

NISSAN · POWERTRAIN

P1319

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1319 · Nissan

Spark Plug Voltage Detection Module Reset Circuit Malfunction Rear Bank

P1319 on Nissan vehicles indicates that the engine control module (ECM) has detected a malfunction in the reset circuit of the spark plug voltage detection module for the rear bank of cylinders. The ECM monitors this circuit to ensure the ignition system's voltage feedback is properly reset between combustion events, and it sets this code when the reset 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 (malfunction indicator lamp) on the dashboard
- Often no noticeable drivability symptoms besides the warning light
- Occasional engine misfire or rough running under load, especially if the fault affects ignition timing
- Slightly reduced fuel economy in some cases
- Intermittent hesitation during acceleration
- Failed emissions test due to the stored trouble code

Common causes, most likely first

- 1 Faulty spark plug voltage detection module (also called ignition coil module) on the rear bank
- 2 Damaged or corroded wiring in the reset circuit between the module and the ECM
- 3 Loose or poor electrical connection at the module or ECM connector
- 4 Failed ignition coil or spark plug causing abnormal voltage feedback
- 5 ECM internal fault affecting the reset circuit driver
- 6 Aftermarket or incorrect spark plugs interfering with voltage detection
- 7 Moisture intrusion or heat damage to the module or its connector



How to diagnose and fix it

- 1 Use an OBD-II scanner to verify P1319 is the only stored code and check for pending or related codes
- 2 Inspect the spark plug voltage detection module connector and wiring for corrosion, looseness, or damage
- 3 Test the reset circuit wiring for continuity and short to ground or power using a digital multimeter
- 4 Swap the rear bank ignition coil or module with a known-good unit to see if the code follows
- 5 Check spark plugs for correct type, gap, and condition; replace if worn or incorrect
- 6 If wiring and components test good, perform a resistance and voltage drop test on the reset circuit
- 7 Repair or replace faulty wiring, connectors, or the detection module as needed, then clear codes and verify

Hidden Causes of P1319 Reset Circuit Faults

- A weak or failing battery or charging system can cause voltage fluctuations that mimic a reset circuit fault, so always check battery health first.
- The code often appears after spark plug replacement if the wrong plug type or gap is used, altering the voltage signature seen by the detection module.
- Corrosion inside the module connector is a common culprit even when the outside looks clean, so unplug and inspect the pins carefully.
- A misfire code may not be present because the reset circuit fault can occur without affecting combustion enough to trigger a misfire monitor.
- The ECM may set P1319 intermittently due to heat-related expansion of a poor connection, so wiggle-test wiring while the engine is running.

Can I keep driving with P1319?

You can generally continue driving with P1319 if the engine runs smoothly, but avoid heavy acceleration or towing until the fault is repaired. If you notice misfiring, hesitation, or flashing check engine light, stop driving and seek service immediately to prevent catalytic converter damage.

Tools that help

- OBD-II scanner with Nissan-specific software
- Digital multimeter
- Wire probe set
- Socket set and spark plug wrench
- Electrical contact cleaner
- Factory service information for wiring diagrams



Reading P1319

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

Often seen with

P1320 Knock Sensor 2 Circuit Short To Ground · **P1320** Igniter Circuit Malfunction No 5 · **P1318** Spark Plug Voltage Detection Module Reset Circuit Malfunction · **P1320** Ignition Signal · **P1318** Injection Timing Piston Position Sensor Circuit · **P1318** Spark Plug Voltage Detection Module Reset Circuit Malfunction · **P1320** Distributorless Ignition 4X Signal Intermittent · **P1320** IC Module 4X Ref Circuit Intermittent No Pulses · **P0300** Random/Multiple Cylinder Misfire Detected · **P0301** Cylinder 1 Misfire Detected · **P0302** Cylinder 2 Misfire Detected

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-p1319/>

