MANTHEY - RACING

Installation manual

Gateway

MTH610700

Version _V3_2017/12

Contact

Manthey-Racing GmbH

Technical Support

Rudolf-Diesel-Str. 11-13

53520 Meuspath

Germany

Phone: +49 (0) 2691 9338 807

E-Mail: techsupport@manthey-racing.de

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 designatedfor this purpose.
- The outer pick-up points should be used as a matterof 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*.

If you do not have access to this portal, please contact *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.
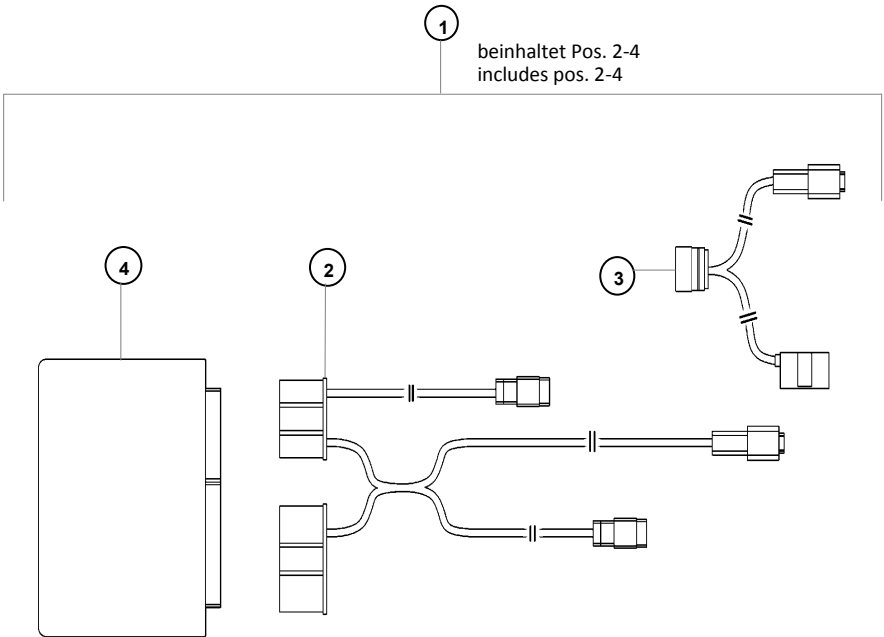- Wear personal protective equipment.
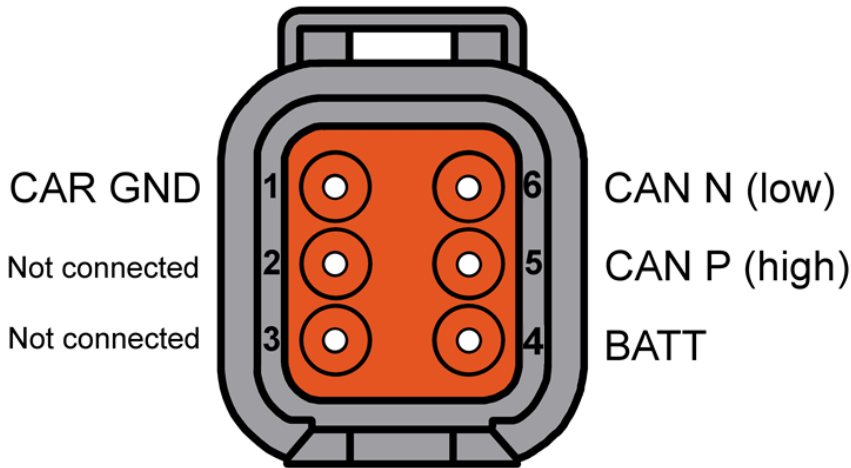
⚠ ATTENTION   Heavy components

Crushing

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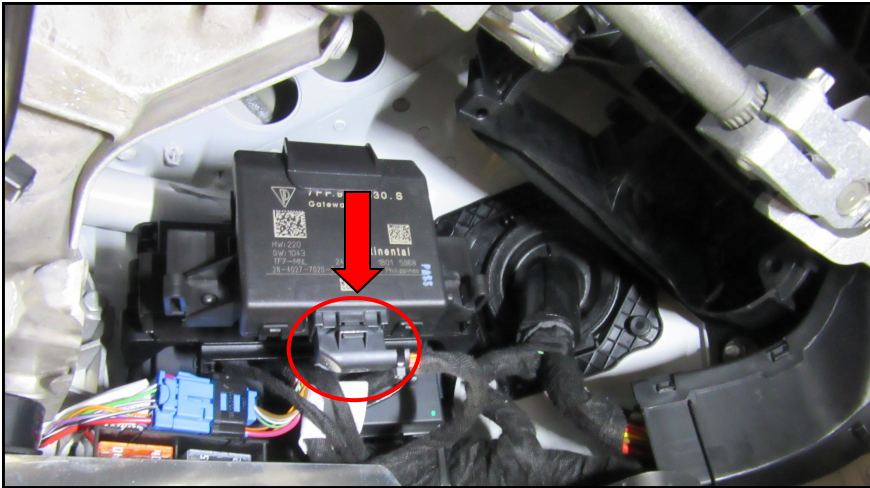- If necessary call somebody to help you.

