

Replacement Requirement for 22 kW High-Voltage Charger - OBC (240/24)

Change
Overview:

Revision	Date	Change
0	08/15/2025	▪ First Publication
1	08/22/2025	▪ Update to Cause
2	09/10/2025	▪ Update to Concern, Cause, and Action ▪ Addition of Reference Letter
3	04/02/2026	▪ Update to Required parts and Materials
4	07/22/2026	▪ Update to Work Procedures ▪ Addition of Information and Warnings ▪ Update to Labor Operations

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

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

Equipment: 22 kW high-voltage charger (**M-no. KB4**)

Concerns: **New service part for 22 kW on-board high-voltage charger (22kW OBC) replacement.**

Cause: **22kW OBC service part for 2020–2024 Taycan is no longer available. If replacement is necessary, please install an 11 kW replacement OBC and notify the customer as instructed below.**



Information

Before replacing the 22 kW high-voltage charger (OBC), check whether the vehicle is assigned to open workshop or recall campaigns and, if available, carry them out before conversion.

Action: If there is a need for replacement, **replace the previous 22 kW high-voltage charger (OBC) with a 11 kW high-voltage charger (OBC).**

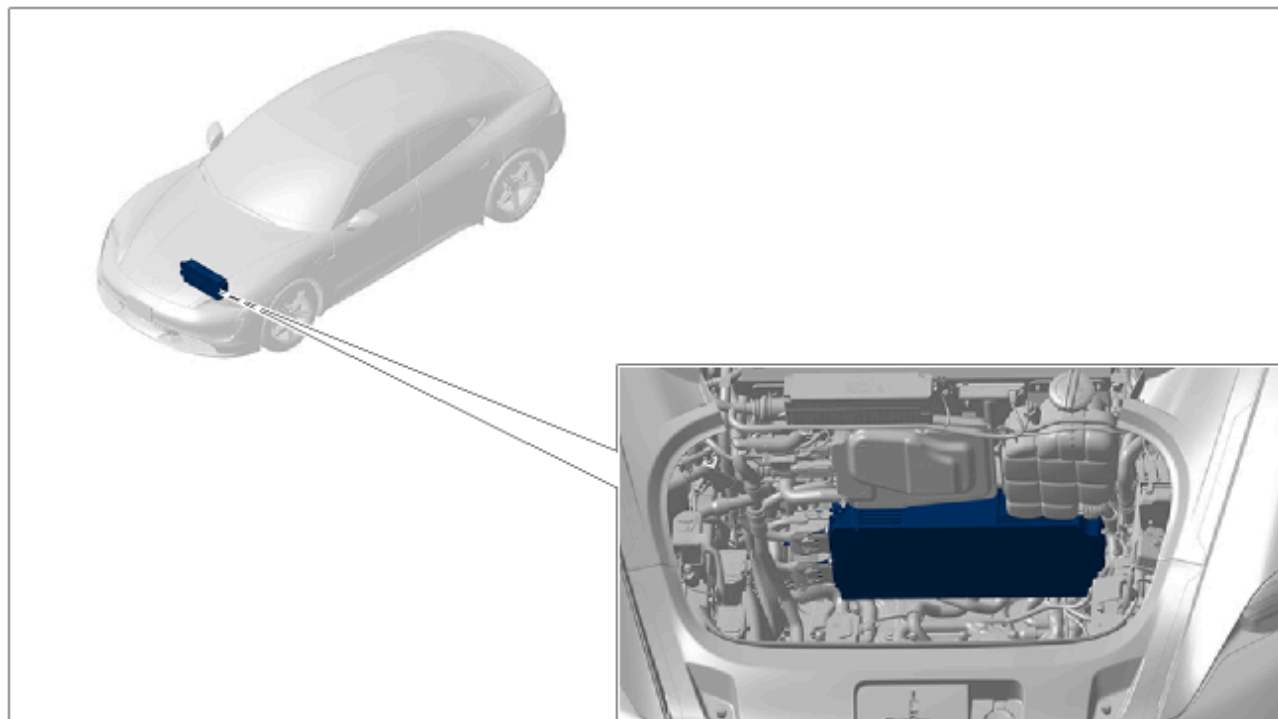
To do this, proceed as follows:

