WLK2 Workshop Campaign - Replacing Wire Harnesses for Electric Charge Port Doors

Important: **CRITICAL WARNING** - This campaign includes steps where control unit(s) in the vehicle will be programmed with the PIWIS Tester. The vehicle voltage must be maintained between 13.5 volts and 14.5 volts during this programming. Failure to maintain this voltage could result in damaged control unit(s). Damage caused by inadequate voltage during programming is not a warrantable defect. The technician must verify the actual vehicle voltage in the PIWIS Tester before starting the campaign and also document the actual voltage on the repair order.

Model Year: **2020**

Model Line: **Taycan (Y1A)**

Equipment: **Electric charge port door (I-no. 2W9)**

Concerns: **Electric charge port door**

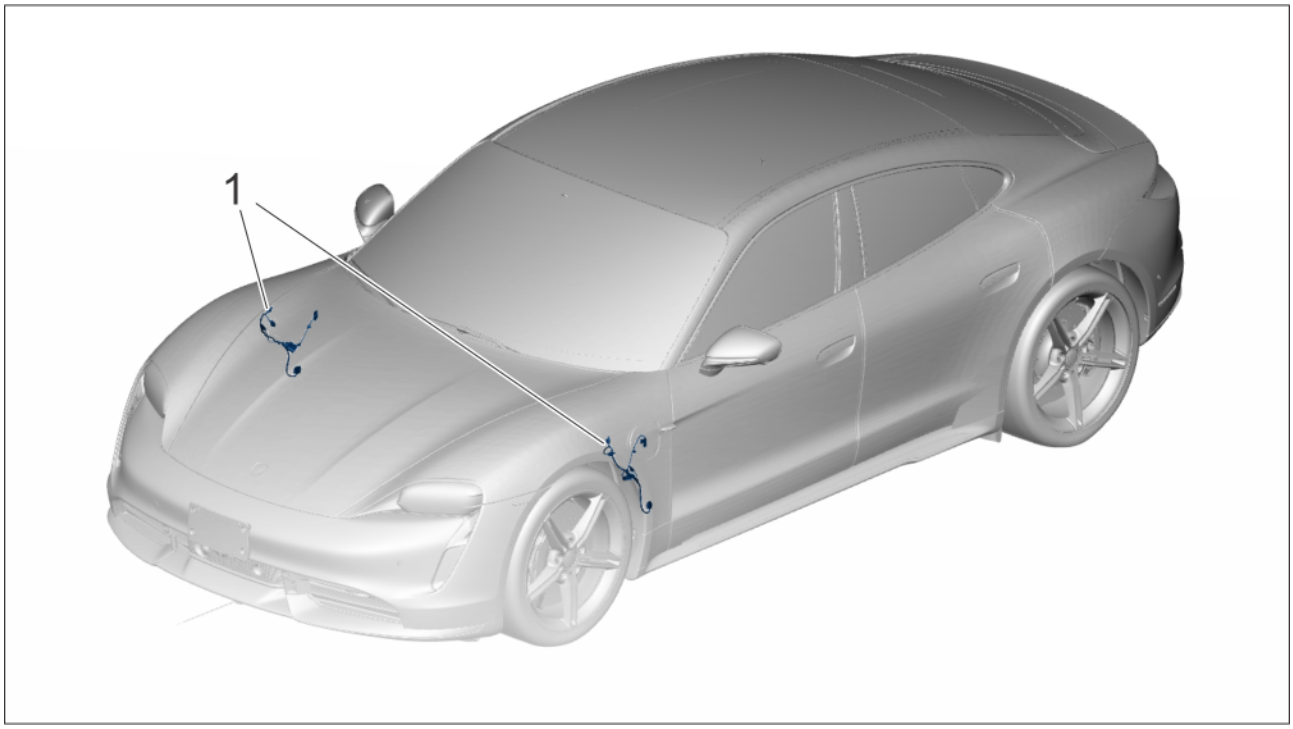
Information: **There is a possibility that the end position of the charge port door is not determined correctly on the affected vehicles due to an incorrect sensor signal.**

The charge port door on the opposite side of the vehicle is then locked automatically and can no longer be operated. The defective charge port door can still be actuated without restriction from the center console or by hand at the charge port door.

