

Service

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ANA6 - Re-Programming Central Computer (PCM) (Stop Delivery / Recall Campaign)

Revision: This bulletin replaces bulletin Group 9 133/22 ANA6, dated July 22, 2022.

Model Year: As of 2020 up to 2022

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 Series: Taycan (Y1A/Y1B/Y1C)

Concerns: Central computer (PCM)



Information

ANA6 must not be carried out without first carrying out AMB5/WMH0!

Information:

Due to a possible internal software error in the central computer (PCM) control unit, the following two faults may occur on the affected vehicles:

• The center and passenger displays as well as the touch control panel do not start immediately when readiness for operation is switched on and the screens remain black

or

Real Top View (RTV) is displayed with a flickering image

Campaign Exception for Punch Time Requirements: ANA6, WNJ8, and WNK1

PCNA will make an exception to warranty policy regarding the necessary time keeping procedures when performing the following campaigns: ANA6, WNJ8, and WNK1.

Though warranty policy guidelines state that no technician may be punched on more than one R.O. at the same time, an exception will be made for the ANA6/WNJ8/WNK1 campaigns. Due to the extensive programming time necessary a technician may perform multiple ANA6, WNJ8, and WNK1 campaigns at one time, as long as there is a separate identifiable punch for each on the respective repair order and the total number of campaigns being performed at one time does not exceed 3. The exception will be made so that full "active participation time" does not need to be documented for these 3 campaigns only.

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Technical Information

Measures:

- Reprogram the instrument cluster with the **latest** PIWIS Tester software version.
- Minimum requirement: Version 41.200.010
- Replace Owner's Manual in the on-board folder in the vehicle with an updated version.

Checklist:

Due to the high number of **incorrect** programming steps carried out as part of the last software update (VR12.1.1), a checklist was created to improve the overview of the work to be carried out. The checklist **must be** completed and signed and attached to the PQIS quality line in the PCSS.

For checklist, see ⇒ *Technical Information 'Checklist'*

Affected

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

Vehicles:

Required tools

Tools:

- 9900 PIWIS Tester 3
- Battery charger with a current rating of at least 90 A, e.g. VAS 5908 battery charger 90A
- USB storage medium Type A+C 32 GB (for PCM update), Part No. V04014999WW000
- **USB storage medium, type C (for onboard Owner's Manual update),** e.g. Part No. V04014999WW000

Software update (software version VR19.0.1)

Work
Procedure:



Information

Before starting programming, the battery charger must always be:

- **Switched off and back on.** Switch it off, allow time for the charger display to go blank, then switch it back on. This is to reset a timer internal to the battery charger itself. There is a default setting in the charger which can cause it to automatically switch from the current Mode to Trickle Charging. Switching it off and on again ensures the charger does not automatically fall back to trickle charging midprogramming.
- Set charge voltage to 14.8 volts.
- In Supply Mode.
- The basic procedure for control unit programming is described in the Workshop Manual ⇒

 Workshop Manual 'Basic Instructions and Procedure for Control Unit Programming Using the PIWIS

 Tester'.

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Information

An active Internet connection with the PIWIS Tester must be ensured.

It is **necessary** to enroll the technician using the PIWIS Tester.

Vehicles with a PVTS contract must be activated for Service mode to prevent unwanted theft detection during the campaign.

The PIWIS Tester must not be charged using the cigarette lighter!

- After the backup documentation process, the integration test is started automatically. The result must first be **ignored**.
- 3 Create Vehicle Analysis Log (VAL) using the PIWIS Tester. Mark the vehicle analysis log you have just created with the attribute "Pre-VAL" and after carrying out the campaign, return it using the PIWIS Tester.
- 4 Update various control units to software version VR19.0.1 (Sequence 1).

