

GENERIC · BODY

B007F

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

B007F

Passenger Seat Belt Pretensioner C Deployment Control

B007F indicates that the restraint control module has detected a fault in the deployment circuit for the passenger seat belt pretensioner on the C side, which is the circuit responsible for firing the pretensioner during a collision. The module monitors the circuit's resistance and continuity and sets this code when the measured values fall outside the expected range, disabling deployment for that pretensioner.

SYSTEM

Body

CODE TYPE

Generic (all makes)

SEVERITY

High

FIX DIFFICULTY

Professional

AREA

Airbags, seats, doors, lights and comfort systems

Symptoms you may notice

- The supplemental restraint system (SRS) warning light stays illuminated on the dashboard.
- A chime or message may appear indicating a restraint system fault.
- The passenger seat belt pretensioner will not deploy in a collision, increasing injury risk.
- Often no symptoms besides the warning light, with the vehicle driving normally.
- Other restraint functions may be affected if the fault is widespread, but usually only the passenger pretensioner circuit is disabled.

Common causes, most likely first

- 1 Damaged or disconnected wiring harness at the passenger seat belt pretensioner connector.
- 2 Corroded or loose electrical connector pins at the pretensioner or control module.
- 3 Open or shorted pretensioner squib (the actual deployment element) due to impact or moisture.
- 4 Faulty restraint control module (also called airbag control module) internal circuit for the passenger pretensioner.
- 5 Aftermarket accessories or seat removal that disturbed the pretensioner wiring.
- 6 Water intrusion or physical damage to the floor harness near the passenger seat.



How to diagnose and fix it

- 1 Inspect the passenger seat belt pretensioner connector and wiring for damage, corrosion, or loose pins; clean or repair as needed.
- 2 Disconnect the battery and wait for the system to discharge, then measure resistance across the pretensioner squib to check for an open or short.
- 3 Check continuity and resistance of the harness between the pretensioner and the restraint control module; repair any open or shorted wires.
- 4 Substitute a known-good pretensioner or use a simulator to see if the code changes, confirming whether the squib or module is at fault.
- 5 If the harness and pretensioner test good, replace the restraint control module and perform programming or calibration as required.
- 6 Clear the code and verify the SRS light goes out and stays off after a test drive.

What most technicians miss on B007F

- A common oversight is assuming the pretensioner itself is bad when the real problem is a corroded connector under the passenger seat that was disturbed during cleaning or seat adjustment.
- The code can be set by a low battery or voltage spike during jump-starting, so always check for other low-voltage codes before condemning the pretensioner.
- After any repair, the restraint control module may require a learn or calibration procedure; skipping it can leave the light on even with a good circuit.
- Never use a standard ohmmeter to probe a live airbag or pretensioner circuit; always disconnect the battery and follow the manufacturer's discharge procedure to avoid accidental deployment.
- This code does not always mean the pretensioner is defective; a poor ground connection at the module or chassis can mimic a circuit fault.

Can I keep driving with B007F?

The vehicle is safe to drive in normal conditions because the pretensioner only matters in a crash, but the passenger seat belt pretensioner will not deploy, increasing injury risk for the front passenger. Avoid carrying a passenger in the front seat until the fault is repaired, and have the system diagnosed promptly.

Tools that help

- OBD-II scan tool with SRS capability
- Digital multimeter
- SRS simulator or load tool
- Battery disconnect tool and memory saver
- Trim removal tools
- Manufacturer service information for wiring diagrams and procedures



Reading B007F

- 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.
- 7F** The exact fault within that area.

Often seen with

B0079 Driver Seat Belt Pretensioner B Deployment Control · **B007E** Driver Seat Belt Pretensioner C Deployment Control · **B0080** Driver Seat Belt Load Limiter Deployment Control · **B0081** Front Passenger Belt Switch Circuit · **B0082** Passenger Seatbelt Pretensioner Loop Open

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/b007f/>