Action required: Replace wire harnesses for electric charge port doors on driver and passenger side.

Affected Vehicles: Only vehicles assigned to the campaign (see also PCSS Vehicle Information).

Installation Position:



Installation position of wire harness for charge port doors

1 – Wire harness for charge port door on driver and passenger side (**replace**)

Parts required

Parts Info:

Part No.	Designation – Use	Qty.
9J1898352Q	⇒ Wire harness for charge port door – Charge port door A (driver side, LHD vehicle)	1 ea.
9J1898352R	⇒ Wire harness for charge port door – Charge port door B (passenger side, LHD vehicle)	1 ea.
PAF008485	⇒ Hexagon flange bolt M6 x 12 – Door hinge	4 ea.
PAF912032	⇒ Countersunk screw with internal serration, M8 x 22 – Door arrester	2 ea.

Required tools

Tools:

- **9900 - PIWIS Tester 3**
- 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**
- Torque wrench, 6–50 Nm (4.5–37 ftlb.), e.g. **VAG 1331A Torque wrench, 6-50 Nm (4.5-37 ftlb.)**
- Torque wrench, 20–100 Nm (15–74 ftlb.), e.g. **VAS 5820 - Torque wrench, 20-100 Nm (15-74 ftlb.)**
- Plastic assembly wedge (commercially available)

Preparatory work

WARNING

Incorrect handling of high-voltage components

- **Electric shock**
- **Risk of short circuit**
- **Fire**
- **Risk of 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, e.g. VAS 6883 Insulated tool set, when working on these components.**

⇒ **Observe general warning notes for working on the high-voltage system.** ⇒***Workshop Manual '2X00IN General warning notes for working on the high-voltage system'***

Information

Handling high-voltage lines:

- Do not support yourself or your tools on high-voltage lines and their components.
- Work involving metal-removing, deforming and sharp-edged tools close to high-voltage components and lines is prohibited.
- Work involving heat sources such as welding, soldering, hot air and thermal bonding close to high-voltage components and lines is prohibited.
- High-voltage lines must not be extensively bent or kinked.

- A visual inspection of the high-voltage connectors must be performed before installing the high-voltage lines. If there are signs of damage to the connectors, contacts and seals, the high-voltage line must be replaced.
- If you have questions or if you are unclear about anything, consult the relevant high voltage technician.

Work Procedure: 1 Raise the vehicle on the lifting platform ⇒ *Workshop Manual '4X00IN Lifting the vehicle'*.

2 See General warning notes ⇒ *Workshop Manual '2X00IN General warning notes for working on the high-voltage system'*.

3 Isolate the high-voltage system from the power supply ⇒ *Workshop Manual '2X00IN Isolating high-voltage system from power supply/Starting high-voltage system'*.

Information

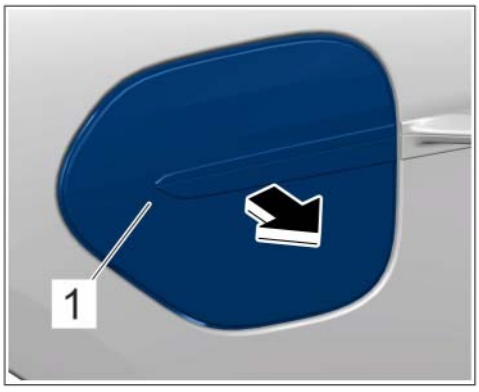
The procedure described here shows the work required for replacing the wire harness on **charge port door A** on the driver's side. Depending on the result of the check, the work listed here must be carried out **either on the driver side or passenger side**.

4 Remove wheel on driver side on the front axle ⇒ *Workshop Manual '440519 Removing and installing wheel'*.

5 Remove wheel housing liner on driver side ⇒ *Workshop Manual '505619 Removing and installing front wheel housing liner'*.

6 Remove door on driver side ⇒ *Workshop Manual '575119 Removing and installing door'*.

7 Unclip the cover ⇒ *Electric power supply flap (lid)* **-1-** of the electric charge port door (charging socket A) on the driver side using a suitable tool ⇒ *Electric power supply flap (lid)* **-Arrow-**.



