

GENERIC · BODY

B009E

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

B009E

Right Side Restraints Sensor 5

B009E indicates that the restraint control module has detected a fault in the right-side impact sensor circuit designated as sensor 5, which is part of the supplemental restraint system (SRS) that triggers airbags and seatbelt pretensioners. The module monitors the sensor's signal and sets this code when the voltage or resistance falls outside the expected range, often due to a wiring issue or sensor failure.

SYSTEM

Body

CODE TYPE

Generic (all makes)

SEVERITY

Medium

FIX DIFFICULTY

Intermediate

AREA

Airbags, seats, doors, lights and comfort systems

Symptoms you may notice

- The airbag warning light stays illuminated on the instrument cluster.
- A message such as 'Service Airbag' or 'SRS Fault' may appear on the driver information display.
- The restraint system may be disabled, meaning airbags will not deploy in a collision.
- Often no symptoms besides the warning light, with the vehicle driving normally.
- In some cases, other restraint-related codes may be stored alongside B009E.

Common causes, most likely first

- 1 Damaged or corroded wiring or connector at the right-side impact sensor.
- 2 Failed right-side impact sensor (sensor 5).
- 3 Water intrusion or physical damage to the sensor or its connector.
- 4 Faulty restraint control module (less common).
- 5 Poor electrical connection due to loose pins or terminal tension loss.
- 6 Aftermarket accessories or previous repairs interfering with the SRS wiring.

How to diagnose and fix it

- 1 Verify the code with a scan tool and check for any related SRS codes.
- 2 Inspect the right-side impact sensor and its connector for damage, corrosion, or loose pins.
- 3 Perform a visual inspection of the wiring harness from the sensor to the restraint control module for chafing or breaks.
- 4 Measure resistance and voltage on the sensor circuit according to the manufacturer's specifications.
- 5 If the sensor is faulty, replace it and clear the code, then verify the repair.
- 6 If wiring is damaged, repair or replace the affected section and retest.
- 7 If the code persists after sensor and wiring checks, diagnose the restraint control module.



Hidden causes of right-side sensor faults

- A common oversight is assuming the sensor itself has failed when the real problem is a corroded connector or chafed wire behind a trim panel.
- Water leaks from a clogged sunroof drain or damaged door seal can corrode the sensor and set this code without any collision damage.
- The code can be set by a low battery or voltage spike during jump-starting, so always check battery health before replacing parts.
- After any SRS repair, the restraint control module may require a relearn or calibration procedure that many DIYers skip.
- B009E is often accompanied by other sensor codes if the fault is in a shared ground or power circuit, so don't focus solely on sensor 5.

Can I keep driving with B009E?

You can generally drive the vehicle, but the airbag system may be disabled, increasing the risk of injury in a crash. Avoid rough roads or any situation that could trigger a collision until the fault is repaired.

Tools that help

- OBD-II scan tool with SRS capability
- Digital multimeter
- Trim removal tools
- Socket set
- Electrical contact cleaner

Reading B009E

- B** Body: airbags, seats, doors, lights and comfort systems.
- 0** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- 0** Airbags, seats, doors, lights and comfort systems.
- 9E** The exact fault within that area.

Often seen with

B009B Left Side Restraints Sensor 5 · **B009D** Right Side Restraints Sensor 4 · **B009F** Right Side Restraints Sensor 6 · **B00A0** Occupant Classification System · **U0151** Lost Communication With Restraints Control Module



See it working

Watch the animated explainer [How Airbags Work: A 50 km/h Crash in Slow Motion](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/b009e/>

