

WMM7 - Replacing VTS Control Unit (Workshop Campaign)

Revision: This bulletin replaces bulletin Group 9 180/21 WMM7, dated November 23, 2021.

Model Year: **As of 2014 up to 2021**

Model Line: **Panamera (970)
Panamera (971)
911 (991)
Boxster/Cayman (982)
918
Cayenne (92A)
Macan (95B)**

Concerns: **VTS control unit**

Situation: **The VTS control unit used in the affected vehicles only supports the GSM/UMTS or 2G/3G mobile phone standard.**
Due to the planned deactivation of these mobile phone standards in the North American region, the following Connect services together with the old VTS control unit will no longer be available as of Spring 2022:

- eCall System
- Breakdown Call
- VTS (Vehicle Tracking System)
- Connect app

Action required: Replace the VTS control unit with a VTS control unit that is compatible with the 4G mobile phone standard.

Affected vehicles: Only vehicles assigned to the campaign (see also PCSS Vehicle Information).

Required tools

Tools:

- **9900 - PIWIS Tester 3** with PIWIS Tester software version **40.650.030** (or higher) installed
- Battery charger with a current rating of **at least 90 A**, e.g. **VAS 5908 Battery charger 90A**

Parts required - Panamera (970)

Parts Info:

Part No.	Designation	Qty.
V04015001FN	⇒ VTS control unit	1 ea.
WHT006947	⇒ Shear-off nut	2 ea.

Parts required - Panamera (971)

Parts Info:

Part No.	Designation	Qty.
V04015001FM	⇒ VTS control unit	1 ea.

Parts required - Boxster/Cayman (982)Parts Info: **Valid for Scope 3 (Production date up to 24/01/2017)**

Part No.	Designation	Qty.
V04015001FN	⇒ VTS control unit	1 ea.
PAF910207	⇒ Internal serration screw for steering wheel	1 ea.

Parts Info: **Valid for Scope 4 (Production date from 25/01/2017)**

Part No.	Designation	Qty.
V04015001FN	⇒ VTS control unit	1 ea.
N 90799102	⇒ Internal serration screw for steering wheel	1 ea.

Parts required - 918

Parts Info:

Part No.	Designation	Qty.
V04015001FN	⇒ VTS control unit	1 ea.
99907331209	⇒ Screw M10 x 30.6	2 ea.

90081700302	⇒ Lock nut, M10	2 ea.
PAF009057	⇒ Hexagon-head bolt	1 ea.

Parts required - Cayenne (92A)

Parts Info:

Part No.	Designation	Qty.
V04015001FN	⇒ VTS control unit	1 ea.
WHT006947	⇒ Shear-off nut	2 ea.

Parts required - Macan (95B)

Parts Info:

Part No.	Designation	Qty.
V04015001FN	⇒ VTS control unit	1 ea.
WHT006947	⇒ Shear-off nut	2 ea.

Parts required - 911 (991)

Parts Info:

Part No.	Designation	Qty.
V04015001FN	⇒ VTS control unit	1 ea.
N 90799102	⇒ Internal serration screw for steering wheel	1 ea.

Initiating the device replacement procedure in the Porsche Car Connect Online support tool

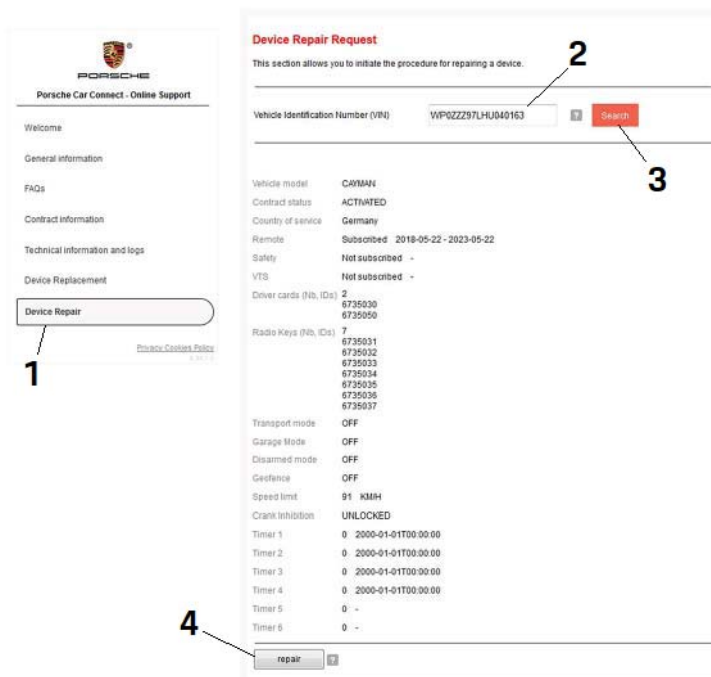
Work Procedure: If the Dealer Web Portal indicates the vehicle has an Active Contract, then use the Device Replacement Function in the portal. If there is not an Active Contract, it is not necessary to use the Device Replacement Function in the portal.

