PORSCHE®

Technical Information

Sale of Chargers (Porsche Mobile Charger Connect) - Checking Software Version and Updating it if Necessary Before Delivery to Customers (38/21)

Concerns: **Charger (Porsche Mobile Charger Connect)**

Model Year: **As of 2020**

Information: **Software optimizations are available for Porsche Mobile Charger Connect (software version VR12.1.1).**

The software update contains general fault corrections and function enhancements, such as encrypted communication between the charging equipment and vehicle for secure information exchange, a new display format during charging including the display of vehicle information, battery status and remaining range as well as the "Plug & Charge Private" function with automatic detection of vehicles already registered in Mobile Charger Connect when you plug in the charging cable without also having to enter your PIN.

ⓘ Information

The software update must always be performed if the vehicle for which the charger is purchased is affected by workshop campaign **WMA5 (Taycan MY 2020)** or **WMA6 (Taycan MY 2021)** or already has **software version VR12.1.1** installed (vehicles produced from week 04/2021).
If the charger software is not updated, there is no guarantee that the vehicle will charge correctly.

Action required: Update the Porsche Mobile Charger Connect software using the PIWIS Tester with software version **39.900.095** (or higher) installed.

Required tools

No tools are required for **checking** the software version of the charger (Porsche Mobile Charger Connect).

Tools:
- **9900 - PIWIS Tester 3** with software version **39.900.095** (or higher) installed.
- **VAS 611 009 - Diagnostic adapter for high-voltage charging system**

Checking software version and updating software if necessary

⚠ WARNING

Working on electric components

- **Risk of burns**

- **Risk of short circuit or fire.**

⇒ **Before replacing the power cable or vehicle cable, always disconnect the power cable from the electrical socket.**

⇒ **Only replace cables in a dry environment.**

⇒ **Porsche universal charger (AC) may only be used as a unit comprising power cable, control unit and vehicle cable.**

⚠ **WARNING**

Unsecured load

- **An unsecured, incorrectly secured or incorrectly positioned charger can slip out of place and endanger occupants when braking, accelerating, changing direction or in the event of an accident.**

⇒ **Never transport the charger unsecured.**

⇒ **Stow the charger in the charging bag in the luggage compartment.**

⇒ **Always transport the charging bag in the luggage compartment, never in the passenger compartment (e.g. on or in front of the seats).**

Action required: 1   Check software versions of the charger (Porsche Mobile Charger Connect) and compare them with the table below.
The software versions are shown on the sticker on the back of the charger (Porsche Mobile Charger Connect) ⇒ *Checking software versions*.
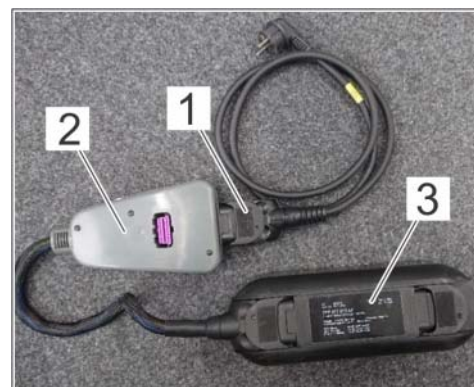

Checking software versions

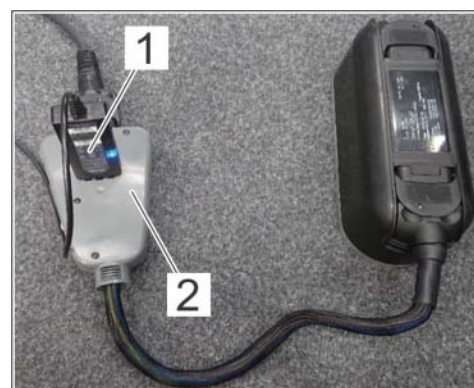| Software version	Next steps
Communication board software (SW_C) and power board software (SW_P) **lower than** • **SW_C: 2925** • **SW_P: 4100**	Software must be updated. To do this, continue with ⇒ **Step 2**.
Communication board software (SW_C) and power board software (SW_P) **is** • **SW_C: 2925** • **SW_P: 4100**	Software does not have to be updated. The charger software is already up-to-date. **– End of action required –** The charger can be handed over to the customer.

2   Re-program the power board.

2.1   Secure the power cable ⇒ *Connecting diagnostic adapter* **-1-** to the **diagnostic adapter for high-voltage charging system** ⇒ *Connecting diagnostic adapter* **-2-** and connect this to the charger (Porsche Mobile Charger Connect) ⇒ *Connecting diagnostic adapter* **-3-**.

2.2   Connect the power cable to the power supply.

Connecting diagnostic adapter

2.3   Wait at least 3 minutes before connecting **9900 - PIWIS Tester 3** to the vehicle communication module (VCI) via the **USB cable** and connect the communication module ⇒ *Connecting communication module (VCI)* **-1-** to the **diagnostic adapter for high-voltage charging system** (⇒ *Connecting communication module (VCI)* **-2-**).