Electric power supply flap (lid)

Replacing wire harness for electric charge port door

Information

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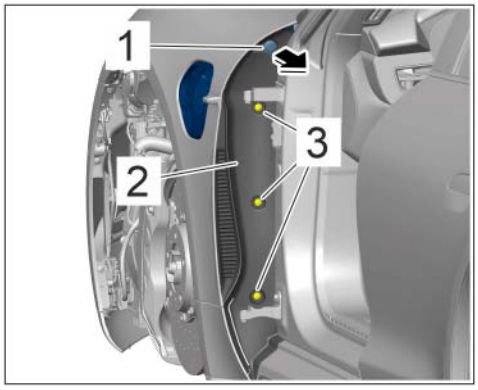
- Work involving heat sources such as welding, soldering, hot air and thermal bonding close to high-voltage components and lines is prohibited.
- High-voltage lines must not be extensively bent or kinked.
- A visual inspection of the high-voltage connectors must be performed before installing the high-voltage lines. If there are signs of damage to the connectors, contacts and seals, the high-voltage line must be replaced.
- If you have questions or if you are unclear about anything, consult the relevant high voltage technician.

Work Procedure: 1 Remove wing on the driver's side.

To do this, unclip pull knob ⇒*Wing trim panel* **-1-** and remove all fastening screws ⇒*Wing trim panel* **-3-**.

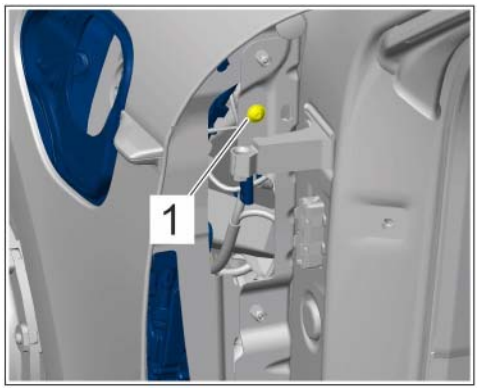
Remove cover ⇒*Wing trim panel* **-2-** and feed out pull knob ⇒*Wing trim panel* **-1-**.

2 Loosen charge port door module.



Wing trim panel

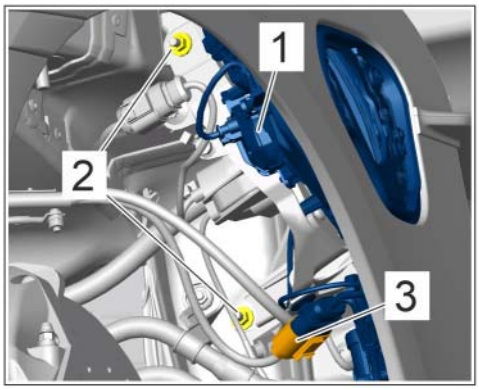
2.1 Unscrew side fastening screw ⇒*Unscrewing fastening screw securing charging socket to the wing* **-1-**.



Unscrewing fastening screw securing charging socket to the wing

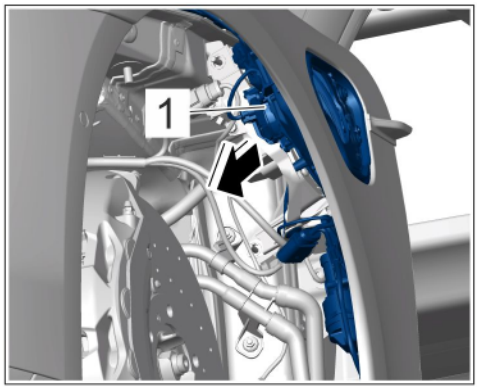
2.2 Release and disconnect electric plug connection ⇒*Loosening charge port doorFastening charge port door module* **-3-**.