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

Required PIWIS Tester software version:	41.200.010 (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:	J1K1T
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 (up to):	 MY 2020-2021 / 250 minutes MY 2022 / 120 minutes The first interaction by the technician is required after about 30 minutes. The rest of the programming sequence runs through to the end without any necessary interaction.
Control units programmed in this campaign:	See ⇒ Technical Information 'overview of control units VR19.0.1.'
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 "Troubleshooting"'.
Procedure in the event of a termination in the control unit programming:	Continue the campaign sequence to the end, then carry out the integration test again when the test is complete and start programming from the integration test.
	Additional instructions for aborted programming ⇒ Technical Information '9X00IN Additional information if programming is aborted'

- 5 When programming is complete, backup documentation including the integration test is made again. The result must first be **ignored** because this sometimes displays control units that are displayed as faulty despite programming.
 - To check this, the integration test can be started again on the start page by pressing •F3" button.
- The battery charger **must be** switched off and on **completely** once **before** sequence 2 due to the automatic switchover (trickle charging).
- 7 Select Guest account from the central display (PCM) and activate **Privacy mode** (available in some countries).



Information

If Privacy mode is not active, programming may be aborted, resulting in a defect in the central computer (PCM). Central computers that are replaced as part of the workshop campaign are checked by Porsche AG; if private mode was not set in the central computer before starting programming, the costs will be re-debited.

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Information

Please inform the customer that all mobile phones must be re-paired following the campaign. Existing/paired mobile phones will appear in the Devices list, but must be deleted & re-paired to be functional.

Please inform the customer that Media --> Favorites have moved. Favorites are now accessed similar to all media sources. Therefore, it may be recommended to re-order the media sources to provide easy access to stored Favorites.

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Re-program the central computer (PCM) (sequence 2).

Sequence 2 may **only** be performed if sequence 1 was performed.

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

Preparing USB stick with the **required** software (depending on country version)

Overview of the software to be used for the central computer (PCM): See \Rightarrow *Technical Information '9X00IN overview of PCM update'*

Required PIWIS Tester software version:	41.200.010 (or higher)
Type of control unit programming:	Select the PCM central computer control unit in the control unit selection screen ('Overview' menu) and select the 'Maintenance/repairs' menu.
	Select the 'Install software update' function and press • F12" ('Next') to perform the software update.
Programming code:	J1K2T
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 (up to):	25 minutes

Control unit programmed in this campaign:	• See ⇒ Technical Information '9X00IN overview of control units VR19.0.1.'
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 "Troubleshooting"'.
Procedure in the event of a termination in the control unit programming:	Repeat control unit programming by restarting programming.
	Additional instructions for aborted programming ⇒ Technical Information '9X00IN Additional information if programming is aborted'

- 9 Remove USB stick.
- 10 Start rework for various control units (**sequence 3**).

Sequence 3 may **only** be performed if sequences **1 and 2** have been performed.

Important Information!	
The teaching process for component protection during the execution of sequence 3 is different between model years!	
Model year Control unit required for execution	
2020 - 2021 Assistance systems (zFAS)	
2022	Rear-end electronics (BCM2)

Required PIWIS Tester software version:	41.200.010 (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:	J1K3T

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Programming sequence: The instructions for selecting the required control unit for teaching component protection must always be observed!	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 (up to):	approx. 25 minutes
Control units programmed in this campaign:	See ⇒ Technical Information '9X00IN overview of control units VR19.0.1.'
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 "Troubleshooting".
Procedure in the event of a termination in the control unit programming:	Repeat control unit programming by restarting programming. Additional instructions for aborted programming ⇒ Technical Information '9X00IN Additional information if programming is aborted'



Information

Important Information!

- Resetting the charging profiles is **only** necessary if a **high-voltage charger (OBC 22 kW)** is installed in the vehicle.
- As soon as the control unit is selected, the left side of the PIWIS Tester shows whether the charger is 11 kW or 22 kW.
- If the charging profiles are **not** reset, there is a possibility that the Plug and Charge function will **not** be available.

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Reset charging profiles for high-voltage charger (OBC 22 kW).

- 11.1 Select high-voltage charger (OBC 22 kW) control unit.
- 11.2 Select **Drive links/checks**.
- 11.3 Select Load profile, factory setting.

