

WLG2 - Updating Software for Various Control Units (Workshop Campaign)

Important: **CRITICAL WARNING** -This campaign includes steps where control unit(s) in the vehicle will be programmed with the PIWIS Tester. The vehicle voltage must be maintained between 13.5 volts and 14.5 volts during this programming. Failure to maintain this voltage could result in damaged control unit(s). Damage caused by inadequate voltage during programming is not a warrantable defect. The technician must verify the actual vehicle voltage in the PIWIS Tester before starting the campaign and also document the actual voltage on the repair order.

Model Year: 2020

Model Line: Taycan (Y1A)

Subject: Software update (software release VR8.7)

Information: **Software optimizations are available for various control units for the Taycan.**
 An overview of the new features that will be implemented with the software update can be found in the enclosure under ⇒ *Technical Information 'Overview of new features implemented by the software updates'*.

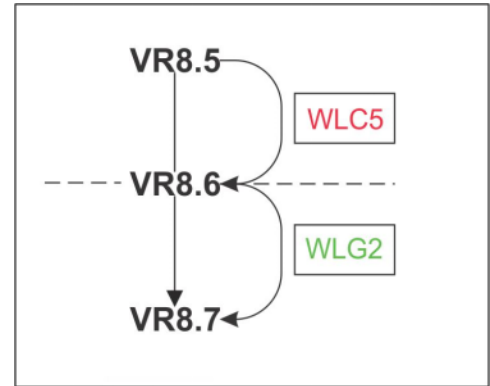
Remedial Action: Update the software for the following control units using the PIWIS Tester with test software version **39.600.015** (or higher) installed or USB storage medium. For details of affected control units, see overview below.



Information

During this campaign, the VR8.7 software release will be installed on the affected vehicles. The prerequisite for this is that the previous VR8.6 software release is also installed on the vehicle. In order to ensure that the software updates are installed in the correct order on all vehicles - regardless of whether or not the VR8.6 software release is already installed - campaign WLC5 for programming the VR8.6 software release was closed with the introduction of this campaign WLG2 and the corresponding programming scopes were transferred to this campaign.

Depending on whether or not the previous VR8.6 software release must first be programmed on the relevant vehicle as a prerequisite for the subsequent programming of the VR8.7 software release, the vehicles were assigned to the correct respective campaign scope. Before carrying out the campaign, the scope of the campaign assigned to the relevant vehicle must therefore be checked and carried out accordingly.



Evolution Taycan Software Updates

Overview of control units for software release VR8.6			
Control unit	Programming time	Action required	
		program	code
Combined software update for various control units (Update via PIWIS Tester) Includes: <ul style="list-style-type: none"> Over-the-air (OTA) control unit Control unit for high-voltage power electronics, front and rear Control unit for high-voltage charger (OBC) High-voltage battery control unit (BMCe) Control unit for chassis control (PASM) Air-conditioning system regulator control unit, rear Instrument cluster Porsche Communication Management (PCM) control unit Thermal management (TME) Roll stabilization (PDCC) Brake electronics (PSM) Headlight, left and right 	approx. 120 minutes		
		<ul style="list-style-type: none"> ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ 	<ul style="list-style-type: none"> ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■

Rear-end electronics (BCM2)			■
Porsche Communication Management (PCM) control unit (Update via USB storage medium)	approx. 30 minutes	■	■

Overview of control units for software release VR8.7			
Control unit	Programming time	Action required	
		program	code
Combined software update for various control units (Update via PIWIS Tester) Includes: Control unit for high-voltage power electronics, front and rear Control unit for high-voltage charger (OBC) High-voltage battery control unit (BMCe) Control unit for chassis control (PASM) HV voltage converter Brake booster (electric brake booster) High-voltage DC charger (booster) Engine electronics (DME) Brake electronics (PSM) Driver's seat and passenger's seat adjustment Assistance systems (zFAS) Control unit for air-conditioning system control	approx. 100 minutes	■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	■ ■ ■ ■ ■ ■ ■ ■ ■ ■

Affected Vehicles: Only vehicles assigned to the campaign (see also PCSS Vehicle Information). There are 2,387 vehicles affected by this campaign.

