

WMA6 - 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: 2021

Model Line: Taycan (Y1A)

Concerns: Software update (software version VR12.1.1)

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'*.

Action required: Update the software for the following control units using the PIWIS Tester with test software version **40.000.018** (or higher) installed or USB storage medium. For details of affected control units, see overview below.

Overview of control units for software version VR12.1.1			
Control unit	Programming time	Action required	
		program	code
<p>Sequence 1: Combined software update for various control units (update via PIWIS Tester)</p> <p>Includes:</p> <ul style="list-style-type: none"> • Distance measuring sensor control unit (ACC) • Front-end electronics (BCM1) control unit • Rear-end electronics (BCM 2) control unit • Radar sensor for front corner radar, left and right • Lane Change Assist, left and right • Central assistance systems (zFAS) 	approx. 100 minutes	■	■ ■ ■ ■ ■ ■

<ul style="list-style-type: none"> • Additional instrument control unit (stopwatch) • Door control unit, front and rear • Control unit for exterior acoustics (eSound) • Control unit for interior acoustics (eSound) • Display and operator control unit in rear center console • Connect control unit • Brake booster control unit (eBKV) • Night vision system control unit • Control unit for Tire Pressure Monitoring (TPM) • Control unit for rear spoiler • Inductive charger for mobile devices 		<p>■</p>	<p>■ ■ ■ ■ ■ ■ ■ ■ ■ ■</p>
<p>Sequence 4: Combined software update for various control units (update via PIWIS Tester and USB storage medium)</p> <p>Includes:</p> <ul style="list-style-type: none"> • Central computer (PCM) • Loudspeaker booster • Front display and operator control unit 	<p>approx. 50 minutes</p>	<p>■</p>	<p>■ ■ ■</p>

Affected Vehicles: Only vehicles assigned to the campaign (see also PCSS Vehicle Information). There are 2,025 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 **40.000.018** (or higher) installed.
 - **USB storage medium Type A+C 32 GB (for PCM update)**, Part No. V04014999WW000



Information

The central computer (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.
- 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 VR12.1.1		
Part No.*	Designation – Region	Vehicle assignment
9J1919360D	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 undervoltage.

- 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 WiFi 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 ensure 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

Use the **new** PIWIS Tester data cable to carry 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. Porsche AG > Aftersales > Workshop > PIWIS > Documents).



Information

The procedure described here is based on the PIWIS Tester 3 software version **40.000.018**.

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.



PIWIS Tester data cable

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, operate the **PIWIS Testervia the power supply**.

4 Establish operational readiness (switch on ignition).

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

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



Emergency start tray

- 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.

Updating software for various control units (VR12.1.1)



WARNING

Electrically moved side windows and rear spoiler

- Danger of limbs being trapped or severed
 - Risk of damage to components
- ⇒ 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.



Information

The programming sequences used during this campaign include **all control units** from software release VR12.1.1. In the programming sequence, the software versions of the individual control units are initially compared with the required status of software release VR12.1.1. If the actual status already matches, the programming of the relevant control unit is automatically skipped, and so the scope of the control units programmed may vary depending on the vehicle.

The individual programming sequences 1 through 4 can be carried out on different days.

- Work Procedure: 1 Select the guest account from the central display (PCM) and activate Privacy mode (available in some countries).



Information

To ensure that no user-specific settings from **Cloud-based services (Porsche Connect & My Porsche)** are lost during the update, activate Privacy mode before carrying out the update. When Privacy mode is activated, communication between the vehicle and the Porsche Connect app and My Porsche is disabled. No vehicle-specific information is transferred. As a result, settings cannot be configured on the vehicle using the Porsche Connect app or My Porsche.

When the **instrument cluster** and **central computer** are re-programmed, the **individual settings** implemented **in the vehicle** by the customer will be lost and reset to the **default values** of the country version that applies to the vehicle.

After carrying out the campaign, please inform customers that personal settings they have implemented in the instrument cluster and central display of the central computer will have to be **set again** and provide them with any **help and support** they need for setting the relevant options.

This affects the following settings, for example:

- Individual settings for tubes 1 to 3 of the instrument cluster as well as the extended map view or reduced view of the instrument cluster
 - Selected functions of individual tubes in the instrument cluster, e.g. auto zoom, 3D map and satellite map
 - Arrangement of tiles in the home screen and MyScreen on the central display
- 2 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'*.