- 1 Please provide customer with a copy of the letter located on the bulletin PPN page:
<https://ppn.porsche.com/portal/docs/DOC-571613>
- 2 Replace the 22kW OBC with 11kW OBC,
 - Read out "Plug & Charge" customer setting
 - Remove previous 22 kW high-voltage charger (OBC)
 - Replace 22 kW charging socket with 11 kW charging socket

- Installing new 11 kW high-voltage charger (OBC)
- Coding/re-programming the new 11 kW high-voltage charger (OBC)
- Recover "Plug & Charge" customer setting

Installation

Position:



Installation position of 22 kW high-voltage charger (OBC)

Required parts and materials

Parts Info:

Part No.	Designation – Location	Quantity
PAB915684S	⇒ High-voltage battery charger – NAR (M-no. ES6)	1 piece

Additionally required parts for vehicles with the following equipment:

- Rear wheel drive (M-no. 1X2)

9J1915543	⇒ Holder for charger – High-voltage battery charger	1 piece
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N 10714801	⇒ Oval socket head bolt M6 x 18 – Charger holder to high-voltage battery charger	6 pieces
N 10737001	⇒ Hexagon nut, self-locking, M6 – Holder for high-voltage heater and high-voltage charger	7 pieces
N 91096801	⇒ Internal hexagon round-head countersunk screw M6 – Holder for high-voltage heater	1 piece

Additionally required parts for vehicles with the following equipment:

- All-wheel drive (M-no. 1X1)

9J1915543 Y	⇒ Holder for charger – High-voltage battery charger	1 piece
N 10714801	⇒ Oval socket head bolt M6 x 18 – Charger holder to high-voltage battery charger	4 pieces
N 10737001	⇒ Hexagon nut, self-locking, M6 – Holder for high-voltage heater and high-voltage charger	6 pieces
N 91096801	⇒ Internal hexagon round-head countersunk screw M6 – Holder for high-voltage heater	1 piece

Additionally required parts for vehicles with the following equipment:

- Charging socket Combo 1 (NAR) (M-no. ES6)

9J1971093Q	⇒ High-voltage line set for charging socket – Right-hand side of vehicle – NAR (M-no. ES6) – Left-hand drive (M-no. LOL)	1 piece
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and

9J1971106Q	⇒ High-voltage line set for charging socket – Left-hand side of vehicle – NAR (M-no. ES6) – Left-hand drive (M-no. LOL)	1 piece
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or

9JA971093Q	⇒ High-voltage line set for charging socket – Left-hand side of vehicle – NAR (M-no. ES6) – Right-hand drive (M-no. LOR)	1 piece
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and

9JA971106Q	⇒ High-voltage line set for charging socket - Right-hand side of vehicle - NAR (M-no. ES6) - Right-hand drive (M-no. LOR)	1 piece
9J1821247A	⇒ Charge port - Left-hand side of vehicle - Charge port door (M-no. 2W0)	1 piece
9J1821248A	⇒ Charge port - Right-hand side of vehicle - Charge port door (M-no. 2W0)	1 piece

Additionally required parts if a charging socket must be replaced.

PAF008485	⇒ Hexagon flange bolt M6 x 12 - Door hinge	2 pieces per vehicle side
PAF912032	⇒ M8 x 22 countersunk screw with internal serration - Door arrester to body	1 piece per vehicle side

Materials:

Required materials (usually already available at the Porsche Center)

Part No.	Designation - Location	Quantity
00004330516	⇒ Coolant (20 l / 5.28 gal container) - Cooling system	As required

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, 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 6883 - Insulated tool set**
- **VAS 6558A - High-voltage test adapter**

- VAS 6558A/27 - Set of Kelvin clamps and test probes
- VAS 6410 - Contact surface cleaning set
- VAS 6558/9-6A - High-voltage test adapter
- T40262 - Locking cap
- Pole terminal puller
- 3093 - Hose clamp
- VAS 6675A - Funnel
- VAS 531 011 - Cooling system service equipment
- VAS 6096/2 - Vacuum pump
- VAS 6890 - Spring band clamp pliers
- Hose clamp, e.g. 3093 - hose clamp

Preparatory work



Information

Only for US vehicles with "Plug & Charge"

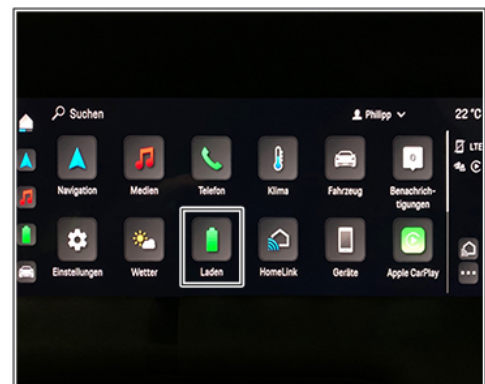
Further information on the Porsche Charging Service can be found in the Porsche Connect Store.