Required tools



Information

The Taycan (Y1A) is equipped as standard with a **lithium starter battery**.

Lithium starter batteries must only be charged using a **suitable battery charger** that has a current and voltage-controlled charge map.

For further information about the battery chargers to be used, see ⇒ *Workshop Manual '270689 Charging battery/vehicle electrical system'*.

Tools:

- Battery charger with a current rating of **at least 90 A** and - if required - **also with a current- and voltage-controlled charge map** for lithium starter batteries, e.g. **VAS 5908 90 A battery charger**
- **9900 - PIWIS Tester 3** with test software version **39.600.015** (or higher) installed.

Also required for **vehicles with Scope 1 (VR8.6 update)**:

- **USB storage medium Type A+C 32 GB (for PCM update)**, Part No. V04014999WW000



Information

The PCM software update is performed using a USB storage medium. The software version that is specific to each region must be **downloaded** using the software tool **PiUS** (Porsche integrated Update Service) and **installed** on a blank USB storage medium.

Pay particular attention to the following:

- For this PCM software update, the USB storage medium USB Type A+C 32 GB with the part number V04014999WW000 must be used.
- To use the software tool, **one** blank or re-writable USB storage medium is required for **each** individual software update.
- The software available in PiUS must **only** be used in accordance with the instructions provided in a Technical Information published for this purpose.

The software mentioned here must **only** be used on the **vehicles assigned to the campaign**. Damage to the central computer cannot be ruled out if the software is used on other vehicles.

You will find further information on how to install and use the PiUS software tool in the PPN portal under ***PiUS (Porsche integrated Update Service) goes live***.

Overview of PiUS software versions – PCM update		
Part No.	Designation – Region	Vehicle assignment
9J1919360A	PCM update software – North America – Mexico	I-no. ER3/ER4

Preparatory work

NOTICE

Fault entry in the fault memory and control unit programming aborted due to low voltage.

- Increased current draw during diagnosis or control unit programming can cause a drop in voltage, which can result in one or more fault entries and the abnormal termination of the programming process.
- ⇒ Before starting control unit programming, connect a suitable battery charger with a current rating of at least 90 A to the vehicle.

NOTICE

Control unit programming will be aborted if the WLAN connection is unstable.

- An unstable WiFi connection can interrupt communication between the PIWIS Tester and the vehicle communication module (VCI). As a result, control unit programming may be aborted.
- ⇒ During control unit programming, always connect the PIWIS Tester to the vehicle communication module (VCI) via the USB cable.

NOTICE

Control unit programming will be aborted if the driver's key is not recognized

- If the driver's key is not recognized in the vehicle, programming cannot be started or will be interrupted.
- ⇒ Position the driver's key with the back facing forward upright between the holding struts in the rear cupholder (emergency start tray) to guarantee a permanent radio link between the vehicle and remote control.

NOTICE

Programming interrupted

- Malfunctions in control unit
 - Risk of damage to control unit
- ⇒ Route the line between the vehicle communication module (VCI) and diagnostic socket on the vehicle without tension and make sure that the connector is inserted fully into the diagnostic socket.

⇒ Check that the rechargeable battery for the PIWIS Tester is charged sufficiently. Connect the PIWIS Tester to the power supply unit if necessary.



Information

To carry out the campaign, the PIWIS Tester must be online and logged into the Porsche Partner Network (PPN).



Information

The procedure described here is based on the PIWIS Tester 3 software version **39.600.015**.

The PIWIS Tester instructions take precedence and in the event of a discrepancy, these are the instructions that must be followed.

A discrepancy may arise with later software versions for example.