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- 11.4 Start the routine with •F8".
- 12 Perform direct rework in the vehicle.
 - 12.1 Re-teach the handbrake by pressing the button in the vehicle.
 - 12.2 Engage gear.
 - 12.3 Retract extended rear spoiler.
 - 12.4 Standardize side windows.



Information

The wheel electronics must be taught during the test drive and must **not** be carried out by the technician.

- 13 Remove the **PIWIS Tester (VCI)** from the vehicle and end the **diagnosis** process.
 - 13.1 Lock the vehicle.
 - 13.2 Establish bus idle for at least 10 minutes.
 - 13.3 After bus idle, re-connect the PIWIS Tester (VCI) and start the diagnosis again.
- 14 Electronic operating instructions. For more information, see *⇒ Workshop Manual '9X00IN Diagnostic system: Performing vehicle handover'* (Install Onboard Owner's Manual section).
- 15 Read out all **fault memories**, process and delete existing faults if necessary.



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.

16 Press •F3" to start the integration test in the control unit selection.

All affected control units should now be successfully re-programmed or chi

All affected control units should now be successfully re-programmed or checked in the control unit overview and their status.



Information

If a deviation in the integration test is still indicated despite programming being carried out, this must be repeated. If the deviation persists, contact Technical Support.

- 17 Create Vehicle Analysis Log (VAL) using the PIWIS Tester.
 Mark the vehicle analysis log you have just created with the attribute "Post-VAL" and after carrying out the campaign, return it using the PIWIS Tester.
- 18 Exit the diagnostic application. Switch off ignition. Disconnect the Tester from the vehicle.

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Information

If the navigation database is **not** up-to-date, **malfunctions** after updating the central computer (PCM) cannot be ruled out.

The complete update process can take up to 45 minutes.

After inserting the USB stick, a **minimum waiting time** of up to 5 minutes must be observed before starting the update.

If the update does **not start** and the message **Data for the update on the storage medium is invalid** appears, the current navigation database is already on the vehicle. The update can then be cancelled.

The ignition switches off automatically after 30 minutes. For this reason, the driver's door **must** be opened and closed again once after **25 minutes**. If this is not done, the installation process must be repeated.

By re-inserting the USB stick, one can check at any time whether the data was loaded successfully.

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For more information, see: Programming central computer data update: ⇒ Workshop Manual '9X00IN Programming navigation update on central computer'

For an overview of the navigation database, see \Rightarrow Technical Information '9X00IN Overview of navigation software for USB stick'.

- 20 Switch off and disconnect the battery charger.
- 21 Set battery charger back to a charge voltage of 14.4 volts.



Information

An excessively high charge voltage can lead to battery defects in other model lines.

22 Exchange Owner's Manual in the vehicle.

For an overview of the Owner's Manuals for **model years 2020-2021**, see: *⇒ Technical Information '9X00IN Overview of Order Numbers for Driver's Manual (MY20-21)'*For an overview of the Owner's Manuals for **model year 2022**, see: *⇒ Technical Information*

For an overview of the Owner's Manuals for **model year 2022**, see: *⇒ Technical Informatior* '9X00IN Overview of Order Numbers for Driver's Manual (MY22)'



Information

The vehicle must **only** be handed over to the customer using the new Owner's Manual.

- 23 Attach the completed checklist to the PQIS quality line. ⇒ Technical Information '9X00IN Checklist'
- 24 Enter the campaign in the Warranty and Maintenance booklet.

Labor time: 347 TU

During the test drive, a navigation destination that is further away than the available remaining range of the vehicle must be entered at least **4 times** until charge planning is **fully** charged. Updating the central computer (PCM) takes a set time for charging planning.

Warranty processing

Campaign Exception for Punch Time Requirements: ANA6, WNJ8, and WNK1

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Though warranty policy guidelines state that no technician may be punched on more than one R.O. at the same time, an exception will be made for the ANA6/WNJ8/WNK1 campaigns. Due to the extensive programming time necessary a technician may perform multiple ANA6, WNJ8, and WNK1 campaigns at one time, as long as there is a separate identifiable punch for each on the respective repair order and the total number of campaigns being performed at one time does not exceed 3. The exception will be made so that full "active participation time" does not need to be documented for these 3 campaigns only.

