

Vehicle does not Start - Incorrect VIN in HCP4 Body Electronics Main Control Unit: Reset Control Unit (247/24)

Model Line: **Macan (XAB)**

Model Year: **As of 2024**

Concerns: **HCP4 body electronics main control unit**

Information: **The customer complains that the vehicle cannot be started.**

Cause: Various fault memory entries are identified in various control units in the workshop.

Action: If there is a customer complaint, check fault memory for the above-mentioned fault memory entries and, if necessary, reset the HCP4 body electronics main control unit.



Information

It is **not necessary** to replace the HCP4 body electronics main control unit for this complaint. Bus idle does not provide **any remedy** for this complaint.

Required tools

- Tools:
- **P90999 - PIWIS Tester 4**
 - Battery charger with a current rating of **at least 90 A**, e.g. **VAS 5908 - 90 A battery charger**. For further information about the battery chargers to be used, see the corresponding Workshop Manual. ⇒ *Workshop Manual '270689 Charge battery and vehicle electrical system'*
 - 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.)**

Check fault memory entries and, if necessary, reset the HCP4 body electronics main control unit

- Work Procedure: 1 Read out the fault memory and check for the following fault memory entries.
- 1.1 Connect and switch on the battery charger.
⇒ *Workshop Manual '270689 Charging vehicle electrical system battery'*
 - 1.2 Place the original remote control in the emergency start tray.
 - 1.3 Connect the **P90999 - PIWIS Tester 4**, establish readiness for operation and start the diagnostic application.
 - 1.4 Read out the fault memory and check for the following fault memory entries:
HCP1 drive / chassis main control unit
 - **B1AECFO** – Active cross-exchange protection or faulty coding (00051C)

- **C054600** – Chassis number, not stored / incompatible (00051D)

Airbag control unit

- **C115E54** – Control unit - internal combination sensor, not taught (515E54)
- **B18B0F0** – Theft protection functions (VKMS) not taught (98B0F0)
- **B1AECF0** – Theft protection functions (VKMS), active (9AECF0)

Assessment		Action
(✓)	The fault memory entries listed above are not available in the fault memory.	The complaint in this technical information is not caused by an incorrect vehicle identification number in the HCP4 body electronics main control unit. - Continue troubleshooting further. End of action.
(✗)	The fault memory entries listed above are available in the fault memory.	Vehicle identification number in HCP4 body electronics main control unit not OK . Continue with Step ⇒ 2.

- 2 End readiness for operation and disconnect **P90999 - PIWIS Tester 4** from vehicle.
- 3 Switch off and disconnect the battery charger.
⇒ *Workshop Manual '270689 Charging vehicle electrical system battery'*
- 4 Reset the HCP4 body electronics main control unit by disconnecting the 12-V vehicle electrical system battery.
 - 4.1 Loosen the ground strap on the vehicle electrical system battery.
For instructions, see: ⇒ *Workshop Manual '270619 Removing and installing vehicle electrical system battery'*
 - 4.2 After a waiting time of **10 minutes**, fasten the ground strap to the vehicle electrical system battery.
For instructions, see: ⇒ *Workshop Manual '270619 Removing and installing vehicle electrical system battery'*
- 5 Connect and switch on the battery charger.
⇒ *Workshop Manual '270689 Charging vehicle electrical system battery'*
- 6 Connect the **P90999 - PIWIS Tester 4**, establish readiness for operation and start the diagnostic application.
- 7 Carry out airbag zero-position calibration.

- 7.1 Select the **"Airbag"** control unit in the control unit selection screen (**"Overview"** menu) and press **(F12)** ("Next") to confirm your selection.
- 7.2 Select the menu **"Service/repairs"** then select the **"Teach combination sensor (J234)"** function and press **(F12)** ("Next") to confirm your selection.
- 7.3 Follow the instructions on the PIWIS Tester.
- 8 Read out and delete all control unit fault memories.
- 9 End diagnostic application, end readiness for operation, disconnect **P90999 - PIWIS Tester 4** from vehicle.
- 10 Switch off and disconnect the battery charger.
⇒ *Workshop Manual '270689 Charging vehicle electrical system battery'*

Labor position and PCSS encryption

Labor position:

APOS	Labour operation	I No.
98042541	Check fault memory entries and reset the body electronics main control unit	

PCSS encryption:

Location (FES5)	98040	Body electronics main control unit
Damage type (SA4)	1142	Incorrect coding

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