

CHRYSLER · POWERTRAIN

P1394

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1394 · Chrysler

Wheel Speed Sensor 1, G-Sensor Circuit Intermittent

P1394 on Chrysler vehicles indicates an intermittent fault in the circuit for Wheel Speed Sensor 1 or the G-Sensor (gravity sensor, also called a yaw or accelerometer sensor used by the ABS/stability system). The ABS control module detected a signal that drops out or becomes erratic, but not a hard failure, so the warning light may come and go.

SYSTEM

Powertrain

CODE TYPE

Chrysler specific

SEVERITY

Medium

FIX DIFFICULTY

Intermediate

AREA

Ignition system and misfire

Symptoms you may notice

- Anti-lock brake (ABS) warning light may illuminate intermittently or stay on
- Traction control or stability control (ESC) warning light may come on
- Speedometer needle may flicker or drop out briefly
- ABS may activate unexpectedly at low speeds or during light braking
- Cruise control may disengage or fail to engage
- Often no symptoms besides the warning light, especially if the fault is momentary

Common causes, most likely first

- 1 Damaged or chafed wiring harness at the wheel speed sensor connector or along the suspension travel path
- 2 Corroded or loose electrical connector at the wheel speed sensor or G-sensor
- 3 Failing wheel speed sensor due to debris, metallic particles, or internal intermittent open circuit
- 4 Worn or damaged sensor tone ring (reluctor ring) causing a weak or erratic signal
- 5 Intermittent fault inside the G-sensor (accelerometer) or its mounting
- 6 Poor ground connection for the ABS module or sensor return circuit
- 7 Internal intermittent fault in the ABS control module (less common)



How to diagnose and fix it

- 1 Inspect the wheel speed sensor wiring and connector at the affected wheel for chafing, corrosion, or loose pins; repair as needed
- 2 Check the G-sensor connector and mounting for looseness or corrosion, and verify the sensor is securely fastened
- 3 Clean the wheel speed sensor and tone ring of metallic debris or dirt, and inspect the ring for cracks or missing teeth
- 4 Perform a wiggle test on the sensor harness while monitoring live wheel speed data with a scan tool to reproduce the intermittent signal
- 5 Measure the sensor resistance and compare to specification, and check for intermittent opens or shorts while flexing the harness
- 6 Verify the G-sensor signal with a scan tool during a road test, looking for dropouts or erratic readings
- 7 If all external checks pass, suspect the ABS control module and perform a pinpoint test before replacement

Intermittent faults hide in plain sight

- A wheel speed sensor that tests fine when stationary can still be intermittent due to a broken wire inside the insulation that only opens when the suspension moves.
- The G-sensor on Chrysler vehicles is often mounted under the center console or seat, and spilled drinks or loose cargo can damage its connector or mounting.
- Debris stuck to the tone ring or sensor tip is a frequent cause of intermittent wheel speed codes that many technicians overlook during a quick visual inspection.
- This code can be set by a low battery or charging system glitch that causes a momentary voltage drop to the ABS module, so always check battery health and grounds first.
- Do not replace the ABS module based solely on P1394; the intermittent nature means the root cause is usually in the wiring or sensor, not the module itself.

Can I keep driving with P1394?

You can usually drive with P1394, but the ABS and stability control may be disabled when the light is on, so avoid hard braking or slippery conditions and get it diagnosed soon. If the brake pedal feels abnormal or the light stays on constantly, treat it as a priority.

Tools that help

- OBD-II scan tool with live data and ABS capability
- Digital multimeter
- Jack and jack stands or a lift
- Wire terminal pick and electrical contact cleaner
- Manufacturer-specific wiring diagram for the ABS circuit



Reading P1394

- P** Powertrain: engine, transmission and emissions.
- 1** Manufacturer-specific code (Chrysler): its meaning depends on the make.
- 3** Ignition system and misfire.
- 94** The exact fault within that area.

Often seen with

P1395 Ignition Coil Power Output Stage 3 Malfunction · **P1396** Engine Speed Sensor Missing Tooth · **P1396** Variable Valve Timing Solenoid B Circuit · **P1395** Wheel Speed Sensor 2 G-Sensor Circuit · **P1396** Wheel Speed Sensor 2 G-Sensor Circuit Performance · **P1395** Glow Plug Monitor Fault Bank 1 · **P1396** Glow Plug Monitor Fault Bank 2 · **P1395** Wheel Speed Sensor 2, G-Sensor Circuit · **P1396** Wheel Speed Sensor 2, G-Sensor Circuit Performance · **P1396** Crankshaft Position Sensor Segment Timing Plausibility · **C0035** Left Front Wheel Speed Sensor Circuit Range/Performance · **C0040** Left Rear Wheel Speed Sensor 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/chrysler-p1394/>

