

GENERIC · POWERTRAIN

P2512

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P2512

Event Data Recorder Request Circuit/ Open

P2512 indicates that the event data recorder (EDR) request circuit has an open circuit, meaning the powertrain control module (PCM) cannot detect the expected voltage or continuity on the wire that triggers the EDR to record data during a crash event. The PCM sets this code when it commands the EDR and does not see the correct electrical response, typically because the circuit is broken or disconnected.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Generic (all makes)	Low	Intermediate	Vehicle speed, idle control and auxiliary inputs

Symptoms you may notice

- Illumination of the malfunction indicator lamp (MIL) on the dashboard.
- Often no symptoms besides the warning light, as the EDR is a passive system.
- In rare cases, the EDR may fail to record data during a collision, which may be noticed only after an incident.
- Some vehicles may display a message indicating a restraint system or data recording fault.
- No noticeable change in engine performance or drivability.

Common causes, most likely first

- 1 Broken or disconnected wire in the EDR request circuit.
- 2 Corroded or damaged connector terminals at the PCM or EDR module.
- 3 Faulty event data recorder module.
- 4 Open circuit inside the PCM affecting the request output.
- 5 Aftermarket electronic devices improperly wired into the circuit.
- 6 Rodent damage to wiring harness.

How to diagnose and fix it

- 1 Inspect the EDR request circuit wiring for visible damage, corrosion, or disconnection.
- 2 Check and clean the connectors at both the PCM and EDR module.
- 3 Use a multimeter to test continuity of the request circuit from the PCM to the EDR.
- 4 Verify power and ground supplies to the EDR module.
- 5 If continuity is good, test the PCM output signal with an oscilloscope or scan tool bidirectional controls.
- 6 Replace the EDR module if it fails to respond to a known-good request signal.
- 7 Repair or replace the PCM if it cannot generate the correct request signal.



EDR Circuit Checks Before Module Replacement

- A common misdiagnosis is replacing the EDR module when the actual fault is a chafed wire under the dash or seat where the harness rubs.
- The EDR request circuit is often shared with the airbag system, so a related airbag code may also be present and should be diagnosed first.
- Some vehicles require the EDR to be initialized or programmed after replacement, and a used module may not work without proper configuration.
- Intermittent open circuits can be caused by loose pins that only lose contact during vibration, so wiggle-testing the harness while monitoring the circuit is essential.
- The code can set if the battery was disconnected while the ignition was on, causing a momentary loss of communication that the PCM interprets as an open circuit.

Can I keep driving with P2512?

The vehicle is safe to drive under normal conditions because the EDR is a passive safety device that does not affect engine operation or braking. However, avoid any situation where crash data recording might be critical, and have the fault repaired promptly to ensure the EDR functions in an accident.

Tools that help

- OBD-II scan tool with bidirectional controls
- Digital multimeter
- Oscilloscope
- Wiring diagram for the specific vehicle
- Trim removal tools

Reading P2512

- P** Powertrain: engine, transmission and emissions.
- 2** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- 5** Vehicle speed, idle control and auxiliary inputs.
- 12** The exact fault within that area.

Often seen with

P2513 Event Data Recorder Request Circuit Low · **P2514** Event Data Recorder Request Circuit High · **P2515** A/C Refrigerant Pressure Sensor 'B' Circuit · **U0151** Lost Communication With Restraints Control Module



See it working

Watch the animated explainer [How a Wideband Air-Fuel Sensor Works](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p2512/>

