

**Complaint – Charging Process is Cancelled / Check Engine Warning Light is Active: Replace High-Voltage Charger (OBC) (36/21)**

**Change overview**

Version	Date	Change
0	03/19/2021	<ul style="list-style-type: none"> <li>First publication with interim solution so that the fault memory can be erased</li> </ul>
1	09/03/2021	<ul style="list-style-type: none"> <li>Adaptation of the required Porsche Tester software version for carrying out control unit programming</li> </ul>
2	01/27/2026	<ul style="list-style-type: none"> <li>Target software and Porsche Tester software release adapted</li> <li>Update of Work Procedure</li> </ul>

Vehicle Type: **Panamera 4 E-Hybrid (971)**  
**Panamera 4S E-Hybrid (971)**  
**Panamera Turbo S E-Hybrid (971)**

Model Year: **As of 2018 up to 2020**

Concerns: **3.6 kW (M no. KB1) — OBC (high-voltage charger)**

Information: Charging process of the high-voltage battery is cancelled and the Check Engine warning light comes on in the instrument cluster. In many cases, it may be possible to continue charging the vehicle once the vehicle plug has been disconnected and then re-connected to the vehicle.

This fault is caused by voltage fluctuations in the supply network (e.g. the domestic connection) to which the high-voltage battery charger is connected.

The entry '**B200000 - Control unit – function restriction (100200)**' or '**B200000 - Control unit, function restriction (E10105)**' is stored in the fault memory of the high-voltage charger (OBC) control unit as an active fault memory entry which cannot be deleted initially. As a result, the Check Engine warning light is not deactivated.

Action: 

- North America (NAR):**

Replacing high-voltage charger - OBC (high-voltage charger).

It is not possible to adapt the software for these vehicles.

For work procedure, see:

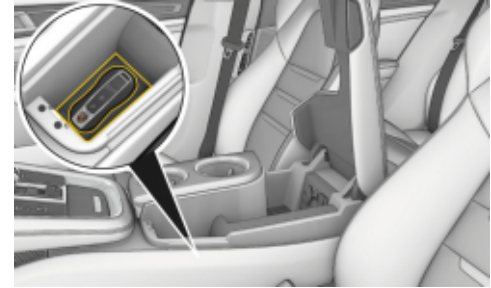
⇒ *Technical Information 'Replacing high-voltage charger (OBC) (North America only - NAR)'*

**Required tools**

Tools: 

- Battery charger with a current rating of **at least 90 A**, e.g. **VAS5908 battery charger 90A**
- P90999 - P90999 - Porsche Tester 4** with Porsche Tester test software release **43.800.000** (or higher) installed

- Work Procedure: 1 Place the driver's key with the back facing down into the front left storage compartment in the center console (emergency start tray) to guarantee a continuous radio link between the vehicle and the driver's key ⇒ *Emergency start tray*.
- 2 Carry out general preliminary work for control unit programming as described in ⇒ *Workshop Manual '9X00IN Basic instructions and procedure for control unit programming - section on "Preliminary work"*.



Emergency start tray

### Replace high-voltage charger (OBC) (North America only - NAR)

#### Parts Info:

Part No.	Designation	Quantity
PAB915682B	⇒ High-voltage battery charger	1 piece

#### Materials:

**Required materials** (usually already available in the Porsche Center)

Part No.	Designation	Quantity
00004330516	⇒ Coolant additive (20-liter/ 5.28 gal container)	Quantity as required

#### Tools:

- **P90999 - P90999 - Porsche Tester 4**
- Battery charger with a current rating of **at least 90 A**, e.g., **90-A battery charger**. 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, 6-50 Nm (4.5-37 ftlb.), e.g. **V.A.G 1331A - torque spanner, 6-50 Nm (4.5-37 ftlb.)**
- **VAS 6883A - Insulated tool set**

- Work Procedure: 1 Replace high-voltage charger (OBC).  
For work procedure, see:  
⇒ *Workshop Manual '279719 Remove and install high-voltage charger'*
- 2 Carry out general rework for control unit programming as described in ⇒ *Workshop Manual '9X00IN Basic instructions and work procedure for control unit programming using the PIWIS Tester - "Rework" section'*.
- 3 Switch off ignition.
- 4 Disconnect **P90999 - P90999 - Porsche Tester 4** from the vehicle.

- 5 Remove the driver's key from the emergency start tray.
- 6 Switch off and disconnect the battery charger.

### Labor position and PCSS encryption

Working position:

APOS	Labor operation	I No.
27972590	Programming high-voltage charger	
27975525	Replace high-voltage charger	
27080368	Measure high-voltage battery (free of voltage with tester and measuring adapter)	

PCSS encryption:

Location (FES5)	27970	High-voltage charger
Damage type (SA4)	1612	does not function at times

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