

WPS3 - Replacing HV Voltage Converter (Workshop Campaign)

Model Line: **Taycan (Y1A / Y1B)**

Model Year: **As of 2020 up to 2022**

Concerns: **HV voltage converter**

Cause: **On the affected vehicles, the high-voltage battery including the high-voltage battery control unit (BMCE) was not replaced in conjunction with the HV voltage transformer.**
When switched off, this can lead to an "Elevated vehicle electrical system – service required" warning message in the instrument cluster and reduced driving readiness. There are no malfunctions while driving.

Action: Replace HV voltage converter.

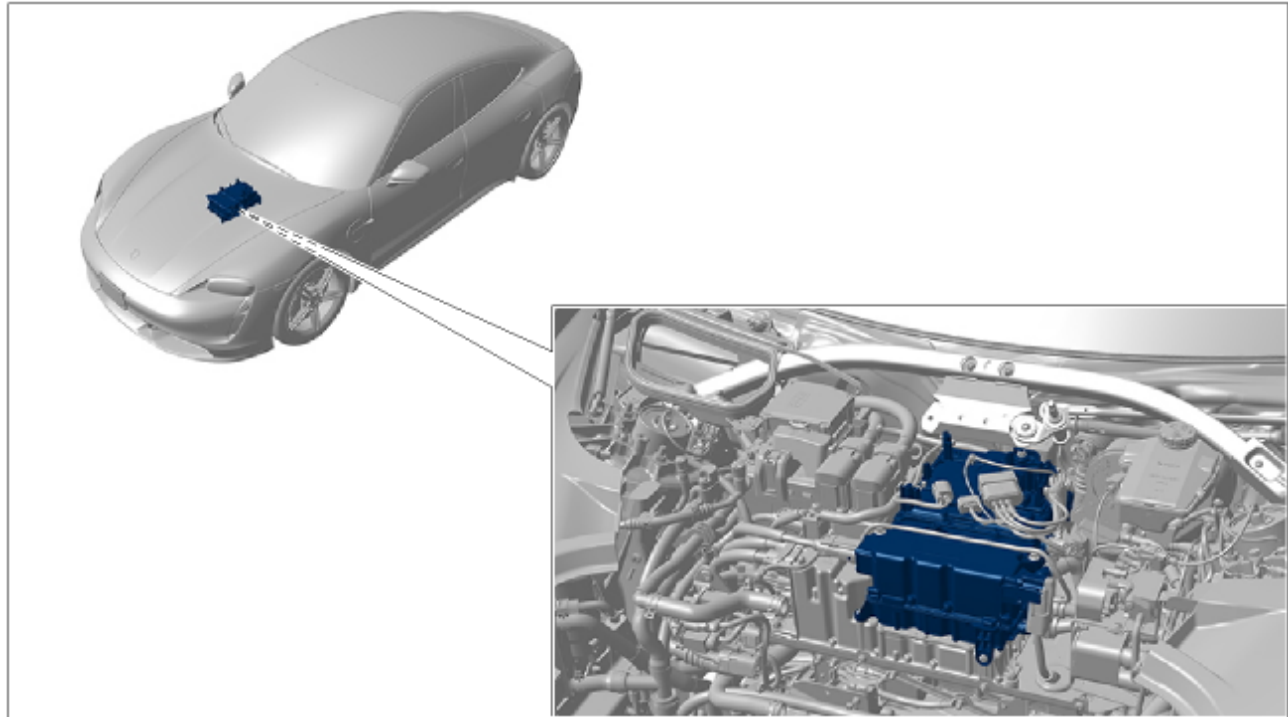
Affected Vehicles: Only vehicles assigned to the campaign (see also PCSS Vehicle Information).



Information

Please note that the WPS3 workshop campaign is carried out in conjunction with the WPL8 workshop campaign if possible. In this case, Scope 1 must be invoiced. In case the WPL8 workshop campaign has already been carried out, Scope 2 must be invoiced.