- Work Procedure: 1 Connect a suitable battery charger, e.g. **Battery charger 90A**, to the jump-start terminals in the luggage compartment and switch it on.
- 2 Position the **driver's key** with the back facing forward upright between the holding struts in the rear cupholder (**emergency start tray**) to guarantee a permanent radio link between the vehicle and remote control ⇒ *Emergency start tray*.
- 3 Connect the **9900 - PIWIS Tester 3** to the Vehicle Communication Module (VCI) via the **USB cable**. Then, connect the Communication Module to the vehicle and switch on the PIWIS Tester. Due to the long programming time, connect the **PIWIS Tester to the power supply during the operation**.



Emergency start tray



Information

Use the **new** PIWIS Tester data cable for carrying out the campaign. The difference between the old ⇒ *PIWIS Tester data cable -1-* and new ⇒ *PIWIS Tester data cable -2-* data cable is shown in the illustration.

If the connection between the vehicle and PIWIS Tester is interrupted, check the data cable for the PIWIS Tester for signs of damage. If the data cable is damaged, it **must be replaced**. To do this, follow the instructions in the PPN for "Returning faulty USB cable caps" (PPN portal > Dr Ing. h.c. F. Porsche AG > Aftersales > Workshop > PIWIS > Documents).

4 Establish operational readiness (switch on ignition).

5 On the PIWIS Tester start screen, call up the '**Diagnos**tics' application.

The vehicle type is then read out, the diagnostic application is started and the control unit selection screen is populated.

6 Create vehicle analysis log (VAL) using the PIWIS Tester.

Mark the vehicle analysis log you have just created with the attribute "Initial VAL" and after carrying out the campaign, return it using the PIWIS Tester.



PIWIS Tester data cable



Information

Depending on whether or not the previous VR8.6 software release must first be programmed on the relevant vehicle as a prerequisite for the subsequent programming of the VR8.7 software release, the vehicles were assigned to the required campaign scope. Before carrying out the campaign, the scope of the campaign assigned to the relevant vehicle must therefore be checked and carried out accordingly.

7 Update software for various control units:

Allocation	Software release	Action required
Scope 1:	<ul style="list-style-type: none"> VR8.6 VR8.7 	To do this, continue with ⇒ <i>Technical Information '270689 Updating software for various control units (VR8.6)'</i> .
Scope 2:	<ul style="list-style-type: none"> VR8.7 	To do this, continue with ⇒ <i>Technical Information '270689 Updating software for various control units (VR8.7)'</i> .

Updating software for various control units (VR8.6)



WARNING

Electrically moved side windows and rear spoiler

- Danger of limbs being trapped or severed
 - Risk of damage to components
- ⇒ Rear door windows may drop a few inches during the campaign and remain open. If this is the case, please manually roll up the windows after the campaign is complete.
- ⇒ Do not reach into the danger area.
- ⇒ Keep third parties away from the danger area.
- ⇒ Do not move components or tools into the danger area.

Work Procedure: 1 The basic procedure for control unit programming is described in the Workshop Manual ⇒ *Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester'*.

For specific information on control unit programming during this campaign, see the table below:

Required PIWIS Tester software version:	39.600.015 (or higher)
Type of control unit programming:	Control unit programming using the "Campaign" function in the Additional menu on the PIWIS Tester by entering a programming code.
Programming code:	P5P8E
Programming sequence:	Read and follow the information and instructions on the PIWIS Tester during the guided programming sequence. Do not interrupt programming and coding. A backup documentation process for the re-programmed software versions starts as soon as programming and coding is complete.
Programming time (approx):	approx. 120 minutes

Software versions programmed during this campaign:	• Over-the-air (OTA) control unit 0861
	• High-voltage power electronics, front and rear 0006
	• Control unit for high-voltage charger (OBC) 1073
	• High-voltage battery control unit (BMCe) E860
	• Chassis control (PASM) 0896
	• Rear air conditioning control 0897
	• Instrument cluster 0394
Following control unit programming, the software version can be read out of the relevant control unit in the 'Extended identifications' menu using the PIWIS Tester.	
Procedure in the event of abnormal termination of control unit programming:	<ul style="list-style-type: none"> • End and restore operational readiness (switch ignition off and then on again). • Read out and erase fault memories ⇒ <i>Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester'</i>. • Repeat control unit programming by entering the programming code again and start extended logging using the key combination •Ctrl" + •L" . <p>Extended logging records diagnostic software data, particularly vehicle communication data, which is required for analysing the issues that caused programming to be aborted.</p> <ul style="list-style-type: none"> • Repeat the procedure described here again if control unit programming is aborted a second time.
Procedure in the event of error messages appearing during the programming sequence:	⇒ <i>Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester - section on "Fault finding"</i> .