2.4   On the PIWIS Tester start screen, call up the **'Diagnostics'** application.

The vehicle type is then read out, the diagnostic application is started and the control unit selection screen is populated.

Connecting communication module (VCI)

2.5   Select the **'External components'** model line in the **'manual model line selection'** screen and confirm with **'Next'**.

2.6   **Re-program the power board.**

The basic procedure for control unit programming is described in the Workshop Manual ⇒ *Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester'*.

For specific information on programming the power board as part of this programming process, see the table below:

Required PIWIS Tester software version:	**39.900.095** (or higher)
Type of control unit programming:	Control unit programming using the **'Campaign' function in the Additional menu** on the PIWIS Tester by entering a programming code.

Programming code:	**M3K3U**
Programming sequence:	Read and follow the **information and instructions on the PIWIS Tester** during the guided programming sequence. **Do not interrupt programming and coding.** A backup documentation process for the re-programmed software versions starts as soon as programming and coding is complete.
Programming time (approx.):	**5 minutes**
Software version programmed during this campaign: The software version information in the programmed data record is based on the specified PIWIS Tester software version. Please note that this may be different in a higher version.	**4100** When programming is complete, the software version can be read out of the charger (Porsche Mobile Charger Connect) in the 'Extended identifications' menu using the PIWIS Tester.
Procedure in the event of abnormal termination of control unit programming:	Repeat programming by entering the programming code again.
Procedure in the event of error messages appearing during the programming sequence:	⇒ *Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester - section on "Fault finding"*.

2.7   Remove the PIWIS Tester from the charger (Porsche Mobile Charger).

2.8   Disconnect the power cable from the power supply and remove it from the diagnostic adapter.

2.9   Remove the PIWIS Tester from the charger (Porsche Mobile Charger).

Information

A connection to a WiFi network is required for the communication board update.

If it is not possible to establish an Internet connection to the charger (Porsche Mobile Charger Connect), the update can also be downloaded manually via the web address under **E-Performance** at https://www.porsche.com and installed using the web application. This procedure is described further in the instructions for the web application.

3   Re-program the communication board.

    3.1   Secure the power cable to the charger (Porsche Mobile Charger) and connect it to the power supply.

    3.2   The charger starts after a waiting time of at least 30 seconds.

    3.3   Select the 'Settings' icon in the menu bar to open the main menu ⟹ *Opening Settings* **-1-**.

Opening Settings

    3.4   Select the 'Networks' function in the main menu ⟹ *Selecting Networks function* **-1-**.

    3.5   Activate WiFi ⟹ *Connecting WiFi network* **-1-** and then select "WiFi networks" in order to select the relevant network from the list of detected WiFi networks ⟹ *Connecting WiFi network* **-2-**.

    3.6   Enter the WiFi password and confirm it.

Selecting Networks function

3.7 Return to the selection screen using the arrow key and select the 'Software updates' function.

Connecting WiFi network

3.8 Deactivate automatic software updates ⇒ *Installing software update* **-1-** and select the 'Download' function ⇒ *Installing software update* **-2-**.
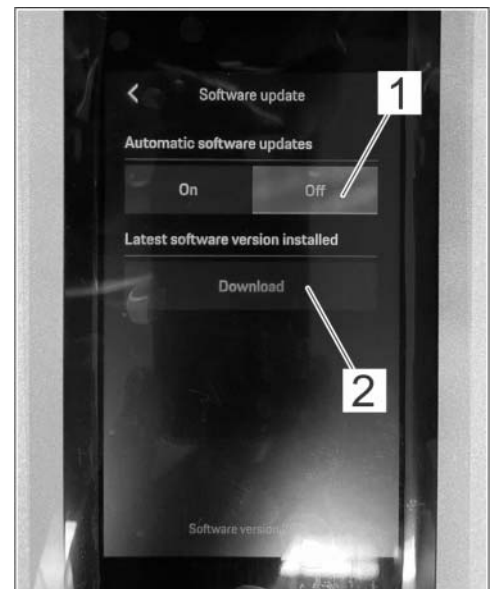
ℹ️ **Information**

Once the software update has been performed, reset the customer's preferred setting (Automatic update On/Off).

3.9 Once the latest software has been downloaded successfully, select the **'Install'** function in order to confirm the message **Software update available**.

The update can take up to 5 minutes.

3.10 Once the update is complete, confirmation of the software update that was performed is displayed. Confirm with 'OK'.

Software version programmed during this sequence

• Communication board: **2925**

Following the update, the software version is displayed at the bottom of the screen in the 'Software updates' menu.

Installing software update

3.11   Switch off the charger (Porsche Mobile Charger Connect)

4   Give the charger (Porsche Mobile Charger Connect) to the customer.

Invoicing

For documentation and warranty invoicing, enter the labor operations and PQIS coding specified below in the warranty claim, depending on the repairs carried out:

APOS	Labor operation	I No.
09400100	Checking high-voltage charging cable	
09402550	Programming high-voltage charging cable	

PQIS coding:

Location (FES5)	09400	High-voltage charging cable
Damage type (SA4)	9735	Repair in accordance with PAG instructions