If the high-voltage charger (OBC) is replaced, the "Plug & Charge" customer setting must be read out and documented in the display and control panel before removing the high-voltage charger (OBC). After installing and teaching the new high-voltage charger, (OBC), the customer-specific setting of "Plug & Charge" must be restored.

Work Procedure: 1 Only for US vehicles with "Plug & Charge":

Read out and note customer-specific setting of the "Plug & Charge" Connect app in the display and control panel.

- 1.1 Select the **Charging** menu in the display and control panel. ⇒ *Display and control panel "Charging"*



Display and control panel "Charging"

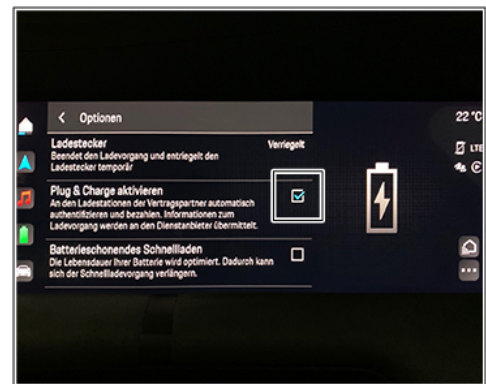
- 1.2 Select the "additional options" button  at the bottom right of the display and control panel. ⇒ *Display and control panel "Overview"*



Display and control panel "Overview"

- 1.3 Note the status of the **Plug & Charge** setting in the options menu ⇒ *Display and control panel for "Plug & Charge"*
- 1.4 Read out and note any charging profiles or timers set by the customer.

- 2 For further preliminary work, see: ⇒ *Workshop Manual '279719A7 Removing and installing the 22 KW high-voltage charger'*



Display and control panel for "Plug & Charge"

Removing the 22-kW high-voltage charger (OBC)

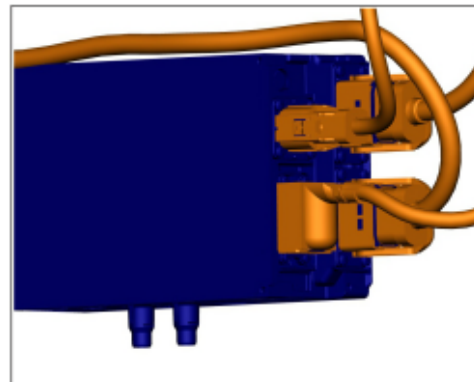


WARNING

Incorrect handling of high-voltage components

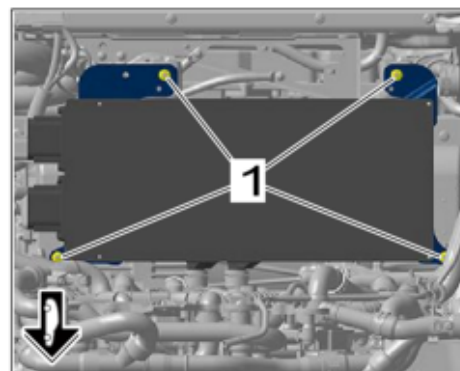
- Electric shock
 - Short circuit
 - Fire
 - Explosion
- ⇒ Only appropriately trained and authorized persons are permitted to work on high-voltage vehicles and components.
- ⇒ Required qualification: High voltage technician or high voltage expert.
- ⇒ Observe national requirements and legislation for this work.
- ⇒ Always use insulated tools, for example the Insulated tool set when working on these parts.
- ⇒ Observe general warning notices for working on the high-voltage system. ⇒ *Workshop Manual '2X00INB5 General warning notices for working on the high-voltage system'*

Work Procedure: 1 Release and disconnect all electrical connections on the high-voltage charger.