2 Re-program Porsche Communication Management (PCM).

2.1 Open the armrest and remove the external device, e.g. iPod, USB storage medium, from the USB interface if necessary.

NOTICE

Using the software on vehicles that are not assigned to this campaign:

- Risk of damage to control unit

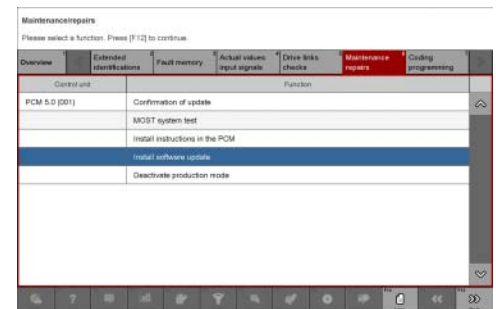
⇒ Use the listed software versions only for the vehicles assigned to the campaign.

- 2.2 Insert the **USB storage medium** with the software version specific to the respective region for the **PCM update** into the **USB interface**.

Part No.	Designation – Region	Vehicle assignment
9J1919360	USB storage medium for PCM update – Europe – ROW	I-no. ER1/ER2
9J1919360A	USB storage medium for PCM update – North America – Mexico	I-no. ER3/ER4

- 2.3 Start the PCM 6.0 software update using the PIWIS Tester.
- 2.4 Select the **PCM central computer** control unit in the control unit selection screen ('**Overview**' menu) and press •F12" ('Next') to confirm your selection.
- 2.5 Once the PCM central computer control unit has been found and is displayed in the 'Overview', select the '**Maintenance/repairs**' menu.

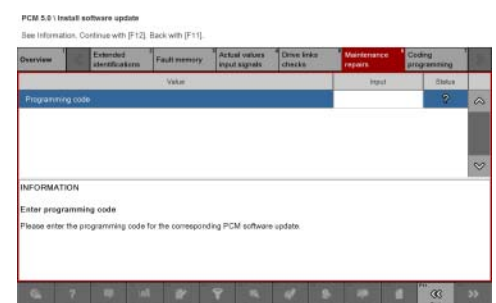
- 2.6 Select the '**Install software update**' function and press •F12" ('Next') to perform the software update ⇒ *Installing PCM 6.0 software update*.



Installing PCM 6.0 software update

- 2.7 Confirm the information that is displayed by pressing •F12" ('Next').
- 2.8 After meeting the preconditions, confirm by ticking the 'Status' column. Then, press •F12" ('Next') to continue.

- 2.9 Enter the programming code **U2C6J** in the relevant column ⇒ *Entering PCM 6.0 programming code* and press •F12" ('Next') to confirm ⇒ *Entering PCM 6.0 programming code*.



Entering PCM 6.0 programming code

- 2.10 Press •F8" ('Start').
- 2.11 After checking the software data, press •F8" ('Start') to start programming.

Once the update has started, the PCM is restarted in the Update menu and the individual components are then updated.

The update can take up to 30 minutes.

Read and follow the instructions displayed on the PIWIS Tester during the update. The PCM is restarted several times. The PCM screen remains dark for up to 3 minutes.

- 2.12 Once the update is complete, an overview is displayed showing processes that have been completed successfully marked with a tick in the Status box. Press •F12“ ('Next') to confirm.

- **Software version programmed during this campaign: 3276**

Following control unit programming, the software version can be read out of the PCM central computer control unit in the 'Extended identifications' menu using the PIWIS Tester.

- 2.13 Open the armrest and remove the USB storage medium from the USB interface.

