

GENERIC · BODY

B009F

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

B009F

Right Side Restraints Sensor 6

B009F indicates that the restraints control module has detected a fault in the circuit for the right-side impact sensor number 6, 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 or connector issue rather than a failed sensor.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Body	Generic (all makes)	Medium	Professional	Airbags, seats, doors, lights and comfort systems

Symptoms you may notice

- The airbag warning light stays illuminated on the dashboard after the bulb check.
- A message such as 'Service Airbag' or 'SRS Fault' may appear on the driver information center.
- The restraints system may be disabled, meaning airbags and pretensioners will not deploy in a collision.
- Often no symptoms besides the warning light, with no change in vehicle driveability.
- In some vehicles, other restraint-related codes may also be stored, such as for the same sensor circuit.
- Intermittent warning light operation if the fault is caused by a loose connector or chafed wire.

Common causes, most likely first

- Damaged or corroded wiring harness or connector at the right-side sensor 6, often due to moisture intrusion or physical damage.
- Failed right-side restraints sensor 6 itself, though this is less common than wiring issues.
- Poor electrical connection at the restraints control module, such as a loose or corroded terminal.
- Open or short circuit in the sensor circuit, including a broken wire or short to ground or power.
- Water intrusion into the sensor connector or module, leading to signal corruption.
- Aftermarket accessories or previous repairs that disturbed the SRS wiring.
- Internal fault in the restraints control module, which is rare but possible.



How to diagnose and fix it

- 1 Verify the code with a scan tool that can read SRS codes, and record any freeze-frame data if available.
- 2 Visually inspect the right-side sensor 6 and its wiring for damage, corrosion, or loose connectors; repair or replace as needed.
- 3 Disconnect the battery and wait for the recommended time, then check resistance and voltage on the sensor circuit according to the manufacturer's service information.
- 4 Perform a wiggle test on the harness and connectors while monitoring sensor data to identify intermittent faults.
- 5 If the circuit tests good, substitute a known-good sensor and clear the code to see if it returns.
- 6 Check the restraints control module connectors for tightness and corrosion, and repair any issues found.
- 7 After repairs, clear the code and perform a road test to confirm the warning light stays off and no codes reset.

What Most Techs Miss on B009F

- A loose or corroded connector at the sensor is far more often the culprit than a failed sensor, so always inspect the plug before condemning the part.
- The right-side sensor 6 may be located in the B-pillar, door, or rear quarter panel depending on the vehicle, and its exact position affects which harness section to inspect.
- B009F can be set by a low battery or charging system issue that causes a momentary voltage drop, so check battery health and grounds before diving into SRS diagnostics.
- After any SRS repair, the code may not clear until the module sees a valid signal during a self-test, which often requires cycling the ignition and waiting.
- Do not probe SRS connectors with a standard test light; use a high-impedance digital multimeter to avoid accidental deployment or module damage.

Can I keep driving with B009F?

The vehicle remains driveable, but the airbag system may be partially disabled, so avoid rough roads and any situation that could trigger a collision until the fault is repaired. Have the system diagnosed promptly to restore full restraint protection.

Tools that help

- SRS-capable scan tool
- Digital multimeter with high-impedance setting
- Battery disconnect tool or wrench
- Trim removal tools for accessing sensors
- Manufacturer service information for circuit diagrams and resistance specifications



Reading B009F

- 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.
- 9F** The exact fault within that area.

Often seen with

B009B Left Side Restraints Sensor 5 · **B009C** Left Side Restraints Sensor 6 · **B009D** Right Side Restraints Sensor 4 · **B009E** Right Side Restraints Sensor 5 · **B00A0** Occupant Classification System

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/b009f/>

