

GT Sports Steering Wheel Including Multi-function and Steering Wheel Heating

Concern: **Retrofitting**

Model Year: **As of 2017**

Note The features of the particularly sporty GT sports steering wheels in leather (I-no. 858) or Alcantara (XLL) include:

- Steering wheel diameter: 360 mm
- In conjunction with PDK: Gearshift paddles for changing gear manually
- Including multi-function operation and steering wheel heating (489)



Parts Info:

991.044.400.22

Vehicles with manual transmission (487)

⇒ GT sports steering wheel, Alcantara (XLL)

991.044.400.23

⇒ GT sports steering wheel, Alcantara (XLL), Sport Chrono (QR4/QR5)

991.044.400.30 FFF¹

⇒ GT sports steering wheel, leather (858)

991.044.400.31 FFF¹

⇒ GT sports steering wheel, leather (858), Sport Chrono (QR4/QR5)

Vehicles with PDK (250)

991.044.400.20

⇒ GT sports steering wheel, Alcantara (XLL)

991.044.400.21

⇒ GT sports steering wheel, Alcantara (XLL), Sport Chrono (QR4/QR5)

991.044.400.32 FFF¹

⇒ GT sports steering wheel, leather (858)

991.044.400.33 FFF¹

⇒ GT sports steering wheel, leather (858), Sport Chrono (QR4/QR5)

¹ The colour code can be found in the Porsche Electronic Parts Catalog (PET).

Only for vehicles without multi-function steering wheel and leather steering wheel trim (XNS).

**Information**

For vehicles with leather steering column casing, please use one of the part numbers listed below when placing your order!

991.552.983.04 FFF ²	1 x	Lower steering column casing with mechanical reach/height adjustment (647/655) with cruise control (454)/Automatic Distance Control (ADC) (456)
991.552.983.05 FFF ²	1 x	Lower steering column casing with electric reach/height adjustment (648/656) with cruise control (454)/Automatic Distance Control (ADC) (456)
991.552.983.06 FFF ²	1 x	Lower steering column casing with mechanical reach/height adjustment (647/655) without cruise control/Automatic Distance Control (ADC)
991.552.983.07 FFF ²	1 x	Lower steering column casing with electric reach/height adjustment (648/656) without cruise control/Automatic Distance Control (ADC)

² Special procurement as for CT spare parts orders. Order leather color and stitching in accordance with vehicle equipment.

Information on Ordering: For vehicles **without** the optional equipment multi-function operation + heated steering wheel (489), the steering wheel electronics control unit and steering-column switch must also be ordered.

9A7.953.568.11	1 x	Steering wheel electronics control unit
991.552.675.00.1E0	1 x	Cover
see table	1 x	Steering-column switch

installed steering-column switch (with on-board computer stalk) without I-no. 489 (multi-function operation and steering wheel heating)		required steering-column switch (without on-board computer stalk) with I-no. 489
Part No.	Vehicle equipment	Part No.
991.613.011.50	(426) without rear wiper	991.613.013.50

970.613.011.50	(426) without rear wiper (454) cruise control	970.613.013.50
991.613.043.50	(288) headlight cleaning system (426) without rear wiper	991.613.045.50
970.613.043.50	(288) headlight cleaning system (426) without rear wiper (454) cruise control	970.613.045.50
991.613.019.50	(426) without rear wiper (QH1) voice control	991.613.021.50
970.613.019.50	(426) without rear wiper (454) cruise control (QH1) voice control	970.613.021.50
991.613.051.50	(288) headlight cleaning system (426) without rear wiper (QH1) voice control	991.613.053.50
970.613.051.50	(288) headlight cleaning system (426) without rear wiper (454) cruise control (QH1) voice control	970.613.053.50
991.613.027.50	(425) rear wiper	991.613.029.50
970.613.027.50	(425) rear wiper (454) cruise control	970.613.029.50
991.613.059.50	(288) headlight cleaning system (425) rear wiper	991.613.061.50
970.613.059.50	(288) headlight cleaning system (425) rear wiper (454) cruise control	970.613.061.50
991.613.035.50	(425) rear wiper (QH1) voice control	991.613.037.50
970.613.035.50	(425) rear wiper (454) cruise control (QH1) voice control	970.613.037.50
991.613.067.50	(288) headlight cleaning system (425) rear wiper (QH1) voice control	991.613.069.50
970.613.067.50	(288) headlight cleaning system (425) rear wiper (454) cruise control (QH1) voice control	970.613.069.50

