

NISSAN · POWERTRAIN

P1336

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1336 · Nissan

Crankshaft Position Sensor CKPS

P1336 on Nissan vehicles indicates that the engine control module (ECM) has detected a problem with the crankshaft position sensor (CKPS) circuit or signal. The ECM monitors the CKPS signal to determine engine speed and piston position for ignition and fuel injection timing, and it sets this code when the signal is missing, erratic, or out of expected range.

SYSTEM

Powertrain

CODE TYPE

Nissan specific

SEVERITY

Medium

FIX DIFFICULTY

Intermediate

AREA

Ignition system
and misfire

Symptoms you may notice

- Illumination of the check engine light, often with no other noticeable symptoms
- Engine cranks but fails to start or requires extended cranking
- Intermittent engine stalling, especially at idle or low speeds
- Rough running or misfiring due to incorrect ignition timing
- Reduced engine performance and poor fuel economy
- In some cases, the engine may start normally and run fine until the fault recurs

Common causes, most likely first

- 1 Faulty crankshaft position sensor (CKPS) due to heat, contamination, or internal failure
- 2 Damaged or corroded CKPS electrical connector or wiring harness
- 3 Metal debris or damage on the crankshaft reluctor ring (tone wheel) interfering with the signal
- 4 Excessive air gap between the sensor and the reluctor ring
- 5 Wiring short to ground or open circuit in the CKPS signal or reference voltage circuit
- 6 Failed ECM (rare, but possible if all other causes are ruled out)

How to diagnose and fix it

- 1 Perform a visual inspection of the CKPS, its connector, and wiring for damage, corrosion, or loose pins
- 2 Check for technical service bulletins (TSBs) or recalls related to the CKPS on the specific Nissan model
- 3 Use a scan tool to view live CKPS signal data and check for erratic or missing pulses while cranking
- 4 Measure the CKPS resistance and compare to factory specifications (if applicable) and check the air gap
- 5 Inspect the reluctor ring for cracks, missing teeth, or metal debris and clean or replace as needed
- 6 Test the CKPS signal circuit for continuity, short to ground, and short to power using a multimeter
- 7 Replace the CKPS if tests indicate it is faulty, then clear the code and verify repair with a test drive



Common misdiagnosis traps for P1336

- A weak or failing battery or poor engine ground can cause a crank signal fault that mimics a bad CKPS, so always check battery voltage and grounds first.
- Aftermarket crankshaft position sensors are known to cause repeat failures on Nissans; using an OEM sensor is often the only reliable fix.
- The CKPS signal can be disrupted by a failing camshaft position sensor or a stretched timing chain, which may set P1336 without the CKPS itself being defective.
- Intermittent P1336 codes that appear only in hot weather or after long drives often point to a sensor that breaks down with heat, not a wiring issue.
- Some Nissan models require a relearn procedure for the CKPS after replacement, and skipping it can leave the code stored even with a new sensor.

Can I keep driving with P1336?

If the engine starts and runs without stalling, you can drive cautiously to a repair shop, but avoid heavy acceleration or long trips. If the engine stalls frequently or fails to start, do not drive as it can leave you stranded or cause an accident.

Tools that help

- OBD-II scan tool with live data capability
- Digital multimeter
- Feeler gauges for air gap measurement
- Socket set and ratchet
- Factory service information for specifications and procedures

Reading P1336

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

Often seen with

P0011 'A' Camshaft Position - Timing Over-Advanced or System Perfo · **P0335** Crankshaft Position Sensor A Circuit Malfunction · **P0336** Crankshaft Position Sensor A Circuit Range/Performance · **P0340** Camshaft Position Sensor A Circuit Malfunction (Bank 1) · **P0725** Engine Speed Input Circuit Malfunction



See it working

Watch the animated explainer **Four-Stroke Engine Cutaway: Intake to Exhaust** on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/nissan-p1336/>