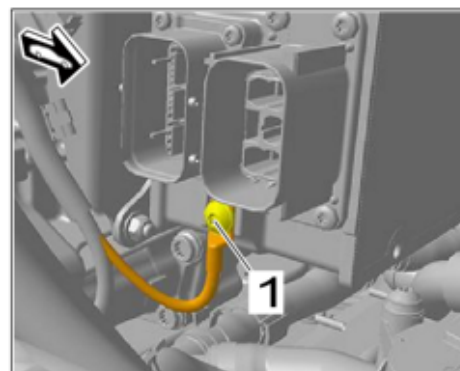
Electrical connections on high-voltage charger

2 Unscrew the four fastening nuts $\Rightarrow$ *Fastening nuts on holder -1-* for the holders from the high-voltage charger.



Fastening nuts on holder

3 Unscrew screw for equipotential bonding line $\Rightarrow$ *Equipotential bonding line -1-*.

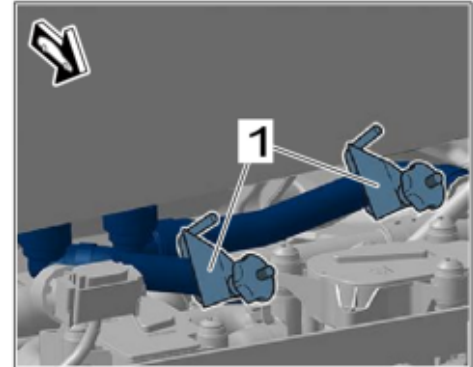


Equipotential bonding line

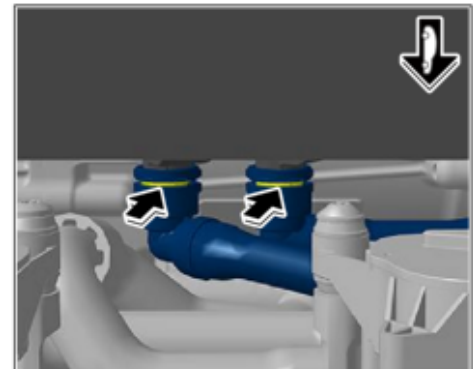
- 4 Lift up the high-voltage charger and clamp the two coolant lines with a hose clamp ⇒ *Coolant lines -1-* respectively.

**Information**

Before installing or removing the coolant lines, place absorbent material (paper, cloths) underneath to absorb any emerging coolant. Coolant must never get onto electric contacts.

*Coolant lines*

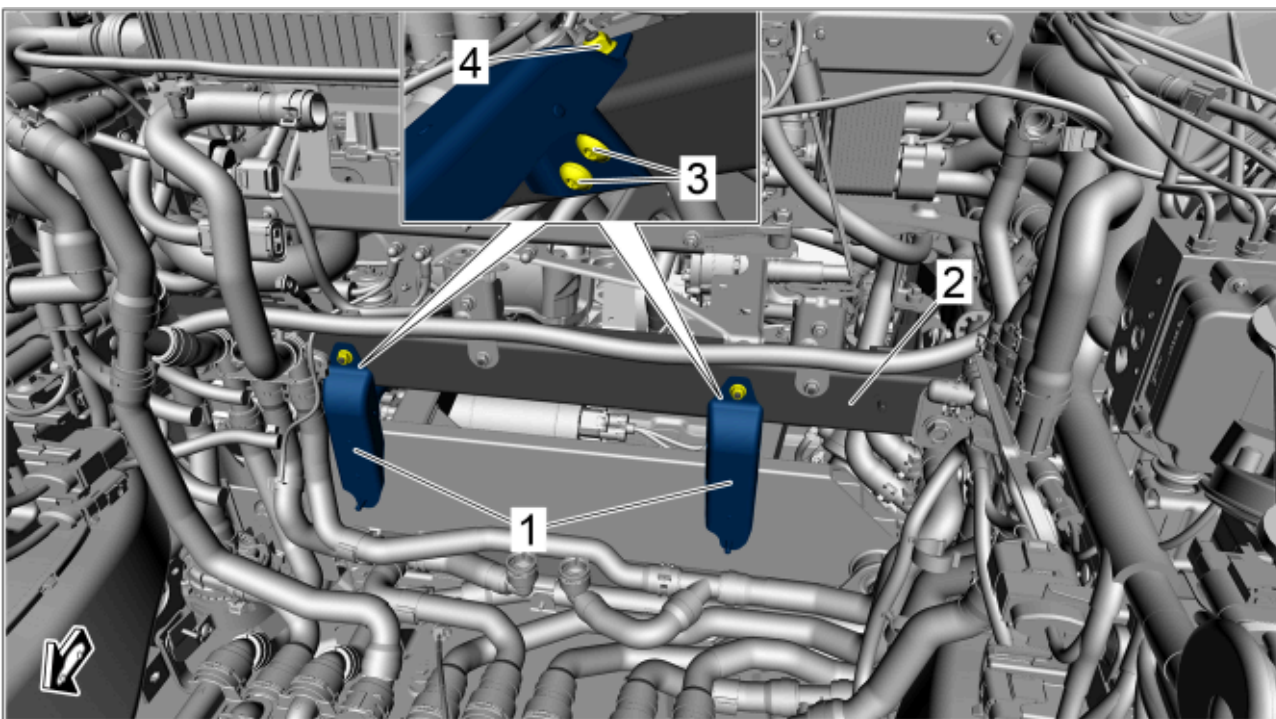
- 5 Set the high-voltage charger down by moving it forward, release the connections for the coolant lines by pressing them ⇒ *Coolant lines -Arrows-* and disconnect them from the high-voltage charger.
 - 5.1 Close off the high-voltage charger immediately using suitable stoppers and set it down with the adapters facing upwards.
- 6 Guide the previous high-voltage charger out of the vehicle.

