

Replacement Requirement High-Voltage Battery on Model Year L (2020) Vehicles - Observe Specified Procedure (48/21)

Change overview:

| Version | Date | Change |
|---------|------------|--|
| 0 | 04/06/2021 | First publication |
| 1 | 05/10/2021 | Section on "Replacing E-box" is not required |
| 2 | 05/02/2022 | Part numbers added |
| 3 | 08/19/2022 | Work Procedure to "Match vehicle data" updated |

Model Series: **Taycan (Y1A)**

Model Year: **2020**

Concerns: **Replacing the high-voltage battery**

Information: **New high-voltage batteries with a modified cell chemistry are used on Taycan vehicles from model year M (2021) onwards. From now on, model year L (2020) vehicles will also be installed with the new high-voltage batteries with modified cell chemistry if the high-voltage battery needs to be replaced.**

To use the high-voltage batteries with modified cell chemistry in MY L (2020) vehicles, the PR number in the vehicle order must be changed following installation in the vehicle before programming the new high-voltage battery control unit and teaching the high-voltage battery.

The change ensures that the high-voltage battery control unit will be programmed using the correct data record and that the correct parts will be referenced in the Porsche Spare Parts Catalogue (PET) if the high-voltage battery or its components need to be replaced in the future.

Action required: After installing the new high-voltage battery in the vehicle and **before** programming the high-voltage battery control unit, change the PR number in the vehicle order.

Parts Info: **Affected part numbers (79 kWh):**

| Part number | Designation |
|-------------|---------------------------------|
| 9J1915099AM | High-voltage battery (complete) |
| 9J1915099AS | High-voltage battery (complete) |
| 9J1915099PX | High-voltage battery (complete) |
| 9J1915099SX | High-voltage battery (complete) |

Affected part numbers (93 kWh):

| Part number | Designation |
|-------------|---------------------------------|
| 9J1915100AM | High-voltage battery (complete) |
| 9J1915100AS | High-voltage battery (complete) |
| 9J1915100PX | High-voltage battery (complete) |
| 9J1915100SX | High-voltage battery (complete) |

Match PR number

Tool:

**Information**

The Taycan (Y1A) is equipped as standard with a **lithium starter battery**.

Lithium starter batteries must only be charged using a **suitable battery charger** that has a current and voltage-controlled charge map.

For further information about the battery chargers to be used, see ⇒ *Workshop Manual '270689 Charging battery/vehicle electrical system'*.

- Battery charger with a current rating of **at least 90 A** and - if required - **also with a current and voltage controlled charge map** for lithium starter batteries, e.g. **VAS 5908 90A battery charger**
- **9900 - PIWIS Tester 3**

Work

Procedure:

Match vehicle data

- 1 Connect a suitable battery charger, e.g. **90 A battery charger**, to the jump-start terminals and switch it on.
- 2 Position the **driver's key** with the back facing forward, upright between the holding struts in the rear drinks holder (**emergency start tray**) to ensure a permanent radio link between the vehicle and remote control ⇒ *Emergency start tray - Arrow-*.
- 3 Connect **9900 - PIWIS Tester 3** to the vehicle communication interface module (VCI) via the **USB cable**. Then connect the communication module to the vehicle and switch on the PIWIS Tester.
- 4 Establish readiness for operation (switch on ignition).
- 5 On the PIWIS Tester start screen, call up the '**Diagnostics**' application.



Emergency start tray

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

6 Match vehicle data.

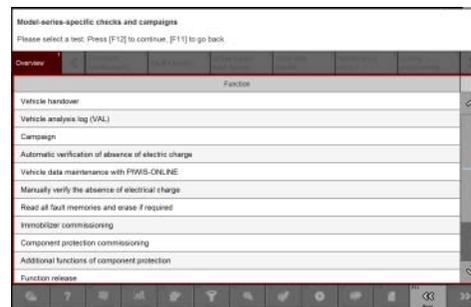
6.1 In the control unit selection (**Overview** menu) press **•F7** to call up the Additional menu.

6.2 Select the **'Vehicle data maintenance with PIWIS ONLINE'** function, and press **•F12** ('Next') to confirm ⇒ *Maintenance of vehicle data*.

6.3 Read the information about the 'Vehicle data' function, and press **•F12** ('Next') to confirm.

6.4 Once the comparison between the data in the vehicle and the vehicle data in PIWIS Online has been completed, synchronize the vehicle data if necessary.

Press **•F12** ('Next') to continue.



Maintenance of vehicle data



Information

If the vehicle data needs to be synchronized, this must be carried out before doing any additional work. Otherwise, the vehicle data maintenance cannot be performed.

6.5 Press **•F12** ('Next') to skip the displays containing information about vehicle description, colors/ materials and X numbers.

6.6 Add the coding value **'ST3'** to the vehicle data on the PR numbers page. To do this, 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. Then press **•F12** ('Next') to close the PR numbers display.

6.7 Press **•F8** in the overview that is then displayed to save the changed vehicle data. The system then checks whether one or more control units have to be coded or programmed due to the changed vehicle data.

6.8 Re-code or program the control units displayed on the PIWIS Tester if necessary.

6.9 Then press **•F11** ('Back') to return to the control unit selection screen.

The high-voltage battery control unit can now be programmed, see ⇒ *Workshop Manual '270855 Replacing high-voltage battery'*.

Invoicing: For documentation and warranty invoicing, enter the labor operation and PQIS coding specified below in the warranty claim:

| APOS | Labor operation | I No. |
|----------|---|-------|
| 27084950 | Reworking high-voltage battery control unit | |

PQIS coding:

| | | |
|-------------------|-------|--|
| Location (FES5) | 27080 | High-voltage battery |
| Damage type (SA4) | 9735 | repair in accordance with PAG instructions |

References: ⇒ *Workshop Manual '270855 Replacing high-voltage battery'*

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