

Technical Information

35/19 ENU WKC6

Service

WKC6 - Re-programming Air-conditioning Control Unit and Various Other Control Units (Workshop Campaign)

Model Vear		Cayenne (9YA)						
would real.	2019							
Subject:	Re-programming air-conditioning cor	ntrol unit and various othe	r control units					
Important:	CRITICAL WARNING - This campaign inc programmed with the PIWIS Tester. The very volts during this programming. Failure to r Damage caused by inadequate voltage du must verify the actual vehicle voltage in the the actual voltage on the repair order.	ludes steps where control un ehicle voltage must be maint maintain this voltage could re rring programming is not a w e PIWIS Tester before startin	nit(s) in the vehic ained between 1 esult in damaged varrantable defeo ng the campaign	le will be 3.5 volts and 14.5 I control unit(s). ct. The technician and also document				
Information:	Due to incorrect servo motor control, the air-conditioning system flaps on the affected vehicles may not be moved to the required positions at times. If this happens, the temperature distribution and air distribution in the interior of the vehicles can differ from the selected settings.							
	To prevent this from happening, the air-conditioning control unit must be re-programmed with an updated data record.							
	The software of other control units will also improvements, for example, for the system	o be updated at the same tin ms	ne*. This softwa	re update contains				
	Driver assistanceInstrument clusterChassis control							
	* You will find an overview of the problems update in the attachment under \Rightarrow <i>Technic be corrected with the software update</i> '.	and symptoms that will also cal Information 'Overview of _l) be corrected w problems and sy	ith the software mptoms that will				
Action Required:	 Update software of the affected control units using the PIWIS Tester or SD card. For details of affected control units, see overview below. Update Onboard Owner's Manual Replace Owner's Manual in the on-board folder in the vehicle with an updated version 							
	Control unit	Programming time	Upd	ate via				
		- 3	SD card	PIWIS Tester				
	Assistance systems (bootloader)*	approx. 8 minutes						



Assistance systems (application software)		
Variant A or AO	up to 100 minutes**	
Variant B or C	up to 30 minutes**	
PCM 5.0**	approx. 40 minutes	
Combined software update of various control units	up to 40 minutes*	
Includes:		
 Brake electronics (PSM incl. parking brake) Chassis control (PASM) Lane Change Assist, left and right** Radar sensor for front corner radar, left and right** Roll stabilization (PDCC)** Air-conditioning system 		
Instrument cluster*	approx, 60 minutes	

* Depending on the software version of the relevant control unit

** Depending on equipment

i Information

Important points that must be observed before carrying out the software update:

- Set the battery charger to a charge voltage of 14.8 V
- Set the maximum charging time of the battery charger to at least 7 hours
- Place driver's key in emergency start tray
- Read and follow instructions for carrying out programming
- Operate the PIWIS Tester using the power supply unit/docking station

AffectedOnly the vehicles assigned to the campaign (see also PIWIS Vehicle Information). This campaign affectsVehicles:6,344 vehicles in North America.

Technical Information

i Information

To make warranty processing easier, each vehicle is assigned **one** campaign scope. The assignment is based on the data available for the respective vehicle relating to the software versions installed on the control units.

Irrespective of the assigned campaign scope, **all steps** described in the Technical Information must be **carried out** in order to ensure that all affected control units have the required software version after carrying out the campaign.

Exception: Steps that are required only for certain vehicle models must be carried out only on this vehicle.

Parts required

Parts Info: Owner's Manual

An overview of the required Owner's Manuals is provided under \Rightarrow *Technical Information 'Overview of order numbers for Driver's Manuals'*.

Required tools

Information

A blank or re-writable SD memory card is required for installing the Onboard Owner's Manual.

The Porsche dealers were provided with a blank SD memory card for installing the Onboard Owner's Manual during the market launch of the Panamera. The SD memory card must be re-used as part of the workshop equipment and remain in the Porsche dealership. The SD memory card therefore must not be left in the vehicle or handed over to the customer.

If there is no **SD memory card** available for carrying out this campaign, a replacement SD memory card must be purchased from the PET or on the open market. The costs for the SD memory card cannot be invoiced under the workshop campaign number.

Tools:

- Battery charger with a current rating of **at least 90 A** and a **current and voltage-controlled charge map** for lithium starter batteries, e.g. **VAS 5908 - Battery charger 90A**
- 9900 PIWIS Tester 3 with PIWIS Tester test software version 38.400.020 (or higher) installed
- SD memory cards (for PCM and assistance systems update)

i Information

The **assistance systems update** is performed using an **equipment-dependent** SD memory card and the **PCM update** is performed using a **specific SD memory card for the region**. The SD memory cards for the assistance systems update and the PCM update must be **re-used** as part of the workshop equipment and **remain in the Porsche dealership**. The SD memory cards **must not therefore be left in the vehicle** or **handed over to the customer**.

Alternatively, if PiUS is not used, SD cards can be obtained from the spare parts system. The following specifications apply here:

• Blank SD memory card for installing Onboard Owner's Manual, e.g. 000721990WW999 Blank SD card

Overview of SD memory cards						
Part No.	Designation	Vehicle assignment				
9Y0919866B	SD memory card for assistance systems update	Assistance systems variant B				
9Y0919866A	SD memory card for assistance systems update	Assistance systems variant C				
9Y0919360D	SD memory card for PCM update	I-no. ER3 (North America)				



Information

From now on, you can also create the SD cards mentioned in this campaign yourself.

To do this, **download** the software for the **required** SD card using the SD card tool **PiUS** (Porsche integrated Update Service) and **install** it on a blank SD card.

Pay particular attention to the following:

- The name of the software in PiUS corresponds to the respective part number of the SD card.
- For using the software tool, **one** blank or re-writable SD card 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 (SD cards) mentioned here must **only** be used on the **vehicles assigned to the campaign**. An exception to this can **only** be granted via another Technical Information.

You will find further information on how to install and use the PiUS software tool in the PPN under "**PiUS** (**Porsche integrated Update Service**) goes live" (PPN portal \Rightarrow Dr. Ing. h.c. F. Porsche AG \Rightarrow Aftersales \Rightarrow Workshop \Rightarrow PIWIS \Rightarrow Blog \Rightarrow 2018 \Rightarrow June \Rightarrow 21).

Preparatory work

NOTICE

Abnormal termination of control unit programming

- Increased current draw during programming can cause a drop in voltage, which can result in the abnormal termination of the programming process.
- Due to the long programming time, the charging process can end prematurely, resulting in the abnormal termination of the programming process, if a sufficiently long charging time is not set for the battery charger.