Note: Customers and Dealership employees can contact the Porsche Car Connect support center by calling 1-866-253-1742. This may be necessary due to security controls limiting vehicle tracking service information and control unit status information.

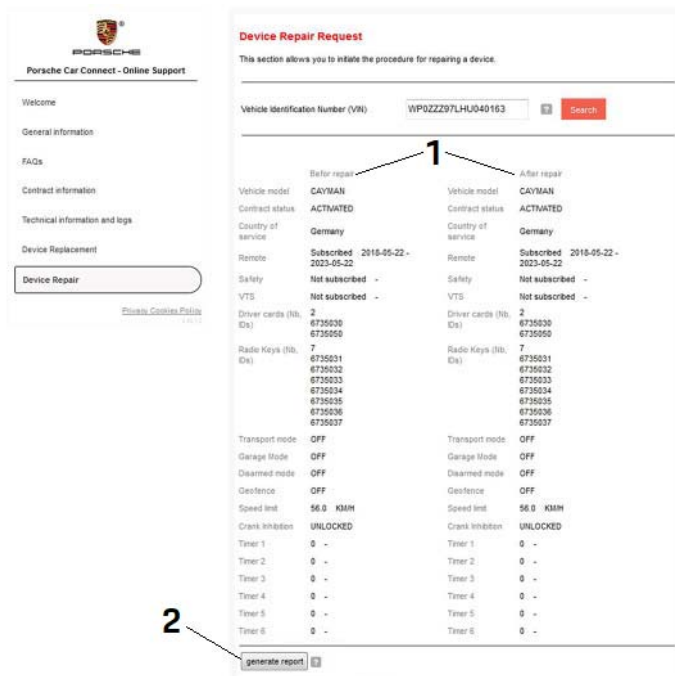
Performing a software update via the Dealer Web Portal

- 1 Read out the control unit software version using the PIWIS Tester
 - a. Select the "Porsche Vehicle Tracking System (PVTs)" control unit

- b. Select the "**Extended identifications**" tab
 - c. Check the software version; it must be less than "**0930**"
- 2 Perform a software update
- a. Ensure the PVTs CU has sufficient mobile (GSM) and satellite (GPS) reception. **Note:** the PVTs CU contains an embedded SIM card and Vodafone manages data connection for service to this CU. No plug-in SIM is required to perform this update. To perform the update on a vehicle that does not have a customer contract set up, activate the vehicle using the dealership demo account. Perform the update as directed below, then remove the vehicle from the demo account. Activating the vehicle via the demo account allows this update without starting the customer's free trial period of Porsche Car Connect
 - b. Access the Porsche Partner Network (PPN) --> Online Systems --> **Porsche Car Connect (Online Support)**
 - c. Select "**Device repair**" ⇒ *1 Device Repair Markup -1-*
 - d. Enter the **VIN** ⇒ *1 Device Repair Markup -2-* and click "**Search**" ⇒ *1 Device Repair Markup -3-*. Vehicle information and settings are displayed. **Note:** If the error message, "This device is not eligible to the repair process" is displayed, please verify the VIN entered is correct and retry the Search function several times. Also, try refreshing/reloading the webpage. If the same error message is received after several retries, then it may be necessary to replace the control unit.
 - e. After Vehicle information and settings are displayed, click the **Repair** button ⇒ *1 Device Repair Markup -4-*. Once the update is completed successfully, the message "Your vehicle configuration has been updated" will appear briefly. **Note:** If the update is not successful after the third attempt, please contact the Porsche Car Connect support center to verify vehicle information and settings as well as PVTs status by VIN.
 - f. Check whether all information and settings are the same after the repair function is completed ⇒ *2 Generate Report Markup -1-*, then click the "**Generate Report**" button ⇒ *2 Generate Report Markup -2-*.
 - g. Verify the Immobilizer is deactivated. The "**Crank inhibition**" value should show "**Unlocked**" after repair ⇒ *3 Immobilizer Deactivated Markup -1-*.



