PORSCHE®

Technical Information

200/24 ENU WRS1

Service

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WRS1 - Checking High-Voltage Battery and Replacing Cell Block Module if necessary (Workshop Campaign)

Revision:	Version	Date	Change
	0	12/04/2024	 First publication
	1	04/17/2025	Update of Action
Model Year:	As of 2020 up to 2024		
Model Line:	Taycan (Y1A / Y1B / Y1C)		
Concerns:	High-voltage battery		
Cause:	The required, optimised software for the high-voltage battery control unit as part of ARB6/ARB7/WRS0 currently not available to update all affected vehicles immediately. Therefore, a check of the battery statu using an interim action is necessary until this on-board diagnostics software is available. As part of the interim action, a vehicle analysis log (VAL) is created at the workshop visit for offline vehicles without activated online functions and corresponding data transmission in order to analyse cell modules based on the VAL data analysis. Valid (complete) workshop and OTA VALs are taken into account for the eva uation.		nit as part of ARB6/ARB7/WRS0 is refore, a check of the battery status tware is available. workshop visit for offline vehicles in order to analyse cell modules is are taken into account for the eval-
Action:	Check cell modules via vehicle analy	sis log (PCSS).	
	 Population 1 – customer vehicles with an existing, valid VAL – create 1x VAL (scope 1) Population 2 – customer vehicles without an existing, valid VAL – create 3x VAL (scope 2) Population 3 – new vehicles without an existing, valid VAL – create 3x VAL (scope 3) 		te 1x VAL (scope 1) reate 3x VAL (scope 2) 3x VAL (scope 3)
Information An evaluation of the state of the module cell block of the Affected Vehicles is carried out by the P/ analysis of the VALs.		les is carried out by the PAG internal	
	On the basis of the transmitted VALs, PAG evaluates the state of the module cell block for the respect vehicle by using an analysis algorithm . The analysis result and the necessary further steps for each vehicle are displayed in the PCSS approx. 30-45 minutes after the VAL has been uploaded. Please also note the following information:		ule cell block for the respective
			isplayed in the PCSS approx.
	Customer is contacted by the relater.	elevant Porsche Centre or by the imp	orter using the ARB6 customer
	Customer arranges an appointr	nent with the Porsche Centre for car	ying out campaign ARB6.

- In the event of a negative test result, the assignment to the affected scope of the recall campaign
 ARB5 and the accompanying campaigns "Replacing module cell block" takes place once a day and is also displayed in the PCSS.
- In the event of a positive test result (no conspicuous modules), the interim action is completed and the warranty invoicing is made via the campaign number WRS1 under scopes 1-3. The ARB6 campaign remains open after performing the WRS1 until the final on-board diagnostics is available (Q1/2025). The vehicle can then be handed over to the customer.
- This test (WRS1) is valid for 60 days.
- If the software is not available, the **high-voltage battery must be rechecked every 60 days at the latest**. A renewed workshop campaign similar to WRS1 will be published in good time for processing.
- As soon as the software is available, the **final action (Q1/2025)** must be carried out in accordance with the ARB6 recall campaign.
- When the software or the on-board diagnostics is available, the WRS1 campaign is deactivated or closed.

Please encourage customers to bring their vehicles "Online" so that their HV Battery can be continuously monitored via ARB7 campaign.

To allow remote monitoring, you must have the My Porsche app on your smartphone and deactivate Privacy Mode in your vehicle's PCM. To do this, the customer will need to complete the following items: In-App via Smartphone: If not done so already, customer must complete registration in the MyPorsche app. In-Car: Customer will need to deactivate Privacy Mode, be signed in as the main user in the vehicle, and the vehicle will need an active data connection.

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

Required tools

- Tools:
- Battery charger with a current rating of at least 90 A, e.g., VAS 5908 battery charger 90 A
 P90999 P90999 PIWIS Tester 4

Checking high-voltage battery - population 1 (customer vehicles with an existing, valid VAL)

Work
Procedure:

Review high-voltage battery flow chart	
Creating Vehicle Analysis Log (VAL) in workshop Upload VAL via the data return function ψ	
VAL IS analyzed Within 30-45 minutes.	
the "battery with magnifying glass" icon symbol (see table on PCSS menu prompt).	
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ОК ↓	Not OK ↓
End of action Invoicing for Scope 1 If the final action "Re-programming ARB6 BMCe	Invoicing for VAL check via WRS1 scope 1. Replacing module via ARB5 recall/ and accom- panying campaigns "Replacing cell block module"
	Please submit the warranty claim for the campaign in WWS via the assigned scope.
software" is not available, the high-voltage battery must be rechecked by means of a VAL test after 60 days at the latest.	After replacing module: If the final action "Re-programming ARB6 BMCe software" is not available, the high-voltage battery must be rechecked by means of a VAL test after 60 days at the latest.

