

Independent Dimming of Interior Lighting / Sporadic Failure of Head-Up Display (HUD) in Frontal Sunlight (59/25)

Model Line: **Macan (XAB)**

Model Year: **As of 2024 up to 2025**

Concerns: **Weather sensor**

Cause: **The customer complains that the interior lighting is dimmed independently in frontal sunlight and that the dipped beam is switched on. If the vehicle is equipped with a head-up display (HUD), it will fail temporarily at the same time.**

There are no fault memory entries stored in the fault memory.

As soon as the oncoming light fades, the aforementioned complaints are no longer present.

Cause: Due to incorrect calibration of the supplier and component deviations, there may occasionally be short-term failure of the weather sensor in direct frontal sunlight.

Action: If there is a customer complaint, check the weather sensor and replace if necessary.

Required parts



Information

No parts are required for checking the weather sensor.

Parts Info:	Part No.	Designation – Location of use	Quantity
	PAE955555B	⇒ Sensor for detecting humidity, rain and light levels	1 piece
	PAE955609	⇒ Adhesive film – Sensor for detecting humidity, rain and light levels	1 piece

Required Tools

- Tools:
- **P90999 - PIWIS 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. **VAS 5908 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'*
 - Electric flashlight with high luminosity, commercially available
 - Plastic wedge, commercially available

Check weather sensor and replace if necessary



Information

A second mechanic is required to check the weather sensor.

- Work Procedure:
- 1 Connect and switch on the battery charger.
⇒ *Workshop Manual '270689 Charging vehicle electrical system battery'*
 - 2 Establish readiness for operation.
 - 3 Illuminate the sensor surface of the weather sensor on the windshield directly and frontally for at least 1 second using the light cone of the electric flashlight and then switch off the electric flashlight.
During this observe vehicle behavior:

The following complaints occur after 1 second of permanent exposure to light on a faulty weather sensor within the scope of this Technical Information:

- Dipped beam switches on
- Interior lighting automatically dims down
- Vehicles with head-up display (HUD): Head-up display (HUD) fails

Assessment		Action
(✓)	There are no complaints during exposure to light.	Continue troubleshooting in some other way. End of action.
(x)	Complaints occur during exposure to light and are no longer present after the electric flashlight is switched off.	Weather sensor not OK . Replacing the weather sensor. ⇒ <i>Workshop Manual '921255 Replacing weather sensor'</i> End of action.

Labor position and PCSS encryption

Labor position:

APOS	Labor operation	I No.
92120140	Checking weather sensors	
92125540	Checking and replacing weather sensors	

PCSS encryption:

Location (FES5)	92120	Weather sensor
Damage type (SA4)	4021	signal distorted

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