

Vehicle not ready, Red Warning Message "HV Vehicle Electrical System: Malfunction!" and Fault Memory Entries regarding Pulse Inverter (21/25)

Change overview

Release	Date	Change
0	04/24/2025	<ul style="list-style-type: none"> First publication
1	11/10/2025	<ul style="list-style-type: none"> Fault memory entries for front pulse inverter supplemented "Action Required" section suitably changed
2	01/16/2026	<ul style="list-style-type: none"> Software solution added

Model Line: **Macan (XAB)**

Model Year: **As of 2024 up to 2026**

Concerns: **Front high-voltage pulse inverter (JX4)
Rear high-voltage pulse inverter (JX1)**

Cause: **The customer complains about a red warning message at start-up "HV vehicle electrical system: Malfunction! Stop vehicle safely" in the instrument cluster. Even after an ignition change (ending driving readiness and starting again), the vehicle is still not ready to drive and displays the same warning message. If a bus rest of approx. 8 minutes is produced, the warning message disappears when the vehicle is started and the vehicle is ready to drive again. All of the following fault memory entries are stored in the fault memory of the front high-voltage pulse inverter control unit (JX4) or the rear pulse inverter control unit (JX1) and these were entered **simultaneously** (time stamp identical).**

Front high-voltage pulse inverter (JX4):

- **POC0C00** - Front high-voltage pulse inverter (JX4), phase generation, internal power supply, electrical fault **(01060B)**
- **POC0C00** - Front high-voltage pulse inverter (JX4), phase generation, internal power supply, electrical fault **(01063F)**
- **POE8D00** - Front high-voltage pulse inverter (JX4), front electric machine voltage sensor, electrical fault **(010688)**

and/or

Rear high-voltage pulse inverter (JX1):

- **POC0C00** - Rear high-voltage pulse inverter (JX1), phase generation, internal power supply, electrical fault **(01060B)**
- **POC0C00** - Rear high-voltage pulse inverter (JX1), phase generation, internal power supply, electrical fault **(01063F)**

- **POE8D00** - Rear high-voltage pulse inverter (JX1), rear electric machine voltage sensor (VX90), electrical fault **(010688)**



Information

If the fault memory entries were not entered at the same time, this Technical Information (TI) does not apply.

Action:

⇒ If the vehicle is affected by Workshop Campaign **WSJO** and this has **not yet been carried out**. **Carry out WSJO workshop campaign:** ⇒ *Technical Information 'WSJ000 WSJO workshop campaign – Update to software network VR28.13'*

⇒ If Workshop Campaign **WSJO** has **already been carried out** in the past or the vehicle is not affected by Workshop Campaign WSJO.

Always perform a software integration test to ensure that all control units have the latest software release. Create vehicle analysis log (VAL) and check the fault memory entries in the high-voltage rear pulse inverter control unit and/or high-voltage front pulse inverter control unit.

If the described fault memories are entered more than once (fault frequency counter >1), the affected pulse inverter must be replaced.

If the fault memories are entered only once, no action is required if the bus idle of approx. 8 minutes has caused the fault pattern to heal.

The vehicle can continue to be used without further restrictions.

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