

CHRYSLER · POWERTRAIN

P1335

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1335 · Chrysler

CKP Circuit

P1335 on Chrysler vehicles indicates that the powertrain control module has detected a fault in the crankshaft position sensor circuit, which it uses to determine engine speed and piston position for fuel delivery and ignition timing. The computer monitors the signal voltage and timing from the CKP sensor and sets this code when the signal is missing, erratic, or out of expected range.

SYSTEM

Powertrain

CODE TYPE

Chrysler specific

SEVERITY

High

FIX DIFFICULTY

Intermediate

AREA

Ignition system
and misfire

Symptoms you may notice

- Engine cranks but does not start, or starts after a long crank
- Intermittent stalling while driving or at idle
- Rough running, misfiring, or loss of power
- Tachometer needle jumps erratically or stays at zero
- Often no symptoms besides the warning light, especially if the fault is intermittent

Common causes, most likely first

- 1 Faulty crankshaft position sensor
- 2 Damaged or corroded CKP sensor wiring or connector
- 3 Metal debris or damage on the sensor tip or reluctor wheel
- 4 Worn or damaged reluctor ring teeth on the crankshaft
- 5 Poor ground connection at the sensor or engine block
- 6 Failed PCM driver circuit (rare)

How to diagnose and fix it

- 1 Scan all modules for stored and pending codes, and record freeze-frame data
- 2 Inspect the CKP sensor connector and wiring for corrosion, chafing, or loose pins
- 3 Check the sensor air gap and clean any metal debris from the sensor tip
- 4 Measure sensor resistance and compare to specification, then check for signal with a lab scope while cranking
- 5 Verify power and ground at the sensor connector with a multimeter
- 6 Replace the crankshaft position sensor if signal is absent or erratic
- 7 Clear codes and perform a road test to confirm the repair



CKP sensor diagnosis pitfalls on Chrysler engines

- A P1335 can be set by a simple loose or corroded connector pin that causes an intermittent signal, so always wiggle-test the harness while watching live data before condemning the sensor.
- Metal shavings or a damaged reluctor wheel can mimic a failed sensor, and replacing the sensor without cleaning the mounting area often leads to a repeat code.
- On some Chrysler engines, a failing camshaft position sensor or a stretched timing chain can cause a CKP code to set because the PCM cross-checks the two signals and flags a correlation fault.
- The CKP sensor on many Chrysler models is located behind the starter or near the oil filter, making it vulnerable to oil leaks and heat damage that can cause intermittent failures.
- A weak battery or poor engine ground can cause a crank-no-start condition that sets P1335 even though the sensor itself is fine, so always verify battery and ground integrity first.

Can I keep driving with P1335?

If the engine stalls or fails to start, do not continue driving because a sudden loss of crankshaft signal can cause the engine to shut off without warning. If the vehicle is running but the light is on, drive only to a safe location or repair shop and avoid high-speed or heavy-load driving.

Tools that help

- OBD-II scan tool with live data capability
- Digital multimeter
- Lab scope (oscilloscope)
- Basic hand tools and socket set
- Feeler gauge for air gap measurement

Reading P1335

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

Often seen with

P1391 CMP Sensor Bank 2 Short To Ground · **P1391** Intermittent Loss Of CMP Or CKP Sensor Signals · **P1391** Wheel Speed Sensor 1 G-Sensor Circuit Performance · **P1391** Glow Plug Circuit Low Input Bank 1 · **P1391** Intermittent Loss of CMP Or CKP · **P0016** Crankshaft/Camshaft Position Correlation (Bank 1 Sensor A) · **P0335** Crankshaft Position Sensor A Circuit Malfunction · **P0336** Crankshaft Position Sensor A Circuit Range/Performance · **P0340** Camshaft Position Sensor A Circuit Malfunction (Bank 1)



See it working

Watch the animated explainer [How Push-Button Start Works: Keyless Ignition](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/chrysler-p1335/>