Scope 1:

Labor time:

Update software for various control units

Includes: Connecting and disconnecting battery charger

Connect and disconnect PIWIS Tester

Update various control units to software version VR19.0.1

(Sequence 1)

Update software for central computer (PCM) (sequence 2) Perform rework for various control units (sequence 3)

Installing Owner's Manual in the PCM

Perform rework in the vehicle Select and erasing fault memories Update navigation database

Replace Owner's Manual

Create Vehicle Analysis Logs (VALs) before and after the

campaign

Required materials:

ANA60000001 Owner's Manual* 1 piece
ANA60000002 Shipping costs** 1 piece

* The cost of one Owner's Manual will be covered **for each vehicle**. For warranty invoicing, enter the Part No. **ANA60000001** with the designation "**Owner's Manual**" as **accessories** costing **\$0.01**.

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** If you incur **shipping costs** when ordering the Owner's Manual, please invoice these costs under the Part No. **ANA6000002**, with the designation "**Shipping costs**" as an additional part. Maximum cost **\$6.25**. Please document a copy of the invoice for this in the warranty claim.

⇒ Damage code ANA6 099 000 1

Overview of control units, VR19.0.1

Overview:

Overview of control units to be programmed VR19.0.1			
Control unit	Programming time including coding of all control units	Model year 2020-2021	Model year 2022
Sequence 1: Combined software update of various control units (Update via PIWIS Tester)	Model year 2020-2021 Up to 250 minutes Model year 2022 Up to 120 minutes		
Includes:			
Connect	up to. 25 minutes		
Gateway	approx. 2 minutes		
Battery sensor	approx. 4 minutes		
High-voltage charger (OBC)	approx. 5 minutes		•
High-voltage battery (BMCe)	approx. 8 minutes		•
High-voltage DC battery charger (booster)	approx. 2 minutes	•	•
HV voltage converter	approx. 4 minutes		•
Rear high-voltage power electronics	approx. 2 minutes		
Front High-voltage power electronics Only for 4WD vehicles	approx. 2 minutes		

Rear-end electronics (BMC2)	approx. 4 minutes	•	•
Air spring chassis control	approx. 3 minutes		
Air-conditioning compressor (ECC)	approx. 10 minutes	•	•
Thermal management (TME)	approx. 4 minutes	•	•
Head-up display (from MY21)	approx. 5 minutes	•	
Engine electronics (DME)	approx. 2 minutes	-	
Instrument cluster	approx. 20 minutes	•	
Assistance systems	Up to 110 minutes		
Over the Air (OTA)	approx. 19 minutes	•	
Coding of all control units	Up to 20 minutes	•	
Sequence 2: PCM update (Update via PIWIS Tester and USB storage medium)	Model year 2020-2022 up to 25 minutes		
Sequence 3: Start subsequent work for various control units (Update via PIWIS Tester)	Model year 2020-2022 up to 25 minutes	•	•
Teaching component protection		•	•
Updating enabling functions			
Automatic coding of all control units	approx. 20 minutes	•	

Back to the programming sequence for the \Rightarrow *Technical Information '9X00IN software update (software integrated VR19.0.1.)'*

Overview of the new features of the software update

Overview:

Function	Description The new features depend on the country and vehicle equipment	Model year 202 0-2021	Model year 2022
Vehicle electrical system	 The functionality of the battery management system is optimized to prevent intermittent discharging of 12V batteries Increased stability of 12V vehicle electrical system during long idle periods 		
Function on Demand	A subsequent activation of the comfort opening/closing (KESSY) and the virtual pedal for opening the rear lid is now via Function on Demand		
Navigation and infotainment: Porsche Communication Management (PCM)	 After setting up Spotify, Spotify is available as a separate media source in the PCM Android Auto is available via a cable connection New PCM design (colored tiles) Voice control with new functions and improvements (intelligibility of voice commands) Adaptation of the layout of the route monitor and the setting for deactivating traffic symbols (e.g. roadworks, one-way streets)(Navigation Plus) Charging stations can be filtered and selected in the search function for their charging power The On Board Owner's Manual can be used via voice control ("Hey Porsche") Improved route overview and operation display Omission of AM radio function in the Porsche Middle East market 		