1 Device Repair Markup



2 Generate Report Markup



Telematics Device Upgrade Report

VIN Number	WP0ZZZ97LHU040163	Contract Number	0100089649
Report status	FAIL		
	before repair	after repair	
Vehicle model	CAYMAN	CAYMAN	
Contract status	Activated	Activated	
Country of service:	Germany	Germany	
Remote Service	Subscribed 2018-05-22 - 2023-05-22	Subscribed 2018-05-22 - 2023-05-22	
Safety Service	Not Subscribed -	Not Subscribed -	
Security Service	Not Subscribed -	Not Subscribed -	
Number of Driver cards	2, 6735030, 6735050	0	
Number of Remote keys	7, 6735031, 6735032, 6735033, 6735034, 6735035, 6735036, 6735037	0	
Garage mode	Off	-	
Transport mode	Off	-	
Disarmed mode	Off	-	
Geofence	Off	Off	
Speed limit	56.0 KMH	Off	
Timer 1	0 -	--	
Timer 2	0 -	--	
Timer 3	0 -	--	
Timer 4	0 -	--	
Timer 5	0 -	--	
Timer 6	0 -	--	
Crank inhibition	Locked	Unlocked 1	

OTAP_CONF_KEEP : INVALID_MODE

3 Immobilizer Deactivated Markup

- 3 Read out the control unit software version using the PIWIS Tester
 - a. Select the **"Porsche Vehicle Tracking System (PVTs)"** control unit
 - b. Select the **"Extended identifications"** tab
 - c. Check the software version; it must be less than **"0930"**

Replacing VTS control unit - Panamera (970)

- Work Procedure: 1 Replace VTS control unit.
For instructions, see: ⇒ *Workshop Manual 'Replacing PCC/PVTS control unit'*.
- 2 Enter the campaign in the Warranty and Maintenance booklet.

Replacing VTS control unit - Panamera (971)

- Work Procedure: 1 Replace VTS control unit.
 For instructions, see: ⇒ *Workshop Manual 'Replacing PCC/PVTS control unit'*.
- 2 Enter the campaign in the Warranty and Maintenance booklet.

Replacing VTS control unit - Boxster/ Cayman (982)

- Work Procedure: 1 Replace VTS control unit.
 For instructions, see: ⇒ *Workshop Manual 'Replacing PCC/PVTS control unit'*.
- 2 Enter the campaign in the Warranty and Maintenance booklet.

Replacing VTS control unit - 918

- Work Procedure: 1 Replace VTS control unit.
 For instructions, see: ⇒ *Workshop Manual 'Replacing control unit for auxiliary alarm system'*.
- 2 For instructions, see: ⇒ *Workshop Manual 'Activating PCC/PVTS'*
- 3 Enter the campaign in the Warranty and Maintenance booklet.

Replacing VTS control unit

- Work Procedure: 1 Replace VTS control unit.
 For instructions, see: ⇒ *Workshop Manual 'Replacing PCC/PVTS control unit'*.
- 2 Enter the campaign in the Warranty and Maintenance booklet.

Replacing VTS control unit - Macan (95B)

- Work Procedure: 1 Replace VTS control unit.
 For instructions, see: ⇒ *Workshop Manual 'Replacing PCC/PVTS control unit'*.
- 2 Enter the campaign in the Warranty and Maintenance booklet.

Replacing VTS control unit - 911 (991)

- Work Procedure: 1 Replace VTS control unit.
 For instructions, see: ⇒ *Workshop Manual 'Replacing PCC/PVTS control unit'*.
- 2 Enter the campaign in the Warranty and Maintenance booklet.

Warranty processing

Scope 1: Replacing VTS control unit

• **Panamera (970)****Working time:**

Replacing VTS control unit

Labor time: **239 TU**

Includes: Connecting and disconnecting battery charger
 Connecting and disconnecting PIWIS Tester
 Removing and installing auxiliary alarm system control unit
 Re-programming auxiliary alarm system control unit
 Reading out and erasing fault memory
 Creating Vehicle Analysis Log

Parts required:

V04015001FN	VTS control unit	1 ea.
WHT006947	Shear-off nut	2 ea.

⇒ **Damage Code WMM7 066 000 1**

Scope 2: Replacing VTS control unit

• **Panamera (971)****Working Time:**

Replacing VTS control unit

Labor time: **205 TU**

Includes: Connecting and disconnecting battery charger
 Connecting and disconnecting PIWIS Tester
 Removing and installing lower part of center console
 Removing and installing auxiliary alarm system control unit
 Re-programming auxiliary alarm system control unit
 Reading out and erasing fault memory
 Creating Vehicle Analysis Log

Parts required:

V04015001FM	VTS control unit	1 ea.
-------------	------------------	-------

⇒ **Damage Code WMM7 066 000 1**

Scope 3: Replacing VTS control unit

- **Boxster/Cayman (982)**
- **Production date up to 24/01/2017**

Working Time:

Replacing VTS control unit Labor time: **339 TU**

Includes: Connecting and disconnecting battery charger
 Connecting and disconnecting PIWIS Tester
 Removing and installing dashboard
 Removing and installing auxiliary alarm system control unit
 Re-programming auxiliary alarm system control unit
 Reading out and erasing fault memory
 Creating Vehicle Analysis Log

Parts required:

V04015001FN	VTS control unit	1 ea.
PAF910207	Internal serration screw for steering wheel	1 ea.

