911 (991) 42/15 EN 4810

GT sports steering wheel including multi-function and steering wheel heating

Situation: 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)



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Part	No ·
ιαιι	110

	Vehicles with manual transmission (487)
991.044.400.22	\Rightarrow GT sports steering wheel, Alcantara (XLL)
991.044.400.23	\Rightarrow GT sports steering wheel, Alcantara (XLL), Sport Chrono (QR4/QR5)
991.044.400.30 FFF ¹	\Rightarrow GT sports steering wheel, leather (858)
991.044.400.31 FFF ¹	\Rightarrow GT sports steering wheel, leather (858), Sport Chrono (QR4/QR5)
	Vehicles with PDK (250)
991.044.400.20	\Rightarrow GT sports steering wheel, Alcantara (XLL)
991.044.400.21	\Rightarrow GT sports steering wheel, Alcantara (XLL), Sport Chrono (QR4/QR5)
991.044.400.32 FFF ¹	\Rightarrow GT sports steering wheel, leather (858)
991.044.400.33 FFF ¹	\Rightarrow GT sports steering wheel, leather (858), Sport Chrono (QR4/QR5)

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

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

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
991.552.983.05 FFF ²	1 x	Distance Control (ADC) (456) 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 colour 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

Sep 1, 2016 Page 2 of 10	Tequipment	© Dr. Ing. h.c. F. Porsche AG Printed in Germany
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911 (991) 42/15 EN

4

4810

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

911 (991) 4810 en 42/15

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 \Rightarrow Figure 2-1-
N.910.207.01	1 x	Screw, M18 x 1.5 x 26 \Rightarrow Figure 2 -2-

Activation code:

ation Heated steering wheel, multi-function steering wheel

You can request the activation codes using the ordering process shown in the table. The activation code for cruise control is shown in the vehicle code information.

Sep 1, 2016	© Dr. Ing. h.c. F. Porsche AG
Page 4 of 10 Tequipment	Printed in Germany

42/15 EN 4810

911 (991)

4



Tools: 9900 - PIWIS Tester 3

Notes:

Observe the relevant legal regulations in the various countries!

Information

The specifications provided under \Rightarrow *Workshop Manual '6X00IN Handling and replacing airbag and seat-belt pretensioner units* 'must be followed!

Within Germany: Explosives legislation – SprengG:

The removed steering wheel with installed airbag and an airbag unit that may have been removed must never be handed over to private individuals. It is also prohibited to hand these over to people/companies that do not comply with the requirements as per the Explosives Act (SprengG), Explosives Storage Directive 240 as well as the corresponding ordinances of SprengG.

In accordance with § 14 of the Explosives Act (SprengG), the handling of airbag units is notifiable to the authorities. They may only be stored in compliance with the Explosives Storage Directive 240 "Storage of airbag and seat belt-pretension units"; always observe the maximum quantities regarding net explosive mass (NEM) specified therein. Employees working with airbag units must possess the specific specialist skills according to § 4 subsection 3 of the First Ordinance of SprengG. Removed airbag units must be stored, transported and disposed off in accordance with the stipulations in the Explosives Act, the Explosives Storage Directive 240 as well as the corresponding ordinances of SprengG.

For European Union (EU) member states:

The GT sports steering wheel described here is contained in the following EU general certifications for 911 vehicles and has been tested and approved for use in the Porsche standard-production vehicles specified below in accordance with ECE Regulation No. 12 Amendment No. 04:

- 991:	e13*2007/46*1187*12
– 991 Turbo:	e13*2007/46*1188*04

Applicable only in Germany:

Approval of installation or fitting in accordance with § 19 or § 21 StVZO (German Road Traffic Regulations) and revision of the vehicle documents is not necessary since the GT sports steering wheels specified above were approved with the vehicle at the factory.

An excerpt on this topic can be retrieved from the EU type approval system in the PIWIS information system. This excerpt must be used by the respective Porsche Centre to confirm that the components were fitted in accordance with regulations, and must be handed over to the customer. The excerpt confirming that components were installed according to regulations must be kept in the vehicle.

- Fitting: 1 Disconnect the battery. \Rightarrow 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. \Rightarrow 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. \Rightarrow Workshop Manual '945019 Removing and installing steering-column switch'

- 911 (991) 42/15 en 4810
- 4.5 Slide cover into the steering column casing \Rightarrow Figure 4 **arrow**-.

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'



Figure 4

- 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'

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
- \Rightarrow Prior to disconnecting the control unit, switch off ignition and remove ignition key.
- \Rightarrow Ensure that the power supply is not interrupted during programming.
- ⇒ Connect a battery charger with a current rating of at least Nominal value 40 A to the vehicle battery.

Information

The **9900 - PIWIS Tester 3** 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 additional information may appear in **9900 - PIWIS Tester 3**.

- 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 sports 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 sports 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 opera-tion + 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 \bullet 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 Ena l pears. Press •F12" to continue.	ble was successful ap-
	8.8		te steering-angle sensor. \Rightarrow Workshop Manual '456005' M steering-angle sensor'	5 Initialising and calibrat-
	8.9		ut the fault memories of all systems, work through any elt memories. \Rightarrow <i>Workshop Manual '033500 Fault memo</i>	0
	8.10	Switch	off ignition and disconnect 9900 - PIWIS Tester 3.	
	8.11	Discon	nect the battery charger. \Rightarrow Workshop Manual '2X00IN	Battery trickle charging'
48103100:	Converting	steering	y wheel	Labor time: 120 TU
	Includes:	steeri contro steeri	wing and installing steering wheel and replacing ing-column switch and steering wheel electronics ol unit, updating vehicle data, enabling multi-function ing wheel, heated steering wheel and cruise control, ng fault memory	
48101900:	Removing a Includes:	For ve steeri	lling steering wheel chicles with multi-function operation and heated ing wheel (I-no. 489): removing standard steering , installing new steering wheel	Labor time: 38 TU
	Without:		ting vehicle data, erasing fault memory	

03350050: On-board diagnosis (OBD)

Labor time: 14 TU

Sep 1, 2016	
Page 10 of 10	