Installation
Position:



HV voltage converter installation position

Required parts and materials

Parts Info:

Part No.	Designation – Location	Number
Only for vehicles with the following equipment: HV voltage converter for low booster (M-No. KM1) and rear-wheel drive (M-No. 1X2)		
9J1915539CK	⇒ HV voltage converter for low booster	1 piece
Only for vehicles with the following equipment: HV voltage converter for low booster (M-No. KM1) and all-wheel drive (M-No. 1X1)		
9J1915539DP	⇒ HV voltage converter for low booster	1 piece
Only for vehicles with the following equipment: HV voltage converter for high booster (M-No. KM2) and rear-wheel drive (M-No. 1X2)		
9J1915539DN	⇒ HV voltage converter for high booster	1 piece

Only for vehicles with the following equipment: HV voltage converter for high booster (M-No. KM2) and all-wheel drive (M-No. 1X1)

9J1915539CN ⇒ HV voltage converter for high booster 1 piece

Additionally required parts:

N 10261307 ⇒ M10 hexagon nut 2 pieces
- Wiper arm

PAF912040 ⇒ Hexagon-head bolt M8 x 50 4 pieces
- (Dome) strut to spring strut mount

Materials: **Required materials** (usually already available in the Porsche Center):

Part No.	Designation	Quantity
00004330516	⇒ Coolant additive, 20-liter/ 5.28 gal container - Cooling system	0.03 piece

Required tool

- Tools:
- Threaded bolts for installing wheel
 - Assembly wedge
 - Plastic wedge
 - Torque wrench, 2–10 Nm (1.5–7.5 ftlb.), e.g. **V.A.G 1783 - torque wrench, 2–10 Nm (1.5–7.5 ftlb.)**
 - Torque wrench, 6–50 Nm (4.5–37 ftlb.), e.g. **V.A.G 1331A - torque wrench, 6–50 Nm (4.5–37 ftlb.)**
 - Torque wrench 40–200 Nm (30–148 ftlb.), e.g. **V.A.G 1332A - Torque wrench 40–200 Nm (30–148 ftlb.)**
 - Battery charger with a current rating of **at least 90 A**, e.g. **VAS 5908 - battery charger 90 A**
 - **P90999 - PIWIS Tester 4**
 - **VAS 6883 - Insulated tool set**
 - **VAS 6558A - High-voltage test adapter**
 - **VAS 6558A/27 - Set of Kelvin clamps and test probes**
 - **VAS 6410 - Contact surface cleaning set**
 - **VAS 6558/9-6A - High-voltage test adapter**
 - **T40262 - Locking cap**
 - **Pole terminal puller**
 - **3093 - Hose clamp**
 - **VAS 6675A - Funnel**
 - **VAS 531 011 - Cooling system service equipment**
 - **VAS 6096/2 - Vacuum pump**

Country-specific tools:

- VAS 6558/10-1 - High-voltage test adapter
- VAS 6558/14A - High-voltage test adapter
- VAS 6558/17A - High-voltage test adapter
- VAS 6558/10-2 - High-voltage test adapter
- VAS 6558/18A - High-voltage test adapter
- VAS 6558/13A - High-voltage test adapter
- VAS 6558/22 - High-voltage test adapter

Replacing HV voltage converter

Work Procedure:

**Information**

For vehicles for which the WPL8 workshop campaign and WPS3 workshop campaign are carried out together, no separate **vehicle analysis log (VAL)** needs to be created for WPS3 workshop campaign. In this case, only one VAL before and one VAL after the activities should be created and returned.

- 1 **Create Vehicle Analysis Log (VAL)** using the PIWIS Tester. Mark the vehicle analysis log you have created with the attribute **"Pre-VAL"** and after carrying out the campaign, return it using the PIWIS Tester.
- 2 Replace HV voltage converter. ⇒ *Workshop Manual '270319 Removing and installing HV voltage converter'*
- 3 Teach **new** HV voltage converter. ⇒ *Workshop Manual '270355 Replace HV voltage converter'*
- 4 **Create Vehicle Analysis Log (VAL)** using the PIWIS Tester. Mark the vehicle analysis log you have created with the attribute **"Post-VAL"** and after carrying out the campaign, return it using the PIWIS Tester.
- 5 Enter the campaign in the Warranty and Maintenance logbook.

Warranty processing**Information**

The specified labor times were determined specifically for carrying out this campaign and include all necessary preliminary and subsequent rework. The labor times may differ from the Labor times published in the Labor Operation List in PCSS.

