

**Warning Message "Vehicle Electrical System Faulty" in Conjunction With Fault Memory Entry "Cell Module X, Ageing Detected" in the High-Voltage Battery Control Unit - BMC (44/25)**

Change Overview:

Revision	Date	Change
0	05/26/2026	▪ First publication
1	05/27/2026	▪ Update to Manual section

Model Year: **As of 2020 up to 2024**

Model Line: **Taycan (Y1A / Y1B / Y1C)**

Concerns: **Cell block module for high-voltage battery (battery module)**

Cause: **Battery diagnostic software for monitoring the high-voltage battery was installed as part of the recall and Workshop Campaigns ARB6, ARB7, WRS0 and WSH4. This update optimizes the on-board diagnostic function of your Taycan to detect potential deviations in the high-voltage battery.**

If the high-voltage battery is abnormal, the following warning message will be displayed on the instrument cluster. ⇒ *Warning message*

In addition, the charging capacity of the high-voltage battery is automatically limited to 80% and the fault memory entry specified below is stored once or several times in the high-voltage battery control unit (BMC):

- B1D9EF\* - Cell module x, ageing detected



**Information**

**Note on diagnosis and actions for battery modules**

**Labelling in fault memory**

- At point \* various **numbers (1–9)** or **letters (A–Z)** can be placed.
- Each of these points identifies a **specific battery module**.
- At point x, the **number of the affected battery module** is specified.

**Several affected modules possible**

- It is possible that **several fault memory entries** for ageing of battery modules are stored.
- In this case, **several modules are affected**.

**Consequence in the absence of testing**



*Warning message*

- If the high-voltage battery is **not tested and repaired in the Porsche Center within 180 days**, the **charging capacity is automatically limited to 50%**.

#### Information for customers

- The customers were informed about this warning as part of the **software updates ARB6, ARB7 and WRSO**.

#### Urgent recommendation for dealing with the issue

- **As soon as a corresponding warning occurs, a Porsche Center is to be contacted immediately.**

Action: Identify and replace affected battery modules.  
To do this, proceed as follows:

- Check in **PCSS** whether there are already **Workshop Campaigns for replacing individual battery modules**.
- **Create a PRMS ticket to Technical Support - Technical Request** and have a **comprehensive technical analysis performed**.
- Replace **identified battery modules**.

Manual: A manual with further information on the fault pattern, processing in the Porsche Center and warranty billing was created as an aid.  
See manual: ⇒ *Technical Information 'Manual - Accompanying information and actions after carrying out the software updates ARB6, ARB7 and WRSO'*

### Identifying battery modules

- Work Procedure:
- 1 Check whether there is an open workshop or recall campaign in PCCS for replacing battery modules via the battery modules that are already identified to be replaced.
  - 2 Carry out tester routine "High-voltage battery analysis" for the battery modules to be replaced to be identified as a result of the yellow warning message (onboard diagnosis).
    - 2.1 Select the **"high-voltage battery (BMC)"** control unit.
    - 2.2 Switch to the **'Maintenance Repairs'** menu.
    - 2.3 Select **'High-voltage battery analysis'** tester routine and perform as per menu.
    - 2.4 The PIWIS Tester lists the **battery modules to be replaced**.
  - 3 Fully charge the high-voltage battery (80%) to fulfil the preconditions for the extended analysis.
  - 4 Create Vehicle Analysis Log (VAL) using the PIWIS Tester.
  - 5 Create a PRMS ticket to Technical Support - Technical Request and have extended analysis carried out in order to be able to identify additional battery modules for an exchange based on voltage differences and deviating SOH (State of Health).

### Replacing battery module

Work Procedure: 1 Replace identified battery modules (from campaign where necessary tester routine 'High-voltage battery analysis' and extended analysis by technical support).  
For procedure, see: ⇒ *Workshop Manual '270855 Replacing cell block module'*

### PCSS encryption

PCSS encryption:

<b>Location (FES5)</b>	2708G	Cell block module
<b>Damage type (SA4)</b>	4072	Voltage too low

### Manual - Accompanying information and actions after carrying out the software updates ARB6, ARB7 and WRSO

Content	1	Introduction
	1.1	Background of campaigns ARB6, ARB7 and WRSO
	1.2	Warning concept in the vehicle after software update
	1.3	Repair of the affected high-voltage batteries
	2	Warranty processing
	2.1	High-voltage battery warranty
	2.2	Vehicle transport (Assistance) in case of battery warning
	2.3	Customer Mobility Program coverage (Customer Mobility, Customer Mobility Plus)
	3	Spare parts supply
	3.1	HV battery assembly

#### 1. Introduction

##### Objective and purpose of the manual

- This document describes the recall remedy and processing of warranty claims in connection with the ARB6, ARB7 and WRSO campaigns, including the optimized on-board high voltage battery diagnostic software.
- The manual serves as a **guide for workshop processes**, in particular in dealing with diagnoses, repair decisions and the processing of warranty work.

