

GENERIC · CHASSIS

C065F

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

C065F

Left Rear Wheel Speed Sensor B Circuit/Open

C065F indicates that the anti-lock brake system (ABS) control module has detected an open circuit or abnormal voltage on the left rear wheel speed sensor's 'B' signal circuit. The module monitors the sensor's output and flags this code when the signal is missing, intermittent, or outside the expected range, which prevents reliable wheel speed data for that corner.

SYSTEM

Chassis

CODE TYPE

Generic (all makes)

SEVERITY

Medium

FIX DIFFICULTY

Intermediate

AREA

Brakes, steering and suspension

Symptoms you may notice

- ABS warning light illuminated on the dashboard
- Traction control or stability control warning light also on
- Often no symptoms besides the warning light
- ABS may deactivate, leading to wheel lockup during hard braking
- Traction control may not engage, causing wheel spin on slippery surfaces
- Intermittent speedometer fluctuation if the sensor signal is erratic

Common causes, most likely first

- 1 Damaged or corroded wiring harness at the left rear wheel speed sensor connector
- 2 Open circuit in the sensor pigtail or main harness between the sensor and ABS module
- 3 Failed left rear wheel speed sensor
- 4 Debris or metallic particles on the sensor tip or tone ring
- 5 Damaged tone ring (reluctor) on the left rear hub or axle
- 6 Water intrusion or corrosion inside the sensor connector
- 7 Faulty ABS control module (less common)



How to diagnose and fix it

- 1 Inspect the left rear wheel speed sensor connector and wiring for corrosion, damage, or loose pins
- 2 Check the sensor's resistance and compare to the manufacturer's specification
- 3 Perform a visual inspection of the tone ring for cracks, missing teeth, or debris
- 4 Back-probe the sensor circuit at the ABS module and check for continuity and short to ground
- 5 Clear the code and test-drive while monitoring live wheel speed data to see if the signal drops out
- 6 Replace the left rear wheel speed sensor if resistance or signal is out of specification
- 7 Repair or replace damaged wiring harness sections and re-test the system

What the code does not always mean

- A code for an open circuit does not automatically mean the sensor has failed; a corroded connector or chafed wire is a frequent culprit.
- Metallic debris on the sensor tip can mimic an open circuit by disrupting the magnetic signal, so clean the sensor before condemning it.
- The 'B' circuit designation may refer to a secondary signal line on some sensors, so consult the specific wiring diagram for your vehicle.
- Intermittent faults often appear only when the suspension flexes or the wheel turns, so wiggle-test the harness while watching live data.
- A failing tone ring can produce the same code as a bad sensor, and replacing the sensor alone will not fix the problem.

Can I keep driving with C065F?

You can usually drive the vehicle with this code, but the ABS and traction control systems may be disabled, increasing stopping distances on slippery surfaces. Avoid hard braking or aggressive driving until the fault is repaired.

Tools that help

- OBD-II scan tool with ABS live data capability
- Digital multimeter
- Jack and jack stands
- Wire probe set
- Vehicle-specific wiring diagram



Reading C065F

- C** Chassis: brakes, steering and suspension.
- 0** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- 6** Brakes, steering and suspension.
- 5F** The exact fault within that area.

Often seen with

C0035 Left Front Wheel Speed Sensor Circuit Range/Performance · **C0040** Left Rear Wheel Speed Sensor Circuit · **C065E** Right Front Wheel Speed Sensor B Incorrect Component Install · **C0660** Park Brake Switch Circuit · **P0500** Vehicle Speed Sensor Malfunction

See it working

Watch the animated explainer [How ABS Works: Anti-Lock Brakes in X-Ray](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/c065f/>