Technical Information	Service	\cap
	35/19 ENU WKC6	9

- ⇒ Before starting control unit programming, connect a suitable battery charger set to a charging voltage of 14.8 V and a charging current of at least 90 A to the vehicle.
- ⇒ Set a maximum charging time of at least 7 hours in the battery charger menu if possible before starting control unit programming.
- ⇒ Route the line between the PIWIS Tester and the vehicle communication module (VCI) without tension to prevent the line from slipping out.
- \Rightarrow Make sure that the connectors are inserted fully into the PIWIS Tester and into the diagnostic socket.
- \Rightarrow Connect the PIWIS Tester to the power supply unit.

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 diagnosis will be aborted if the driver's key is not recognized

- If the driver's key is not recognized in the vehicle, control unit diagnosis cannot be started or will be interrupted.
- ⇒ Position the driver's key in the rear area of the left cupholder in the center console between the holding struts (emergency start tray) in order to guarantee a permanent radio link between the vehicle and driver's key.

i Information

The new Cayenne is equipped as standard with a **lithium starter battery**, which must only be charged using suitable battery chargers.

For further information about the battery chargers to be used, see:

- \Rightarrow Workshop Manual '2706IN General information on the 12-volt lithium-ion battery'
- ⇒ Workshop Manual '270689 Charging vehicle electrical system battery'

Information

Work Procedure: 1 Connect a battery charger that is suitable for lithium starter batteries with a current rating of at least 90 A (e.g. VAS 5908 - Battery charger 90A) to the jump-start terminals in the engine compartment.

For instructions, see \Rightarrow Workshop Manual '2706IN External power connection, jump-lead starting'.

Pay particular attention to the following points:

- Set the charging voltage to **14.8 V**.
- Set a maximum charging time of at least 7 hours
- Position the driver's key in the rear area of the left 2 cupholder in the center console between the holding struts (emergency start tray) in order to guarantee a permanent radio link between the vehicle and driver's key \Rightarrow *Emergency start tray*.
- 3 Switch on the ignition.
- 9900 PIWIS Tester 3 must be connected to the 4 vehicle communication module (VCI) via the cable. Then connect the communication module to the vehicle and switch on the PIWIS Tester.



Emergency start tray

Due to the long programming time, the PIWIS Tester must be operated via the power supply unit.

- 5 On the PIWIS Tester start screen, call up the 'Diagnostics' application. The vehicle type is then read out, the diagnostic application starts 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.
- 7 Read out fault memory.

1

Information

If there are faults in the control units, these must first be **found** and **corrected**. This work **cannot** be invoiced under the workshop campaign number.

Reading out software version installed in the vehicle and assistance system variant

Work Procedure: 1 Select the Assistance systems control unit in the control unit selection screen ('Overview' menu) and confirm your selection by pressing • F12" ('Next').

> 2 Once the control unit for assistance systems has been found and is displayed in the 'Overview', select the 'Extended identifications' menu.

- 3 Read out the value in the 'Identification' column under 'Software version' and under 'System' and write it down \Rightarrow Assistance system variant.
- 4 Depending on the software version that was read out, go to the next step as described below.
 - Software version isless than 0290:

Continue with Step 5 and re-program the bootloader of the control unit for assistance systems first.

Operation Hersitikation Value Value	Overview	Estendi	Seations Foult memory Actual values input signals			Foult memory Actual values Drive links Maintenance input signals thecks repairs			Ceding programming	
Asabitative systems Status version 0377 Image: Status version Otabilitative systems Moltoware systems Moltoware systems Moltoware systems Marabase version Moltoware systems Moltoware systems Moltoware systems Moltoware systems Orestative version Moltoware systems Moltoware systems Moltoware systems Moltoware systems Prostele suft number 400007107h Moltoware system Moltoware system Moltoware system	Carto	i unit	a identification			Value			Changed	
Obla consistency wakit EEPRCM Idna Hardware version Hold Option unit EV_276A04051 Option unit EV_276A04051 Practile handwein part number 440507107H Practile part number 440507107H Practile part number 440507107H System ≤XX Viar C	Assistance sy	sterns	Soft	vare version		0257				6
Hotebase version HoB Control unit EV_ZTARABISES Prostele hankowe part number 4100071071 Postele part number 4100071075 System at XX_StarC			Data	consistency		vald EEP	ROM data			
Overball unit. EV_ZTARAN061 Pransche handwere part number 440507107H Pransche part number 440507107S Syntem #A5X Var C			Hantware version			HOB				1
Porsche haltbere part number 4400027107H Porsche part number 4400027107H System #A5027107H			Control unit			EV_ZFABAU861				1
Ponche part number 41000/1075 Dysten ar AS Var C	Pan			che hardware part number		4N0907107H				1
System of AS Var C			Para	che patt number		4109071075			8	
			Syst	-		af AS Var	e .			

Assistance system variant

• Software version is 0291: There is no need to program the control unit for assistance systems. Subsequent procedure:

Vehicles without I-no. ER3 (North America): Continue with ⇒ Technical Information '2706IN Vehicles with I-no. ER3: Re-programming Porsche Communication Management (PCM)'.
 Vehicles with I-no. ER3 (North America): Continue with ⇒ Technical Information '2706IN Performing software update of various control units'.

• Software version is 0290and system is "zFAS Var A" or "zFAS Var A0":

Continue with \Rightarrow Technical Information '2706IN Re-programming control units for assistance systems - variant A'.

• Software version is 0290 and system is "zFAS Var B"or"zFAS Var C":

Continue with \Rightarrow Technical Information '2706IN Re-programming control unit for assistance systems - variant B or variant C'.

5 Re-program control unit for assistance systems (bootloader).

The basic procedure for control unit programming is described in the Workshop Manual \Rightarrow 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:	38.400.020 (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:	B7A5Q

Service

WKC6 ENU 35/19

Programming sequence:	Read and follow the information and instructions on the PIWIS Tester during the guided programming sequence. The bootloader for the control unit for assistance systems is re-programmed during the programming sequence. Do not interrupt programming.
Programming time (approx):	8 minutes
Software version programmed during this campaign:	B250 Following control unit programming, the software version can be read out of the control unit for assistance systems in the 'Extended identifications' menu using the PIWIS Tester.
Procedure in the event of abnormal termination of control unit programming:	Replace control unit.
Procedure in the event of error messages appearing during the programming sequence:	⇒ Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester - section on "Fault finding"'.

Depending on the variant of the installed assistance system that you read out and wrote down earlier, go to the next step as described below.

- For "zFAS Var A" or "zFAS Var AO", continue with ⇒ Technical Information '9X00IN Re-programming control units for assistance systems - variant A'.
- For "zFAS Var B" or "zFAS Var C", continue with ⇒ Technical Information '9X00IN Re-programming control unit for assistance systems - variant B or variant C'.