##### Affected vehicles

- **Taycan vehicles** that were assigned to campaigns **ARB6, ARB7 and WRSO** and **received the software update for optimized on-board high-voltage battery diagnosis**.

1.1 **Background of campaigns ARB6, ARB7 and WRSO****Need for campaigns ARB6, ARB7 and WRSO**

- Certain Taycan high-voltage batteries may experience short circuits within the battery modules.
- Under the campaigns, affected vehicles will receive **optimized battery diagnostic software** that will display a warning message in the instrument cluster if abnormalities in the high-voltage battery are detected.

1.2 **Warning concept in the vehicle after software update****Function of on-board diagnosis**

- The **battery modules are monitored directly in the vehicle with the installation of the optimized onboard diagnostic software (BMC)**.

Target SW BMC status in the course of campaigns ARB6, ARB7 and WRSO:	Software version: 1606 or 1652
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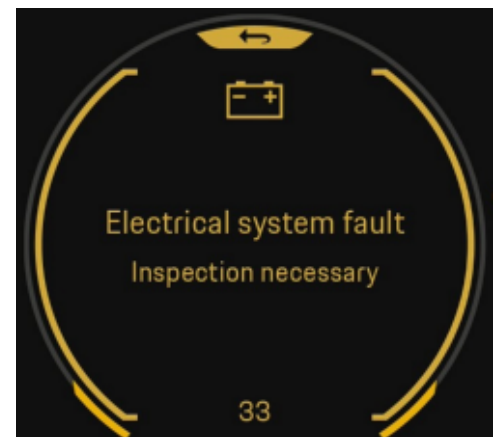
- The previous high-voltage battery health check monitoring via VALs is no longer required after performing the software update.
- In the event of fault codes in the high-voltage battery, the **yellow warning message "Vehicle electrical system faulty"** will be displayed in the **instrument cluster** in the future. ⇒ *Illustration 2 Yellow warning message after identification of a cell module error*
- Even in the case of previous repairs, the warning message can **appear again** if other cell modules are affected.

**Warning message active**

- If abnormalities in the battery modules are detected, the **warning message "Vehicle electrical system faulty" appears every time the vehicle is started (ignition change)** – until the **vehicle is diagnosed** in the Porsche Center and **repaired** if necessary.
- For **each cell module affected**, a **separate fault code (DTC)** is stored in the **control unit of the high-voltage battery**. ⇒ *Illustration 3 Relevant error codes incl. affected module*
- Example Fault memory entry: B19D9EF\*

**Information**

At this point "\*", different **numbers from 1 to 9** or different **letters from A to Z** can be specified, depending on the module number concerned. An example with warning module 1 is shown in Illustration 3.



*Illustration 2 Yellow warning message after identification of a cell module error*

**Automatic limitation of charging capacity**

- The warning message automatically limits the maximum charging capacity to 80% to reduce the risk of a short circuit in the battery.
- If, within 180 days, no testing or repair is carried out in the Porsche Center, the charging capacity is further reduced to 50%.

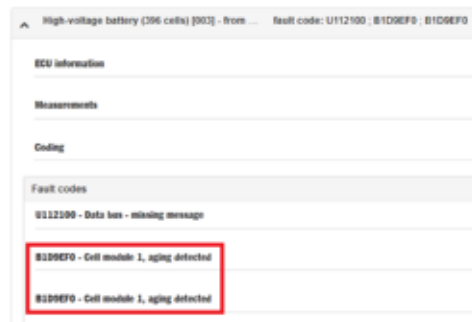


Illustration 3 Relevant error codes incl. affected module

1.3

**Repair of the affected high-voltage batteries**

**Checking open recall campaigns**

- If a vehicle is affected by one of the campaigns **APB5, ARA4 or ARB5** during a workshop visit, the modules specified in the campaign must be replaced in any case.
- To do this, please check for open campaigns in PCSS as defined in the standard process.
- **Defective cell modules** are replaced in accordance with the specifications in this **Technical Information** and the Workshop Manuals specified there. Refer to the "Identifying battery modules" and "Replacing battery modules" section on this.