2.3 Unscrewing fastening nuts ⇒*Loosening charge port doorFastening charge port door module* **-2-**



Loosening charge port door

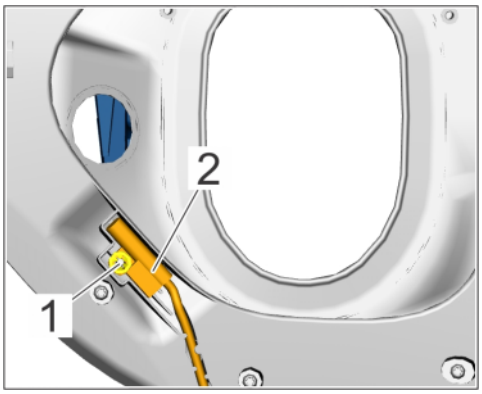
2.4 Swivel charge port door module ⇒*Swivelling out charge port door module* **-1-** out towards the wheel housing. ⇒*Swivelling out charge port door module* **-Arrow-**



Swivelling out charge port door module

3 Replace wire harness for electric charge port door.

3.1 On the front of the energy supply module, remove the lock ring and ⇒*Removing reed sensor for charge port door* **-1-** remove the charge port door reed sensor ⇒*Removing reed sensor for charge port door* **-2-**.



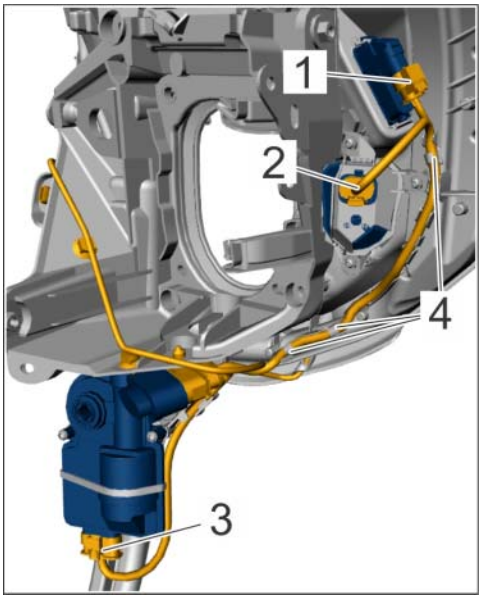
Removing reed sensor for charge port door

3.2 Release and disconnect electric plug connection for charge port door light ⇒ *Removing wire harness for charge port door* **-1-**.

3.3 Release and disconnect electric plug connection on the charge port door light button ⇒*Removing wire harness for charge port door* **-2-**.

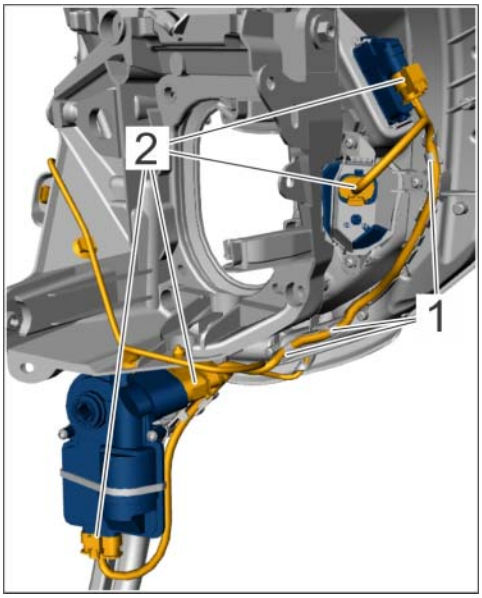
3.4 Release and disconnect electric plug connection on the charge port door drive ⇒ *Removing wire harness for charge port door* **-3-**.

3.5 Feed out and remove wire harness ⇒ *Removing wire harness for charge port door* **-4-**.



Removing wire harness for charge port door

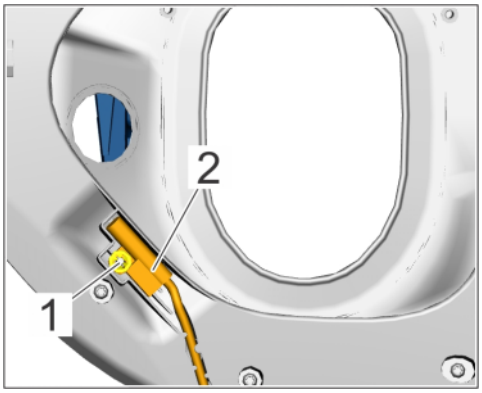
3.6 Positioning new wire harness⇒*Installing wire harness for charge port door* **-1-** and pushing on and locking electric plug connections ⇒ *Installing wire harness for charge port door* **-2-**



Installing wire harness for charge port door

Part No.	Designation	Qty.
9J1898352Q	Wire harness for charge port door A (AC charging socket) – Driver side (LHD vehicle)	1 ea.
or		
9J1898352R	Wiring harness for charge port door B (CCS charging socket) on passenger side – Passenger side (LHD vehicle)	1 ea.