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View	 Upgrading of the all-wheel drive display by repositioning it in the central computer (PCM) Revised and optimized display in the instrument cluster 	
Rear display unit	Display in national language for the Ukraine market is now available	
Connectivity	Longer availability of the VTS alarm	
Connectivity	Better availability of the colorful and grey services (News, Weather, Online radio, etc.)	
Head-up display	 Revised and optimized display in the head-up display Extension of display content in head-up display Optimized teaching of the head-up display in the workshop case 	
Assistance systems	 Higher precision of assistance systems and expansion of market-specific availability Improved parking space detection for intelligent ParkAssist (even small parking spaces available) Higher availability of Lane Change Assist in confusing traffic situations Availability of Porsche Inno Drive in the markets Lithuania and Vatican Optimization of traffic sign recognition Extension of ParkAssist for the Lithuania market Increased ParkAssist sensor range and better object detection 	
Diagnostics	Increased diagnostic reliability with external access	•
Vehicle handling	 Further comfort enhancement of vehicle handling Further optimization of braking performance 	

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Power train Power train Thermal management	 Increase in power train efficiency to increase range through improved all-wheel drive distribution (4WD only) Acoustic optimization of power train noise from electric machines Enhanced stability of the power train Range optimization/increased effi-
	ciency due to improved thermal management in the vehicle
Air conditioning	Avoidance of failure of the air-conditioning compressor and reduction of the risk of misting on the windscreen
Charging	 Increased charging stability during AC charging More frequent availability of fast-charging when utilising the charging planner due to preconditioning of the high-voltage battery (not available for model year 2020) Better availability of the plug-and-charge function Selection of more powerful charging pedestal in charge planning Avoidance of very short charging stops in charge planning Adapted energy content of the battery during charging stop (adapted to removal of the quick-charging network)
ОТА	 Enabling online updates for various control units Significantly improved charge planning in navigation

Return to the introduction \Rightarrow *Technical Information '9X00IN Introduction'*

Overview of PCM update



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 must be **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 installation and use the PiUS software tool in the PPN portal under *PiUS (Porsche integrated Update Service) goes live*.

Overview:

Part No.	Designation - Region	Vehicle allocation
9J1919360M	USB storage medium for PCM update – North America – Mexico	I-No. ER3/ER4

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Overview of navigation software for USB stick



Information

The USB sticks with the navigation database are available as special tools at the Porsche dealer.

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Overview:

Part No.	Designation - Region
9J1909000F	USB storage medium for PCM update - NAR

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Overview of Order Numbers for Owner's Manual (MY20-21)



Information

Owner's Manuals with order numbers that are still in place (zz = counter, e.g. 01, 02, etc.; xx = language code, e.g. 21, 31, etc.) WKD Y1A zz xx 20 and WKD Y1A zz xx 21 must neither be supplied with new vehicles nor used as replacement Owner's Manuals. Owner's Manuals with these order numbers still in stock must be disposed of.

From now on, **only** use the Owner's Manuals with the order number (y = market identifier A, B, C, D, E or F; xx = language code, e.g. 21, 31, etc.) for the **vehicles assigned to the campaign** WKD Y1A 04 y xx **22**. These reflect the technical status of the vehicles following the software update.

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.



Information

A blank or re-writable USB storage medium is additionally required for installation of the onboard Owner's Manual.

If no additional USB storage medium is available for carrying out this campaign, a replacement USB storage medium (e.g. Part No. V04014999WW000) must be purchased. The costs for the USB storage medium cannot be invoiced under the workshop campaign number (allowed once per Porsche dealer).