Information

If the control unit for assistance systems (bootloader) is re-programmed and the variant of the control unit for assistance systems was **not** read out beforehand, the installed variant can be determined using the Porsche part number.

To do this, read out the value under 'Porsche part number' in the **'Extended identifications'** menu in the selected control unit for **assistance systems**.

- For 4N6907107 or 4N6907107A, continue with ⇒ *Technical Information '9X00IN Re-programming control units for assistance systems - variant A'*, Perform Procedure 1.
- For 4N6907107Bor 4N6907107C, continue with ⇒ *Technical Information '9X00IN Re-programming control unit for assistance systems - variant B or variant C'*, Perform Procedure 2.

Technical Information	Service	\cap
	35/19 ENU W	иксе У

Re-programming control units for assistance systems - variant A

Work Procedure: 1 The basic procedure for control unit programming is described in the Workshop Manual \Rightarrow 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:	38.400.020 (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:	Z9B4D
Programming sequence:	Once the update has started, the PCM is restarted and the individual components and modules are then updated.
	Read and follow the information and instructions on the PIWIS Tester during the guided programming sequence. The assistance system control unit is re-programmed during the programming sequence.
	Do not interrupt programming and coding.
Programming time (approx):	65 – 100 minutes*
	* The time required for the update depends on the respective vehicle equipment.
Software version programmed during this	 * The time required for the update depends on the respective vehicle equipment. 0291
Software version programmed during this campaign:	 * The time required for the update depends on the respective vehicle equipment. 0291 Following control unit programming, the software version can be read out of the control unit for assistance systems in the 'Extended identifications' menu using the PIWIS Tester.
Software version programmed during this campaign: Procedure in the event of abnormal termination of control unit programming:	 * The time required for the update depends on the respective vehicle equipment. 0291 Following control unit programming, the software version can be read out of the control unit for assistance systems in the 'Extended identifications' menu using the PIWIS Tester. Repeat control unit programming by entering the programming code again.

After programming the control unit for assistance systems variant A or AO, proceed as follows:

- For vehicles with I-no. **ER3** (North America), continue with ⇒ *Technical Information '9X00IN Re-programming PCM'*.
- For vehicles without I-no. ER3, continue with ⇒ *Technical Information '9X00IN Performing software update of various control units'*

Re-programming control unit for assistance systems - variant B or variant C

Work Procedure: 1 Open the glove compartment and remove any inserted SD card from the SD card slot. To do this, first press on the SD card to release it. Then, pull the SD card out of the card slot.

NOTICE

Using the SD cards on vehicles that are not assigned to this campaign

- Risk of damage to control unit
- \Rightarrow Use the specified SD cards only for the vehicles assigned to the campaign.
 - 2 Depending on the variant of the control unit for assistance systems you read out earlier, insert the relevant **SD card** for the **assistance systems update** into the **SD card slot** in such a way that the bevelled edge of the SD card is at the front right.

Part No.	Designation	Assistance systems variant
9Y0919866B	SD memory card for assistance systems update	В
9Y0919866A	SD memory card for assistance systems update	С

- 3 Perform assistance systems software update using the PIWIS Tester.
 - 3.1 Select the **Assistance systems** control unit in the control unit selection screen (**'Overview'** menu) and confirm your selection by pressing F12[#] ('Next').
 - 3.2 Once the assistance systems control unit has been found and is displayed in the 'Overview', select the **'Maintenance/repairs'** menu.
 - 3.3 Select the **'Software update'** function and press F12[#] ('Next') to perform the software update.
 - 3.4 Confirm the information that is displayed by pressing F12" ('Next').
 - 3.5 Press F8" ('Start') to start.
 - 3.6 After checking the software data, programming starts automatically.

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

The time required for the update depends on the respective vehicle equipment and can be up to 30 minutes.

During the update, check the PIWIS Tester display and follow the instructions. The PCM is **restarted several times** during the software update. The PCM screen remains **dark** for up to **3 minutes**.

- Once the update has been performed successfully, a tick will appear in the Status column in the 'Software update' field.
 Press F12" ('Next') to confirm.
- 4 Open the glove compartment and remove the inserted SD card from the SD card slot.
- 5 Re-code assistance systems automatically.
 - 5.1 Select the **'Assistance systems'** control unit in the control unit selection screen (**'Overview'** menu) and confirm your selection by pressing •F12[#] ('Next').
 - 5.2 Once the control unit for assistance systems has been found and is displayed in the overview, select the **'Coding/programming'** menu.
 - 5.3 Select the 'Automatic coding' function and press • F12" ('Next') to start coding \Rightarrow Automatic coding.
 - 5.4 When coding is complete, the message "Coding has been completed successfully" is displayed and a tick appears in the 'Status' box.

If coding is not completed successfully (error message "Coding was not completed successfully"), coding must be **repeated**.

Courview	identification	Fault memory	Actual values input signals	Cline krike checks	Mointenatice	Coding programming	
0	oding/programming			Function	in .		
Coding		Autores	tic coting				6
		Custom	er specific settings				
		Restore	factory settings/or	odes (or new-part	coding)		
							I

Automatic coding

- 5.5 When coding is completed successfully, continue by pressing F12" ('Next') to return to the start page of the **'Codings/adaptations'** menu.
- 5.6 Select the **'Overview'** menu and press F11[#] ('Back') to return to the control unit selection screen.

Once the control unit for assistance systems variant B and C has been programmed and coded, proceed as follows:

- For vehicles with I-no. **ER3** (North America), continue with ⇒ *Technical Information '9X00IN Vehicles* with I-no. ER3: Re-programming Porsche Communication Management (PCM)'.
- For vehicles **without** I-no. ER3, continue with ⇒ *Technical Information '9X00IN Performing software update of various control units'*.

Vehicles with I-no. ER3: Re-programming Porsche Communication Management (PCM)

Work Procedure: 1 Read out the current Porsche Communication Management (PCM) software version.

- 1.1 Select the **PCM 5.0** control unit in the control unit selection screen (**'Overview'** menu) and press F12["] ('Next') to confirm your selection.
- 1.2 Once the control unit has been found and is displayed in the 'Overview', select the **'Extended identifications'** menu.
- 1.3 Read out the value in the 'Identification' column under "Software version".
 - If the software version is **2483**, continue with Step 2.
 - For **all other** software versions, **no** PCM 5.0 software update is necessary. In this case, continue with ⇒ *Technical Information '9X00IN Performing software update of various control units'*.
- 2 Open the glove compartment and remove any inserted SD card from the SD card slot. To do this, first press on the SD card to release it. Then, pull the SD card out of the card slot.