Scope 1:

Replacing HV voltage converter

- Valid for vehicles for which the workshop campaign was carried out in conjunction with the WPL8 workshop campaign

Labor time:

Replacing HV voltage converter Labor time: **228 TU**

Includes: Removing and installing strut (dome strut)
 Loosening and fastening reservoir
 Loosening and fastening electric passenger compartment heater
 Teaching HV voltage converter

Required parts:

Only for vehicles with the following equipment: HV voltage converter for low booster (M-No. KM1) and rear-wheel drive (M-No. 1X2)

9J1915539CK	HV voltage converter for low booster	1 piece
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Additionally required parts:

N 10261307	M10 hexagon nut	2 pieces
PAF912040	M8 x 50 hexagon-head bolt	4 pieces

Required materials (usually already available in the Porsche Center):

00004330516	Coolant additive, 20-liter/ 5.28 gal container	0.03 piece
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⇒ **Damage number WPS3 066 000 2**

Scope 2:

Replacing HV voltage converter

- Valid for vehicles for which the WPL8 workshop campaign was already carried out

Labor time:

Replacing HV voltage converter Labor time: **684 TU**

Includes: Deactivating and activating high-voltage system
 Draining and filling coolant
 Bleeding cooling system
 Removing and installing luggage compartment tray
 Removing and installing front cover
 Removing and installing cowl panel cover
 Loosening and fastening front end fuse box
 Disconnecting and securing ground strap for battery
 Removing and installing strut (dome strut)
 Loosening and fastening reservoir
 Loosening and fastening electric passenger compartment heater
 Teaching HV voltage converter
 Creating pre- and post-VAL

Required parts:

Only for vehicles with the following equipment: HV voltage converter for low booster (M-No. KM1) and rear-wheel drive (M-No. 1X2)

9J1915539CK	HV voltage converter for low booster	1 piece
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Additionally required parts:

N 10261307	M10 hexagon nut	2 pieces
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PAF912040	M8 x 50 hexagon-head bolt	4 pieces
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Required materials (usually already available in the Porsche Center):

00004330516	Coolant additive, 20-liter/ 5.28 gal container	0.03 piece
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⇒ **Damage number WPS3 066 000 2**

Scope 3:

Replacing HV voltage converter

- Valid for vehicles for which the workshop campaign was carried out in conjunction with the WPL8 workshop campaign

Labor time:

Replacing HV voltage converter Labor time: **228 TU**

Includes: Removing and installing strut (dome strut)
Loosening and fastening reservoir
Loosening and fastening electric passenger compartment heater
Teaching HV voltage converter

Required parts:

Only for vehicles with the following equipment: HV voltage converter for low booster (M-No. KM1) and all-wheel drive (M-No. 1X1)

9J1915539DP	HV voltage converter for low booster	1 piece
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Additionally required parts:

N 10261307	M10 hexagon nut	2 pieces
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PAF912040	M8 x 50 hexagon-head bolt	4 pieces
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Required materials (usually already available in the Porsche Center):

00004330516	Coolant additive, 20-liter/ 5.28 gal container	0.03 piece
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⇒ **Damage number WPS3 066 000 2**

Scope 4:

Replacing HV voltage converter

- Valid for vehicles for which the WPL8 workshop campaign was already carried out

Labor time:

Replacing HV voltage converter Labor time: **684 TU**

Includes:

- Deactivating and activating high-voltage system
- Draining and filling coolant
- Bleeding cooling system
- Removing and installing luggage compartment tray
- Removing and installing front cover
- Removing and installing cowl panel cover
- Loosening and fastening front end fuse box
- Disconnecting and securing ground strap for battery
- Removing and installing strut (dome strut)
- Loosening and fastening reservoir
- Loosening and fastening electric passenger compartment heater
- Teaching HV voltage converter
- Creating pre- and post-VAL

Required parts:

Only for vehicles with the following equipment: HV voltage converter for low booster (M-No. KM1) and all-wheel drive (M-No. 1X1)

9J1915539DP	HV voltage converter for low booster	1 piece
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Additionally required parts:

N 10261307	M10 hexagon nut	2 pieces
PAF912040	M8 x 50 hexagon-head bolt	4 pieces

Required materials (usually already available in the Porsche Center):

00004330516	Coolant additive, 20-liter/ 5.28 gal container	0.03 piece
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⇒ **Damage number WPS3 066 000 2**

Scope 5: **Replacing HV voltage converter**

- Valid for vehicles for which the workshop campaign was carried out in conjunction with the WPL8 workshop campaign