Parts Info:

Order No.	Designation	Ordering via	Onboard Owner's
Order No.	- Language	Polaris (PPL)	Manual
WKDY1A04B2122	Owner's Manual - English US		
WKDY1A04B3122	Owner's Manual - French (Canada)	•	•

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Overview of Order Numbers for Owner's Manual (MY22)



Information

Owner's Manuals with order numbers with (y = market code A, B, C, D, E or F; xx = language code, e.g. 21, 31, etc.) WKD Y1A y xx **22** must neither be supplied with new vehicles nor used as replacement Owner's Manuals. Owner's Manuals with these order numbers still in stock must be disposed of.

From now on, **only** use the Owner's Manuals with the order number WKD Y1A 02 y xx **22** for the **vehicles assigned to the campaign**. These reflect the technical status of the vehicles following the software update.

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.



Information

A blank or re-writable USB storage medium is additionally required for installation of the onboard Owner's Manual.

If no additional USB storage medium is available for carrying out this campaign, a replacement USB storage medium (e.g. Part No. V04014999WW000) must be purchased. The costs for the USB storage medium cannot be invoiced under the workshop campaign number (allowed once per Porsche dealer).

Parts Info:

Order No.	Designation	Ordering via	Onboard Owner's
	- Language	Polaris (PPL)	Manual
WKDY1A02B2122	Owner's Manual - English US	•	
WKDY1A02B3122	Owner's Manual - French (Canada)		•

Back to the programming sequence for the \Rightarrow *Technical Information '9X00IN software update (software integrated VR19.0.1.)'*

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Additional instructions if programming is aborted



Information

If individual programming steps or reworking could not be carried out correctly, see Workshop Manual for the basic procedure for control unit programming using the PIWIS Tester \Rightarrow Workshop Manual '9XOOIN' Basic instructions and procedure for control unit programming using the PIWIS Tester - chapter on "Troubleshooting".:

In the event of a fault, logging must **always** be created during programming using •Ctrl" and •L" using the PIWIS Tester.

Porsche AG programmed approx. 100 vehicles before the campaign was published as part of an internal pilot project; **not one single** control unit had to be replaced in the vehicles.

As a general rule, if programming is **aborted** during programming, programming must be continued. The entire sequence can be started again at any time using the campaign code. The control unit that has already been programmed is skipped or programming is started via the integration test.

You will also find further information and instructions specifically for the **VR19.0.1 update** in the table below:

Work Procedure:

Control unit:	Situation:	Action required:
Cancelling individual control units:	One or more control units cannot be programmed or can no longer be accessed	 Check on whether the control unit can be accessed using the PIWIS Tester or if bus idle does not have to be carried out Control unit still not accessible -> Remove fuse for control unit -> lgnition off -> Re-insert fuse Control unit still not accessible -> Disconnect battery overnight Check whether the control unit is accessible Carry out programming individually using the integration test (•F3" in the control unit overview

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Error message DoIP switchover:	There is no DoIP switchover	Switch off VCI and try again (do not operate VCI via WiFi) Use a different VCI Use another PIWIS Tester Check PINs on OBD socket Check fuses of the OBD socket Check Ethernet lines between OBD socket and gateway (resistance measurement)
Head-up display:	The head-up display control unit cannot be reached	 Pulling out fuse for head-up display control unit -> Removing fuse for control unit -> Ignition on -> Ignition off -> Re-insert fuse Carry out programming individually using the integration test (•F3" in the control unit overview
OTA control unit:	Programming aborted	Remove fuses from the OTA control unit. Use the PIWIS Tester to check whether the OTA control unit can be reached in order to check whether the correct fuse was removed (multiple fuses installed for the OTA control unit) Start programming again via Servsales and breakdown control