NOTICE

Using the SD cards on vehicles that are not assigned to this campaign

- Risk of damage to control unit
- \Rightarrow Use the specified SD cards only for the vehicles assigned to the campaign.
 - 3 **Insert SD card** for the **PCM update** into the **SD card slot** in such a way that the bevelled edge of the SD card is at the front right.

Part No.	Designation – Region	Vehicle assignment
9Y0919360D	SD memory card for PCM update – North America	I-no. ER3

- 4 Start the PCM 5.0 software update using the PIWIS Tester.
 - 4.1 Select the **PCM 5.0** control unit in the control unit selection screen (**'Overview'** menu) and press F12["] ('Next') to confirm your selection.
 - 4.2 Once the PCM 5.0 control unit has been found and is displayed in the 'Overview', select the 'Maintenance/repairs' menu.

Technical Information

- 4.3 Select the 'Install software update' function and press •F12[#] ('Next') to perform the software update ⇒ Installing PCM 5.0 software update.
- 4.4 Confirm the information that is displayed by pressing F12 " ('Next').
- 4.5 After meeting the preconditions, confirm by ticking the 'Status' column. Then, press
 •F12" ('Next') to continue.
- 4.6 Enter the programming code M2T4V in the relevant column ⇒ Entering PCM 5.0 programming code and press F12[#] ('Next') to confirm ⇒ Entering PCM 5.0 programming code.
- 4.7 Press F8" ('Start') to start.
- 4.8 After checking the software data, press•F8" ('Start') to start programming.

Once the update has started, the PCM is

Duerview	Extended	a Alorta	Fault memory	Actual volues input signals	Detve listas checks	Maintenance repairs	Goding programming	10
Cars	of unit				Function			
PCM 5.0 (001	3.	Con	imation of update					0
		MOS	T system test					1
		Inst	Il instructions in th	e POM				1
		Initi	El software update					
		Dea	tivate production	eborn				
								1
								172

Installing PCM 5.0 software update

Deerview	Extended	Fault memory	Actual values input signals	Drive kride chacks	Maintenance repairs	Coding programming	30
		Value			- Input	Clotur	
Programming	code					8	
							- 1
EOPMATIC	RJ						4
NFORMATIC	IN						<
NFORMATIC	IN nming code						
NFORMATIC Inter program	IN nming odde re programming code	for the correspor	ding PCM software	opdate.			
NFORMATIC inter program	IN mming odde te programming code	for the correspor	ding PCM software	update.			

Entering PCM 5.0 programming code

restarted in the Update menu and the individual components are then updated.

The time required for the update depends on the respective vehicle equipment and can be up to 40 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**.



Information

Once the PCM software update has been performed, the last step 'Check PCM status' is next. An error message may be displayed here. This error message can be ignored if there is no active fault memory entry in the PCM fault memory after carrying out this campaign.

If there is an active fault memory entry, it must be found and corrected.

- 4.9 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: 9807

Following control unit programming, the software version can be read out of the PCM 5.0 control unit in the 'Extended identifications' menu using the PIWIS Tester.

5 Open the glove compartment and remove the inserted SD card from the SD card slot.

Once the Porsche Communication Management (PCM) has been programmed, continue with \Rightarrow *Technical Information '9X00IN Performing software update of various control units'*.

Performing software update of various control units

Information

The PIWIS Tester **automatically** performs the programming sequence described below. This does not require any interaction with the PIWIS Tester.

Control units that are not installed are skipped automatically.

The time required for the update depends on the respective vehicle equipment and can be up to **40** minutes.

The following control units are **re-programmed** and then **re-coded** in the specified sequence:

- Brake electronics (PSM incl. parking brake)
- Chassis control (PASM)
- Lane Change Assist 2, left*
- Lane Change Assist 1, right*
- Radar sensor for front corner radar 1*
- Radar sensor for front corner radar 2*
- Roll stabilization (PDCC)*
- Air conditioning

* Depending on equipment

Electrically moved side windows and rear spoiler

- Danger of limbs being trapped or severed
- Risk of damage to components
- \Rightarrow Do not reach into the danger area.
- \Rightarrow Keep third parties away from the danger area.
- \Rightarrow Do not move components or tools into the danger area.
- \Rightarrow Retract roll-up sun blinds on the rear side windows before starting programming or coding.
 - 1 For specific information on control unit programming during this campaign, see the table below:

Required PIWIS Tester software version:	38.400.020 (or higher)

Service

35/19 ENU WKC6

9

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:	V4S6G			
Programming sequence:	Read and follow the information and instructions on the PIWIS Tester during the guided programming sequence. Several control units are re-programmed and re-coded during the programming sequence.			
Programming time (approx.):	un to 40 minutes*			
	* The time required for the update depends on the respective vehicle equipment.			
Software versions programmed during this campaign:	Brake electronics (PSM incl. 0101 parking brake)			
	Chassis control (PASM) 0918			
	Lane Change Assist, left and right* 0266			
	 Radar sensor for front corner radar 0266 1 and 2* 			
	Control unit for roll stabilization 0412 (PDCC)*			
	Air-conditioning control unit 1040			
	Following control unit programming, the software version can be read out of the relevant control unit the 'Extended identifications' menu using the PIWI Tester.			
Procedure in the event of abnormal termination of control unit programming:	Repeat control unit programming by entering the programming code again.			
	During repeated control unit programming, all control units that have already been programmed successfully are automatically skipped and are not programmed again.			
Procedure in the event of error messages appearing during the programming sequence:	⇒ Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester - section on "Fault finding".			

2 Carry out teaching processes.

Once programming and coding has been performed, commissioning and teaching processes for the servo motors for the air-conditioning flaps are **activatedautomatically** by the PIWIS Tester.

To do this, **follow** the **instructions** displayed on the Tester and **carry out** the relevant teaching processes.

Once various control units have been programmed, continue with \Rightarrow *Technical Information '9X00IN Reading out software versions of the instrument cluster and re-programming instrument cluster if necessary'*.

Reading out software versions of the instrument cluster and re-programming instrument cluster if necessary

- 1 Read out the current software versions of the instrument cluster
 - 1.1 Select the **Instrument cluster** control unit in the control unit selection screen (**'Overview'** menu) and confirm your selection by pressing F12[#] ('Next').
 - 1.2 Once the instrument cluster control unit has been found and is displayed in the 'Overview', select the **'Extended identification'** menu.
 - 1.3 Read out the value in the 'Identification' column under "Software version".

Depending on the software version that was read out, go to the next step as described below

- Software version is **less than** 0905, continue with Step 2 and re-program the instrument cluster.
- Software version is 0905 or higher, continue with ⇒ Technical Information '9X00IN Concluding work'
- 2 Re-program the instrument cluster

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

Required PIWIS Tester software version:	38.400.020 (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:	D2D2Q
Programming sequence:	Read and follow the information and instructions on the PIWIS Tester during the guided programming sequence. The instrument cluster and - depending on the instrument cluster hardware - the control unit for brake electronics (PSM incl. parking brake) are re-programmed and then re-coded automat- ically during the programming sequence. Do not interrupt programming and coding.