*Coolant lines***Replacing 22 kW charging socket with 11 kW charging socket**

- Work Procedure: 1 Replace previous 22-kW charging sockets with 11-kW charging sockets.
⇒ *Workshop Manual '279619 Removing and installing left charging socket'*
and/or
⇒ *Workshop Manual '279619 Removing and installing right charging socket'*
- 2 This further depends on the respective vehicle equipment:
 - Vehicles with rear drive (**M-no. 1X2**) ⇒ *Technical Information '279619 Install 11 kW high-voltage charger (2WD - M-no. 1X2)'***or**
 - Vehicles with all-wheel drive (**M-no. 1x1**) ⇒ *Technical Information **Page 11** '279619 Install 11 kW high-voltage charger (AWD - M-no. 1X1)'*

Install 11 kW high-voltage charger (2WD - M-no. 1X2)

Work Procedure: 1 Convert bracket holder at the bottom of the vehicle from the previous left position ⇒ *Convert bracket holder at bottom (2WD) -1-* to the new, right position ⇒ *Convert bracket holder at bottom (2WD) -2-* ⇒ *Convert bracket holder at bottom (2WD) -Arrow-*.



Convert bracket holder at bottom (2WD)

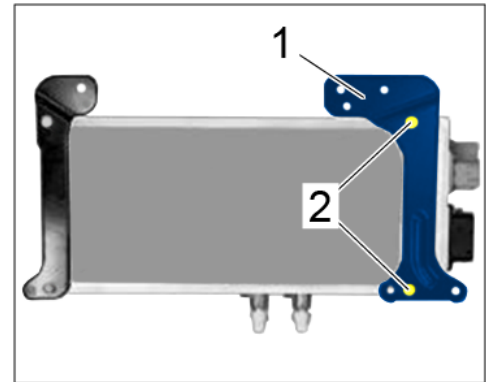
- 1 – Previous holder position for 22-kW high-voltage charger
- 2 – New holder position for 11-kW high-voltage charger
- 3 – Fastening screws for lower bracket holder (shown at new holder position)
- 4 – Fastening nut for lower bracket holder (shown at new holder position)

- 1.1 Remove lower bracket holder at position ⇒ *Convert bracket holder at bottom (2WD) -1-*, by unscrewing screws ⇒ *Convert bracket holder at bottom (2WD) -3-* and nuts ⇒ *Convert bracket holder at bottom (2WD) -4-*.
- 1.2 Move lower bracket holder from the left position ⇒ *Convert bracket holder at bottom (2WD) -1-* to the right position ⇒ *Convert bracket holder at bottom (2WD) -2-*.
- 1.3 Install and tighten **new** screws ⇒ *Convert bracket holder at bottom (2WD) -3-* and **new** nuts ⇒ *Convert bracket holder at bottom (2WD) -4-* on newly positioned lower bracket holder ⇒ *Convert bracket holder at bottom (2WD) -2-*.

Tightening torque 8 Nm (5.9 ftlb.)

- 2 Convert **previous** plug-side holder $\Rightarrow$ Convert *high-voltage charger holder -1-* from **previous** 22-kW high-voltage charger to **new** 11-kW high-voltage charger.

