radio.

**NOTE**

Fasten the cable harness with cable ties in suitable positions and ensure that it is tension-relieved and can not be damaged by scrubbing.

**Step 2:**

**Step 3:**




**Step 3:**

**Step 4:**

**Step 4:**

Place the yellow cable which is connected to the steering wheel behind the center console to the driver's side and plug it in as shown in the picture. Make sure the plug locks.

Hold the cable in place using enough cable ties.

**Step 5:**


Place the cables belonging to the team radio and the drinking system into the center console and connect them with the appropriate connections.

**NOTE**

Connect the plug of the sub-string "Drink" to ground (negative pole) of the pump of the used drinking system.

### Step 6:

The new wiring loom runs alongside the wiring loom of the shift paddles.

Remove the jumper. It has to be levered out using a small screwdriver. 

Deburr the hole through which the cables are running.

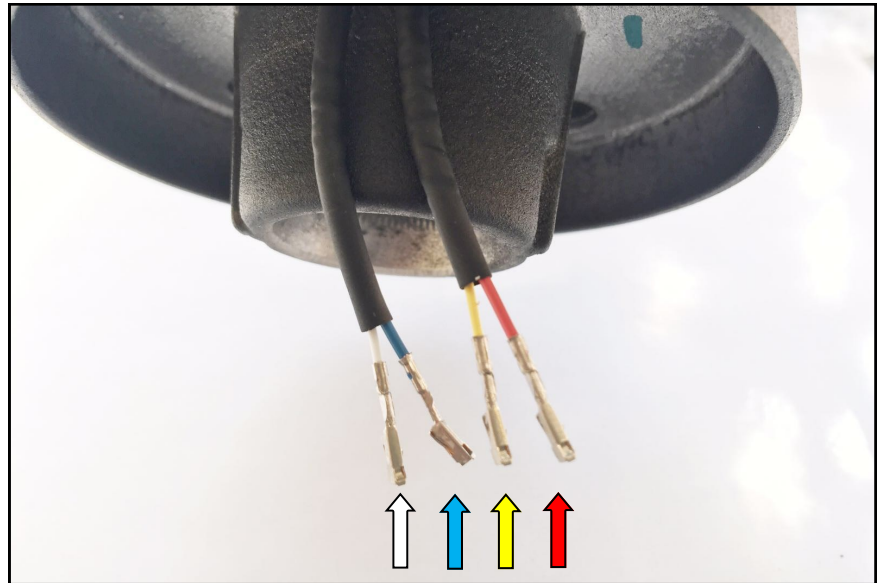
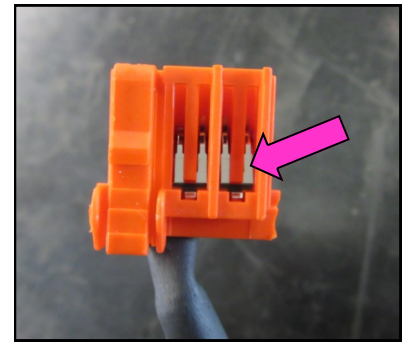
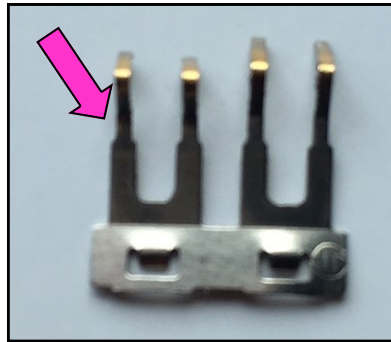
Put the loose cables through the hole and shrink the two small shrinking tubes. Make sure that the cables do not cross each other. Otherwise the cross-sectional area gets too big and the cables might no longer fit through the hole.

The big shrinking tube should lay on top of the hole of which the other cables run through.

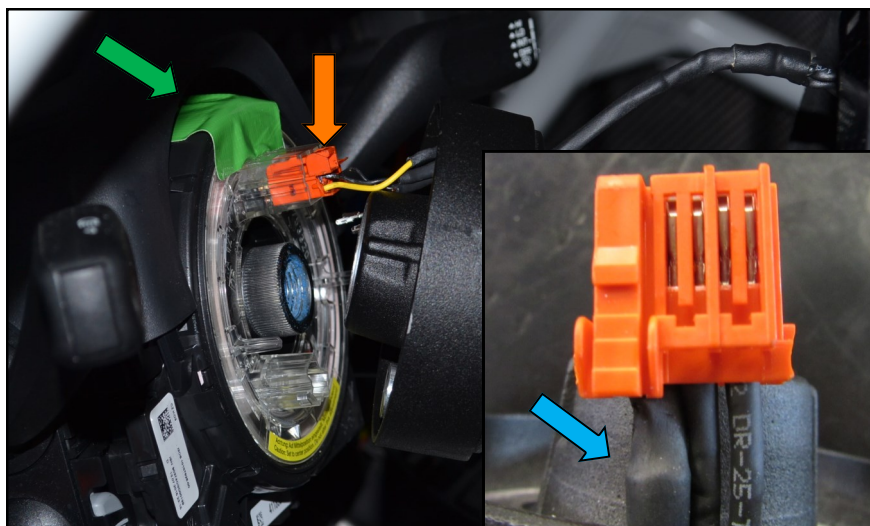
Connect the four cables to the orange plug.

yellow	connection 3	radio
red	connection 4	flash
blue	connection 5	drink
white	connection 6	to earth

### Step 6:



## Step 7:



## Step 7:

↓ Plug the orange plug back to the connection on the steering angle sensor.

Before you reassemble the steering wheel, remove the tape holding the steering wheel sensor in place and test your system.

↓ Push the big shrinking tube as close as possible to the steering wheel hub and shrink it.

Mount the hub and the steering wheel with great care. A twisting of the steering angle sensor must be avoided.

Observe the tightening torques for the hub screw and the steering wheel screws (observe the technical manual of the Cayman GT4 Clubsport).

## ⚠ DANGER

**Prevent under any circumstances a restriction of the steering movement caused by the wiring loom. Make sure no cable is scrubbing.**

## ⚠ DANGER

**It is strictly recommended to replace the hub screw after each disassembly.**

**Please note the technical information of Porsche AG in the PMRSI with the archive number PA10\_0343.**