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Rear end electronics:	An error message appears on the PIWIS Tester when programming the rear end electronics	There can only be one remote control in the vehicle; as described in the Workshop Manual ⇒ Workshop Manual '9XOOIN Basic instructions and procedure for control unit programming using the PIWIS Tester'this must be
Central computer (PCM):	The central computer freezes while loading	 at the position Start sequence 2 again Perform PCM factory reset using the guided PIWIS Tester procedure
Central computer (PCM):	The central computer control unit cannot be accessed	Pulling out fuse for central computer control unit -> Removing fuse for control unit -> Ignition on -> Ignition off -> Re-insert fuse
Log in to PPN:	Electronic Owner's Manual cannot be installed due to an faulty Internet connection	 Always proceed as described in the work instruction! After the PCM update, the diagnostics must be completely closed before the electronic Owner's Manual can be installed using the PIWIS Tester
Component protection:	Component protection activation has failed	 Start sequence 3 again If there is a repeated abort, perform change of terminal 30. For instructions, see: ⇒ Workshop Manual '270619 Removing and installing vehicle electrical system battery' After the terminal 30 change, restart sequence 3 and select the component protection assistance systems (zFAS) for model year 2020-2021

	After the terminal 30 change, restart sequence 3 and select the component protection rear vehicle electronics BMC2 for model year 2022
Fault memory entry for OTA FC control unit Component protection active	 Select the OTA FC control unit in the control unit overview and perform automatic programming Then teach component protection again
Activation of component protection for the control unit for external communication (connection box) has failed	 Deactivate flight mode. For procedure, see: ⇒ Workshop Manual '903525 Deactivating flight mode' Then, start sequence 5 again
Activation of component protection for assistance systems (zFAS) has failed	 Teach component protection again. For manual procedure, see: ⇒ Workshop Manual '903555 Replacing gateway control unit'. Select the control unit for assistance systems (zFAS) in the PIWIS Tester procedure in order to teach component protection for the control unit for assistance systems (zFAS) Perform terminal 30 change Enable functions. For instructions, see: ⇒ Workshop Manual '903555 Replacing gateway control unit' Code all control units

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Parking brake (PSM):	Parking brake position lost after coding	Read the information on the instrument cluster and follow the instructions on the central display:
		 Press the footbrake completely Move selector lever to "N" and wait 5 seconds After a waiting time of 5 seconds, apply the parking brake
		If the "Brake" warning light in the instrument cluster still comes on, perform calibration again and wait for longer
HV booster, DC/DC converter, HV heater, BMCe:	Programming aborted	If only individual control units are programmed, this can result in programming being aborted. In this case, the system must be disconnected from the power supply and the programming must be carried out again.

Back to the programming sequence for the \Rightarrow *Technical Information '903555 software update (software integrated VR19.0.1.)'*

Checklist

Checklist:

Work step: The checklist only refers to campaign ANA6. A different checklist or another campaign must not be used.	Comple- ted:
1. Settings are made on the battery charger?	
Original remote control in emergency start tray?	
3. Internet connection for PIWIS Tester active?	
4. Vehicle Analysis Log (VAL) created?	
5. Sequence 1 performed?	
6. Battery charger switched off and on before programming?	
7. Select Guest account from the central display (PCM) and activate Privacy mode?	

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8. Sequence 2 performed?	
9. USB stick removed?	
10. Sequence 3 performed and differentiated between the component protection tester sequence ?	
Always check the TI! Different control unit selection, depending on the model years.	
11. High-voltage charger (OBC 22 kW) installed? If yes , continue with Step 12. If no , Continue with Step 13.	
12. Factory setting for charging profiles performed, function Plug and Charge available in PCM?	
13. Rework carried out in the vehicle?	
14. Bus idle performed for 10 minutes?	
15. Electronic operating instructions installed?	
16. Fault memory deleted?	
17. Integration test performed?	
18. Result of the integration test free of faults?	
19. Vehicle Analysis Log (VAL) created?	
20. Central computer navigation update programmed?	
21. Is the battery charger set to a charge voltage of 14.4 V?	
22. Owner's Manual replaced?	
23. Campaign entered in the Warranty and Maintenance booklet?	
VIN:	
Signature of Porsche dealer:	

Return to the introduction ⇒ *Technical Information '903555 Introduction'*

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