- 1 Open the front cover and connect a suitable battery charger, e.g., 90 A battery charger, to the jump-start terminals and switch it on.
- 2 Open the door and position the driver's key with the back facing forward upright between the holding strips in the rear drinks holder (emergency start tray) to ensure a permanent radio link between the vehicle and remote control.
- 3 Establish readiness for operation (switch on ignition).



Information

An **active** Internet connection with the PIWIS Tester must be ensured. To log in using the PIWIS Tester, the technician is **required**.

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



Emergency start tray

4 Connect the PIWIS Tester to the vehicle communication module (VCI) via the USB cable. Then connect the communication module to the vehicle and switch on the PIWIS Tester.

5 Create a Vehicle Analysis Log (VAL).

Mark the Vehicle Analysis Log you have just created with the attribute "**Extra VAL**" and return it using the PIWIS Tester after completion.

Feedback on analysis results by PAG takes place via PCSS after approx. 30-45 minutes.

• The data analysis yields a **positive result** (green PCSS display): The vehicle can then be handed over to the customer. Continue to Warranty Processing, Scope 1.

- The data analysis yields a **negative result** (red PCSS display): In rare cases, it may be necessary to replace the cell block module. If this is the case, the VIN in the ARB5 campaign is transferred to one of the accompanying campaigns.
- VAL faulty/insufficient (yellow or grey PCSS display): In very rare cases, additional VALs may be required.

PCSS menu prompt	Illustration
1. Vehicle search via VIN	<complex-block></complex-block>
2. Confirming "Battery with magnifying glass" icon under campaigns in WRS1	<complex-block></complex-block>

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Pop-up display window
"Green" display result
<image/>

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- 6 End the diagnostic application.
 - 6.1 End readiness for operation (switch off ignition).
 - 6.2 Disconnect the PIWIS Tester from the vehicle.
- 7 Switch off and disconnect the battery charger.
- 8 Enter the campaign in the Warranty and Maintenance logbook.

Checking high-voltage battery - Populations 2 and 3 (new vehicles and customer vehicles without valid VALs)

Work Procedure:	Review high-voltage battery flow chart
	1. Creating Vehicle Analysis Log (VAL) \downarrow
	Charge up to 100% SoC via AC port ↓

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		Idling time:		
	6 hours			
		\checkmark		
Idling time:		2. Creating Vehicle Analysis Log (VAL)		
↑		\checkmark		
72 hours		Idling time:		
\downarrow		66 hours		
		\checkmark		
		3. Creating Vehicle Analysis Log (VAL)		
		\downarrow		
VAL is analyzed w Reply to PAG about analysis resul area by pressing the "battery w OK ↓ Invoicing for Scope 2 or 3 If the final action "Re-programming ARB6 BMCe software" is not available, the high-voltage battery must be rechecked by means of a VAL test after 60 days at the latest.		vithin 30-45 minutes. t via PCSS display in the "Campaigns" vith magnifying glass" icon symbol. ↓		
		Not OK ↓		
		Invoicing for VAL check via WRS1 scope 2 or 3. Replacing module via ARB5 recall/ and accom- panying campaigns "Replacing cell block module"		
		Please submit the warranty claim for the campaign		
		in WWS via the assigned scope.		
		After replacing module: If the final action "Re-programming ARB6 BMCe software" is not available, the high-voltage battery must be rechecked by means of a VAL test after 60 days at the latest		

9 Open the front cover and connect a suitable battery charger, e.g., 90 A battery charger, to the jump-start terminals and switch it on.

AfterSales

- 10 Open the door and position the driver's key with the back facing forward upright between the holding strips in the rear drinks holder (emergency start tray) to ensure a permanent radio link between the vehicle and remote control.
- 11 Establish readiness for operation (switch on ignition).

lnformation

An **active** Internet connection with the PIWIS Tester must be ensured. To log in using the PIWIS Tester, the technician is **required**.