<b>Step 1</b>	Check PCSS for open campaign APB5, ARA4 or ARB5 and, if necessary, identification of affected modules
<b>Step 2</b>	Implementation of PIWIS Tester Routine
<b>Step 3</b>	Clarification of the status of the other battery modules by technical support
<b>Step 4</b>	In general, observe this Technical Information and applicable Workshop Manuals. <b>These documents are key in the repair process!</b>

**Cell module replacement as standard warranty repair**

- After the software update for the optimized on-board diagnosis is completed, **all relevant campaigns for monitoring the high-voltage battery** (ARB6 / ARB7 and WRS0) are **closed**.
- Any **repairs after a warning message and corresponding diagnosis** must be invoiced via existing **warranty processes**.

**Error processing & cell module identification**

- Please observe the exact procedure for troubleshooting described in this Technical Information in the section "Identifying battery modules" and "Replacing battery modules".

### SOH assessment by Technical Support

- In addition, **Technical Support must be contacted** to request a **State of Health (SOH) assessment** of the battery. This process is already established as a standard for every repair to battery modules, for example.
- This allows additional **modules with abnormal SOH** to be identified.
- The goal is to avoid possible additional repairs at a later point in time.

## 2 Warranty processing

### 2.1 High-voltage battery warranty

#### Warranty coverage:

- The high-voltage battery is covered for **8 years or 160,000 km (100,000 miles)** (whichever comes first).

#### Invoicing:

- Repair measures are invoiced via a **normal warranty claim**.
- **Refer to Warranty and Goodwill space for policy requirements.**

### 2.2 Vehicle transport (Assistance) in case of battery warning

#### The vehicle can still be driven and charged despite the warning message

- In the event of a fault in the high-voltage battery, the vehicle displays the warning message "Vehicle electrical system faulty".
- The charging capacity is automatically limited to 80% to protect the battery.
- Apart from the 80% SOC limitation, there are **no further restrictions for the customer** until the aforementioned 50% SOC limit.

#### Towing service only in exceptional cases

- Towing is not billable under warranty as the vehicle can continue to be driven and charged.
- **Deviating agreements with the customer** must be borne **by the Porsche Center itself**.

### 2.3 Customer Mobility Program coverage (Customer Mobility, Customer Mobility Plus)

#### Vehicle is still ready to drive

- With warning message "**Vehicle electrical system faulty**" the **charging capacity is limited to 80%** until the aforementioned 50% SOC limit.
- The vehicle can **continue to be used** until the workshop appointment.
- **No restrictions** for the customer in normal vehicle operation besides the 80% charging limit.

#### No loaner vehicle before the workshop appointment

- No **loaner vehicle is planned** for the waiting time **until the workshop appointment**.
- If the customer desires a loaner vehicle, **the Porsche Center must bear the costs itself - not billable under warranty**.

**Customer Mobility during repair**

- During the repair period, the customer can **be provided with a loaner vehicle**.
- Mobility costs may be claimed for eligible warranty repairs in accordance with the Porsche Customer Mobility Guidelines.

3

**Spare parts supply**

**Campaign parts vs. regular spare parts**

- For vehicles assigned to a recall campaign (**APB5, ARA4, ARB5**), the **prescribed campaign parts** must continue to be used in accordance with the respective **Technical Information**.
- For **repairs based on the warning message "Vehicle electrical system faulty"** (without recall assignment), **only regular spare parts** are to be used.

3.2

**HV battery assembly**

**Battery replacement according to part number index**

- If, according to the **Workshop Manual**, the **entire high-voltage battery** must be replaced, the following applies: **First use stocks of the 1st generation**.

**Part numbers for high-voltage battery of 1st generation:**

9J1915099BA
9J1915099BX
9J1915100BA
9J1915100BC
9J1915100BX
9J1915100CX
9J1915100EX



**Information**

The correct variant can be identified in the PET parts catalogue by entering the VIN.

- Only when these stocks have been completely used up may the 2nd generation of the Taycan high-voltage battery be ordered.

**Part numbers for high-voltage battery of 2nd generation:**

9J1915589M
9J1915589MX
9J1915590M
9J1915590MX

**Information**

The correct variant can be identified in the PET parts catalogue by entering the VIN.

- Further information on the differences and installation of the 2nd generation:

See Technical Information: ⇒ *Technical Information '270800 Need for replacement of high-voltage battery on vehicles up to model year 2024: Observe specified procedure (02/25)'*

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