

GENERIC · BODY

B0210

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

B0210

Rain Sensor Module

B0210 indicates that the body control module (BCM) or rain sensor control module has detected a fault within the rain sensor module circuit, which is responsible for detecting moisture on the windshield and triggering the wipers. The computer typically sets this code when the rain sensor's signal is missing, out of range, or inconsistent with expected values during the wiper system's self-test.

SYSTEM

Body

CODE TYPE

Generic (all makes)

SEVERITY

Low

FIX DIFFICULTY

Intermediate

AREA

Airbags, seats, doors, lights and comfort systems

Symptoms you may notice

- The windshield wipers may not activate automatically in rain, requiring manual operation.
- The wiper speed may stay fixed in one mode regardless of how hard it rains.
- The rain sensor warning light or a generic wiper system fault message may appear on the dashboard.
- Intermittent wiper function may behave erratically, such as pausing too long or wiping too frequently.
- Often no symptoms besides the warning light, especially if the driver rarely uses automatic wiper mode.
- The wipers may run continuously even when the windshield is dry, or stop mid-cycle unexpectedly.

Common causes, most likely first

- 1 A dirty, fogged, or obstructed rain sensor lens on the inside of the windshield, which is the most common cause.
- 2 A failed rain sensor module due to internal electronics or moisture damage.
- 3 Damaged or corroded wiring and connectors between the rain sensor and the body control module.
- 4 A blown fuse or poor ground connection serving the rain sensor circuit.
- 5 A windshield replacement where the sensor was not properly reattached or calibrated.
- 6 A software or calibration issue in the body control module that misinterprets the sensor signal.
- 7 A faulty body control module that cannot process the rain sensor input correctly.



How to diagnose and fix it

- 1 Inspect the windshield area in front of the rain sensor for dirt, debris, or air bubbles and clean the glass and sensor lens with a soft cloth and appropriate cleaner.
- 2 Check the rain sensor fuse and ground connections using a wiring diagram, and replace any blown fuse or repair a poor ground.
- 3 Visually inspect the sensor connector and harness for corrosion, loose pins, or chafed wires, and repair as needed.
- 4 Use a scan tool to read live data from the rain sensor and compare it with expected values while simulating moisture on the windshield.
- 5 Perform a relearn or calibration procedure for the rain sensor using the scan tool if the vehicle supports it, especially after windshield work.
- 6 If the sensor signal is absent or erratic and wiring is good, substitute a known-good rain sensor module to confirm the fault.
- 7 If the sensor and wiring test good but the code persists, diagnose the body control module for internal faults or software updates.

Before you replace the rain sensor module

- A surprising number of B0210 codes are fixed simply by cleaning the sensor lens and the windshield glass, because dirt or condensation blocks the infrared signal.
- After a windshield replacement, the rain sensor often needs a calibration or relearn procedure that many shops overlook, leading to a false B0210.
- The rain sensor shares power or ground with other body systems on some vehicles, so a fault elsewhere can set this code even when the sensor itself is fine.
- A weak or failing battery can cause voltage drops that upset the rain sensor module and set B0210 without any physical sensor problem.
- The code does not always mean the sensor is dead; it can be stored intermittently due to a loose connector that only acts up in wet or humid conditions.

Can I keep driving with B0210?

You can generally keep driving because the wipers still work manually, but you should avoid relying on automatic wiper mode until the fault is repaired. In heavy rain, be prepared to adjust wiper speed yourself to maintain clear visibility.



Tools that help

- OBD-II scan tool with live data capability
- Digital multimeter
- Trim removal tool set
- Soft lint-free cloth and plastic-safe cleaner
- Wiring diagram for the rain sensor circuit

Reading B0210

- B** Body: airbags, seats, doors, lights and comfort systems.
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- 0** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
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- 2** Airbags, seats, doors, lights and comfort systems.
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- 10** The exact fault within that area.

See it working

Watch the animated explainer [How a Supercharger Works: Roots Blower in X-Ray](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/b0210/>

