

Need for Replacement of High-Voltage Battery on Vehicles up to Model Year 2024: Observe Specified Procedure (02/25)

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

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

Concerns: **Replacing the high-voltage battery**

Cause: **The previous high-voltage battery for the Porsche Taycan from model years 2020 - 2024 is no longer available.**

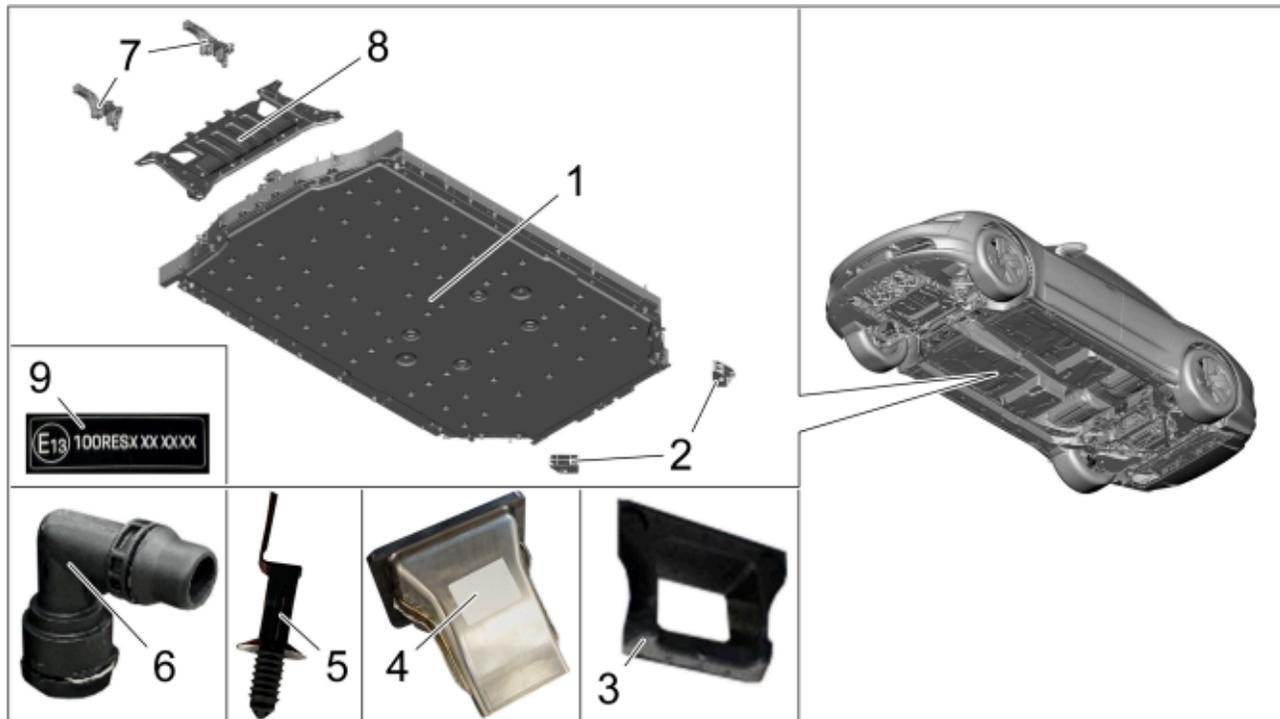
Action: If the previous high-voltage battery needs to be replaced, replace it with a high-voltage battery from model year 2025 onwards.



Information

To ensure installation and functioning of the high-voltage battery from model year 2025 in a Porsche Taycan from model years 2020 to 2024, components of the previous high-voltage battery must be upgraded to the new high-voltage battery, vehicle parts replaced and the new high-voltage battery programmed.