970.613.015.50	(426) without rear wiper (456) Automatic Distance Control (ADC)	970.613.017.50
970.613.047.50	(288) headlight cleaning system (426) without rear wiper (456) Automatic Distance Control (ADC)	970.613.049.50
970.613.023.50	(426) without rear wiper (456) Automatic Distance Control (ADC) (QH1) voice control	970.613.025.50
970.613.055.50	(288) headlight cleaning system (426) without rear wiper (456) Automatic Distance Control (ADC) (QH1) voice control	970.613.057.50
970.613.031.50	(425) rear wiper (456) Automatic Distance Control (ADC)	970.613.033.50
970.613.063.50	(288) headlight cleaning system (425) rear wiper (456) Automatic Distance Control (ADC)	970.613.065.50
970.613.039.50	(425) rear wiper (456) Automatic Distance Control (ADC) (QH1) voice control	970.613.041.50
970.613.071.50	(288) headlight cleaning system (425) rear wiper (456) Automatic Distance Control (ADC) (QH1) voice control	970.613.073.50

Parts list:



Figure 2

— — —	1 x	GT sports steering wheel, leather ⇒ Figure 2-1-
N .910.207.01	1 x	Screw, M18 x 1.5 x 26 ⇒ Figure 2-2-

Activation Code:

Heated steering wheel, multi-function steering wheel

These components require a VIN-specific enabling code and will not function without it. To get the enabling code, order the applicable kit via your normal parts channels (POLARIS). You must then submit a Parts Technical Assistance Request (PTAR) in the PTEC system with the correct VIN, Part Number and PCNA order number to PCNA Parts Support. The PTAR will be returned to you in 1+ working days, advising you that the code is now displayed in the PIWIS System. Consult Parts Bulletin GR13D90 for additional ordering details.

Tools:

9900 - PIWIS Tester 3

Notes:

Observe the relevant legal regulations in the various countries!



Information

The specifications provided under ⇒ *Workshop Manual '6X00IN Safety regulations for handling airbag and seat-belt pretensioner units'* must be followed!

Work Procedure: 1

Disconnect the battery. ⇒ *Workshop Manual '2X00IN Work instructions after disconnecting the battery'*

2

Remove driver's airbag unit. ⇒ *Workshop Manual '695819 Removing and installing driver's airbag unit'*

- 3 Remove standard steering wheel. ⇒ *Workshop Manual '481019 Removing and installing steering wheel'*
- 4 **Only** for vehicles without multi-function steering wheel.
 - 4.1 Remove steering column casing. ⇒ *Workshop Manual '481319 Removing and installing steering column casing'*
 - 4.2 Remove steering-column switch. ⇒ *Workshop Manual '945019 Removing and installing steering-column switch'*
 - 4.3 Install new steering wheel electronics control unit on the new steering-column switch. ⇒ *Workshop Manual '916219 Removing and installing control unit for steering wheel electronics'*
 - 4.4 Install new steering-column switch. ⇒ *Workshop Manual '945019 Removing and installing steering-column switch'*
 - 4.5 Slide cover into the steering column casing ⇒ *Figure 4 -arrow-*.

Information

On vehicles with leather steering wheel trim (XNS), the steering wheel trim must be replaced.
 - 4.6 Install steering column casing. ⇒ *Workshop Manual '481319 Removing and installing trim panel'*
- 5 Install GT sports steering wheel. ⇒ *Workshop Manual '481019 Removing and installing steering wheel'*
- 6 Install driver's airbag unit. ⇒ *Workshop Manual '695819 Removing and installing driver's airbag unit'*
- 7 Connect the battery. ⇒ *Workshop Manual '2X00IN Work instructions after disconnecting the battery'*



Figure 4

NOTICE**Voltage drop**

- Risk of irreparable damage to control unit
- Risk of damage to control unit
- Fault entries in the control unit
- Coding in the control unit is aborted

- **Malfunctions in control unit, even during programming**
- ⇒ **Prior to disconnecting the control unit, switch off the ignition and remove the ignition key.**
- ⇒ **Ensure that the power supply is not interrupted during programming.**
- ⇒ **Connect battery charger/power supply suitable for AGM Type batteries, recommended current rating of 70A fixed voltage 13.5V to 14.5V.**



Information

The **9900 - PIWIS Tester III** instructions take precedence since the description may be different with later Tester releases.

The procedure described here has been structured in general terms; different text or additions may appear on the **9900 - PIWIS Tester III**.

8 Code control units.

8.1 Connect a battery charger. ⇒ *Workshop Manual '2X00IN Battery trickle charging'*

8.2 **9900 - PIWIS Tester 3** must be connected before switching on the ignition.

8.3 **Only** for vehicles with new steering-column switch and steering wheel electronics control unit.

Write basic coding from PCM.