⇒ **Damage Code WMM7 066 000 1**

Scope 4: Replacing VTS control unit

- **Boxster/Cayman (982)**
- **Production date from 25/01/2017**

Working Time:

Replacing VTS control unit Labor time: **339 TU**

Includes: Connecting and disconnecting battery charger
 Connecting and disconnecting PIWIS Tester
 Removing and installing dashboard
 Removing and installing auxiliary alarm system control unit
 Re-programming auxiliary alarm system control unit
 Reading out and erasing fault memory
 Creating Vehicle Analysis Log

Parts required:

V04015001FN	VTS control unit	1 ea.
N 90799102	Internal serration screw for steering wheel	1 ea.

⇒ **Damage Code WMM7 066 000 1**

Scope 5: Replacing VTS control unit

- **918**

Working Time:

Replacing VTS control unit

Labor time: **428 TU**

Includes: Connecting and disconnecting battery charger
 Connecting and disconnecting PIWIS Tester
 Removing and installing passenger seat
 Loosening main fuse box
 Removing and installing auxiliary alarm system control unit
 Re-programming auxiliary alarm system control unit
 Reading out and erasing fault memory
 Creating Vehicle Analysis Log

Parts required:

V04015001FN	VTS control unit	1 ea.
99907331209	M10X30,6 screw	2 ea.
90081700302	Lock nut, M10	2 ea.
PAF009057	Hexagon-head bolt	1 ea.

⇒ **Damage Code WMM7 066 000 1**

Scope 6: Replacing VTS control unit

- **Cayenne (92A)**

Working time:

Replacing VTS control unit

Labor time: **77 TU**

Includes: Connecting and disconnecting battery charger
 Connecting and disconnecting PIWIS Tester
 Removing and installing auxiliary alarm system control unit
 Re-programming auxiliary alarm system control unit
 Reading out and erasing fault memory
 Creating Vehicle Analysis Log

Parts required:

V04015001FN	VTS control unit	1 ea.
WHT006947	Shear-off nut	2 ea.

⇒ **Damage Code WMM7 066 000 1**

Scope 7: Replacing VTS control unit

- **Macan (95B)**

Working time:

Replacing VTS control unit Labor time: **94 TU**

Includes: Connecting and disconnecting battery charger
 Connecting and disconnecting PIWIS Tester
 Removing and installing auxiliary alarm system control unit
 Re-programming auxiliary alarm system control unit
 Reading out and erasing fault memory
 Creating Vehicle Analysis Log

Parts required:

V04015001FN	VTS control unit	1 ea.
WHT006947	Shear-off nut	2 ea.

⇒ **Damage Code WMM7 066 000 1**

Scope 8: Replacing VTS control unit

- **911 (991)**

Working time:

Replacing VTS control unit Labor time: **403 TU**

Includes: Connecting and disconnecting battery charger
 Connecting and disconnecting PIWIS Tester
 Removing and installing auxiliary alarm system control unit
 Re-programming auxiliary alarm system control unit
 Reading out and erasing fault memory
 Creating Vehicle Analysis Log

Parts required:

V04015001FN	VTS control unit	1 ea.
N 90799102	Internal serration screw for steering wheel	1 ea.

⇒ **Damage Code WMM7 066 000 1**

Important Notice: Technical Bulletins issued by Porsche Cars North America, Inc. are intended only for use by professional automotive technicians who have attended Porsche service training courses. They are written to inform those technicians of conditions that may occur on some Porsche vehicles, or to provide information that could assist in the proper servicing of a vehicle. Porsche special tools may be necessary in order to perform certain operations identified in these bulletins. Use of tools and procedures other than those Porsche recommends in these bulletins may be detrimental to the safe operation of your vehicle, and may endanger the people working on it. Properly trained Porsche technicians have the equipment, tools, safety instructions, and know-how to do the job properly and safely. Part numbers listed in these bulletins are for reference only. The work procedures updated electronically in the Porsche PIWIS diagnostic and testing device take precedence and, in the event of a discrepancy, the work procedures in the PIWIS Tester are the ones that must be followed.

© 2022 Porsche Cars North America, Inc.