Information

Special features of sequence 1:

In this sequence, manual intermediate steps are required after the central control unit for assistance systems (zFAS) is programmed. For safety reasons, the airbag is triggered during a guided procedure prior to coding and is then locked again when coding is complete. Follow the instructions on the PIWIS Tester.

Sequence 1:

For specific information on control unit programming in this sequence, see the table below:

Required PIWIS Tester software version:	40.000.018 (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:	K4M1S
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.):	100 minutes

<p>Software version programmed during this sequence:</p>	<ul style="list-style-type: none"> Central control unit for assistance systems (zFAS) 0365 <p>Sequence 1 includes other control units from the software release VR12.1.1, which are only re-coded.</p> <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>
<p>Procedure in the event of abnormal termination of control unit programming:</p>	<ul style="list-style-type: none"> End and restore operational readiness (switch ignition off and then on again). Read out and erase the fault memory ⇒ <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, whereby extended logging must be started using the key combination •Ctrl" + •L" . Extended logging records diagnostic software data, particularly vehicle communication data, which is required for analysing the issues that caused programming to be aborted. If control unit programming is aborted a second time, stop operational readiness for approx. 15 minutes (switch off ignition) and repeat the procedure described here again.
<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>

3 Start control unit programming **sequence 2**.

For specific information on control unit programming in this sequence, see the table below:

<p>Required PIWIS Tester software version:</p>	<p>40.000.018 (or higher)</p>
<p>Type of control unit programming:</p>	<p>Control unit programming using the 'Campaign' function in the Additional menu on the PIWIS Tester by entering a programming code.</p>
<p>Programming code:</p>	<p>K4M2S</p>

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.):	70 minutes
Software versions programmed during this sequence:	<ul style="list-style-type: none"> • High-voltage charger (OBC) 11 kW 1083 or (depending on equipment) • High-voltage charger (OBC) 22 kW 1242 • High-voltage battery control unit (BMCe) 1441 (H13) or (depending on equipment) 1442 (H14) • High-voltage DC charger (booster) 1250 • HV voltage converter 1230 • Head-up display 1208 • Instrument cluster 0595 • Over-the-air (OTA) control unit 1221 • Engine electronics (DME) control unit 0012 or (depending on equipment) 0013 • Power electronics, front and rear 0011 <p>Sequence 2 includes other control units from the software release VR12.1.1, which are only re-coded.</p> <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>

<p>Procedure in the event of abnormal termination of control unit programming:</p>	<ul style="list-style-type: none"> • End and restore operational readiness (switch ignition off and then on again). • Read out and erase the fault memory ⇒ <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, whereby extended logging must be started using the key combination •Ctrl" + •L" . • Extended logging records diagnostic software data, particularly vehicle communication data, which is required for analysing the issues that caused programming to be aborted. • If control unit programming is aborted a second time, stop operational readiness for approx. 15 minutes (switch off ignition) and repeat the procedure described here again.
<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>

4 Start control unit programming **sequence 3**.

For specific information on control unit programming in this sequence, see the table below:

<p>Required PIWIS Tester software version:</p>	<p>40.000.018 (or higher)</p>
<p>Type of control unit programming:</p>	<p>Control unit programming using the 'Campaign' function in the Additional menu on the PIWIS Tester by entering a programming code.</p>
<p>Programming code:</p>	<p>K4M3S</p>
<p>Programming sequence:</p>	<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>
<p>Programming time (approx.):</p>	<p>30 minutes</p>

Software version programmed during this sequence:	<ul style="list-style-type: none"> Door control unit, front and rear 0390 <p>Sequence 3 includes other control units from the software release VR12.1.1, which are only re-coded.</p> <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>
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 the fault memory ⇒ <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, whereby extended logging must be started using the key combination •Ctrl" + •L" . Extended logging records diagnostic software data, particularly vehicle communication data, which is required for analysing the issues that caused programming to be aborted. If control unit programming is aborted a second time, stop operational readiness for approx. 15 minutes (switch off ignition) and repeat the procedure described here again.
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> .

