

NISSAN · POWERTRAIN

P1792

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1792 · Nissan

Barometer Pressure Circuit

P1792 on Nissan vehicles indicates that the engine control module (ECM) has detected an implausible or missing signal from the barometric pressure (BARO) sensor circuit, which is often integrated into the mass air flow (MAF) sensor or the ECM itself. The ECM uses this signal to adjust fuel delivery and ignition timing for changes in altitude and atmospheric pressure, so a fault here can affect driveability and emissions.

SYSTEM

Powertrain

CODE TYPE

Nissan specific

SEVERITY

Medium

FIX DIFFICULTY

Intermediate

AREA

Transmission

Symptoms you may notice

- Illumination of the check engine light (malfunction indicator lamp) on the dashboard.
- Rough idle or stumbling, especially when accelerating from a stop.
- Reduced engine performance or hesitation during acceleration.
- Poor fuel economy or rich-running condition with black exhaust smoke.
- In rare cases, the engine may stall or be hard to start.
- Often no symptoms besides the warning light, particularly if the fault is intermittent.

Common causes, most likely first

- 1 Faulty barometric pressure sensor (often integrated into the mass air flow sensor).
- 2 Damaged or corroded wiring or connector at the BARO sensor or MAF sensor.
- 3 Intake air leaks or restrictions upstream of the sensor, such as a clogged air filter or disconnected duct.
- 4 Failed engine control module (ECM) or poor ECM ground connection.
- 5 Contaminated sensor element due to oil or dirt ingress.
- 6 Incorrect sensor calibration or aftermarket parts that do not meet Nissan specifications.



How to diagnose and fix it

- 1 Perform a visual inspection of the BARO/MAF sensor, its connector, and the intake air duct for damage, corrosion, or leaks.
- 2 Use a scan tool to read live data for barometric pressure and compare it with a known good value (typically around 101 kPa at sea level) to confirm the fault.
- 3 Check the sensor's reference voltage and ground circuits with a multimeter, following the Nissan service manual for pinout and expected values.
- 4 Clean the sensor element with a dedicated MAF cleaner if contamination is suspected, then clear the code and retest.
- 5 If the sensor is faulty, replace it with an OEM-quality unit and clear the diagnostic trouble code (DTC).
- 6 Inspect and repair any damaged wiring or connectors between the sensor and the ECM, then verify continuity and resistance.
- 7 If all external checks pass, test the ECM for proper ground and power supply, and replace only if confirmed defective.

Barometric pressure sensor pitfalls on Nissan

- Many technicians replace the MAF sensor without first checking for intake leaks or a dirty air filter, which can skew BARO readings and set P1792.
- The barometric pressure sensor is often integrated into the MAF sensor on Nissan engines, so a MAF fault can trigger P1792 even when the BARO circuit itself is intact.
- A weak battery or poor ground connection can cause intermittent BARO signal glitches that mimic a sensor failure, so always verify power and ground integrity first.
- After replacing the sensor, some Nissan models require a relearn procedure or idle air volume learning to restore proper fuel trim adaptation.
- P1792 can be set by a faulty ECM in rare cases, but misdiagnosing it as an ECM failure without exhausting sensor and wiring tests is a costly mistake.

Can I keep driving with P1792?

You can usually continue driving with P1792, but avoid heavy acceleration or towing until the fault is repaired, as incorrect barometric pressure readings can cause rich running and reduced performance. If the engine stalls or runs very poorly, stop driving and seek professional diagnosis.

Tools that help

- OBD-II scan tool with live data capability
- Digital multimeter
- MAF sensor cleaner
- Basic hand tools (screwdrivers, socket set)
- Nissan service manual or wiring diagram



Reading P1792

- P** Powertrain: engine, transmission and emissions.
- 1** Manufacturer-specific code (Nissan): its meaning depends on the make.
- 7** Transmission.
- 92** The exact fault within that area.

Often seen with

P0101 Mass/Volume Air Flow Circuit Range/Performance · **P0102** Mass/Volume Air Flow Circuit Low Input · **P0103** Mass/Volume Air Flow Circuit High Input · **P0172** System Too Rich (Bank 1) · **P0175** System Too Rich (Bank 2)

See it working

Watch the animated explainer [V6 Engine Explained: 60° Bank and Firing Order](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/nissan-p1792/>