Component
Overview:



Component overview

- 1 – High-voltage battery
- 2 – Mounting bracket (**change**)
- 3 – Acoustic seal
- 4 – Air duct (only for vehicles with country of delivery China)
- 5 – Cable tie with holder (only for vehicles with electrically active roll stabilization / M-no. 1P7), **2 piece(s) (replacement)**
- 6 – Coolant nozzle, **2 piece(s)**
- 7 – Anti-roll bar support on left and right, with rubber bearing (**replacement**)
- 8 – Front axle support rear section (**replacement**)
- 9 – Information sign / E-number label

Required parts

Parts Info:	Part No.	Designation – Location of use	Quantity
	9J1...	⇒ High-voltage battery (complete) – The currently valid high-voltage battery is to be determined independently from the PET2 catalogue	1 piece

9J1...	⇒ Information plate – The respective currently valid information sign (E-number label) for the high-voltage battery is to be determined independently from the PET2 catalogue	1 piece
9J1122293K	⇒ Coolant support – High-voltage battery	1 piece
9J1122293J	⇒ Coolant support – High-voltage battery	1 piece
9J1413357B	⇒ Anti-roll bar support – left	1 piece
9J1413358B	⇒ Anti-roll bar support – right	1 piece
N 10831701	⇒ Internal serration screw – Anti-roll bar support	2 piece(s)
N 10664503	⇒ Hexagon-head bolt – Anti-roll bar support	4 piece(s)
N 10435506	⇒ Hexagon collar nut, self-locking – Anti-roll bar support	3 piece
N 10782201	⇒ Hexagon-head bolt – Anti-roll bar support right	1 piece
N 91244301	⇒ Hexagon-head bolt with hex socket head (Duo) – Anti-roll bar support lower	2 piece(s)
N 91006202	⇒ Hexagon-head bolt (combination) – Anti-roll bar support clamp	4 piece(s)
PAD407129A	⇒ Reinforcement plate – Front axle support (rear section)	1 piece
971411313K	Vehicles without PDCC (M-No. 1P0): ⇒ Rubber mounting – Anti-roll bar support	4 piece(s)
or		
971411313J	Vehicles with PDCC (M-No. 1P7): ⇒ Rubber mounting – Anti-roll bar support	4 piece(s)

Additional required parts for vehicles with electrically active roll stabilization (EAWS) / (M-no. 1P7):

PAF009558	⇒ Tie-wrap with retainer – High-voltage line on high-voltage battery support frame	2 piece(s)
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Required tools

Tools:

- **P90999 - PIWIS Tester 4**
- 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 90 A**. For further information about the battery chargers to be used, see the corresponding Workshop Manual. ⇒ *Workshop Manual '270689 Charge battery and vehicle electrical system'*
- Torque wrench, 0.4-2 Nm (0.3-1.5 ftlb.), e.g., **VAS 6253A - torque wrench, 0.4-2 Nm (0.3-1.5 ftlb.)**
- Torque wrench, 2-10 Nm (1.5-7.5 ftlb.), e.g. **V.A.G 1783 - torque wrench, 2-10 Nm (1.5-7.5 ftlb.)**
- Torque wrench, 6-50 Nm (4.5-37 ftlb.), e.g. **V.A.G 1331A - torque wrench, 6-50 Nm (4.5-37 ftlb.)**
- Torque wrench, 40-200 Nm (30-148 ftlb.) e.g., **V.A.G 1332A - torque wrench, 40-200 Nm (30-148 ftlb.)**
- **VAS 6266A - Wheel fitting trolley**
- **VAS 6931A - Transmission and gearbox jack**
- **VAS 6883A - Insulated tool set**
- **VAS 6832 - Master Gear unit elevating platform**
- **VAS 6832/9 - Assembly tool**
- **P90012 - Guide pins**
- **VAS 6558A/45 - High-voltage measurement adapter**
- **VAS 6558/9-6A - High-voltage test adapter**
- **VAS 6410 - Contact surface cleaning set**
- **T40262 - Locking cap**
- **VAS 531 011 - Cooling system service equipment**
- **3093 - Hose clamp**
- **VAS 6675A - Funnel**
- **VAS 6884 - High-voltage cordon**

Replace high-voltage battery**Information**

By way of example, some work steps are described for one side of the vehicle. The procedure on the other side is almost identical.

