

GENERIC · BODY

B00C0

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

B00C0

Passenger Seat Occupant Classification Sensor A

B00C0 indicates that the occupant classification system for the passenger seat has detected a fault with Sensor A, which is part of the weight-sensing mat or bladder in the seat cushion. The computer compares the sensor's signal against expected values and sets this code when the reading is out of range, erratic, or missing entirely.

SYSTEM

Body

CODE TYPE

Generic (all makes)

SEVERITY

Medium

FIX DIFFICULTY

Professional

AREA

Airbags, seats, doors, lights and comfort systems

Symptoms you may notice

- The airbag warning light is illuminated on the dashboard.
- The passenger airbag may be disabled even when an adult is seated, shown by a 'passenger airbag off' indicator.
- The passenger airbag may remain enabled when the seat is empty, increasing injury risk in a crash.
- In some vehicles, a chime or message warns that the passenger airbag is off.
- Often no symptoms besides the warning light, with the system otherwise functioning normally.

Common causes, most likely first

- 1 A damaged or contaminated occupant classification sensor mat or bladder in the passenger seat cushion.
- 2 A loose, corroded, or disconnected electrical connector under the passenger seat.
- 3 Wiring damage from seat movement, spills, or pinched harness under the seat.
- 4 A failed occupant classification control module or sensor interface unit.
- 5 Improper previous seat repairs or aftermarket seat covers interfering with the sensor.
- 6 A low or unstable battery voltage causing temporary sensor faults.



How to diagnose and fix it

- 1 Inspect the under-seat connectors for the occupant classification system for looseness, corrosion, or damage and reseat them.
- 2 Check for stored codes in all modules and record freeze-frame data to understand when the fault occurs.
- 3 Perform a visual inspection of the passenger seat cushion and sensor mat for tears, spills, or contamination.
- 4 Use a scan tool to view live occupant classification sensor data and compare with a known-good vehicle or service information.
- 5 Follow the manufacturer's diagnostic flow chart for B00C0, which may include resistance and voltage checks at the sensor and module.
- 6 If the sensor mat is faulty, replace it according to service procedures, which often require seat disassembly.
- 7 After repair, clear codes and perform occupant classification system calibration or zero-point reset as required.

Common misdiagnosis traps for B00C0

- A common mistake is replacing the occupant classification module when the real problem is a chafed wire under the seat that only loses contact when the seat is moved.
- Spills or moisture in the seat cushion can damage the sensor mat and set this code without any visible external damage.
- Aftermarket seat covers or heavy objects left on the passenger seat can cause the system to set false codes by altering the sensed weight.
- The code can be set by a weak battery or charging system issue, so always verify battery voltage and connections before condemning sensors.
- Some vehicles require a relearn or calibration procedure after any seat or sensor work, and skipping it will cause the code to return.

Can I keep driving with B00C0?

The vehicle is generally safe to drive, but the passenger airbag may not deploy correctly in a crash, so avoid carrying passengers in the front seat until the fault is repaired. Have the system diagnosed promptly to restore proper airbag function.

Tools that help

- OBD-II scan tool with live data and bidirectional control capabilities
- Digital multimeter for resistance and voltage checks
- Service information with wiring diagrams and diagnostic flow charts
- Trim removal tools for seat disassembly
- Torque wrench for seat bolt reinstallation



Reading B00C0

- 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.
- C0** The exact fault within that area.

Often seen with

B00C1 Passenger Seat Occupant Classification Sensor B · **B00C2** Passenger Seat Occupant Classification Sensor C · **B00C3** Passenger Seat Occupant Classification Sensor D · **B00C4** Passenger Seat Occupant Classification Sensor E · **B00C5** Passenger Seat Track Position Restraints Sensor

See it working

Watch the animated explainer [How an Oxygen Sensor Works: Live 3D Cutaway](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/b00c0/>