- 3 Then, perform software update to software release VR8.7, see ⇒ *Technical Information '9X00IN Updating software for various control units (VR8.7)'*.

Updating software for various control units (VR8.7)



Electrically moved side windows and rear spoiler

- Danger of limbs being trapped or severed
- Risk of damage to components
- ⇒ Rear door windows may drop a few inches during the campaign and remain open. If this is the case, please manually roll up the windows after the campaign is complete.
- ⇒ Do not reach into the danger area.
- ⇒ Keep third parties away from the danger area.
- ⇒ Do not move components or tools into the danger area.

Work Procedure: 1 The basic procedure for control unit programming is described in the Workshop Manual ⇒ *Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester'*.

For specific information on control unit programming during this campaign, see the table below:

Required PIWIS Tester software version:	39.600.015 (or higher)
Type of control unit programming:	Control unit programming using the "Campaign" function in the Additional menu on the PIWIS Tester by entering a programming code.
Programming code:	V6P8C

Programming sequence:	<p>Read and follow the information and instructions on the PIWIS Tester during the guided programming sequence.</p> <p>Do not interrupt programming and coding.</p> <p>A backup documentation process for the re-programmed software versions starts as soon as programming and coding is complete.</p>
Programming time (approx):	Up to 100 minutes
Software versions programmed during this campaign:	<ul style="list-style-type: none"> • High-voltage power electronics, front and rear 0007
	<ul style="list-style-type: none"> • Control unit for high-voltage charger (OBC) 1079
	<ul style="list-style-type: none"> • High-voltage battery control unit (BMCe) E870
	<ul style="list-style-type: none"> • HV voltage converter 0899
	<ul style="list-style-type: none"> • Brake booster (electric brake booster) 0100
	<ul style="list-style-type: none"> • High-voltage DC charger (booster) 0990
	<ul style="list-style-type: none"> • Engine electronics (DME) 0005
	<ul style="list-style-type: none"> • Brake electronics (PSM) 0094
	<ul style="list-style-type: none"> • Driver's seat and passenger's seat adjustment 0064
	<ul style="list-style-type: none"> • Assistance systems (zFAS) 0355
Procedure in the event of abnormal termination of control unit programming:	<p>Following control unit programming, the software version can be read out of the relevant control unit in the 'Extended identifications' menu using the PIWIS Tester.</p> <ul style="list-style-type: none"> • End and restore operational readiness (switch ignition off and then on again). • Read out and erase fault memories ⇒ <i>Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester'</i>. • Repeat control unit programming by entering the programming code again and start extended logging using the key combination •Ctrl" + •L" . <p>Extended logging records diagnostic software data, particularly vehicle communication data, which</p>

	<p>is required for analysing the issues that caused programming to be aborted.</p> <ul style="list-style-type: none"> Repeat the procedure described here again if control unit programming is aborted a second time.
<p>Procedure in the event of error messages appearing during the programming sequence:</p>	<p>⇒ <i>Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester - section on "Fault finding"</i>.</p>

- Continue by reading out and erasing fault memories ⇒ *Technical Information '9X00IN Reading out and erasing fault memories'*.

Reading out and erasing fault memory

Work Procedure: 1 Read out and erase the fault memories of all control units.

- Press •F7" in the control unit selection screen ('Overview' menu) to call up the Additional menu.
- Select the function "Read all fault memories and erase if required" and press •F12" ('Next') to confirm your selection ⇒ *Erasing fault memories*.

The fault memories of the control units are read out.

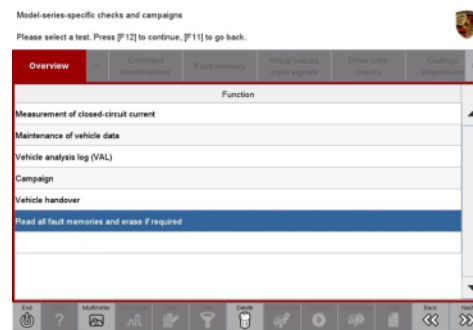
- Once you have read out the fault memories, check the fault memory entries.



