

**WSR1 – Replacing High-voltage Charger (OBC) (Workshop Campaign)**

Model Line: **Panamera E-Hybrid (971)**

Model Year: **As of 2017 up to 2020**

Concerns: **High-voltage charger (OBC)**

Cause: **Due to an incorrect component assignment in the Porsche spare parts catalogue (PET2), a high-voltage charger (OBC) not approved for this vehicle type was installed on the affected vehicles.**

Depending on the software status of the battery management, this leads to activation of the yellow malfunction indicator light. This may lead to a faulty residual charge indicator.

Action: Replace high-voltage charger (OBC).

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

**Required parts**

The **part numbers** of the **required parts** for the respective vehicle can be seen in the **assigned scope**, see section "warranty processing".

**Required tools**

- Tools:
- **P90999 - Porsche Tester 4**
  - 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. **battery charger 90 A**. For further information about the battery chargers to be used, see the corresponding Workshop Manual. ⇒ *Workshop Manual '270689 Charging vehicle electrical system battery'*
  - 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.)**
  - **VAS 6883A - Insulated tool set**
  - **T40262 - Locking cap**
  - **VAS 6410 - Contact surface cleaning set**
  - **VAS 6558/9-6A - High-voltage test adapter**
  - **9696 - Filling device**
  - **9703 - Flexible screwdriver**
  - **VAS 6890 - Spring band clamp pliers**
  - **V.A.G 1274B - Cooling system testing unit**
  - **VAS 6096/2 - Vacuum pump**
  - **VAS 6562 - Porsche adapter set for cooling system tester**

## Replacing high-voltage charger (OBC)

- Work Procedure: 1 Remove previous high-voltage charger (OBC) and replace with **new** high-voltage charger (OBC).  
 ⇒ *Workshop Manual '279719A5 Removing and installing high-voltage charger'*  
 ⇒ *Workshop Manual '279755A3 Replace high-voltage charger'*
- 2 Enter the campaign in the warranty and maintenance logbook.

## Warranty processing



### Information

The specified labor time was determined specifically for carrying out this campaign and includes all necessary preliminary work and rework. The labor time can differ from the labor time published in the Labor Operation List in the PCSS.

### Scope 1: Replacing high-voltage charger (OBC)

#### Labor time:

Replacing high-voltage charger (OBC)

Labor time: **327 TU**

#### Includes:

- Deactivating and activating high-voltage system
- Draining and topping up coolant (low-temperature cooling system)
- Removing and installing subwoofer
- Charge battery
- Connect and disconnect Porsche Tester
- Reading out and erasing fault memories

#### Required parts:

V04015001PL	Battery Charger (OBC)	1 piece
WHT007942A	Bearing pin	1 piece

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

00004330516	Coolant additive (20-liter / 5.28 gal container)	0.05 piece
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⇒ **Damage number WSR1 066 000 2**

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