- Work Procedure: 1 Remove the high-voltage battery.
⇒ *Workshop Manual '270819 Remove and install high-voltage battery'*

- 2 Photograph the type plate of the previously installed and new high-voltage battery and note down the serial numbers.



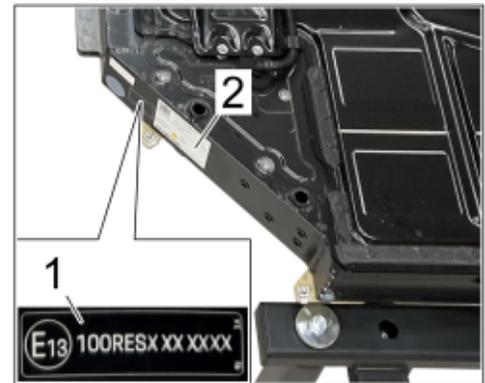
Information

After the action, photo documentation must be attached to the process in PCSS.



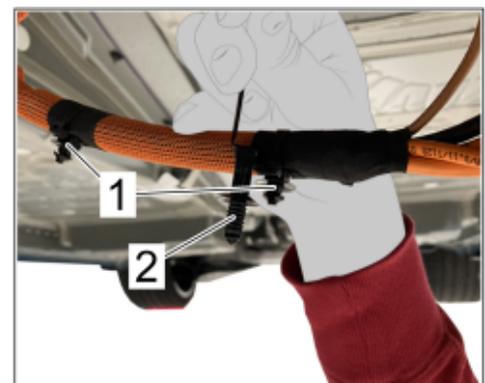
Serial number (example)

- 3 Affix E-number label ⇒ Affix E-number label -1- next to type plate ⇒ Affix E-number label -2- to new high-voltage battery.



Affix E-number label

- 4 **Only for vehicles with electrically active roll stabilization (EAWS) / (M-no. 1P7):**
Replace cable holder ⇒ Replace cable holder -1- on EAWS control unit high-voltage line with cable holder with a longer bridge ⇒ Replace cable holder -2-.



Replace cable holder

- 5 Change both mounting brackets ⇒ *Change mounting bracket -1-* of the removed high-voltage battery to the new high-voltage battery, while screwing in screws to the system by hand.

For work procedure, see:
⇒ *Workshop Manual '270819 Remove and install add-on parts for high-voltage battery'*

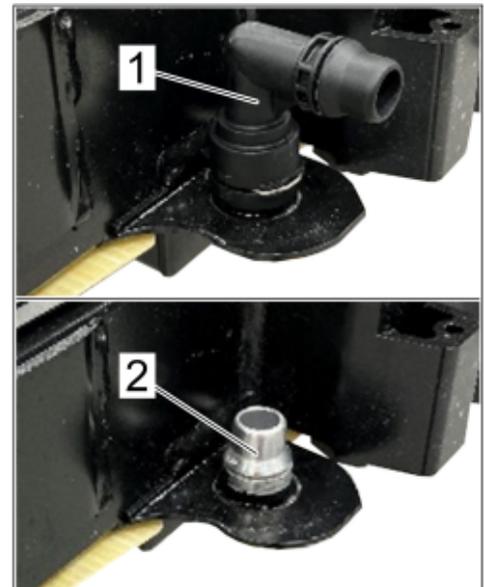
**Information**

The screws of the mounting brackets are only tightened to the high-voltage battery when installed.

- 6 Connect coolant nozzles ⇒ *Install coolant nozzles -1-* to supports ⇒ *Install coolant nozzles -2-* on the left and right of the new high-voltage battery.