- 5 Standardize front and rear doors consecutively.
 - 5.1 Select all four **door control units** in the control unit selection screen ('**Overview**' menu) and press •F12" ('Next') to confirm your selection.
 - 5.2 Once the door control units have been found and are displayed in the overview, select the '**Maintenance/repairs**' menu.
 - 5.3 Select the '**Standardization run**' function for the first of the four door control units and press •F12" ('Next') to confirm.
 - 5.4 Read the instructions and confirm by pressing •F12" ('Next').
 - 5.5 Meet the displayed conditions that must be checked manually, tick the relevant '**Status**' box, and press •F12" ('Next') to confirm.
 - 5.6 Select the **Door \ Power window standardization** function and press •F8" ('Execute') to start the procedure.
 - 5.7 Standardize the other three door control units in succession.

To do this, repeat **Steps 5.3 - 5.6** for the relevant door control units.

- 5.8 Once all four door control units have been coded, select the **'Overview'** menu to return to the control unit selection screen.
- 6 Re-program the central computer (PCM) (**sequence 4**).
 - 6.1 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.

- 6.2 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
9J1919360C	USB storage medium for PCM update – Europe – ROW	I-no. ER1/ER2
9J1919360D	USB storage medium for PCM update – North America – Mexico	I-no. ER3/ER4
9J1919360E	USB storage medium for PCM update – Japan – China – Korea – Taiwan	I-no. ER5/ER6/ER7/ER8

- 6.3 Start the central computer (PCM) software update (**sequence 4**) using the PIWIS Tester.
- 6.4 Select the **central computer (PCM)** control unit in the control unit selection screen (**'Overview'** menu) and press **•F12** ("Next") to confirm your selection.
- 6.5 Once the PCM central computer control unit has been found and is displayed in the 'Overview', select the **'Maintenance/repairs'** menu.

- 6.6 Select the **'Install software update'** function and press **•F12** ("Next") to perform the software update ⇒ *Installing PCM 6.0 software update.*
- 6.7 Confirm the information that is displayed by pressing **•F12** ("Next").
- 6.8 After meeting the preconditions, confirm by ticking the 'Status' column. Then, press **•F12** ("Next") to continue.
- 6.9 Enter the programming code **K4M4S** in the relevant column ⇒ *Entering PCM 6.0 programming code* and press **•F12** ("Next") to confirm ⇒ *Entering PCM 6.0 programming code.*
- 6.10 Press **•F8** ("Start") to start.
- 6.11 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 60 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.

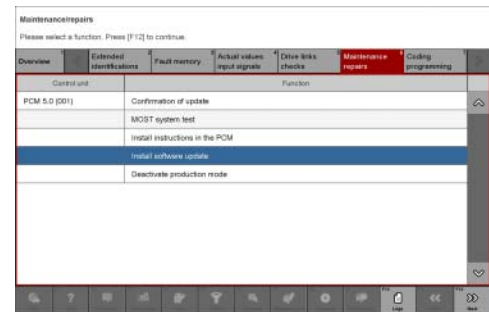
- 6.12 Once the update is complete, an overview is displayed showing processes that have been completed successfully marked with a tick in the Status box. Press **•F12** ("Next") to confirm.

Software versions programmed during this sequence

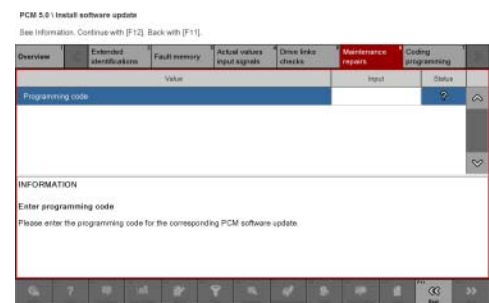
- Central computer (PCM): **3397**

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.

- 6.13 Open the armrest and remove the USB storage medium from the USB interface.
- 7 Re-code the loudspeaker booster and inductive charger for mobile devices (**depending on equipment**).
- 7.1 Select the **loudspeaker booster** and **inactive charger for mobile devices** control units in the control unit selection screen ('Overview' menu) and press **•F12** ("Next") to confirm.
- 7.2 Once both control units have been found and are displayed in the overview, select the **'Coding/programming'** menu.



Installing PCM 6.0 software update



Entering PCM 6.0 programming code

- 7.3 Select the '**Automatic coding**' function and press •F12" ('Next') to start.
- 7.4 Once both door control units have been coded, select the '**Overview**' menu to return to the control unit selection screen.

