

**Control Unit for High-Voltage Battery (BMC) Loss of Capacity / Range Implausible: Reset Cell Modules (SY 248/24)**

**Change overview**

Revision	Date	Change
0	02/05/2026	<ul style="list-style-type: none"> <li>▪ First publication</li> </ul>
1	03/04/2026	<ul style="list-style-type: none"> <li>▪ Test step "Plausibility check of battery capacity" added.</li> <li>▪ Update to Symptom</li> </ul>

Model Line: **Macan (XAB)**

Model Year: **As of 2024**

Concerns: **Cell modules**

Symptom: **The customer complains that the displayed battery level does not match the displayed range and/or detects a significantly reduced DC charging power and cannot trace it back to the respective charging park.**

Remedial Action: If there is a customer complaint, perform a plausibility check of battery capacity and, if necessary, reset the cell modules using the Porsche Tester.

**Required tools**

- Tools Information:
- **P90999 - P90999 - Porsche 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. **battery charger 90 A**. For further information about the battery chargers to be used, see the corresponding Workshop Manual. ⇒ *Workshop Manual '270689 Charging the vehicle electrical system battery'*

**Resetting the cell modules using the Porsche Tester**



**Information**

After resetting the cell modules, the high-voltage battery adapts to the "start of life capacity" after the next learning phase.

- Work procedure:
- 1 Create vehicle analysis log (VAL).
    - 1.1 Connect and switch on the battery charger.  
⇒ *Workshop Manual '270689 Charging battery/vehicle electrical system'*
    - 1.2 Place the original remote control in the emergency start tray.

- 1.3 Connect **P90999 - P90999 - Porsche Tester 4**, establish readiness for operation and start the diagnostic application.
  - 1.4 Mark the created Vehicle Analysis Log (VAL) with the attribute "**Pre-VAL**" and return it using the Porsche Tester after the action is completed.
- 2 Carry out a plausibility check of the battery capacity according to the instructions of the Porsche Tester.
    - 2.1 Open high-voltage battery control unit (**J1120**).
    - 2.2 Open "**Maintenance repairs**" menu.
    - 2.3 Select the menu item "**Plausibility check of battery capacity**" and carry it out.
      - If **no** abnormalities were found during the plausibility check of the battery capacity, **the action ends**.
      - If the plausibility check of the battery capacity results in a deviation, continue with Step 3.
  - 3 Deactivate the high-voltage system.  
⇒ *Workshop Manual '931083 Deactivate and activate high-voltage system'*
  - 4 Reset the cell modules using the Porsche Tester.
    - 4.1 Select the "**High-voltage battery (J1120)**" control unit in the "**Overview**" control unit selection and confirm your selection by pressing **F12** ("Next").
    - 4.2 Select the "**Maintenance repairs**" menu. Then select the "**Configuring cell module and/or cell module controller**" function and confirm by pressing **F12** ("Next").
    - 4.3 Follow instructions and information displayed on the Porsche Tester.
    - 4.4 Select **all** 12 cell modules and reset the cell modules by pressing **F8** ("Start").

**Information**

All **12 cell modules** must always be selected.

High-voltage battery (J1120) [001] \ Configuring cell module or cell module controller  
Read and follow instructions. Start with [F8]. Cancel by pressing [F11].

1	2	3	4	5	6
Overview	Extended identifications	Fault memory	Actual values input signals	Drive links checks	Maintenance repairs

	Status
Cell module controller 2	<input type="checkbox"/>
Cell module 3	<input checked="" type="checkbox"/>
Cell module controller 3	<input type="checkbox"/>
Cell module 4	<input checked="" type="checkbox"/>
Cell module controller 4	<input type="checkbox"/>

**INSTRUCTIONS**  
**Selection**

- Mark all cell modules or cell module controllers to be replaced (multiple selection possible)
- Start configuration with Start [F8].

PCSS ? Feedback Data transfer Save Filter Disconnect Additional menu F8 Start F11 Cancel Next

Selection of cell modules in the Porsche Tester

- 5 Activate the high-voltage system.  
⇒ *Workshop Manual '931083 Deactivate and activate high-voltage system'*

**Information**

After the high-voltage system has been activated and before the fault memory is deleted, maintain a bus idle of approx. 6 minutes.

Otherwise there is the possibility that the fault memory cannot be deleted.

- 6 Read out and delete all control unit fault memories.
- 7 Establish bus idle for at least **1 hour** on the vehicle.

**For this purpose:**

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

- 8 Fully charge high-voltage battery after bus idle.

- 9 Re-establish bus idle for at least **1 hour** on the vehicle.

**For this purpose:**

- Remove high-voltage charger from the vehicle
- Lock the vehicle
- Place driver's key outside the frequency range of the vehicle

- 10 Create vehicle analysis log (VAL).

- 10.1 Connect and switch on the battery charger.

⇒ *Workshop Manual '270689 Charging battery/vehicle electrical system'*

- 10.2 Place the original remote control in the emergency start tray.

- 10.3 Connect **P90999 - P90999 - Porsche Tester 4**, establish readiness for operation and start the diagnostic application.

- 10.4 Mark the created Vehicle Analysis Log (VAL) with the attribute "**Post-VAL**" and return it using the Porsche Tester after the action is completed.

- 11 End the diagnostic application, end readiness for operation and disconnect **P90999 - P90999 - Porsche Tester 4** from the vehicle.

- 12 Switch off and disconnect the battery charger.

⇒ *Workshop Manual '270689 Charging the vehicle electrical system battery'*

### Labor position and PCSS encryption

Labor position:

APOS	Labor operation	I No.
93252541	Program the high-voltage battery control unit (performing plausibility check of battery capacity)	
93252540	Programming the high-voltage battery control unit (perform cell module reset)	

PCSS encryption:

Location (FES5)	93010	Cell module
Damage type (SA4)	4076	Energy balance too low

**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.

© 2026 Porsche Cars North America, Inc.