

NISSAN · POWERTRAIN

**P1324**

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

**P1324 · Nissan**

## Knock Sensor Power Source Circuit Low Voltage

P1324 on Nissan vehicles means the engine control module (ECM) has detected that the power supply circuit feeding the knock sensor is at a lower voltage than expected, so the sensor cannot generate a reliable knock signal. The ECM monitors this circuit and sets the code when the voltage on the sensor's power feed drops below its calibrated threshold, which can happen because of a wiring fault, a poor connection, or a failing sensor.

SYSTEM

**Powertrain**

CODE TYPE

**Nissan specific**

SEVERITY

**Medium**

FIX DIFFICULTY

**Intermediate**

AREA

**Ignition system and misfire**

### Symptoms you may notice

- Illuminated check engine light, often with no other symptoms besides the warning light
- Reduced engine performance or sluggish acceleration as the ECM retards ignition timing to protect the engine
- Lower fuel economy than normal because the ECM defaults to a conservative timing strategy
- Occasional rough idle or hesitation under light throttle
- In some cases a stored pending code without the light staying on, especially after a cold start

### Common causes, most likely first

- 1 Damaged or chafed knock sensor power wire shorting to ground or to another circuit
- 2 Corroded, loose, or water-intruded knock sensor connector pins
- 3 Failed knock sensor with an internally shorted power circuit
- 4 Open or high-resistance ground connection at the sensor or engine block
- 5 Faulty ECM power supply driver for the knock sensor circuit, though this is less common
- 6 Harness damage from rodents, heat, or previous engine work near the knock sensor



## How to diagnose and fix it

- 1 Scan all modules and record freeze-frame data to confirm P1324 is active and not a ghost code from a low battery
- 2 Inspect the knock sensor connector and harness for corrosion, chafing, or loose pins, repairing as needed
- 3 Measure voltage on the knock sensor power feed with the key on and compare to the Nissan service specification
- 4 Check the sensor ground circuit for excessive resistance using a voltage drop test
- 5 Test the knock sensor itself with a multimeter for internal shorts or opens, replacing it if out of specification
- 6 If wiring and sensor test good, check the ECM connector pins and perform a continuity test back to the ECM
- 7 Clear the code and perform a road test with live data to verify the knock sensor signal returns and the code does not reset

## Why knock sensor power codes mislead

- A weak or failing battery or a poor engine ground can drag the knock sensor supply voltage low and set P1324 even when the sensor and its wiring are healthy.
- Technicians often replace the knock sensor first, but on many Nissans the real fault is a corroded connector pin or a harness rubbed through near the intake manifold.
- P1324 does not always mean the sensor has failed; the ECM may set it from a momentary voltage dip during cranking if the battery is marginal.
- After engine replacement or major intake work, a pinched or unclipped knock sensor harness is a frequent cause that visual inspection alone can miss.
- The knock sensor circuit shares ground paths with other engine sensors, so a bad ground can set P1324 alongside codes for other sensors without any of them being faulty.

## Can I keep driving with P1324?

You can usually drive the vehicle short distances to a repair shop, but avoid heavy throttle and towing because the ECM may not be able to retard timing properly, which risks engine damage. If the check engine light flashes or the engine runs poorly, stop driving and have it diagnosed promptly.

## Tools that help

- OBD-II scan tool with live data and freeze-frame capability
- Digital multimeter with voltage drop and resistance functions
- Nissan service information or wiring diagram for the knock sensor circuit
- Basic hand tools for connector and harness access
- Test light or fused jumper wire for circuit testing



## Reading P1324

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

## Often seen with

**P1325** Cylinder 1 Knock Control Limit Attained · **P1325** Igniter Circuit Malfunction No 6 · **P1325** Knock Sensor Circuit Low Input · **P0325** Knock Sensor 1 Circuit Malfunction (Bank 1) · **P0327** Knock Sensor 1 Circuit Low Input (Bank 1) · **P0328** Knock Sensor 1 Circuit High Input (Bank 1) · **P0330** Knock Sensor 2 Circuit

## See it working

Watch the animated explainer [How Crank and Cam Position Sensors Work](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/nissan-p1324/>