Concluding work



Electrically moved side windows and rear spoiler

- Danger of limbs being trapped or severed
- Risk of damage to components
- ⇒ 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 Establish bus idle for at least 15 minutes.
- 1.1 End operational readiness (switch off ignition).
 - 1.2 Disconnect the PIWIS Tester diagnostic connector from the diagnostic socket.
 - 1.3 Lock the vehicle using the driver's key and remove the driver's key from the proximity of the vehicle (approx. 10 metres).
 - 1.4 Unlock the vehicle again after waiting for at least 15 minutes.
 - 1.5 Plug the PIWIS Tester diagnostic connector into the diagnostic socket again and restore communication with the vehicle.
- 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.
 - 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.
 - 2.4 Read the instructions and confirm by pressing •F12" ('Next').
 - 2.5 Meet the displayed conditions that must be checked manually and tick the relevant '**Status**' box.
 - 2.6 Select the **Teach rear spoiler** function and press •F8" ('Execute') to confirm.
 - 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 Read out and erase the fault memories of all control units.
- 3.1 Press **•F7** in the control unit selection screen ('Overview' menu) to call up the Additional menu.

- 3.2 Select the function "Read all fault memories and erase if required" and press **•F12** ('Next') to confirm your selection ⇒ *Erasing fault memories*.

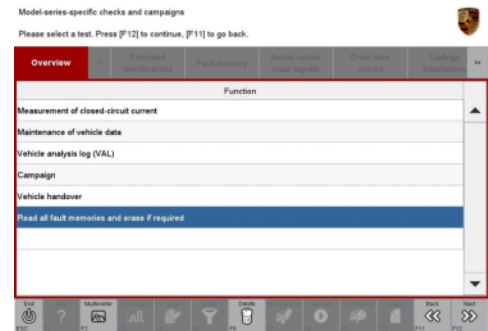
The fault memories of the control units are read out.

- 3.3 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

- 3.4 Press **•F8** to delete fault memory entries.
- 3.5 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 metres).
- Unlock the vehicle again after waiting for at least 15 minutes.
- 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.

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

4 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.

5 End operational readiness (switch off ignition).

6 Disconnect the PIWIS Tester from the vehicle.

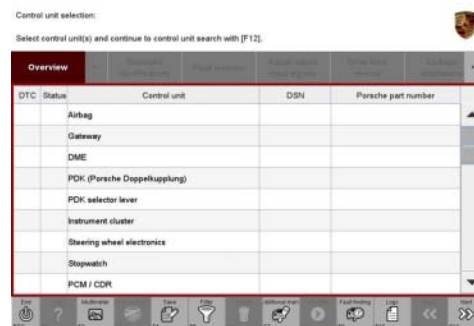


Information

Connect the PIWIS Tester to a network as soon as possible and log into the PPN in order to transfer the backup documentation created during this campaign to the PAG systems.

7 Switch off and disconnect the battery charger.

8 Enter the campaign in the Warranty and Maintenance booklet.



Control unit selection

Warranty processing



Information

The specified working time was determined specifically for carrying out this campaign and includes all necessary preliminary and subsequent work.
The working time may differ from the working times published in the Labor Operation List in the PCSS.



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:

Working time:		
Updating software for various control units		Labor time: 177 TU
Includes:	<ul style="list-style-type: none"> Connecting and disconnecting battery charger Connecting and disconnecting PIWIS Tester Standardising doors and power windows Coding loudspeaker booster and inductive charger for mobile devices Retracting rear spoiler manually Reading out and erasing fault memory 	
⇒ Damage Code WMA6 066 000 1		

Overview of new features implemented by the software updates

Overview:

Function	Description
Charging	<ul style="list-style-type: none"> • At-home charging is improved. Stability during charging is improved and the timer charging function is further optimized. • Home charging with third-party charging equipment is improved. Discharge of the 12-volt vehicle electrical system battery during charging is prevented. • Calculation of the state of charge (SoC) of the high-voltage battery is further optimized. Incorrect calculation of the state of charge is avoided.
Chassis and driving comfort	<ul style="list-style-type: none"> • Starting comfort is further optimized. • Traffic sign recognition at double the time-dependent speed limits is further improved. • Any personalized settings are retained, even after a bus idle and account change.

Digital cockpit display (instrument cluster)	<ul style="list-style-type: none">• The starting behavior and performance of the instrument cluster are further improved.• Sporadic loading spinners and resets are avoided.• Various software optimizations prevent the sporadic display of different error messages.
Porsche Communication Management (PCM)	<ul style="list-style-type: none">• The functionality of the navigation system is optimized and system stability is improved.• The starting behavior and performance of the central display are improved.

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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