3.7 On the front of the charge port door module, insert the charge port door reed sensor ⇒ *Installing reed sensor for charge port door* **-2-** and fasten with the lock ring ⇒*Installing reed sensor for charge port door* **-1-**.



Installing reed sensor for charge port door

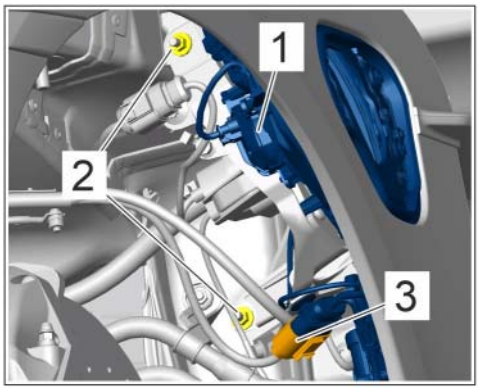
4 Perform electrical installation of power supply module.

4.1 Move charge port door module ⇒**-1-** into installation position, then install and tighten fastening nuts ⇒*Loosening charge port doorFastening charge port door module* **-2-**.

Tightening torque 8 Nm (6 ftlb.)

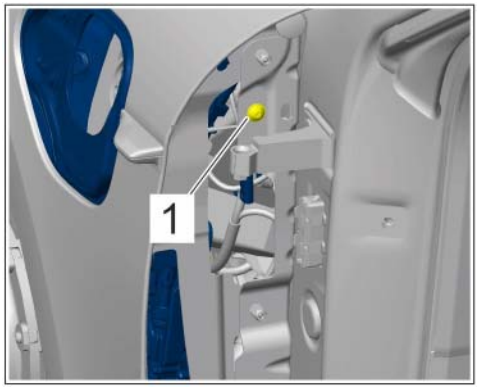
4.2 Connect and lock electric plug connection ⇒ *Loosening charge port doorFastening charge port door module* **-3-**.

4.3 Screw in and tighten fastening screws at the sides⇒ *Tightening fastening screw securing charging socket to the wing* **-1-**.



Fastening charge port door module

Tightening torque 4.5 Nm (3.25 ftlb.)



Tightening fastening screw securing charging socket to the wing

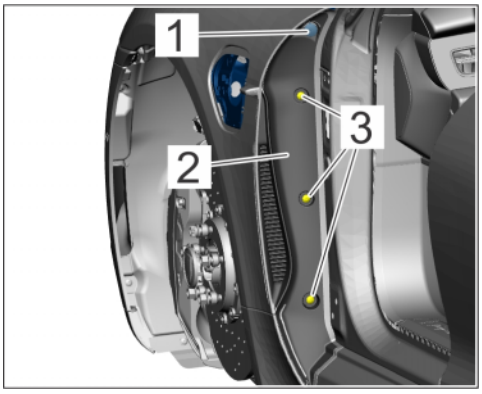
5 Install wing trim panel.

5.1 To do this, place the wing cover in installation position ⇒ *Installing wing trim panel* **-2-**.

5.2 Insert and clip in pull knob ⇒ *Installing wing trim panel* **-1-**.

5.3 Screw in and tighten fastening screws ⇒ *Installing wing trim panel* **-3-**.

Tightening torque 2.8 Nm (2.1 ftlb.)



Installing wing trim panel

Concluding work

Work Procedure: 1 Clip in cover of electric charge port door using a suitable tool.

Information

New fastening screws must be used for installation of the driver's and passenger's doors.

2 Install doors ⇒ *Workshop Manual '575119 Removing and installing door'*.

Part No.	Designation	Qty.
PAF008485	Hexagon flange bolt, M6 x 12 – Door to door hinge	2 ea.
PAF912032	Countersunk screw with internal serration, M8 x 22 – Door arrester to body	1 ea.