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



Emergency start tray

- 12 Connect the PIWIS Tester to the vehicle communication module (VCI) via the USB cable. Then connect the communication module to the vehicle and switch on the PIWIS Tester.
- 13 **Create a Vehicle Analysis Log (VAL)**. Mark the Vehicle Analysis Log you have just created with the attribute "**Extra VAL**" and return it using the PIWIS Tester after completion.
- 14 Charge the high-voltage battery of the vehicle on the driver's side to 100% SoC via the charging port with alternating current (AC).
 To reduce the charging time, it is recommended that charging be carried out at industrial electrical outlets, at E-charging stations, or at the wall box. Only charge the high-voltage battery at domestic electrical outlets, provided no other charging option is available.
- 15 Start the charging process and **note the time that 100% "Charging goal met at"** is displayed in the center console control panel.

The end time of the charging process is decisive for the creation of the additional Vehicle Analysis Logs. Please ensure that the following intervals are observed. Failure to do so may result in delays or an invalid evaluation.

- 16 After a charge state of 100% SoC has been reached, maintain an idling time of 6 hours and then create a second Vehicle Analysis Log (VAL). Mark the Vehicle Analysis Log you have just created with the attribute "Extra VAL" and return it using the PIWIS Tester after completion.
- 17 After the second VAL, maintain a further **idling time of 66 hours** and then **create a third Vehicle Analysis Log (VAL)**.

Mark the Vehicle Analysis Log you have just created with the attribute "**Extra VAL**" and return it using the PIWIS Tester after completion.

PAG feedback on analysis results is provided via a PPN update and provision of a VIN list with scope allocation.

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- The data analysis yields a **positive result** (green PCSS display): The vehicle can then be handed over to the customer. Continue to Warranty Processing, Scope 2-3.
- The data analysis yields a negative result (red PCSS display): In rare cases, it may be necessary to
 replace the cell block module. If this is the case, the VIN in the ARB5 campaign is transferred to one
 of the accompanying campaigns.
- VAL faulty/insufficient (yellow or grey PCSS display): In very rare cases, additional VALs may be required.
- 18 End the diagnostic application.
 - 18.1 End readiness for operation (switch off ignition).
 - 18.2 Disconnect the PIWIS Tester from the vehicle.
- 19 Switch off and disconnect the battery charger.
- 20 Enter the campaign in the Warranty and Maintenance logbook.

Warranty processing

Scope 1:

Population 1 – Customer vehicles with an existing, valid VAL

Labor time:		
Checking high-voltage battery Includes: Creating 1x Vehicle Analysis Log (VAL)		Labor time: 35 TU
WRS10000001* Vehicle Transport		Quantity as required (for warranty invoicing only)
* For warranty processing, the Part No. WRS10000001 can be invoiced in the warranty claim as an addi-tional part with the designation "vehicle transportation" and with the amount as per invoice. Please document a copy of the invoice for this in the warranty claim.		
\Rightarrow Damage number WRS1 066 000 1		

Scope 2:

Population 2 – customer vehicles, without an existing, valid VAL

Labor time:		
Checking high	voltage battery	Labor time: 124 TU
Includes:	s x Creating Vehicle Analysis Log (VAL)	
Additional cos	s:	
WRS1000000	1* Vehicle Transport	Quantity as required (for warranty invoicing only)

WRS1000002**	Power consumption	Quantity as required (for warranty invoicing only)
* For warranty processing tional part with the desigr Please document a copy o	, the Part No. WRS10000001 can be in nation "vehicle transportation" and with If the invoice for this in the warranty clai	voiced in the warranty claim as an addi - the amount as per invoice. im.
** For warranty processing, the part number WRS10000002 with the designation "Energy Consumption" can be invoiced as an additional part in the warranty claim. Maximum amount \$32.21.		
\Rightarrow Damage number WRS	1 066 000 2	

Scope 3:

Population 3 – new vehicles, without an existing, valid VAL

Labor time:		
Checking high-voltage battery Includes: 3 x Creating Vehicle Analysis Log (VAL)		Labor time: 124 TU
Additional costs:		
WRS1000002*	Power consumption	Quantity as required (for warranty invoicing only)
*For warranty processing, can be invoiced as an addi	the part number WRS100000002 with tional part in the warranty claim. Maxin	h the designation "Energy Consumption" num amount \$32.21.
\Rightarrow Damage number WRS1	066 000 2	

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