- 2.1 Thread-off screws $\Rightarrow$ Convert *high-voltage charger holder -2-*.

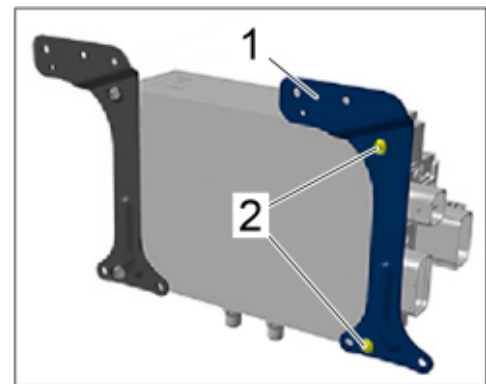


Convert high-voltage charger holder

- 2.2 Remove holder $\Rightarrow$ Convert *high-voltage charger holder -1-* and position on **new** 11-kW high-voltage charger $\Rightarrow$ Install *high-voltage charger holder*.

- 2.3 Screw-in and tighten **new** screws $\Rightarrow$ Install *high-voltage charger holder -2-*.

Tightening torque 8 Nm (5.9 ftlb.)



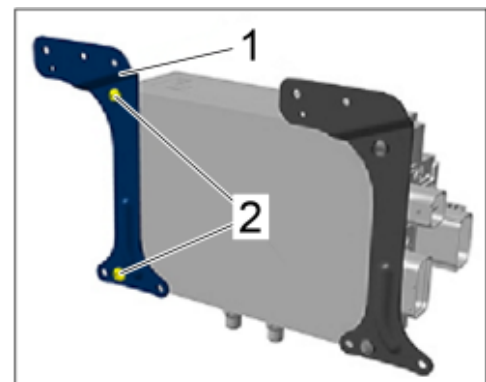
Install high-voltage charger holder

- 3 Fasten **new** high-voltage charger holder $\Rightarrow$ New *high-voltage charger holder -1-* to the **new** 11-kW high-voltage charger.

- 3.1 Position **new** high-voltage charger holder $\Rightarrow$ New *high-voltage charger holder -1-* on **new** 11-kW high-voltage charger $\Rightarrow$ New *high-voltage charger holder -1-*.

- 3.2 Screw-in and tighten **new** screws $\Rightarrow$ New *high-voltage charger holder -2-*.

Tightening torque 8 Nm (5.9 ftlb.)



New high-voltage charger holder

- 4 Install high-voltage charger.

For work procedure, see: $\Rightarrow$ Workshop Manual '279719A6 Removing and installing an 11 kW high-voltage charger'



Information

On individual vehicles, it is possible that the high-voltage line will be live after plugging in and locking it, and that it will rest or rub against other lines. In this case, the high-voltage line must be laid slightly differently and/or additionally protected at potential chafing points.

If reworking is necessary, document it with relevant images, attach it to the PCSS process and for the additional work, use labor position 27934990 - Rework high-voltage line.

- 5 Then continue with:
⇒ *Technical Information '279719A6 Follow-up actions'*



Live high-voltage line

Install 11 kW high-voltage charger (AWD - M-no. 1X1)

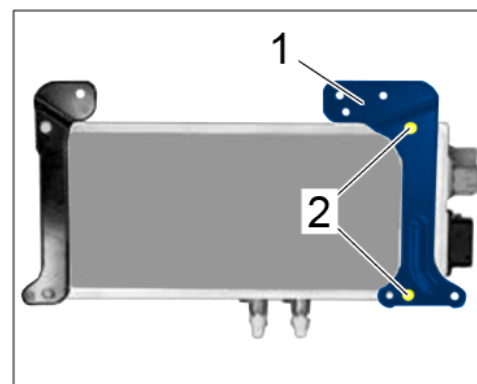


Information

All-wheel drive vehicles (M-No. 1x1) on which a 22 kW high-voltage charger has been retrofitted in the past have an additional console holder installed at the bottom.

The studs for mounting the 11 kW high-voltage charger were removed as part of the conversion for this bracket. This holder remains in the vehicle.

- Work Procedure: 1 Convert **previous** plug-side holder ⇒ *Convert high-voltage charger holder -1-* from **previous** 22 kW high-voltage charger to **new** 11 kW high-voltage charger.
- 1.1 Thread-off screws ⇒ *Convert high-voltage charger holder -2-*.