Information

If control units are found to have faults that are **not** caused by control unit programming, these must first be **found** and **corrected**.

This work **cannot** be invoiced under the workshop campaign number.



Erasing fault memories

- Press •F8" to delete fault memory entries.
- Press •F12" ('Yes') in response to the question as to whether you really want to delete all fault memory entries.

The faults stored in the fault memories of the various control units are deleted.



Information

If fault memory entries for individual control units cannot be deleted, proceed as follows:

- End operational readiness (switch off ignition).
- Disconnect the PIWIS Tester diagnostic connector from the diagnostic socket.
- Lock the vehicle using the driver's key and remove the driver's key from the proximity of the vehicle (approx. 10 meter).
- Wait approx. 5 minutes before unlocking the vehicle again.
- Restore operational readiness (switch on ignition).
- Plug the PIWIS Tester diagnostic connector into the diagnostic socket again and restore communication with the vehicle.
- Read out the fault memory again and delete any fault memory entries that are stored.

- 1.6 Once you have erased the fault memories, select the **'Overview'** menu to return to the control unit selection screen ⇒ *Control unit selection*.



Control unit selection

Concluding work



Electrically moved side windows and rear spoiler

- Danger of limbs being trapped or severed
 - Risk of damage to components
- ⇒ Rear door windows may drop a few inches during the campaign and remain open. If this is the case, please manually roll up the windows after the campaign is complete.
- ⇒ Do not reach into the danger area.
- ⇒ Keep third parties away from the danger area.
- ⇒ Do not move components or tools into the danger area.

Work Procedure: 1 Standardize seat adjustment for driver's and passenger's side.

- 1.1 Select the '**Seat adjustment on front passenger's side**' control unit in the control unit selection screen ('**Overview**' menu) and press •F12" ('Next') to confirm your selection.
- 1.2 Once the seat adjustment on front passenger's side control unit has been found and is displayed in the overview, select the '**Maintenance/repairs**' menu.
- 1.3 Select the '**Standardize seat motors**' function and press •F12" ('Next') to confirm your selection.
- 1.4 Read the instructions and confirm by pressing •F12" ('Next').



Information

If seat standardization is aborted, the teaching process must be re-started by selecting the 'Standardize seat motors' function again.

- 1.5 Press •F8" ('Start') to run the procedure.
 - 1.6 Once the seat motors on the **passenger's side** have been standardized, also teach the **driver's side**. To do this, select the '**Seat adjustment on front driver's side**' control unit in the control unit selection screen ('**Overview**' menu) and **repeat steps 1.2 to 1.6**. Then, continue with **Step 2**.
- 2 Manually retract the rear spoiler, which extended automatically during programming.
- 2.1 Select the '**Rear spoiler**' control unit in the control unit selection screen ('**Overview**' menu) and press •F12" ('Next') to confirm your selection.
 - 2.2 Once the rear spoiler control unit has been found and is displayed in the overview, select the '**Maintenance/repairs**' menu.
 - 2.3 Select the function '**Teach rear spoiler**' and press •F12" ('Next') to confirm your selection.
 - 2.4 Read the instructions and confirm by pressing •F12" ('Next').
 - 2.5 Meet the displayed conditions that are to be checked manually and set a tick in the relevant '**Status**' box.
 - 2.6 Select the **Teach rear spoiler** function and press •F8" ('Execute') to confirm your selection.
 - 2.7 Once the rear spoiler has been taught and retracted fully, select the '**Overview**' menu to return to the control unit selection screen.
- 3 Create vehicle analysis log (VAL) using the PIWIS Tester.
Mark the vehicle analysis log you have just created with the attribute "Final VAL" and after carrying out the campaign, return it using the PIWIS Tester.
- 4 End operational readiness (switch off ignition).
- 5 Disconnect the PIWIS Tester from the vehicle.

- 6 Switch off and disconnect the battery charger.
- 7 Enter the campaign in the Warranty and Maintenance booklet.

