

Charging Interruption due to Overtemperature at the Charging Socket (126/23)

Change overview:

Version	Date	Change
1	12/18/2023	<ul style="list-style-type: none"> First publication
2	09/11/2024	<ul style="list-style-type: none"> Work procedure adjusted Required parts adapted (part number for battery charger)

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

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

Country /
Market: USA (C02)
Canada (C36)

Concerns: **Charging cable for vehicle side**

Cause: **When charging the vehicle with an AC charging cable, the charging process may be interrupted on exceeding a temperature threshold where the charging cable handle connects to the vehicle charge port.**

If this is the case, the following fault memory entry is stored in the On Board Charger (OBC):

- P31D200 Charging socket overtemperature

Actions: The work procedure depends on the on board charger (OBC) installed in the respective vehicle.

- **High-voltage charger 22 kW:** Replace existing charging cable for vehicle side, or replace Porsche Mobile Charger Plus with a Porsche Mobile Charger Connect. ⇒ *Technical Information 'Work procedure for vehicles with 22-kW high-voltage charger'*
- **High-voltage charger 11 kW:** Re-programming high-voltage charger (OBC) control unit and checking charging cable for vehicle side. ⇒ *Technical Information 'Work procedure for vehicles with 11-kW high-voltage charger'*
- **Customer awareness:** At high ambient temperatures, the charging process may end prematurely. The customer can prevent this by lowering the maximum charging current in the Porsche Mobile Charger Connect menu.

Procedure for vehicles with 22-kW high-voltage charger

Work Procedure: 1 Replace existing charging cable with a new component version with a larger line cross section.

**Information**

For vehicles equipped with a Porsche Mobile Charger Plus, the charger must be replaced with a Porsche Mobile Charger Connect, as it is not possible to replace the vehicle-side charging cable separately.

Required parts:

Part No.	Designation	Quantity
9Y0971675DK*	⇒ Battery charger (Porsche Mobile Charger Connect)	1 piece
7PP971676CK	⇒ Charging cable for vehicle side – Standard charging cable, 2500 mm length (M-No. EH1)	1 piece
or		
7PP971676CL	⇒ Charging cable for vehicle side – Optional charging cable, 7500 mm length (M-No. EH2)	1 piece

* Only required if the vehicle has previously been equipped with a Porsche Mobile Charger Plus.

Procedure for vehicles with 11-kW high-voltage charger

Required tools:

- **P90999 - PIWIS Tester 4** with PIWIS Tester software release **42.800.020** (or higher) installed
- 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 90A**. For further information about the battery chargers to be used, see the corresponding Workshop Manual. ⇒ *Workshop Manual '270689 Charging battery and vehicle electrical system'*

Work procedure: 1 Re-program high-voltage charger (OBC) control unit.

The basic control unit programming is described in the Workshop Manual ⇒ *Workshop Manual '9X00IN Basic Instructions and Procedure for Control Unit Programming Using the PIWIS Tester'*.

Specific information on control unit programming in the context of this Technical Information:

Required PIWIS Tester software release:	42.800.020 (or higher)
Type of control unit programming:	Control unit programming using the 'Automatic programming' function of the high voltage control unit (OBC). 'High-voltage charger (OBC)' control unit – 'Coding/programming' menu – 'Automatic programming' function.

<p>Programming sequence:</p>	<p>Read and follow the information and instructions on the PIWIS Tester during the guided programming sequence. During programming sequence, the high-voltage charger (OBC) control unit is re-programmed. The control unit is then re-coded automatically. Do not interrupt the programming and coding process. Once the control units have been programmed and coded, you will be prompted to switch the ignition off and then back on again after a certain waiting time. Backup documentation of the new software release is then performed.</p>
<p>Programming time:</p>	<p>Programming takes up to 8 minutes, depending on equipment.</p>
<p>Data record thus programmed for the high-voltage control unit (OBC):</p>	<p>Software release for control unit for high-voltage charger (OBC):</p> <ul style="list-style-type: none"> • 1093 (or higher) <p>Following control unit programming, the software version can be read out of the instrument cluster control unit in the ⇒ 'Extended identifications' menu using the PIWIS Tester.</p>
<p>Procedure in the event of error messages appearing during the programming sequence:</p>	<p>⇒ <i>Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester'</i>.</p>
<p>Procedure in the event of a termination in the control unit programming:</p>	<p>Repeat control unit programming by restarting programming.</p>

- 2 Check the cable contacts of the charging cable for vehicle side for discoloration due to the effect of heat.

Assessment		Action
(✓)	Cable contacts are not discolored .	Charging cable OK, no further action required. End of action.
(x)	Cable contacts are discolored .	Replacing Porsche Mobile Charger Plus charger or Replacing vehicle charging cable on the Porsche Mobile Charger Connect. Continue with ⇒ 3.

- 3 Replace Porsche Mobile Charger Plus charger or replace Porsche Mobile Charger Connect charging cable.



Information

The Porsche Mobile Charger Plus must be replaced in vehicles that are equipped with a PorscheMobile Charger Plus and have discoloration at the contacts of the charging cable for the vehicle side.

For vehicles equipped with a Porsche Mobile Charger Connect where the charging cable for the vehicle side shows discoloration at the contacts, the previous charging cable must be replaced with a new component status.

Required parts:

Part No.	Designation	Quantity
PAD971675E*	⇒ Battery charger (Porsche Mobile Charger Plus)	1 piece
or		
7PP971676CK	⇒ Charging cable for vehicle side – Standard charging cable, 2500 mm length (M-No. EH1)	1 piece
or		
7PP971676CL	⇒ Charging cable for vehicle side – Optional charging cable, 7500 mm length (M-No. EH2)	1 piece

* Only required if the Porsche Mobile Charger Plus is replaced.

Labor position and PCSS encryption

Labor position:

APOS	Labor operation	I No.
99815505	Replacing AC charging cable (22 kW)	
27972540	Re-programming the high-voltage charger (OBC) control unit and checking and replacing charging cable AC if necessary (11 kW)	

PCSS encryption:

Location (FES5)	99810	AC charging cable
Damage type (SA4)	1417	overheated / too hot

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