

NISSAN · POWERTRAIN

P1795

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1795 · Nissan

Idle Switch Circuit

P1795 on Nissan vehicles indicates that the engine control module (ECM) has detected an unexpected signal from the idle switch circuit, which is part of the throttle position sensor (TPS) assembly. The ECM expects a specific voltage when the accelerator pedal is released and the throttle plate is closed, but the signal does not match the expected state, so the ECM sets this code and may illuminate the check engine light.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Nissan specific	Medium	Intermediate	Transmission

Symptoms you may notice

- The check engine light (malfunction indicator lamp) is illuminated on the dashboard.
- Often no symptoms besides the warning light, especially if the idle switch is only intermittently faulty.
- The engine may idle at an incorrect speed, either too high or too low, or may fluctuate.
- The transmission may shift harshly or at the wrong points because the idle switch signal is used for shift scheduling.
- The engine may hesitate or stumble when accelerating from a stop.
- In some cases, the engine may stall when coming to a stop or when the throttle is released.

Common causes, most likely first

- A faulty or worn throttle position sensor (TPS) assembly, specifically the idle switch contact inside it.
- Damaged or corroded wiring in the idle switch circuit, including the signal wire, ground wire, or connector pins.
- A loose or dirty throttle body causing the throttle plate to not fully close, so the idle switch never activates.
- A misadjusted throttle cable or throttle stop screw that prevents the throttle plate from returning to the closed position.
- A failing engine control module (ECM) or a poor connection at the ECM connector, though this is less common.
- Contamination or carbon buildup on the throttle plate or bore that interferes with the idle switch operation.



How to diagnose and fix it

- 1 Use an OBD-II scanner to read the code and check for any related codes, then clear the code and test-drive to see if it returns.
- 2 Visually inspect the throttle body and throttle cable for proper adjustment, and clean any carbon buildup from the throttle plate and bore.
- 3 Check the idle switch circuit wiring and connector for damage, corrosion, or loose pins, and repair as needed.
- 4 Backprobe the idle switch signal wire at the TPS connector and measure voltage with the throttle closed and open, comparing to the manufacturer's specification.
- 5 Test the idle switch continuity or resistance using a multimeter, following the service manual procedure for your Nissan model.
- 6 If the idle switch is faulty, replace the throttle position sensor assembly or the throttle body as required, then perform an idle relearn procedure if applicable.
- 7 After repairs, clear the codes and verify that the idle switch signal reads correctly and that the code does not return during a test drive.

Idle switch faults that mimic other issues

- A dirty throttle body is a frequent cause of this code on Nissan vehicles because carbon buildup prevents the throttle plate from fully closing, so the idle switch never makes contact.
- The idle switch is often integrated into the throttle position sensor, and a failing sensor may still produce a plausible-looking voltage signal on a scan tool while the idle switch contact is intermittent.
- A misadjusted throttle cable or a binding accelerator pedal can hold the throttle slightly open, setting this code even though the TPS itself is healthy.
- This code can be set by a poor ground connection at the throttle body or engine block, which affects the idle switch reference voltage and causes false signals.
- Do not replace the ECM based on this code alone; check the idle switch circuit and throttle body first, as ECM failure is rare and expensive to misdiagnose.

Can I keep driving with P1795?

You can usually continue driving with this code, but avoid aggressive acceleration and be prepared for possible stalling or rough idling. Have the fault diagnosed soon, especially if the engine idles poorly or the transmission shifts abnormally, to prevent further drivability issues.

Tools that help

- OBD-II scanner with live data capability
- Digital multimeter
- Throttle body cleaner and shop rags
- Basic hand tools (screwdrivers, socket set)
- Service manual or wiring diagram for your Nissan model



Reading P1795

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

Often seen with

P0120 Throttle Position Sensor A Circuit Malfunction · **P0121** Throttle Position Sensor A Circuit Range/Performance · **P0122** Throttle Position Sensor A Circuit Low Input · **P0123** Throttle Position Sensor A Circuit High Input · **P0505** Idle Control System Malfunction

See it working

Watch the animated explainer [How a Six-Speed Manual Gearbox Works](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/nissan-p1795/>