Warranty processing



Information

The specified working times were determined specifically for carrying out this campaign and include all required preliminary and subsequent work.
The working times may differ from the working times published in the Labor Operation List in PIWIS.



Information

Information on the working time:

Generally, the working time includes all work that requires the active participation of the service technician.

This also covers all required preliminary work and subsequent work.

The working time includes the following activities during control unit programming:

- All required steps for starting or finishing programming
- Required interaction during a programming sequence
- Waiting times until programming starts
- Random check of programming status

If no further interaction by the service technician is required once control unit programming has started because programming is performed automatically, there is no need for the service technician to remain at the vehicle for the entire programming time.

These waiting times are not included in the working time if the total programming time is more than 15 minutes.

If programming takes up to 15 minutes, the full waiting time is included in the working time.

Scope 1: **Updating various control units one after the other to software release VR8.6 and VR8.7**

Working time:	
Updating various control units one after the other to software release VR8.6 and VR8.7	Labor time: 136 TU
Includes: Connecting and disconnecting battery charger Connecting and disconnecting PIWIS Tester Retracting rear spoiler manually Standardising driver's and passenger's seat adjustment Reading out and erasing fault memories Creating vehicle analysis logs (VAL) before and after repairs	
⇒ Damage Code WLG2 066 000 1	

Scope 2: **Updating various control units to software release VR8.7**

Working time:	
Updating various control units to software release VR8.7	Labor time: 111 TU
Includes: Connecting and disconnecting battery charger Connecting and disconnecting PIWIS Tester Standardising driver's and passenger's seat adjustment Retracting rear spoiler manually Reading out and erasing fault memories Creating vehicle analysis logs (VAL) before and after the campaign	
⇒ Damage Code WLG2 066 000 1	

Overview of new features implemented by the software updates

Overview:

Function	Description	Software update	
		VR8.6	VR8.7
Navigation and infotainment: Porsche Communication Management (PCM)	• Quick filter "Charging stations" is permanently visible in the PCM in order to select charging stations as a destination	■	
	• Last destinations and favorites, such as "Home" and "Work", remain stored	■	
	• Saved satellite map settings are optimized	■	
	• Registration via Porsche ID is improved	■	

Assistance systems	<ul style="list-style-type: none"> The functionality of Park Distance Control (PDC) is optimized and sporadic system failures that currently occur are corrected. 		■
Charging	<ul style="list-style-type: none"> A new charging cable with a cable length of 7.5 meter can also be used in the future 	■	
	<ul style="list-style-type: none"> The charge state calculation is optimized and thus any limited system shutdowns are avoided. 	■	
	<ul style="list-style-type: none"> At-home charging is improved. Any premature disruption of the charging process is prevented 		■
	<ul style="list-style-type: none"> The calculation of the battery capacity is optimized further 		■
Air conditioning	<ul style="list-style-type: none"> The functionality of the air conditioning is optimized: Temperature settings in the rear air-conditioning control panel thus remain constant and sporadic failures of the air conditioning are corrected 	■	
Chassis and driving comfort	<ul style="list-style-type: none"> The starting comfort at full acceleration is optimized 	■	
	<ul style="list-style-type: none"> Possible chassis noises from the front axle area are reduced 	■	
	<ul style="list-style-type: none"> The lift function is improved. The set vehicle height is not lost after a restart 		■
	<ul style="list-style-type: none"> Software optimizations improve the functionality of the Porsche Stability Management (PSM) when driving downhill or during stop-and-go driving 		■
Digital cockpit display (instrument cluster)	<ul style="list-style-type: none"> Various software optimizations prevent the sporadic, short-lived display of various messages and thus improve the driving experience 	■	■
Seat adjustment	<ul style="list-style-type: none"> On vehicles in non-Connect markets, the chosen seat memory settings of the driver's seat will now also be preserved after the driving readiness is complete 	■	
	<ul style="list-style-type: none"> In future, when using a guest profile, seat and ergonomic positions will be stored and will not be lost after a restart. 		■

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.

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