

Technical Information

48/21 ENU 2708

Service

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

	Information This Technical Information (TI) contains two remedial measures, which relate to requirements for replacing the high-voltage battery on Taycan model year L (2020) vehicles. The specified part numbers for the high-voltage battery must be checked to determine whether both remedial measures must be carried out or whether changing the PR number as described in the second part of the TI will be sufficient if the high-voltage battery needs to be replaced. If you are unclear about the scope of this Technical Information, please contact your importer's Technical Support.
Model Line:	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 ensure that the high-voltage battery with modified cell chemistry is compatible with the vehicle, various additional measures are required depending on the part number of the new high-voltage battery:

Part numbers with index AH/AX:

Part No.	Designation
9J1915100AH	High-voltage battery (complete), 93 kWh
9J1915100AX	High-voltage battery (complete), 93 kWh
9J1915099AH	High-voltage battery (complete), 79 kWh
9J1915099AX	High-voltage battery (complete), 79 kWh

• **Replace E-box** ⇒ *Technical Information 'Replacing E-box 'and change vehicle data* ⇒ *Technical Information 'Changing PR number'.*

Part numbers with index AM/PX:

Part No.	Designation
9J1915100AM	High-voltage battery (complete), 93 kWh

9J1915100PX	High-voltage battery (complete), 93 kWh
9J1915099AM	High-voltage battery (complete), 79 kWh
9J1915099PX	High-voltage battery (complete), 79 kWh

• Change vehicle data \Rightarrow Technical Information 'Changing PR number'.

Replacing E-box

Information: Due to lack of regulatory approvals, before installing the high-voltage battery assembly (which includes: E-box and high-voltage battery control unit), the E-box and high-voltage battery control unit must be replaced with approved versions.

Action required: Replace E-box of the new high-voltage battery.

Parts Info: **Overview of affected part numbers:**

Part No.	Designation
9J1915100AH	High-voltage battery (complete), 93 kWh
9J1915100AX	High-voltage battery (complete), 93 kWh
9J1915099AH	High-voltage battery (complete), 79 kWh
9J1915099AX	High-voltage battery (complete), 79 kWh

Parts required:

Part No.	Designation – Use	Qty.
9J1915251AA	 ⇒ Battery disconnect element (complete) Includes: – High-voltage battery control unit 	1 ea.
PAF009770	⇒ Internal hexagon round-head bolt, M6 x 32 – Battery disconnect element	9 ea.

Work Replace E-box.

Procedure:

- 1 Position **new** high-voltage battery on the assembly table.
- 2 Remove old E-box \Rightarrow Workshop Manual '270819 Removing and installing E-box'.
- 3 Install **new** E-box (Part No. 9J1915251AA) \Rightarrow Workshop Manual '270819 Removing and installing *E-box*'.

The new high-voltage battery with new E-box can then be installed in the vehicle.

AfterSales

Technical Information	Service		つ
	48/21	ENU	2708

- 4 After installing the high-voltage battery and **before** programming the high-voltage battery control unit, change the PR number in the vehicle order, see \Rightarrow *Technical Information '270819 Introduction'*.
- Invoicing: For documentation and warranty invoicing, enter the labor operation, parts and PQIS coding specified below in the warranty claim:

APOS	Labor operation	I No.
27081955	Removing and installing high-voltage battery (removing and installing E-box)	

PQIS coding:

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

Part No. Designation		Qty.
9J1915251AA	Battery disconnect element (complete)	1 ea.
PAF009770	Internal hexagon round-head bolt, M6 x 32	9 ea.

References: \Rightarrow Workshop Manual '270819 Removing and installing E-box'

Changing PR number

Information: 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 of the 93 kWh high-voltage battery:

Part No.	Designation
9J1915100AH	High-voltage battery (complete)
9J1915100AX	High-voltage battery (complete)
9J1915100AM	High-voltage battery (complete)
9J1915100PX	High-voltage battery (complete)

Affected part numbers of the 79 kWh high-voltage battery:

Part No.	Designation
9J1915099AH	High-voltage battery (complete)
9J1915099AX	High-voltage battery (complete)
9J1915099AM	High-voltage battery (complete)
9J1915099PX	High-voltage battery (complete)

Tools:

Procedure:

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 \Rightarrow 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 90 A battery charger**
- 9900 PIWIS Tester 3

Work Changing 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 cupholder (emergency start tray) to guarantee a permanent radio link between the vehicle and remote control ⇒ Emergency start tray-Arrow-.
- 3 Connect **9900 PIWIS Tester 3** to the vehicle communication module (VCI) via the **USB cable**. Then connect the communication module to the vehicle and switch on the PIWIS Tester.
- 4 Establish operational readiness (switch on ignition).



Emergency start tray

5 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.

AfterSales

6 Change vehicle data.

- 6.1 In the control unit selection screen (**'Overview'** menu), press F7[#] to call up the Additional menu.
- 6.2 Select 'Maintenance of vehicle data' and press F12" ('Next') to confirm \Rightarrow Maintenance of vehicle data.
- 6.3 Press F12" ('Next') to skip the displays containing information about vehicle description, colors/materials and X numbers.
- 6.4 Add the coding value 'ST3' to the vehicle data on the M numbers page. To do this, click in the "Installed" field for the relevant coding value to select the value.
 Make sure that the 'Installed' column is then

	strent carry.		Super-Appendia	فغنمان	Alexander	1
		Function	an .			
Measurement of closed-circ	uit current					-
Maintenance of vehicle dat	1					
Vehicle analysis log (VAL)						
Campaign						
Vehicle handover						
Read all fault memories an	d erase if require	d				

Maintenance of vehicle data

ticked and that the pen symbol appears in the 'Changed' column. Then press • F12" ('Next') to exit the PR numbers display.

- 6.5 Press F8" in the overview that is then displayed to save the changed vehicle data.
- 6.6 Once you have saved the vehicle data, press F11" ('Back') to return to the control unit selection screen.

The high-voltage battery control unit can now be programmed, see \Rightarrow 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'

Important Notice: Technical Bulletins issued by Porsche Cars North America, Inc. are intended only for use by professional automotive technicians who have attended Porsche service training courses. They are written to inform those technicians of conditions that may occur on some Porsche vehicles, or to provide information that could assist in the proper servicing of a vehicle. Porsche special tools may be necessary in order to perform certain operations identified in these bulletins. Use of tools and procedures other than those Porsche recommends in these bulletins may be detrimental to the safe operation of your vehicle, and may endanger the people working on it. Properly trained Porsche technicians have the equipment, tools, safety instructions, and know-how to do the job properly and safely. Part numbers listed in these bulletins are for reference only. The work procedures updated electronically in the Porsche PIWIS diagnostic and testing device take precedence and, in the event of a discrepancy, the work procedures in the PIWIS Tester are the ones that must be followed.

© 2021 Porsche Cars North America, Inc.

