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Symptom/Vehicle Issue: Warning pop-ups on instrument cluster for "Lane Keeping Assistance" and/or "Lane Positioning Assist" and/or "Blind Spot Monitoring System" functions with a steering wheel angle sensor fault (U053B 81, B2EF8 9E, U1205 81), present in several ECUs.

Models Affected: 2025 Jeep Compass (MW)

Customer Complaint/Technician Observation: This fault may appear when the vehicle is in "storage/transport" mode at the beginning of the new vehicle preparation (PDI phase) or every time vehicle 12V battery has been disconnected.

Discussion: Dealer or Customer must perform the lock-to-lock procedure and drive the vehicle on a straight for about 250 – 1000 meters to calibrate steering wheel angle and ADAS systems, until pop-ups will disappear from cluster.

1. Information

The programming of the steering wheel angle is normal when:

- * The vehicle is in "storage/transport" mode or after connecting the auxiliary battery.
- * It does not result in a failure.

This document does not authorize warranty repairs. This communication documents a record of past experiences. STAR Online does not provide any conclusions about what is wrong with the vehicle. Rather, it captures all previous case details that appear to be similar or related to the vehicle symptom / condition. You are the expert, and you are responsible for deciding on the appropriate course of action.

Contact STAR Center, or your Technical Assistance Center Via TechConnect, eCONTACT or Service Library entry if no solution is found.



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Lane keeping assistance (LKA) and automatic emergency braking (AEB) have been mandatory under GSR2 since July 2024, so their warning lamps are displayed when these functions are unavailable.

Most of ADAS systems use the steering wheel angle, and their warning lamps illuminate if the angle is unknown.

The programming time is slightly longer to provide improved ADAS accuracy.

Note: The built-in systems interface (VSM1) shunt must be in "customer mode".

Repair Procedure:

- * The vehicle must have parking mode "P" activated.
- * Turn the steering wheel once to left-hand full lock, then once to right-hand full lock.
- * Distance to be covered driving about 250 – 1000 meters in a straight line approximately 30 km/h

During this distance, it is important to maintain:

- the straightest trajectory possible,
- a constant vehicle speed,
- a road surface that is level and free from irregular slopes.

- * The warning messages disappear automatically.

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* Lane departure and collision risk warnings go out automatically.

<<<NOTE>>> Time and distance required for calibration vary depending on speed consistency, steering rotation and road flatness.

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