Labor time:

Replacing HV voltage converter Labor time: **228 TU**

Includes:

- Removing and installing strut (dome strut)
- Loosening and fastening reservoir
- Loosening and fastening electric passenger compartment heater
- Teaching HV voltage converter

Required parts:

Only for vehicles with the following equipment: HV voltage converter for high booster (M-No. KM2) and rear-wheel drive (M-No. 1X2)

9J1915539DN	HV voltage converter for high booster	1 piece
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Additionally required parts:

N 10261307	M10 hexagon nut	2 pieces
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PAF912040	M8 x 50 hexagon-head bolt	4 pieces
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Required materials (usually already available in the Porsche Center):

00004330516	Coolant additive, 20-liter/ 5.28 gal container	0.03 piece
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⇒ **Damage number WPS3 066 000 2**

Scope 6:

Replacing HV voltage converter

- Valid for vehicles for which the WPL8 workshop campaign was already carried out

Labor time:

Replacing HV voltage converter

Labor time: **684 TU**

Includes:

- Deactivating and activating high-voltage system
- Draining and filling coolant
- Bleeding cooling system
- Removing and installing luggage compartment tray
- Removing and installing front cover
- Removing and installing cowl panel cover
- Loosening and fastening front end fuse box
- Disconnecting and securing ground strap for battery
- Removing and installing strut (dome strut)
- Loosening and fastening reservoir
- Loosening and fastening electric passenger compartment heater
- Teaching HV voltage converter
- Creating pre- and post-VAL

Required parts:

Only for vehicles with the following equipment: HV voltage converter for high booster (M-No. KM2) and rear-wheel drive (M-No. 1X2)

9J1915539DN	HV voltage converter for high booster	1 piece
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Additionally required parts:

N 10261307	M10 hexagon nut	2 pieces
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PAF912040	M8 x 50 hexagon-head bolt	4 pieces
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Required materials (usually already available in the Porsche Center):

00004330516	Coolant additive, 20-liter/ 5.28 gal container	0.03 piece
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⇒ **Damage number WPS3 066 000 2**

Scope 7: **Replacing HV voltage converter**

- Valid for vehicles for which the workshop campaign was carried out in conjunction with the WPL8 workshop campaign

Labor time:		
Replacing HV voltage converter		Labor time: 228 TU
Includes:	Removing and installing strut (dome strut)	
	Loosening and fastening reservoir	
	Loosening and fastening electric passenger compartment heater	
	Teaching HV voltage converter	
Required parts:		
Only for vehicles with the following equipment: HV voltage converter for high booster (M-No. KM2) and all-wheel drive (M-No. 1X1)		
9J1915539CN	HV voltage converter for high booster	1 piece
Additionally required parts:		
N 10261307	M10 hexagon nut	2 pieces
PAF912040	M8 x 50 hexagon-head bolt	4 pieces
Required materials (usually already available in the Porsche Center):		
00004330516	Coolant additive, 20-liter/ 5.28 gal container	0.03 piece
⇒ Damage number WPS3 066 000 2		

Scope 8: **Replacing HV voltage converter**

- Valid for vehicles for which the WPL8 workshop campaign was already carried out

Labor time:		
Replacing HV voltage converter		Labor time: 684 TU
Includes:	Deactivating and activating high-voltage system	
	Draining and filling coolant	
	Bleeding cooling system	
	Removing and installing luggage compartment tray	
	Removing and installing front cover	
	Removing and installing cowl panel cover	
	Loosening and fastening front end fuse box	
	Disconnecting and securing ground strap for battery	

Removing and installing strut (dome strut)
 Loosening and fastening reservoir
 Loosening and fastening electric passenger compartment heater
 Teaching HV voltage converter
 Creating pre- and post-VAL

Required parts:

Only for vehicles with the following equipment: HV voltage converter for high booster (M-No. KM2) and all-wheel drive (M-No. 1X1)

9J1915539CN	HV voltage converter for high booster	1 piece
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Additionally required parts:

N 10261307	M10 hexagon nut	2 pieces
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PAF912040	M8 x 50 hexagon-head bolt	4 pieces
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Required materials (usually already available in the Porsche Center):

00004330516	Coolant additive, 20-liter/ 5.28 gal container	0.03 piece
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⇒ **Damage number WPS3 066 000 2**

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