9

Programming time (approx.):	60 minutes		
Software version programmed during this campaign:	Instrument cluster (HW11): 0905 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:	Repeat control unit programming by entering the programming code again.		
Procedure in the event of error messages appearing during the programming sequence:	⇒ Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester - section on "Fault finding"'.		

Once the instrument cluster has been programmed, continue with \Rightarrow *Technical Information '9X00IN Concluding work'*.

Concluding work

Information

The currently valid version of the Onboard Owner's Manual is available online since April 17, 2019.

The Onboard Owner's Manual is downloaded from the backend for each specific vehicle. The Tester **must** be **connected online** in order to do this.

A blank SD card is required for installing the onboard operating instructions (approx. 100 MB). If there is already data stored on the SD card, this will be deleted during the procedure.

Work Procedure: 1 Re-code all control units.

- Select all control units in the control unit selection screen ('Overview' menu) and press
 F12" ('Next') to confirm your selection.
- 1.2 Once the control units have been found, select the **'Codings/adaptations'** menu.

- 1.3 Select the 'Automatic coding' function and press F12" ('Next') to start control unit coding \Rightarrow Automatic coding.
- 1.4 When coding is complete, the message "Coding has been completed successfully" is displayed and a tick appears in the 'Status' box.

If coding is **not** completed successfully (error message "Coding was not completed successfully"), coding must be **repeated**.



Automatic coding



Information

It may not always be possible to code the control unit for Tire Pressure Monitoring (TPM). This will also be indicated as 'not carried successfully' by an X in the 'Status' box in the general overview following control unit coding.

If this is the case, the tire size must be set in the Vehicle menu.

To do this, set the size of the fitted tires under 'CAR' \Rightarrow 'CONTROL' \Rightarrow 'Vehicle' \Rightarrow 'Tire pressure monitoring' \Rightarrow 'Tire selection' in the Porsche Communication Management (PCM) menu.

Then, perform automatic coding **again** in the **'Codings/adaptations'** menu in the **'Tire Pressure Monitoring (TPM)'** control unit.

- 1.5 Once coding is completed successfully, press F12" ('Next').
- 1.6 Compare the tire size and type set in the Vehicle menu with the tires fitted on the vehicle. To do this, compare the size of the fitted tires and set the correct size if necessary under $'CAR' \Rightarrow 'CONTROL' \Rightarrow 'Vehicle' \Rightarrow 'Tire pressure monitoring' \Rightarrow 'Tire selection' in the$ Porsche Communication Management (PCM) menu.
- 1.7 Press F11" ('Back') to return to the control unit overview.
- 2 Install updated Onboard Owner's Manual.

i Information

The PIWIS Tester 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 on the PIWIS Tester.

- 2.1 Insert a blank SD card into the SD card slot on the PIWIS Tester.
- 2.2 Select the **PCM 5.0** control unit in the control unit overview and press F12[#] ('Next') to confirm your selection.

- 2.3 Maintenance/repairs must now be selected.
- 2.4 Install instructions in PCM must now be selected. Then, press F12["] ('Next') to confirm.
- 2.5 Read and follow the information and instructions displayed on the Tester and press F12" ('Next') to continue.
- 2.6 Select the required language and press F12" ('Next') to continue.
- 2.7 Press F8" ('Start') to start installing the Onboard Owner's Manual.
- 2.8 Read and follow the instructions displayed on the Tester and press F12" ('Next') to confirm.

The SD card must then be re-formatted. The current Onboard Owner's Manual is then downloaded and saved to the SD card.

2.9 Remove the SD card from the Tester and insert it into the SD card slot in the glove compartment. Press •F12" ('Next') to confirm.

After starting the installation, the PCM is restarted in the Update menu and the Onboard Owner's Manual is then updated.

The update takes approx. 7 minutes.

Read and follow the instructions displayed on the PIWIS Tester during the update.

2.10 Check that the Onboard Owner's Manual was installed on the central computer.

To do this, go to 'CAR' \Rightarrow 'CONTROL' \Rightarrow 'Instructions' \Rightarrow 'Technical data' in the PCM menu, scroll down and read out the version.

- If the version that is read out is "WKD9Y004xx19 46/2018" (xx = language code, e.g. 10, 20, 30, etc.), press •F12" ('Next') to continue.
- If the version that is read out is not "WKD9Y004xx19 46/2018", continue with Step 2.1 and install the Onboard Owner's Manual **again**.
- 2.11 Open the glove compartment and remove the inserted SD card from the SD card slot. Press
 •F12" ('Next') to continue.
- 3 Calibrate the parking brake.

To do this, apply and release the parking brake using the button in the center console.

If the calibration process was not carried out successfully and a fault memory entry is stored, the brake shoes for the parking brake must be adjusted and re-calibrated. For instructions, see \Rightarrow Workshop Manual '9X00IN Adjusting and calibrating brake shoes'.

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

- 4 Disconnect the PIWIS Tester from the vehicle.
- 5 Switch off the ignition and lock the vehicle with the driver's key.
- 6 Wait approx. 2 minutes before unlocking the vehicle again.

- 7 Start the engine and switch the ignition off again after approx. 5 seconds.
- 8 Switch on the ignition.
- 9 Plug the PIWIS Tester diagnostic connector into the diagnostic socket again and restore communication with the vehicle.
- 10 Read out and erase all fault memories.
 - 10.1 In the control unit selection screen
 ('Overview' menu) ⇒ Control unit selection,
 press F7" to call up the 'Additional menu'.
 - 10.2 Select the function "Read all fault memories and erase if required" and press \cdot F12" ("Next") to confirm your selection \Rightarrow *Erasing fault memories*.

The fault memories of the control units are read out.

10.3 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.

- 10.4 Press F8" to delete fault memory entries.
- 10.5 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.

- 11 Create vehicle analysis log (VAL) using the PIWIS Tester. Mark the vehicle analysis log you have just created with the attribute "Final VAL" and return it using the PIWIS Tester.
- 12 Disconnect the PIWIS Tester from the vehicle.
- 13 Switch off the ignition.



Control unit selection

Function Measurement of closed-circuit current Maintenance of vehicle data Vehicle analysis log (VAL) Campaign Vehicle handsover	-
Measurement of closed-circuit current Maintenance of valicité data //eticle anglysis log (VAL) Zampalgon Arácica handsovar	_
Aartenance of vehicle data Vehicle analysis ling (VAL) Sampaign Africk handvoor	-
fehicle analysis log (VAL) Campaign /ahicle handover	
Cempaign /ehicle handover	
/ehicle handover	
Read all fault memories and erase if required	

Erasing fault memories

- 14 Switch off and disconnect the battery charger.
- 15 Perform function test.