Change mounting bracket



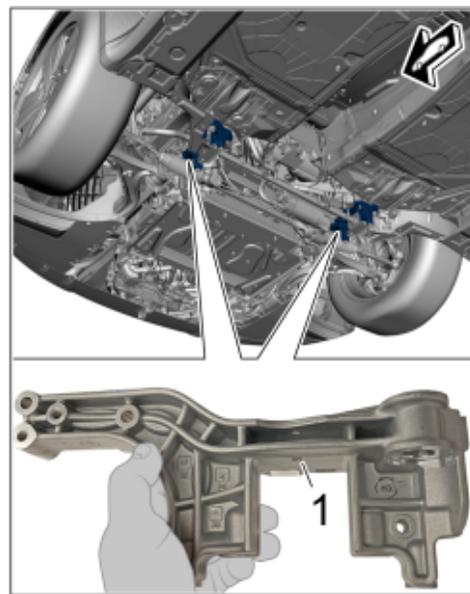
Install coolant nozzles

- 7 Replace anti-roll bar fastenings ⇒ *Replace anti-roll bar fastening -1-* with fastenings with model year 2025 component status, replacing rubber bearings.

For work procedure, see:
⇒ *Workshop Manual '407919 Remove and install anti-roll bar mount'*

- 8 Install high-voltage battery, observing the following:

- Tightening sequence of the converted mounting brackets, see ⇒ *Workshop Manual '270819 removing and installing attachment parts on the high-voltage battery'*
- Install **new** front axle support (rear section)
- Do not perform any further activities on the vehicle or PIWIS Tester during the cooling system ventilation routine
- **Do not perform commissioning of the high-voltage system**



Replace anti-roll bar fastening



Information

For subsequent programming of the high-voltage battery, the high-voltage system on the vehicle must be disconnected from the power supply (deactivated).

⇒ *Workshop Manual '270819 Remove and install high-voltage battery'*

Program high-voltage battery



Information

Before starting the test, the following points must be fulfilled:

- The high-voltage battery has been completely replaced
- Cooling system is filled and ventilation routine performed
- Jack mode is not active
- The high-voltage system on the vehicle is disconnected from the power supply (deactivated)

Work procedure: 1 Establish readiness for operation and start the diagnostic application.



Information

The high-voltage battery programming sequence must **not be interrupted**.

- 2 Write the serial number of the new high-voltage battery into the high-voltage battery control unit.
 - 2.1 Select "**High-voltage battery**" control unit in the control unit selection "**Overview**" and press **F12** ("Next") to confirm selection.
 - 2.2 Select "**Serial number coding for the high-voltage battery**".
 - 2.3 Follow Tester instructions and notes.
 - 2.4 Enter new serial number of the high-voltage battery according to menu guidance.



Information

The vehicle data is maintained via a guided Tester procedure.

Pay particular attention to the following:

- A connection to the Internet is required for the Tester procedure.
- Depending on the changes made to the vehicle data, automatic coding and backup documentation of the affected control units is performed after saving these changes.
- Read and follow the **information and instructions on the PIWIS Tester** during the guided procedure.
- Do not interrupt the coding process. When coding is complete, the message "Coding has been completed successfully" is displayed and a tick will then appear in the "Status" box.

- 3 Add control number "ST6 - J1PA HVB REINSTALLATION FOR CS" to vehicle order.
 - 3.1 In the control unit selection ('**Overview**' menu) press **F7** to call up the Additional menu.
 - 3.2 Select the '**Vehicle data maintenance with PIWIS ONLINE**' function and press **F12** ('Next') to confirm.
 - 3.3 Press **F12** ('Next') to skip the displays containing information about vehicle description, colors / materials and X numbers.
 - 3.4 Add coding value "**ST6 - J1PA HVB REINSTALLATION FOR CS**" to the vehicle data. Moreover, for the relevant coding value, click on the tick in the "Installed" field to select the value. Make sure that the 'Installed' column is subsequently **ticked** and that the pen symbol is displayed in the 'Changed' column.
 - 3.5 **No** further PR number may be set.
If, for example, PR number "ST3" or "ST5" is set, **delete it**.
 - 3.6 Then press **F12** ("Next") to close the PR numbers display.
 - 3.7 Press **F8** in the overview that is then displayed to save the changed vehicle data.
 - 3.8 Once you have saved the vehicle data, press **F11** ('Back') to return to the control unit selection screen.

