

GENERIC · BODY

B002A

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

B002A

Right Curtain Deployment Control 2

B002A indicates that the restraints control module has detected a fault in the second deployment control circuit for the right-side curtain airbag, which is the inflator loop that fires the curtain to protect occupants' heads in a side impact. The module monitors circuit resistance and continuity and sets this code when the signal falls outside the expected range, so the airbag may not deploy correctly in a crash.

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

Symptoms you may notice

- Airbag warning light illuminated steadily on the instrument cluster
- Often no symptoms besides the warning light, with no change in how the vehicle drives
- Passenger airbag or curtain airbag status indicator showing a fault or 'off' condition
- A stored history of intermittent airbag warnings after driving over rough roads or hitting a curb
- In some vehicles, a chime or message reminding you to service the restraint system

Common causes, most likely first

- Damaged or chafed wiring in the right curtain airbag deployment circuit, often at the roof rail or pillar pass-through
- Loose, corroded or unseated electrical connector at the right curtain airbag inflator or at the restraints control module
- Open or shorted clock spring or spiral cable affecting the side airbag circuit on some layouts
- Failed right curtain airbag inflator or module with an internal open circuit
- Water intrusion or corrosion in the roof rail harness causing high resistance in the deployment loop
- Restraints control module internal fault or corrupted configuration after a battery or module replacement
- Aftermarket accessories or previous body repair that disturbed the curtain airbag harness



How to diagnose and fix it

- 1 Scan all modules and record freeze-frame data and any related body codes before clearing anything
- 2 Inspect the right curtain airbag connector and roof rail harness for looseness, corrosion, chafing or water intrusion
- 3 Measure deployment circuit resistance at the inflator connector with the battery disconnected and the module isolated, comparing to the manufacturer's specification
- 4 Perform a wiggle and continuity test on the harness while watching live resistance or code status to catch intermittent faults
- 5 Check the restraints control module connector and ground points for tightness and corrosion
- 6 If the circuit tests good, substitute a known-good inflator or module only per the service procedure, never with the system powered
- 7 Clear codes, verify the repair with a full scan and a road test over rough surfaces, and confirm the airbag light stays off

Why the curtain airbag light comes back

- A common miss is a connector that looks seated but has a backed-out terminal, so always pull-test the pins rather than trusting the latch alone.
- Body shops often pinch the roof rail harness during headliner or pillar trim work, creating a high-resistance fault that only appears after the repair.
- The code does not always mean the airbag itself is bad; a corroded ground or a low battery during module programming can set a false deployment-circuit fault.
- Some vehicles require the restraints control module to be configured or learned after replacement, and skipping that step leaves B002A stored even with good hardware.
- Never probe airbag deployment circuits with a powered test light or ordinary ohmmeter unless the manufacturer's procedure allows it, because the inflator can deploy unexpectedly.

Can I keep driving with B002A?

The vehicle is drivable, but the right curtain airbag may not deploy in a side impact, so avoid aggressive driving and have the fault diagnosed promptly. Do not attempt to repair or disconnect airbag wiring yourself unless you are trained and the battery has been properly isolated.

Tools that help

- OBD-II scan tool with body and airbag module capability
- Digital multimeter with low-ohm and continuity functions
- Manufacturer service information and wiring diagrams
- Terminal pull-test tools and contact cleaner
- Battery isolation and airbag safety equipment



Reading B002A

- 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.
- 2A** The exact fault within that area.

Often seen with

B0020 Passenger Frontal Stage 1 Deployment Control Circuit · **B0021** Left Side Deployment Stage 1 Control · **B0028** Driver Side Curtain Air Bag Deployment Control · **B0029** Right Side Curtain Air Bag Deployment Control · **B0051** Driver Frontal Deployment Control 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/b002a/>

