

HONDA · POWERTRAIN

P1319

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1319 · Honda

Spark Plug Voltage Detection Module Reset Circuit Malfunction Rear Bank

P1319 on Honda vehicles indicates that the powertrain control module (PCM) has detected a malfunction in the reset circuit of the spark plug voltage detection module for the rear bank of cylinders. The PCM expects a specific voltage pattern on the reset line when it commands the module to reset, but the signal remains outside the expected range, so the self-test fails and the code is stored.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Honda specific	Low	Intermediate	Ignition system and misfire

Symptoms you may notice

- Illumination of the check engine light (malfunction indicator lamp) on the dashboard.
- Often no noticeable driveability symptoms besides the warning light.
- In some cases, a slight misfire or rough idle may be felt if the detection module interferes with ignition operation.
- Possible reduced fuel economy if the PCM defaults to a conservative ignition strategy.
- Intermittent hesitation during acceleration when the reset circuit fault is present.
- No other warning lights typically accompany this code unless related faults are present.

Common causes, most likely first

- 1 Open or shorted reset circuit wire between the spark plug voltage detection module and the PCM.
- 2 Faulty spark plug voltage detection module (rear bank) internal reset circuit failure.
- 3 Corroded or loose electrical connector at the detection module or PCM.
- 4 PCM internal driver fault on the reset circuit output.
- 5 Damage to the wiring harness from heat, chafing, or rodent activity near the rear bank.
- 6 Poor ground connection for the detection module or PCM, causing reference voltage drift.



How to diagnose and fix it

- 1 Connect a scan tool and verify P1319 is current, then check for any related pending or history codes.
- 2 Inspect the wiring harness and connectors at the rear bank spark plug voltage detection module for corrosion, looseness, or damage.
- 3 Measure resistance and continuity of the reset circuit wire from the module connector to the PCM connector, comparing to factory specifications.
- 4 Check for short circuits to ground or power on the reset circuit with a multimeter while wiggling the harness.
- 5 Test the spark plug voltage detection module by substituting a known-good unit and clearing the code to see if it returns.
- 6 Verify PCM operation by backprobing the reset circuit at the PCM and observing signal changes during a commanded reset with the scan tool.
- 7 Repair or replace the faulty wiring, connector, module, or PCM as determined by the previous tests, then clear codes and confirm the repair with a test drive.

Reset circuit faults often misdiagnosed

- A common mistake is replacing the spark plug voltage detection module when the actual fault is a chafed wire in the harness near the rear bank, so always perform a continuity and wiggle test first.
- The reset circuit is a low-current signal line, so a high-resistance connection at a connector pin can set P1319 without any visible damage or corrosion.
- This code can be set by a weak battery or charging system issue that causes voltage spikes during reset, so check battery health and grounds before condemning the module.
- On some Honda models, the rear bank detection module shares a ground with other sensors, and a bad ground can cause P1319 along with other unrelated codes.
- P1319 does not always mean the detection module is defective; the PCM may fail to command the reset properly, so always verify the PCM output with a scope or scan tool.

Can I keep driving with P1319?

The vehicle is generally safe to drive with P1319 because it does not cause an immediate safety risk, but avoid prolonged driving if you notice misfire or performance loss. Have the fault diagnosed soon to prevent potential ignition system degradation and to ensure the check engine light is not masking a more serious issue.

Tools that help

- OBD-II scan tool with Honda-specific software
- Digital multimeter
- Backprobe kit
- Wiring diagram for the specific Honda model
- Basic hand tools for connector and panel access



Reading P1319

- P** Powertrain: engine, transmission and emissions.
- 1** Manufacturer-specific code (Honda): 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/honda-p1319/>