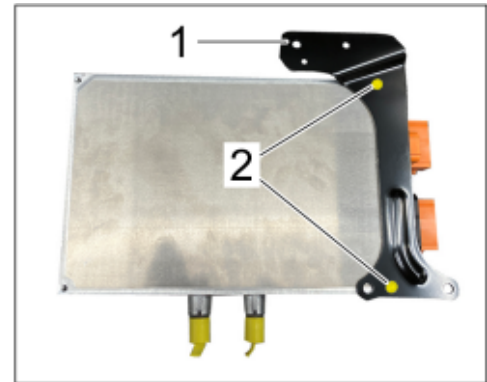


Convert high-voltage charger holder

- 1.2 Remove holder $\Rightarrow$ Convert high-voltage charger holder -1- and position on **new** 11-kW high-voltage charger. $\Rightarrow$ Install high-voltage charger holder

- 1.3 Screw-in and tighten **new** screws $\Rightarrow$ Install high-voltage charger holder -2-.

Tightening torque 8 Nm (5.9 ftlb.)



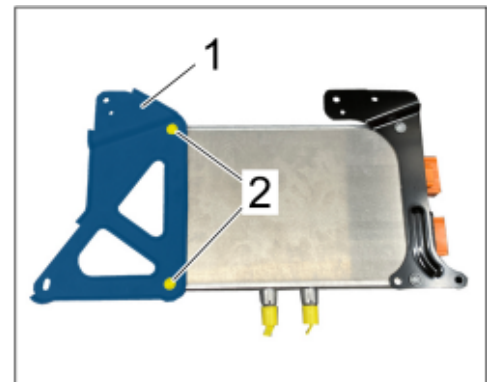
Install high-voltage charger holder

- 2 Fasten **new** high-voltage charger holder $\Rightarrow$ New high-voltage charger holder -1- to the **new** 11 kW high-voltage charger.

- 2.1 Position **new** high-voltage charger holder $\Rightarrow$ New high-voltage charger holder -1- on **new** 11-kW high-voltage charger.

- 2.2 Screw-in and tighten **new** screws $\Rightarrow$ New high-voltage charger holder -2-.

Tightening torque 8 Nm (5.9 ftlb.)



New high-voltage charger holder

- 3 Install high-voltage charger.
For work procedure, see: $\Rightarrow$ Workshop Manual
'279719A6 Removing and installing an 11 KW high-voltage charger'



Information

On individual vehicles, it is possible that the high-voltage line will be live after plugging in and locking it, and that it will rest or rub against other lines. In this case, the high-voltage line must be laid slightly differently and/or additionally protected at potential chafing points.

If reworking is necessary, document it with relevant images, attach it to the PCSS process and for the additional work, use labor position 27934990 - Rework high-voltage line.



Live high-voltage line

Follow-up actions**NOTICE****Voltage drop**

- **Destruction of control unit**
 - **Damage to control unit**
 - **Error entries in control unit**
 - **Control unit coding aborted**
 - **Malfunctions in the control unit, even during programming**
- ⇒ **Switch off the ignition and remove ignition key before disconnecting the control unit.**
- ⇒ **Make sure that the power supply is not interrupted during programming.**
- ⇒ **Connect a battery charger with a current rating of at least 90 A to the vehicle battery.**

NOTICE**Note on installation check**

- **The installation check can be ignored at this moment in time. The 11 kW OBC charger is only used after PR no. change OK.**

Work Procedure: 1 Code/program 11 kW high-voltage charger (OBC).

NOTICE

Control unit programming will be aborted if the Wi-Fi connection is unstable.

- **An unstable Wi-Fi connection can interrupt communication between the PIWIS Tester and the vehicle communication module (VCI). As a result, control unit programming may be aborted.**
- ⇒ **During control unit programming, always connect the PIWIS Tester to the vehicle communication module (VCI) via the USB cable.**

- 1.1 Connect **P90999 - PIWIS Tester 4** to the vehicle and switch on.
- 1.2 Switch on ignition **AND** hazard warning lights on the vehicle.

**Information**

The **PIWIS Tester** instructions take precedence since the description may be different with later Tester releases.

The procedure described here has been structured in general terms. Different text or additional information may appear on the **PIWIS Tester**.