Observe the repair handbooks of the production vehicle!

Overview Gateway (MTH610700)

beinhaltet Pos. 2-4
includes pos. 2-4

Pos	Bezeichnung / Description	M	A.	Teile Nr. / Part no.
1	**GATEWAY EINBAUSET POS. 2-4** GATEWAY KIT POS. 2-4		1	MTH610700
2	**KABELSTRANG GATEWAY** WIRING LOOM GATEWAY		1	MTH610710
3	**Y-KABEL GATEWAY** Y-CABLE GATEWAY		1	MTH610720
4	**UNIVERSAL GATEWAY 5x CAN** UNIVERSAL GATEWAY 5xCAN	X	1	98161207181

CAR GND   1   6   CAN N (low)

Not connected   2   5   CAN P (high)

Not connected   3   4   BATT

Step 1:

Step 2:

Step 3:

Step 4:

Step 1:

The Gateway is located at the left side a-pillar above the driver´s footrest. Unplug the connector going to the gateway.

Step 2:

Plug the connector of the Y-cable (MTH6107120) to the gateway. Connect the plug (disconnected in Step 1) to the white plug of the Y-cable (MTH610720).

Step 3:

Install the cable as shown in the picture to the centre console.

NOTE

The cable is not allowed to interfere with the steering mechanic in any circumstances. Ensure this by fixing the cable with cable ties.
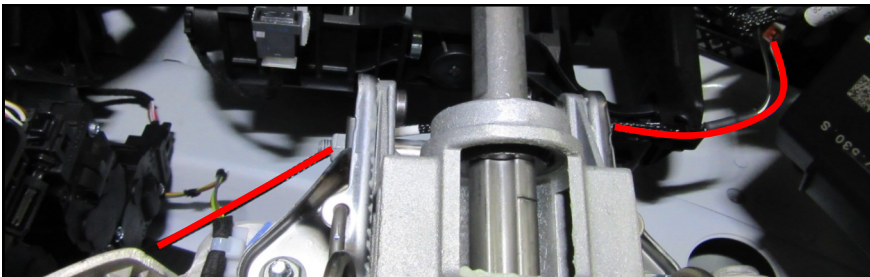
Step 4:

Disassemble the centre console and mount the gateway controller with Velcro to the controller which is located there.
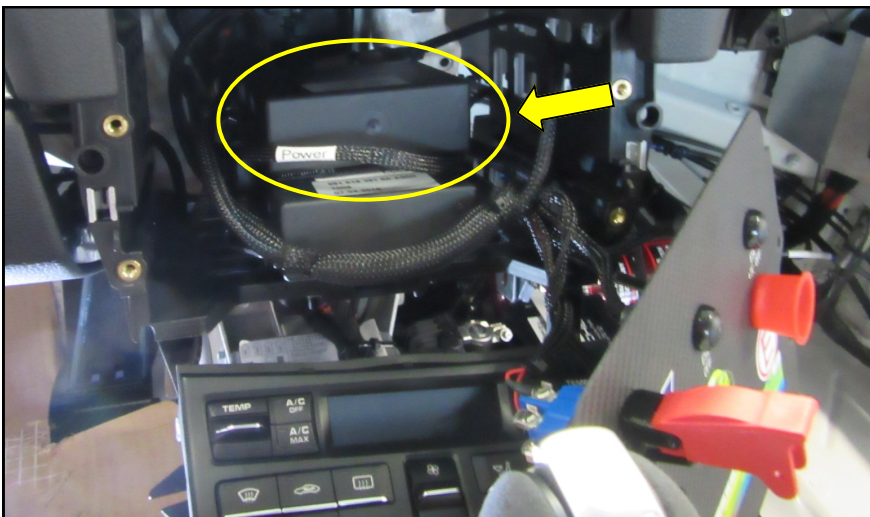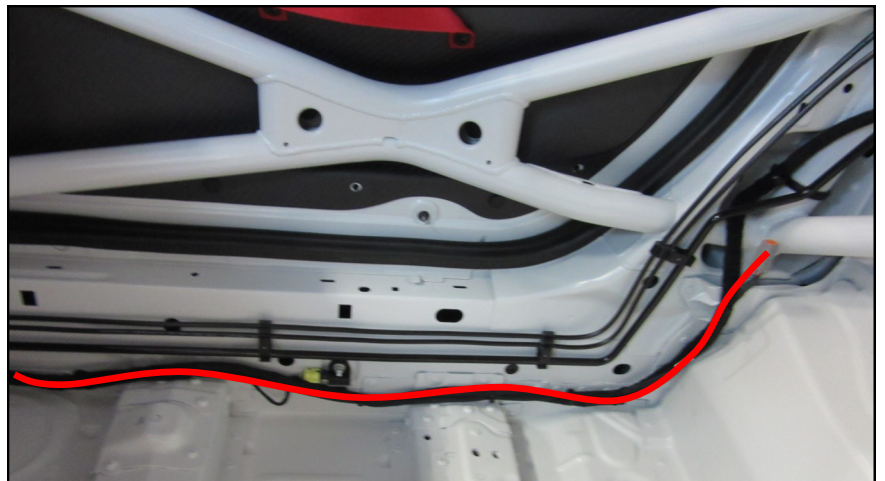
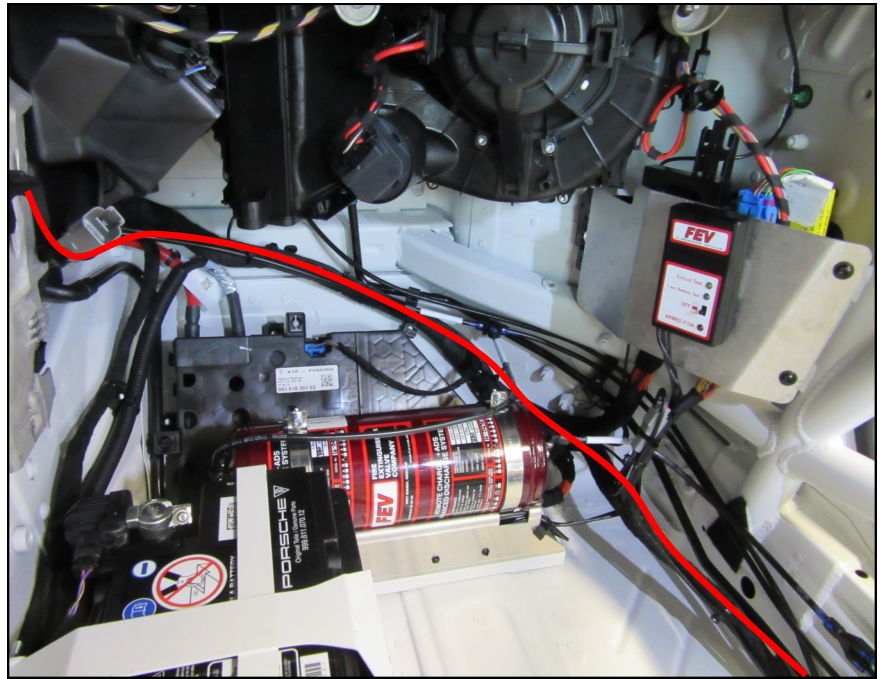Cayman 981 GT4 Clubsport / MR Gateway

Step 5:

Plug the cable which is marked with "power" to the power supply.

If you use more then two consumers you need an additional powerbox). (parts number: 9816106898A)

Lay the "CAN-OUT" cable to the b-pillar at the passenger´s side. Fix the cable as shown on the pictures by using cable ties.