8.3.1 Select **Steering wheel electronics** control unit. Press **•F11** to confirm the question "Create vehicle analysis log (VAL)?".

Switch to the **Maintenance/repairs** menu.

8.3.2 Select **Control unit replacement**. Press **•F12** to continue.

8.3.3 Select **Write data** mode. Press **•F12** to continue.

Press **•F8** to write basic information.

Wait until the message **Coding has been written successfully** appears. Press **•F12** to continue.

8.3.4 Press **•F11** to go back. Switch to the **Overview** menu.

8.4 Check the chassis number in the steering wheel electronics control unit.

8.4.1 Select **Steering wheel electronics** control unit.

8.4.2 Switch to the **Extended identification** menu. Check the chassis number and change it if necessary.

8.5 Maintenance of vehicle data

8.5.1 **Additional menu** must now be selected by pressing **•F7** .

**Information**

Steering wheels are listed either in the value group X numbers or M numbers. The multi-function sport steering wheel in Carbon (I-no. XHW) is deleted from the vehicle equipment as an example.

- 8.5.2 Select the **Maintenance of vehicle data** function. Press •F12" until **X numbers** appears in the Value group column.
- 8.5.3 Select **XHW – MF sports steering wheel, Carbon** in the Coding value column. Touch the **Installed** cell – the tick after the value **XHW – MF steering wheel, Carbon** disappears. Press •F8" to save the value. The message **Modified values have been buffered** appears.

**Information**

If the GT sport steering wheel in Alcantara (XLL) is retrofitted, the vehicle data is updated in the value group X.

- 8.5.4 Press •F12" until **M numbers** appears in the Value group column. Select **858 – GT sports steering wheel, leather** in the Coding value column. Touch the **Installed** cell – a tick appears next to the value **858 – GT sports steering wheel, leather**. Press •F8" to save the value. The message **Modified values have been buffered** appears.
- 8.5.5 Select **489 – MF operation and heated steering wheel** in the Coding value column if necessary. Touch the **Installed** cell – a tick appears next to the value **489 – MF operation + heated steering wheel**. Press •F8" to save the value. The message **Modified values have been buffered** appears.
- 8.5.6 A table containing the values to be changed appears. Save the values by pressing •F8" . Wait until the message **Generation of vehicle data is complete.....** appears.
- 8.5.7 Press •F12" to switch to Report management. Open the log by pressing •F10" and check that the following vehicle equipment has been entered:
- e.g. – **GT sports steering wheel, leather (858)**
 - **MF operation + heated steering wheel (489)**

Check that the vehicle equipment **MF sports steering wheel, Carbon (XHV)**, for example, is no longer entered.

Close the log.

8.6 Adapt coding.

8.6.1 Press **•F11** to return to the list of control units.

Select all control units by pressing **•Ctrl A** .

8.6.2 Switch to the **Codings/adaptations** menu.

Select **Automatic coding** mode. Press **•F12** to continue.

Wait until the message **Coding has been completed successfully** appears.

Press **•F12** to continue.

8.7 **Only** for vehicles with new steering-column switch and steering wheel electronics control unit:

Enable functions.

8.7.1 Switch to the **Maintenance/repairs** menu. Select the **Function enable** function.

8.7.2 Enable the **Heated steering wheel and multi-function steering wheel** function. Enter the activation codes and confirm by touching the Status cell.

8.7.3 Enable the **Cruise control** function if necessary. Enter the activation code and confirm by touching the Status cell.

8.7.4 Press **•F8** to execute. Wait until the message **Enable was successful** appears. Press **•F12** to continue.

8.8 Calibrate steering-angle sensor. ⇒ *Workshop Manual '456005 Initialising and calibrating PSM steering-angle sensor'*

8.9 Read out the fault memories of all systems, work through any existing faults and erase the fault memories. ⇒ *Workshop Manual '033500 Fault memory for on-board diagnosis'*

8.10 Switch off ignition and disconnect **9900 - PIWIS Tester 3**.

8.11 Disconnect the battery charger. ⇒ *Workshop Manual '2X00IN Battery trickle charging'*

48103100:

Converting steering wheel

Labor time: **120 TU**

Includes: Removing and installing steering wheel and replacing steering-column switch and steering wheel electronics control unit, updating vehicle data, enabling multi-function steering wheel, heated steering wheel and cruise control, erasing fault memory

48101900:	Removing and installing steering wheel	Labor time: 38 TU
	Includes: For vehicles with multi-function operation and heated steering wheel (I-no. 489): removing standard steering wheel, installing new steering wheel	
	Without: Updating vehicle data, erasing fault memory	
03350050:	On-board diagnosis (OBD)	Labor time: 14 TU

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