Information

The values for the Tire Pressure Monitoring (TPM) system may be lost during re-coding of the instrument cluster.

If the Tire Pressure Monitoring (TPM) system is reset, the wheel electronics must be re-taught and adapted to the system.

Preconditions and procedure for teaching the wheel electronics units:

- Vehicle is stationary for at least 5 minutes.
- Select the type of tires fitted (type and size) in the TPM menu in the PCM. The message "No monitoring. System is learning from 15 mph (25 km/h)" then appears in the multi-function display.
- Drive at a speed of more than 15 mph (25 km/h) ideally without stopping until the tire pressure values are displayed (learning time: less than 2 minutes).

The system learns the wheel electronics only while driving. Intermediate stops and deviations from the described teaching procedure can result in a much longer learning time.

Teaching can be performed during the test drive or later while the customer is driving. Please inform your customer about this if necessary.

Replace Cayenne Owner's Manual with an updated Cayenne Owner's Manual with order number WKD9Y004xx19 (xx = language code, e.g. 10, 20, 30, etc.).
 Also remove the old Owner's Manual from the vehicle and dispose of it.

i Information

The information contained in the following supplements is already **integrated** in the current Owner's Manual (WKD9Y004xx19). The following supplements must therefore be removed from the vehicle and **disposed of**:

• WKD9Y050019 – Emergency Stop Assist Supplement

The following must **not** be disposed of and must **remain** in the vehicle:

- Assistance booklet
- Warranty and/or Maintenance booklet
- 17 Enter the campaign in the Warranty and Maintenance booklet.

Overview of order numbers for Owner's Manuals

1 Information

Existing Owner's Manuals with order numbers (xx = language code, e.g. 10, 20, 30, etc.)

- WKD9Y000xx18
- WKD9Y001xx18
- WKD9Y099xx18
- WKD9Y000xx19
- WKD9Y002xx19

must neither be supplied with new vehicles nor used as replacement Owner's Manuals. Any of these Owner's Manuals that are still in stock must be disposed of.

From now on, only use the Owner's Manuals with the order number WKD9Y004xx19 for the vehicles assigned to the campaign.

The order numbers for the various language versions of the updated Owner's Manual are provided in the following table. You can order the Owner's Manual in the quantity you need using the standard ordering process.

Parts Info .:

	Designation	Order	ing via	Ophoard Ownor's	
Order No.:	- Language	PROS (Arvato)	PCNA	Manual	
WKD9Y0042119	Owner's Manual · English (USA, Canada)				
WKD9Y0043119	Owner's Manual • French (Canada)				

Warranty processing

Information

The specified working times were determined specifically for carrying out this campaign and include all necessary preliminary and subsequent work.

The working times may differ from the working times published in the Labor Operation List in PIWIS.

Scope 1:

Re-program air conditioning control unit and various other control units

The following control units are **not** re-programmed:

- Assistance systems (bootloader)
- Assistance systems (application software)

Jun 18, 2019 Page 22 of 33

Technical Information

)

Instrument cluster

• PCM 5.0

Working ti	me*:					
Re-program units	nming air-c	onditioning control unit and various oth	er control	Labor time: 134 TU		
Includes:	Connec	ting and disconnecting battery charger				
	Connec	ting and disconnecting PIWIS Tester				
	Reading	out instrument cluster software versio	n			
	Reading	out software version and variant of as	sistance			
	systems					
	Performing combined software update of various control					
	units					
	Teaching servo motors for air-conditioning flaps					
	Re-COOII	1g all control units				
	Poplaci	g upuateu Oriboaru Owner Simariuar				
	Calibrat	ing parking brake				
	Calibrat	ing trailer hitch (only with I-no 1D9)				
	Reading	out and erasing fault memories				
	Creating	vehicle analysis log (VAL) before and a	after repairs			
	Perform	ing function test				
Required r	materials					
WKC60000	0001**	Owner's Manual**	1 ea			
WKC60000	0002***	Shipping costs***	1 ea			
** The cost the Part No	t of one Ow . WKC600	ner's Manual will be covered for each 00001 with the designation " Owner's I	vehicle. For warra Manual" as access	nty processing, enter sories costing \$12.50.		
*** If you ii	ncur shipp	ing costs when ordering the Owner's N	Anual Supplement,	please invoice these		
costs under	r the Part N	lo. WKC60000002, with the designation	tion "Shipping cos	ts" as an additional		
part. Please	e documer	It a copy of the invoice for this in the wa	rranty claim.			
⇒ Damag	e Code Wi	KC6 066 000 1				
amag						
Re-program	air conditio	oning control unit and various other con	trol units			
The following	g control ur	nits are not re-programmed:				
Assistar	nce systen	ıs (bootloader)				

- Assistance systems (application software)
- PCM 5.0

Scope 2:

Working ti	me*:						
Re-program units	iming air-co	nditioning control unit and var	ous other control	Labor time: 180 TU			
Includes:	Connecti Connecti Reading Re-progr Reading systems Performi units Teaching Re-codin Installing Replacin Calibratii Calibratii Reading Creating Performi	ng and disconnecting battery ng and disconnecting PIWIS Te out instrument cluster softwar amming instrument cluster out software version and varia ng combined software update servo motors for air-condition g all control units updated Onboard Owner's Ma g Owner's Manual ng parking brake ng trailer hitch (only with I-no. 1 out and erasing fault memorie vehicle analysis log (VAL) befor ng function test	charger ester e version nt of assistance of various control ning flaps nual D9) s re and after repairs				
Required r	naterials:						
WKC60000	001**	Owner's Manual**	1	ea.			
WKC60000	002***	Shipping costs***	1	ea.			
** The cost the Part No.	** The cost of one Owner's Manual will be covered for each vehicle . For warranty processing, enter the Part No. WKC60000001 with the designation "Owner's Manual" as accessories costing \$12.50.						
*** If you ir costs under part. Please	ncur shippi the Part Ne e document	ng costs when ordering the O o. WKC6000002, with the a copy of the invoice for this i	wner's Manual Suppleme designation " Shipping c n the warranty claim.	ent, please invoice these : osts " as an additional			
⇒ Damage	e Code WK	C6 066 000 1					

Scope 3: Re-program air conditioning control unit and various other control units

The following control units are **not** re-programmed:

- Assistance systems (bootloader)
- PCM 5.0

Technical Information

Working tir	ne*:		
Re-program units	ming air-co	nditioning control unit and various other control	Labor time: 198 TU
Includes:	Connecti Connecti Reading e Re-progra Reading e systems Re-progra Performi units Teaching Re-coding Installing Replacing Calibratir Reading e Creating Performi	ng and disconnecting battery charger ng and disconnecting PIWIS Tester but instrument cluster software version amming instrument cluster but software version and variant of assistance amming assistance systems (application software ng combined software update of various control servo motors for air-conditioning flaps g all control units updated Onboard Owner's Manual g Owner's Manual ng parking brake ng trailer hitch (only with I-no. 1D9) but and erasing fault memories vehicle analysis log (VAL) before and after repairs ng function test	9)
Required n	naterials:		
WKC60000	001**	Owner's Manual**	1 ea.
WKC60000	002	Shipping costs and	Tea.
** The cost the Part No.	of one Owr WKC6000	ner's Manual will be covered for each vehicle . Fo 10001 with the designation " Owner's Manual " as	r warranty processing, enter accessories costing \$12.50.
*** If you in costs under part. Please	icur shippi the Part No document	ng costs when ordering the Owner's Manual Supp b. WKC60000002, with the designation "Shippi a copy of the invoice for this in the warranty claim	lement, please invoice these ng costs " as an additional I.
Required to	ools:		
9Y0919866	бB	SD memory card – Assistance systems update for variant B	up to 8 ea.****
or	۲. ۸		up to 9 oo ****
310313800	ы	– Assistance systems update for variant C	up to o ea.

**** Only the **actual number of SD memory cards** that are available to the Porsche dealership for carrying out this campaign must be invoiced for each Porsche dealership. The number of SD cards provided for each Porsche dealership depends on how many vehicles will have to be worked on by each Porsche dealership as part of this campaign (see section \Rightarrow *Technical Information '9XOOIN Required tools*).

The SD memory cards must only be **invoiced once** for the first vehicle during **warranty processing**. Only the **working time** must be invoiced in the warranty claim for all other vehicles on which work is carried out as part of this campaign in the Porsche dealership.

\Rightarrow Damage Code WKC6 066 000 1

Scope 4: Re-program air conditioning control unit and various other control units

The following control unit is **not** re-programmed:

• PCM 5.0

Working ti	ne*:	
Re-program units	ming air-conditioning control unit and various other control	Labor time: 213 TU
Includes:	Connecting and disconnecting battery charger Connecting and disconnecting PIWIS Tester Reading out instrument cluster software version Re-programming instrument cluster Reading out software version and variant of assistance systems Re-programming assistance systems (bootloader) Re-programming assistance systems (application software) Performing combined software update of various control units Teaching servo motors for air-conditioning flaps Re-coding all control units Installing updated Onboard Owner's Manual Replacing Owner's Manual Calibrating parking brake Calibrating trailer hitch (only with I-no. 1D9) Reading out and erasing fault memories Creating vehicle analysis log (VAL) before and after repairs Performing function test	
Required r	naterials:	
WKC60000	001** Owner's Manual**	1 ea.

Technical Information			Service		
			35/19 ENU WKC6 9		
	WKC60000002**	* Shipping costs***	1 ea.		
	** The cost of one Owner's Manual will be covered for each vehicle . For warranty processing, ent the Part No. WKC60000001 with the designation " Owner's Manual " as accessories costing \$12.				
	*** If you incur shi costs under the Par part. Please docum	*** If you incur shipping costs when ordering the Owner's Manual Supplement, please invoice these costs under the Part No. WKC60000002 , with the designation " Shipping costs " as an additional part. Please document a copy of the invoice for this in the warranty claim.			
	9Y0919866B	SD memory card – Assistance systems update for	up to 8 ea.**** variant B		
	or				
	9Y0919866A	SD memory card – Assistance systems update for	up to 8 ea.**** variant C		
	**** Only the actu carrying out this ca The number of SD o to be worked on by <i>mation '9XOOIN Re</i>	* Only the actual number of SD memory cards that are available to the Porsche dealership for rying out this campaign must be invoiced for each Porsche dealership. number of SD cards provided for each Porsche dealership depends on how many vehicles will have e worked on by each Porsche dealership as part of this campaign (see section \Rightarrow <i>Technical Infor-</i> <i>tion '9X00IN Required tools</i>).			
	The SD memory cards must only be invoiced once for the first vehicle during warranty processing . Only the working time must be invoiced in the warranty claim for all other vehicles on which work is carried out as part of this campaign in the Porsche dealership.				
	\Rightarrow Damage Code WKC6 066 000 1				
Scope 5: Re-program air conditioning control unit and various other control units			control units		
-	The following control units are not re-programmed:				

- Assistance systems (bootloader) ٠
- Instrument cluster ٠
- PCM 5.0 •

Working ti	me*:			
Re-program units	nming air-co	nditioning control unit and various other control	Labor time: 172 TU	
Includes:	Connecti	ng and disconnecting battery charger		
Connecting and disconnecting PIWIS Tester				
	Reading out instrument cluster software version			
	Reading out institutient cluster software version Reading out software version and variant of assistance			
	systems			
	Reprogramming assistance systems (application software)			
	Performing combined software update of various control			
	units			
	Teaching servo motors for air-conditioning flaps			
	Re-coding	g all control units		
	Installing	updated Onboard Owner's Manual		
	Replacing	Öwner's Manual		
	Calibratir	ng parking brake		
	Calibrating trailer hitch (only with I-no. 1D9)			
	Reading out and erasing fault memories			
	Creating	vehicle analysis log (VAL) before and after repai	rs	
	Performi	ng function test		
Required r	naterials:			
WKC60000	001**	Owner's Manual**	1 ea.	
WKC60000	002***	Shipping costs***	1 ea.	
** The cost the Part No	t of one Owr . WKC6000	ner's Manual will be covered for each vehicle . 10001 with the designation " Owner's Manual " a	For warranty processing, enter is accessories costing \$12.50.	
*** If you ir costs under part. Please	ncur shippi n the Part No e document	ng costs when ordering the Owner's Manual Su b. WKC60000002, with the designation "Ship a copy of the invoice for this in the warranty cla	pplement, please invoice these ping costs " as an additional im.	
Required t	ools:			
9Y0919860	6B	SD memory card – Assistance systems update for variant B	up to 8 ea.****	
or				
9Y091986	6A	SD memory card	up to 8 ea.****	
		– Assistance systems update for variant ${f C}$		

**** Only the **actual number of SD memory cards** that are available to the Porsche dealership for carrying out this campaign must be invoiced for each Porsche dealership. The number of SD cards provided for each Porsche dealership depends on how many vehicles will have to be worked on by each Porsche dealership as part of this campaign (see section \Rightarrow *Technical Information '9XOOIN Required tools'*).