Name	ID	Startbit	Length	Byte order	Datatype	Inital value	Gain	Offset	Min	Max	Unit	Description
Intake_temp	0x300	0	8	Intel	Unsigned	142.5	0.75	-48	0	0	°C	Intake temp
Manifold_press	0x300	10	6	Intel	Signed	10,16	18	0	0	0	mbar	
Oil_press	0x300	16	8	Intel	Unsigned	10,16	0.04	0	0	10	bar	Oil press....
Oil_temp	0x300	24	8	Intel	Unsigned	194	1	-60	-60	192	°C	Oil Temp.
Throttle_pedal	0x300	32	8	Intel	Unsigned	0	0.4	0	0	102	%	Throttle Pedal
RPM	0x300	40	16	Intel	Unsigned	0	0.25	0	0	16383	RPM	Engine Speed
Water_temp	0x300	56	8	Intel	Unsigned	-48	0.75	-48	-48	142.5	°C	Water Temperature
acc_lat	0x301	0	9	Intel	Unsigned	4,44E-02	0.01	-2.55	-2.55	2,55	g	...
acc_long	0x301	9	10	Intel	Unsigned	0	0.03125	-16	-16	159.063	m/s²	
Yaw_rate	0x301	24	10	Intel	Unsigned	0	0.1	0	0	102.2	°/s	Yaw rate
Yaw_rate_sign	0x301	34	1	Intel	Unsigned	0	1	0	0			
steer_angle	0x301	40	13	Intel	Unsigned	819	0.1	0	0	800	°	Range = 0- 800 Degree.
steer_angle_sign	0x301	53	1	Intel	Unsigned	0	1	0	0	1		...
Speed	0x302	0	16	Intel	Unsigned	655.34	0.01	0	0	655.32	kph	Vehicle Speed
Speed_FL	0x302	16	12	Intel	Unsigned	409.4	0.1	0	0	409.2	kph	Wheel Speed Front Left
Speed_FR	0x302	28	12	Intel	Unsigned	409.4	0.1	0	0	409.2	kph	Wheel Speed Front Right
Speed_RL	0x302	40	12	Intel	Unsigned	409.4	0.1	0	0	409.2	kph	Wheel Speed Rear Left
Speed_RR	0x302	52	12	Intel	Unsigned	409.4	0.1	0	0	409.2	kph	Wheel Speed Rear Right
Battery_voltage	0x303	0	8	Intel	Unsigned	5	0.05	5	0	0	Volt	Battery Voltage....
Fuel_level	0x303	8	7	Intel	Unsigned		1	0	0	0	l	Fuel Level
Distance_km	0x303	16	20	Intel	Unsigned	1048574	1	0	0	1,05E+11	Km	Distance....
Gear	0x303	36	4	Intel	Unsigned	0	1	0	0	15		Gear
Torque	0x303	48	10	Intel	Unsigned	1022	1	0	0	1023	Nm	Torque
Brake_pressure	0x304	0	10	Intel	Unsigned	0	0.3	-30	-30	276	bar	Brake pressure....
Brake_switch	0x304	10	1	Intel	Unsigned	0	1	0	0	1		Brake Switch
ESP_status	0x304	16	1	Intel	Unsigned	0	1	0	0	1		Status ESP
TC_status	0x304	17	1	Intel	Unsigned	0	1	0	0	1		Status Traction Control
MIL_DIAG_lamp	0x304	18	1	Intel	Unsigned	0	1	0	0	0		Mil Diag....
Air_temp	0x304	40	8	Intel	Unsigned	75	0.5	-50	-50	75	°C	Air Temperature
Gear_pos_lever	0x305	0	4	Intel	Unsigned	0	1	0	0	15		Gear lever position
shift_paddle_up	0x305	4	1	Intel	Unsigned	0	1	0	0	1		
shift_paddle_down	0x305	5	1	Intel	Unsigned	0	1	0	0	1		
Pitspeed	0x305	6	1	Intel	Unsigned	0	1	0	0	1		Pitspeed active
shift_lever_down	0x305	7	1	Intel	Unsigned	0	1	0	0	1		
shift_lever_up	0x305	8	1	Intel	Unsigned	0	1	0	0	1		
ABS_Brake	0x305	9	1	Intel	Unsigned	0	1	0	0	1		ABS intervention
ESP_interv	0x305	10	1	Intel	Unsigned	0	1	0	0	1		ESP intervention
Oversteer	0x305	16	8	Intel	Unsigned	1,016	0.004	0	0	1		Car detects oversteering
Understeer	0x305	24	8	Intel	Unsigned	1,016	0.004	0	0	1		Car detects understeering
TC_interv	0x305	63	1	Intel	Unsigned	0	1	0	0	0		TC intervention
CAM_IN_R	0x306	0	8	Intel	Unsigned	60	0.375	60	0	0	°	
CAM_IN_L	0x306	8	8	Intel	Unsigned	60	0.375	60	0	0	°	
Ignition_adv	0x306	16	8	Intel	Unsigned	35	0.375	35	0	0	°	
Torque_dem	0x306	24	16	Intel	Unsigned	0	3,05E-02	0	0	0		driver demand torque
Throttle_Pos	0x306	56	8	Intel	Unsigned	0	0.4	0	0	0	%	Throttle Pedal
Lambda_L	0x307	16	15	Intel	Unsigned	0	0.000977	0	0	0		
Lambda_R	0x307	32	15	Intel	Unsigned	0	0.000977	0	0	0		
Ambient_press	0x307	48	16	Intel	Unsigned	0	8,29E+00	0	0	0	bar	Ambient pressure....