- 4 Program high-voltage battery.
 - 4.1 Select "**High-voltage battery**" control unit in the control unit selection "**Overview**" and press **F12** ("Next") to confirm selection.
 - 4.2 Select the "Coding Programming" tab and run the Automatic Programming function.
 - 4.3 Start required programming with **F8** .
 - 4.4 Follow the instructions on the PIWIS Tester.

- 5 Activate the high-voltage system.
 ⇒ *Workshop Manual '277583 Deactivate and activate high-voltage system'*

- 6 Delete history memory.

- 6.1 Perform "Delete history memory" routine.
- 6.2 Establish bus idle for **at least 5 minutes** on the vehicle.

For this purpose:

- Disconnect the battery charger
- End diagnostic application, end readiness for operation, and disconnect **P90999 - PIWIS Tester 4** from vehicle
- Lock the vehicle
- Place driver's key outside the frequency range of the vehicle

- 6.3 Connect and switch on the battery charger.
 For work procedure, see: ⇒ *Workshop Manual '270689 Charge vehicle electrical system battery'*
- 6.4 Place the original remote control in the emergency start tray.
- 6.5 Establish readiness for operation and start the diagnostic application.
- 6.6 Select the "**BMS**" control unit in the control unit selection "**Overview**" and press **F12** ("Next") to confirm selection.
- 6.7 Read out and delete fault memories.
- 6.8 If the fault memory entries "Diag_F_CMC**_Performance_*" are still present, perform step ⇒ 8 again.

- 7 Review the thermal management software status and re-program if necessary.



Information

If the software status in the thermal management control unit (J1024) is lower than "0325", a **campaign** has not yet been carried out with regard to the software status.

- 7.1 Select the "**Thermal management (J1024)**" control unit in the control unit selection "**Overview**" and press **F12** ("Next") to confirm selection.
- 7.2 Check software for required **Software status "0325"** (or higher).

Assessment		Action
(✓)	The software version is "0325" (or higher).	The current software version is OK . Continue with Step ⇒ 10.
(x)	The software version is not "0325" (or higher).	The current software version is not OK . Review open campaigns of the vehicle. Re-program thermal management control unit (J1024) via open campaign . Then continue with Step ⇒ 10.

- 8 Carry out airbag zero-position calibration.
 - 8.1 Select the "**Airbag**" control unit in the control unit selection screen ("**Overview**" menu) and press **F12** ("Next") to confirm your selection.
 - 8.2 Select the menu "**Service/repairs**" then select the "**Teach combination sensor (J234)**" function and press **F12** ("Next") to confirm your selection.
 - 8.3 Follow the instructions on the PIWIS Tester.
- 9 Perform component protection commissioning.
 - 9.1 In the control unit selection ('**Overview**' menu) press **F7** to call up the Additional menu.
 - 9.2 Select "**Component protection commissioning**".
 - 9.3 Select "**High-voltage battery control unit**".
 - 9.4 Follow the instructions on the PIWIS Tester.
 - 9.5 Teach component protection according to menu guidance.
- 10 Read out and delete all control unit fault memories.
- 11 End the diagnostic application. End readiness for operation and disconnect **P90999 - PIWIS Tester 4** from vehicle.
- 12 Switch off and disconnect the battery charger.
For work procedure, see: ⇒ *Workshop Manual '270689 Charge vehicle electrical system battery'*
- 13 Photo documentation must be attached to the process in PCSS.

Labor position and PCSS encryption

Labor position:

APOS	Labor operation	I No.
27084940	Rework high-voltage battery (without PDCC)	
27084941	Rework high-voltage battery (with PDCC)	

PCSS encryption:

Location (FES5)	27080	High-voltage battery
Damage type (SA4)	9735	Repair according to PAG instructions

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