WLD0 - Replacing High-Voltage Line Between High-Voltage Distributor and E-Box (Workshop Campaign)

Model Line: **Taycan (Y1A)**

Model Year: **2020**

Subject: **High-voltage line**

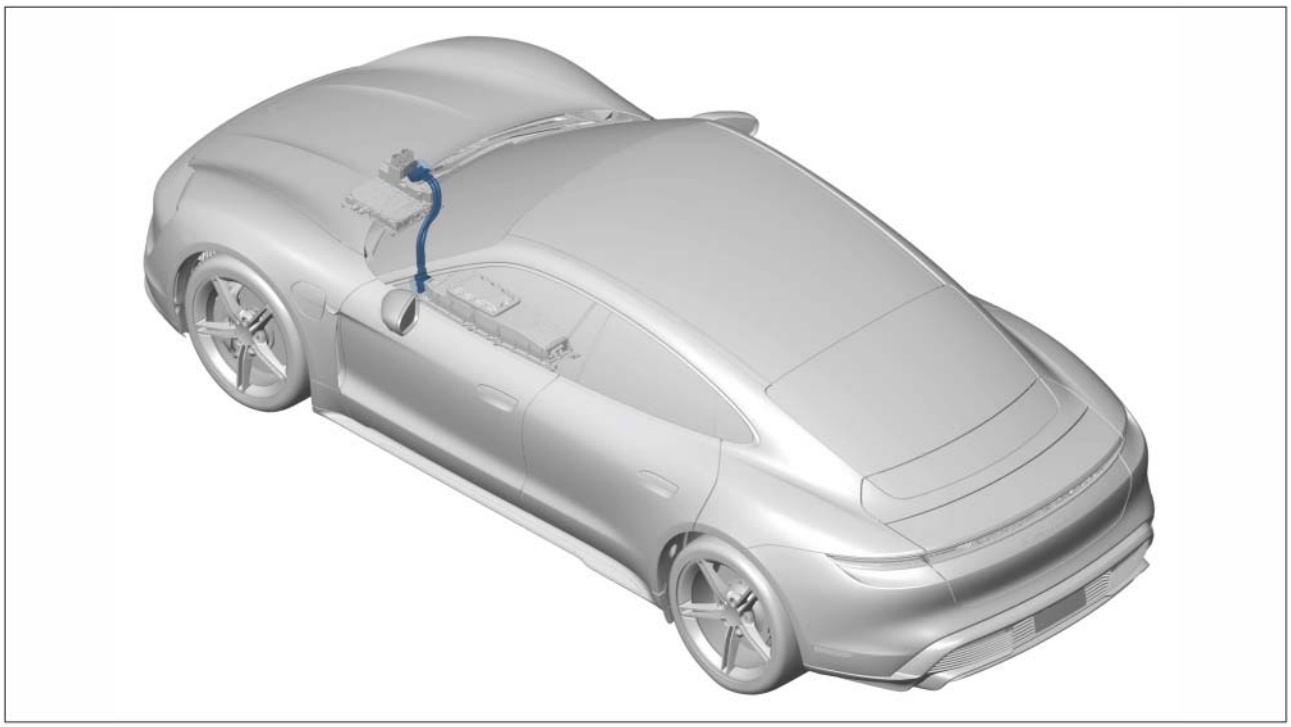
Information: **It is possible that the single-wire seal in the connector housing of the high-voltage line between the high-voltage distributor and E-box was installed incorrectly on the affected vehicles.**

This can result in a conductive medium entering the connector housing in some cases. Malfunctions may occur depending on the amount of penetration and a red warning message appears in the instrument cluster.

Remedial Action: Replace high-voltage line between the high-voltage distributor and E-box.

Affected Vehicles: Only vehicles assigned to the campaign (see also PCSS Vehicle Information). There are 591 vehicles affected by this campaign.

Installation Position:



Installation position of high-voltage line

Required parts and materials

Parts Info:

Part No.	Designation	Qty.
	– Use	
9J1971131A	⇒ High-voltage wire harness	1 ea.
PAF106825	⇒ Cheese head bolt, M8 x 50	4 ea.
	– Strut to body	

Materials: (only if required)

Part No.	Designation	Qty.
00004330516	⇒ Coolant additive, 20-liter container	As much as required (approx. 1 liter required per vehicle)
	– Cooling system	

Required tools

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'*.

Tools:

- **VAS 6883 Insulated Tool Set**
- **VAS 6558A High-voltage testing module**
- **VAS 6558/9–6 High-voltage test adapter HVA 280**
- **VAS 6410 Contact Surface Cleaning Set or equivalent**
- **T40262 - Locking cap**
- **9696 - Filling device**
- **3093 - Hose clamp or equivalent**
- **VAS 6675A Funnel**
- **VAS 6968 Coolant filling device or equivalent**
- **VAS 6096/2 Vacuum pump**
- **VAG 1274B Tester for Cooling System**
- **VAS 6890 Spring Band Clamp Pliers or equivalent**
- **VAS 6935 Pole terminal puller or equivalent**
- Torque wrench, 2 - 10 Nm (1.5 - 7.5 ftlb.), e.g. **VAG 1783 Torque wrench, 2-10 Nm (1.5-7.5 ftlb.)**
- 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.) or equivalent**
- Electronic torque angle torque wrench, e.g. **9768 - Electronic torque wrench, 2 - 100 Nm (1.5 - 74 ftlb.)**
- 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**
- **9900 - PIWIS Tester 3**

Replacing high-voltage line between the high-voltage distributor and E-box

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, e.g. VAS 6883 High-voltage 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'***

Work Procedure: 1 Observe general warning notes for working on the high-voltage vehicle electrical system ⇒ *Workshop Manual '2X00IN General warning notes for working on the high-voltage system'*.

2 Isolate the high-voltage system from the power supply ⇒ *Workshop Manual '2X00IN Isolating high-voltage system from power supply/Starting 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.
- In the event of queries or uncertainties, consult the relevant high voltage technician.

3 Replace high-voltage line between high-voltage distributor and e-box.
For instructions, see ⇒ *Workshop Manual '27931900 Removing and installing high-voltage line from high-voltage distributor to E-box'*.

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

5 Enter the campaign in the Warranty and Maintenance booklet.

Warranty processing

Information

The specified working time was determined specifically for carrying out this campaign and includes all necessary preliminary and subsequent work.
The working time may differ from the working times published in the Labor Operation List in the PCSS.

Scope:

Working time:

Replacing high-voltage line between high-voltage distributor and E-box — Labor time: **957 TU**

Includes:
- Raising and lowering the vehicle
- Removing and installing front left wheel
- Removing and installing front left wheel housing liner
- Connecting and disconnecting battery charger
- Connecting and disconnecting PIWIS Tester
- Isolating high-voltage system from power supply and starting high-voltage system
- Removing and installing vehicle electrical system battery
- Draining and filling coolant
- Bleeding the cooling system
- Removing and installing front-axle support (rear section)
- Removing and installing 11 kW high-voltage charger
- Loosening and securing evaporator (chiller)
- Removing and installing high-voltage distributor

Parts required:

9J1971131A	High-voltage wire harness	1 ea.
PAF106825	Cheese head bolt	4 ea.

Required materials (only if required):

00004330516	Coolant additive (20-liter container)	0.05

⇒ **Damage Code WLD0 066 000 2**