The SD memory cards must only be **invoiced once** for the first vehicle during **warranty processing**. Only the **working time** must be invoiced in the warranty claim for all other vehicles on which work is carried out as part of this campaign in the Porsche dealership.

\Rightarrow Damage Code WKC6 066 000 1

Scope 6: Re-program air conditioning control unit and various other control units

The following control units are **not** re-programmed:

- Assistance systems (bootloader)
- Assistance systems (application software)

Working time*:

Re-programn units	ning air-con	ditioning control unit and variou	is other control	Labor time: 210 TU
Includes:	Connectin Connectin Reading o Re-progra Reading o systems Re-progra Performin units Teaching s Re-coding Installing u Replacing Calibrating Reading o Creating v Performin	g and disconnecting battery ch g and disconnecting PIWIS Test ut instrument cluster software v mming instrument cluster ut software version and variant mming PCM 5.0 g combined software update of ervo motors for air-conditionin all control units updated Onboard Owner's Manu Owner's Manual g parking brake g trailer hitch (only with I-no. 1D ut and erasing fault memories ehicle analysis log (VAL) before g function test	arger er version of assistance ^T various control g flaps nal 9) and after repairs	
Required m	aterials:			
WKC600000	01**	Owner's Manual**		1 ea.

WKC6000002*** Shipping costs*** 1 ea. ** The cost of one Owner's Manual will be covered for each vehicle. For warranty processing, enter the Part No. WKC60000001 with the designation "Owner's Manual" as accessories costing \$12.50. *** If you incur shipping costs when ordering the Owner's Manual Supplement, please invoice these costs under the Part No. WKC6000002, with the designation "Shipping costs" as an additional part. Please document a copy of the invoice for this in the warranty claim. Required tools: 9Y0919360D up to 8 ea.**** SD memory card - PCM update for North America **** Only the actual number of SD memory cards that are available to the Porsche dealership for carrying out this campaign must be invoiced for each Porsche dealership. The number of SD cards provided for each Porsche dealership depends on how many vehicles will have to be worked on by each Porsche dealership as part of this campaign (see section \Rightarrow Technical Information '9X00IN Required tools'). The SD memory cards must only be **invoiced once** for the first vehicle during **warranty processing**. Only the working time must be invoiced in the warranty claim for all other vehicles on which work is carried out as part of this campaign in the Porsche dealership. \Rightarrow Damage Code WKC6 066 000 1 Re-program air conditioning control unit and various other control units The following control unit is **not** re-programmed:

Assistance systems (bootloader)

Working time*: Re-programming air-conditioning control unit and various other control Labor time: 228 TU units Includes: Connecting and disconnecting battery charger Connecting and disconnecting PIWIS Tester Reading out instrument cluster software version Re-programming instrument cluster Reading out software version and variant of assistance systems Re-programming assistance systems (application software) Re-programming PCM 5.0 Performing combined software update of various control units

Scope 7:

9

Tea Re Ins Re Ca Ca Re Cru Pe	aching servo motors for air-con- coding all control units talling updated Onboard Owner blacing Owner's Manual ibrating parking brake ibrating trailer hitch (only with I- ading out and erasing fault men eating vehicle analysis log (VAL) forming function test	ditioning flaps 's Manual no. 1D9) nories before and after repairs
Required mate	ials:	
WKC60000001	* Owner's Manual**	1 ea.
WKC6000002	** Shipping costs***	1 ea.
** The cost of or enter the Part No \$12.50.	e Owner's Manual will be cover . WKC60000001 with the desig	ed for each vehicle . For warranty processing, gnation " Owner's Manual " as accessories costing
*** If you incur s costs under the I part. Please doc	hipping costs when ordering t Part No. WKC60000002, with ument a copy of the invoice for	he Owner's Manual Supplement, please invoice these the designation " Shipping costs " as an additional this in the warranty claim.
Required tools:		
9Y0919360D	SD memory card – PCM update for Nort l	up to 8 ea.**** h America
9Y0919866B	SD memory card – Assistance systems u	up to 8 ea.**** update for variant B
or		
9Y0919866A	SD memory card – Assistance systems u	up to 8 ea.**** update for variant C
**** Only the ac carrying out this The number of S to be worked on <i>mation '9XOOIN</i>	tual number of SD memory of campaign must be invoiced for D cards provided for each Porso by each Porsche dealership as Required tools).	cards that are available to the Porsche dealership for each Porsche dealership. che dealership depends on how many vehicles will have part of this campaign (see section \Rightarrow <i>Technical Infor</i> -
The SD memory Only the working carried out as pa	cards must only be invoiced o I time must be invoiced in the w rt of this campaign in the Porsc	nce for the first vehicle during warranty processing. varranty claim for all other vehicles on which work is he dealership.

\Rightarrow Damage Code WKC6 066 000 1



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
- Occasionally checking the programming status (twice per programming block)

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.



Information

If malfunctions occur or if programming is aborted during this workshop campaign and these result in additional time being spent (e.g. if a control unit has to be replaced), this cannot be invoiced under the workshop campaign number. This work must be invoiced under an additional warranty claim using the following coding:

- Function unit code (FES) 91020
- Damage category (SA) 9738 "Does not function following PAG campaign"

Overview of problems and symptoms that will be corrected with the software update

Overview: Overview of problems and symptoms

Component/control unit	Function/symptom	Fault symptom description
Chassis control PASM	Messages "Chassis system fault" and "Chassis system failure" in the instrument cluster	Sporadic resets of the control unit due to a timing problem.

Technical Information

Service

35/19 ENU WKC6

9

Roll stabilization PDCC	Message "Chassis system fault" in the instrument cluster	The PDCC system fails at low speeds (up to 3 mph/5 km/h) due to temporary asynchronous data processing between the front and rear axle.
	Message "Chassis system fault" in the instrument cluster - only for Hybrid vehicles	Sporadic failure of PDCC system. The function is available again after an ignition reset.
Instrument cluster	Display flickers	After scrolling quickly in the Vehicle menu in the instrument cluster, the right display in the instrument cluster flickers.
Gateway	eCall function in China	The Emergency Call function cannot be used in some parts of China due to incorrect coding of the connected gateway. A breakdown call can be made.
Vehicle electrical system battery	Vehicle electrical system battery flat	The vehicle electrical system battery is flat due to a high closed-circuit current because control units are not switched to sleep mode or are woken up at times.
Porsche Communication Management (PCM)	Touch display in the dashboard freezes	After pressing the individually programmable button on the steering wheel, individual parts of the touch display can no longer be used in some areas of North America. The function is available again after BUS idle.

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.

 $\ensuremath{^{\odot}}$ 2019 Porsche Cars North America, Inc.