3 Install wheel housing liner ⇒ *Workshop Manual '505619 Removing and installing front wheel housing liner'*.

4 Install wheel on the front axle ⇒ *Workshop Manual '440519 Removing and installing wheel'*.

5 Lower the vehicle and remove it from the lifting platform ⇒ *Workshop Manual '4X00IN Lifting the vehicle'*.

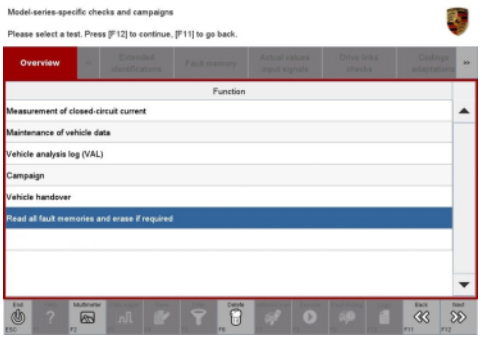
6 Start the high-voltage system ⇒ *Workshop Manual '2X00IN Isolating high-voltage system from power supply/Starting high-voltage system'*.

7 Read out and erase the fault memories of all control units.

7.1 Press •F7 “ in the control unit selection screen ('Overview' menu) to call up the Additional menu.

7.2 Select the function “Read all fault memories and erase if required” and press •F12 “ ('Next') to confirm your selection ⇒ *Erasing fault memories*.

The fault memories of the control units are read out.



Erasing fault memories

7.3 Once you have read out the fault memories, check the fault memory entries.

Information

If control units are found to have faults that are **not** caused by replacement of the wire harness, these must first be **found** and **corrected**. This work **cannot** be invoiced under the workshop campaign number.

7.4 Press •F8 “ to delete fault memory entries.

7.5 Press • F12 “ ('Yes') in response to the question as to whether you really want to delete all fault memory entries.

The faults stored in the fault memories of the various control units are deleted.

Information

If fault memory entries for individual control units cannot be deleted, proceed as follows:

- End operational readiness (switch off ignition).
- Disconnect the PIWIS Tester diagnostic connector from the diagnostic socket.
- Lock the vehicle using the driver's key and remove the **driver's key from the proximity of the vehicle** (approx. 10 meter/ 33 ft).
- **Wait approx. 15 minutes** before unlocking the vehicle again.
- Restore operational readiness (switch on ignition).
- Plug the PIWIS Tester diagnostic connector into the diagnostic socket again and restore communication with the vehicle.
- Read out the fault memory again and delete any fault memory entries that are stored.

7.6 Once you have erased the fault memories, select the **'Overview'** menu to return to the control unit selection screen ⇒ *Control unit selection*.

Control unit selection

8 End operational readiness (switch off ignition).

9 Disconnect the PIWIS Tester from the vehicle.

Information

Connect the PIWIS Tester to a network as soon as possible and log into the PPN in order to transfer the backup documentation created during this campaign to the PAG systems.

10 Switch off and disconnect the battery charger.

11 Enter the campaign in the Warranty and Maintenance booklet.

Warranty processing

Information

The specified working times were determined specifically for carrying out this campaign and may differ from the working times published in the Labor Operation List in PCSS.

Scope 1-3: No longer relevant because the check is no longer carried out.

Scope 4: Replacing wire harness at the charge port doors **A and B**

Working Time:

Checking electric charge port door and replacing wire harness at charge port door A and B — Labor time: **305 TU**

Includes:
Connecting and disconnecting battery charger
Connecting and disconnecting PIWIS Tester
Reading out and erasing fault memories
Lifting and lowering vehicle
Removing and installing wheel
Removing and installing wheel housing liner
Removing and installing door
Removing and installing wing trim panel
Loosening and tightening charge port door module

Parts required:

9J1898352Q	Wire harness for charge port door A (driver side, LHD vehicle)	1 ea.
9J1898352R	Wire harness for charge port door B (passenger side, LHD vehicle)	1 ea.
PAF008485	Hexagon flange bolt, M6 x 12	4 ea.
PAF912032	Countersunk screw with internal serration, M8 x 22	2 ea.

⇒ **Damage Code WLK2 066 000 2**