

GENERIC · BODY

B00B7

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

B00B7

Driver Seat Occupant Position Sensor A

B00B7 indicates that the body control module (BCM) or occupant detection module has detected an out-of-range or implausible signal from the driver seat occupant position sensor, often called the seat track position sensor. The computer compares the sensor voltage against expected values for the seat's fore-aft position and sets the code when the reading falls outside the valid range or fails a rationality check.

SYSTEM

Body

CODE TYPE

Generic (all makes)

SEVERITY

Medium

FIX DIFFICULTY

Intermediate

AREA

Airbags, seats, doors, lights and comfort systems

Symptoms you may notice

- Airbag warning light illuminated on the instrument cluster
- Passenger airbag may be automatically disabled even when the seat is occupied
- Seat position memory or easy-entry feature may not function correctly
- Intermittent warning light that comes and goes over bumps or when adjusting the seat
- Often no symptoms besides the warning light

Common causes, most likely first

- 1 Faulty driver seat position sensor (internal wear or damaged sensing element)
- 2 Damaged or chafed wiring harness under the seat, often from seat movement or debris
- 3 Loose or corroded electrical connector at the sensor or under the seat
- 4 Seat track mechanical damage or foreign object obstructing sensor travel
- 5 Failed body control module or occupant detection module (less common)
- 6 Aftermarket seat covers or accessories interfering with sensor operation

How to diagnose and fix it

- 1 Inspect the under-seat wiring and connectors for damage, corrosion, or loose pins; repair as needed
- 2 Check the sensor mounting and seat track for debris or mechanical binding that could affect sensor movement
- 3 Measure the sensor signal voltage with a multimeter while moving the seat through its full range and compare to manufacturer specifications
- 4 Perform a resistance check on the sensor circuit to rule out open or shorted wiring
- 5 Replace the driver seat position sensor if it fails electrical or mechanical testing
- 6 Clear the code and verify the airbag warning light stays off after a test drive and seat adjustment cycle
- 7 If the code persists, follow the manufacturer's diagnostic flow for the body control module or occupant detection system

Before you replace the seat position sensor

- A common oversight is assuming the sensor itself is faulty when the real problem is a chafed wire under the seat that only shorts when the seat is moved to a specific position.
- The driver seat position sensor directly influences airbag deployment strategy, so a false reading can cause the airbag to deploy with inappropriate force or not at all in some systems.
- After a collision repair or seat removal, the sensor connector may be left unplugged or the sensor may be reinstalled incorrectly, setting this code without any component failure.
- Some vehicles use a hall-effect sensor that can be tested with a simple magnet; a sensor that does not toggle its output when a magnet is passed near it is defective.
- The code can be set by a weak or failing battery if voltage drops during cranking cause the module to log implausible sensor data; always check battery health before condemning parts.

Can I keep driving with B00B7?

The vehicle remains driveable, but the airbag system may not protect the driver optimally in a crash because deployment force could be miscalculated. Avoid hard braking or sudden maneuvers that could trigger airbag deployment until the fault is repaired, and have the system diagnosed promptly.

Tools that help

- OBD-II scan tool with body code capability
- Digital multimeter
- Trim removal tools
- Torx or hex bit set for seat hardware
- Service information for seat position sensor specifications

Reading B00B7

- 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.
- B7** The exact fault within that area.

Often seen with

B00B5 Driver Seat Track Position Restraints Sensor · **B00B6** Driver Seat Recline Position Restraints Sensor · **B00B8** Driver Seat Occupant Position Sensor B · **B00B9** Driver Seat Occupant Position Sensor C · **B00BA** Driver Seat Occupant Position Sensor D



See it working

Watch the animated explainer [How a Coolant Temperature Sensor Works](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/b00b7/>

