

Intermittent Warning Message for Power Steering Failure / Fault Memory Entry "B202700" in the Power Steering Control Unit: Observe Specified Procedure (61/25)

Model Line: **Panamera (971)**

Model Year: **As of 2017 up to 2024**

Concerns: **Power steering gear**

Cause: **The customer is complaining about the intermittent lighting up of the "Power steering failed" warning message on the instrument cluster.**

The following fault memory entry is stored in the power steering control unit fault memory:

- **B202700** – Coding (007700) / (007800)



Information

The cause of this complaint is a contact error on an electric plug connection to the power steering gear.

There is no need to replace the power steering gear.

Action: If there is a customer complaint, check electric plug connections on the power steering gear and rework if necessary.

Required tools

- Tools:
- **P90999 - PIWIS Tester 4**
 - Battery charger with a current rating of **at least 90 A**, e.g. **VAS 5908 - battery charger 90A**. For further information about the battery chargers to be used, see the corresponding Workshop Manual. ⇒ *Workshop Manual '2X00IN Battery trickle charge'*
 - 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 spanner, 6-50 Nm (4.5-37 ftlb.)**

Additional required tools for vehicles with hybrid drive system PHEV (M-No. 0K3):

- **VAS 6883A - Insulated tool set**
- **VAS 6558A - High-voltage measuring module**
- **VAS 6558/9-6A - High-voltage test adapter**
- **T40262 - Locking cap**
- **VAS 6410 - Contact surface cleaning set**

Check electric plug connections on the power steering gear and rework if necessary.

- Work Procedure:
- 1 **Vehicles with hybrid drive system (M-No. 0K3):**
Deactivate the high-voltage system.
⇒ *Workshop Manual '2X00IND2 Deactivation/starting of high-voltage system'*
 - 2 **Only vehicles with 48-volt vehicle electrical system (M-No. VH2):**
Disconnect the 48-volt system.
⇒ *Workshop Manual '270703A1 Disconnecting and starting 48-volt system'*
 - 3 Disconnect the vehicle electrical system battery.
For procedure, see: ⇒ *Workshop Manual '270619A4 Removing and installing vehicle electrical system battery'*
 - 4 Remove the front-axle support (rear section).
⇒ *Workshop Manual '400819A3 Removing and installing front-axle support'*
 - 5 Release and disconnect electric plug connections ⇒
Power steering gear -3- on power-steering gear ⇒
Power steering gear -2-.
 - 6 Visually check the contacts of the electric plug connections for corrosion and contact (secure fit of the pins and connection of the plug).

*Power steering gear*

Assessment		Action
(✓)	There is no corrosion on the contacts.	The contacts on the electric plug connections are OK . Continue troubleshooting in some other way. Then continue with Step ⇒ 7.
(✗)	Corrosion is present at the contacts.	The contacts on the electric plug connections are not OK . Clean and, if necessary, repair contacts of the corresponding electric plug connection. Then continue with Step ⇒ 7.

- 7 Connect and lock electric plug connections ⇒ *Power steering gear -3-* on power-steering gear ⇒ *Power steering gear -2-*.
Make sure that the electric plug connections engage completely.

- 8 Install the front-axle support (rear section).
⇒ *Workshop Manual '400819A3 Removing and installing front-axle support'*

- 9 Connect the vehicle electrical system battery.
For procedure, see: ⇒ *Workshop Manual '270619A4 Removing and installing vehicle electrical system battery'*

- 10 **Only vehicles with 48-volt vehicle electrical system (M-No. VH2):**
Start the 48-volt system.
⇒ *Workshop Manual '270703A1 Disconnecting and starting 48-volt system'*

- 11 **Vehicles with hybrid drive system (M-No. 0K3):**
Start the high-voltage system.
⇒ *Workshop Manual '2X00IND2 Deactivation/starting of high-voltage system'*

- 12 Connect and switch on the battery charger.
⇒ *Workshop Manual '270689 Charging vehicle electrical system battery'*

- 13 Connect **P90999 - PIWIS Tester 4**, switch on the ignition and start the diagnostic application.

- 14 Read out and delete the power steering control unit fault memory.

- 15 Exit the diagnostic application, switch off ignition and disconnect **P90999 - PIWIS Tester 4** from the vehicle.

- 16 Switch off and disconnect the battery charger.
⇒ *Workshop Manual '270689 Charging vehicle electrical system battery'*



Power steering gear

Labor position and PCSS encryption

Labor position:

APOS	Labor operation	I No.
48900140	Checking electric plug connection for power steering gear	
48900141	Checking electric plug connection for power steering gear (PHEV)	
48904940	Reworking electric plug connection for power steering gear	
48904941	Reworking electric plug connection for power steering gear (PHEV)	

PCSS encryption:

Location (FES5)	48900	Power steering gear
Damage type (SA4)	1613	temporarily not working

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