

Red Warning Message "HV Vehicle Electrical System: Malfunction! Stop the Vehicle Safely": Observe Specified Procedure (21/25)

Change Overview:

Release	Date	Change
0	04/24/2025	<ul style="list-style-type: none"> Original publication
1	11/10/2025	<ul style="list-style-type: none"> Fault memory entries for front pulse inverter supplemented "Action Required" section updated

Model Year: **As of 2024**

Model Line: **Macan (XAB)**

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 completed, 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:

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. Please ensure that Campaign WSJ0 is completed following the replacement of the affected pulse inverter.

If the fault memories are entered only once, parts replacement is not recommended. Please ensure that Campaign WSJ0 is completed instead. The Campaign WSJ0 contains a software change to remove the previously mentioned 8 minute bus rest requirement to heal the fault pattern, and instead heals the fault patten with an ignition change.

In general, always perform a software integration test to ensure that all control units have the latest software status.

The vehicle can continue to be used without further restrictions.

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