- 1.3 Select the "Diagnostics" menu item on the PIWIS Tester.
- 1.4 If **P90999 - PIWIS Tester 4** is connected correctly, a connection to the vehicle will be established: The "Taycan" model line is recognized and an overview of the control units is created.
- 1.5 Press **[F12]** to go to the control unit search screen.
- 1.6 **[F8]** for additional menu. Question: "Should an VAL be created?" If "Yes", press **[F12]** to confirm.
- 1.7 After the VAL has been created, a message may appear that there are still open service actions for the connected vehicle. You can do this with **[F12]**. This is followed by the back documentation of the vehicle and the vehicle network test.

**Information**

The function is **ONLY** available when the Tester is online.

- 2 Enter the new vehicle equipment in the vehicle data using "PIWIS Online"
- 2.1 Select the "Maintain vehicle data with PIWIS-ONLINE" function in the "Additional menu" menu item.

A message appears informing you that the "Actual" (vehicle) data and "Target" (PIWIS Online) data will be compared.

Press **[F12]** to continue.
- 2.2 Confirm the message "The vehicle data was compared with PIWIS Online. Significant differences were found" with **[F12]**.
- 2.3 Press **[F12]** ("Next") to skip the displays containing information about vehicle description, colors/materials and X numbers.
- 2.4 Add the coding value "**S9K**" to the vehicle data on the PR numbers page. 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.
- 2.5 Look for the "**BATTERY CHARGER**" option in the "Family" column.

Select the option "**KB3**" in the "Value" column in the drop-down menu. Press **[F12]** to continue.
- 2.6 A table containing the coding value and the columns "new value" and "old value" is displayed in the overview. Press **[F8]** to continue.
- 2.7 Data is then written/saved. The following messages appear one after the other:
 - Transfer vehicle data to PIWIS Online.
 - Write and transfer vehicle data to the vehicle.
 - Vehicle order was written successfully.

- A check was performed in order to check whether control units have to be coded as a result of the changes that were made.
- 3 Code the new vehicle equipment.
 - 3.1 Confirm the table containing a list of control units that must be coded by pressing **F12** .
 - 3.2 Individual data records will be loaded, depending on the number of control units to be coded.
Wait for "Creating backup documentation. Please wait..." and "Coding was completed successfully." information. Press **F12** to continue.
Repeat the process for other control units if necessary.
 - 3.3 Wait for the "Adaptation of the control units is complete." and check the coding status of the control units in the displayed table.
Continue by pressing **F12** to return to the control unit overview.
- 4 Re-program high-voltage charger.
⇒ *Workshop Manual '279755 Replacing high-voltage charger'*
- 5 Deactivate the high-voltage system. ⇒ *Workshop Manual '277583A2 Deactivating and activating high-voltage system'*
- 6 Carry out the insulation measurement skipped at the charging socket during commissioning of the high-voltage system.
- 7 Activating high-voltage system ⇒ *Workshop Manual '277583A2 Deactivating and activating high-voltage system'*
- 8 Complete the documentation. ⇒ *Workshop Manual '2X00INI9 Test log: Commissioning of high-voltage system'*
- 9 Read out the fault memory and erase it if necessary.
- 10 Check the customer-specific setting of the Connect app "Plug & Charge" as read out under Preparatory work, Step 1. Restore if necessary.

NOTICE

Note on Plug & Charge

- If the Plug & Charge display for Step 1 does not appear in the PCM, please reset the PCM to the factory settings.

- 11 Resetting the PCM to factory settings.
 - 11.1 Select the "Central computer" control unit in the control unit selection screen (Overview menu) and call up the "Maintenance/repairs" area.
 - 11.2 Select the "Reset factory settings" function and follow the instructions on the screen.

- 12 Read out the fault memory of all systems, work through any existing faults, and erase the fault memory.
 ⇒ *Workshop Manual '2X00INI9 On-board diagnosis'*

Labor position and PCSS encryption

Labor position:

APOS	Labor operation	I No.
27975543	Replace high-voltage charger (OBC) (2WD)	
27975545	Replace high-voltage charger (OBC) (AWD)	
27975541	Replace high-voltage charger (OBC) and charging socket on the right (2WD)	
27975542	Replace high-voltage charger (OBC) and charging socket on the right (AWD)	
27975544	Replace high-voltage charger (OBC) and charging socket on the right and left (2WD)	
27975546	Replace high-voltage charger (OBC) and charging socket on the right and left (AWD)	
27934990	Rework high-voltage line	

PCSS encryption:

Location (FES5)	27970	High-voltage charger
Damage type (SA4)	1611	does not function

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