



P1362 · Nissan

TDC1 Sensor No Signal

P1362 on Nissan vehicles means the engine control module (ECM) is not receiving a valid signal from the top dead center (TDC) sensor for cylinder 1, which is used to identify the exact position of the crankshaft during the compression stroke. The ECM sets this code when it detects a missing or erratic signal from that sensor while the engine is running or cranking.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Nissan specific	Medium	Intermediate	Ignition system and misfire

Symptoms you may notice

- Illumination of the check engine light, often with no other noticeable symptoms
- Engine may crank but fail to start, or start after a long crank
- Rough idle or misfire, especially when the engine is cold
- Reduced engine power or limp mode in some cases
- Occasional stalling or hesitation during acceleration

Common causes, most likely first

- 1 Faulty TDC sensor (also called crankshaft position sensor) or its connector
- 2 Damaged or corroded wiring between the TDC sensor and the ECM
- 3 Debris or metal shavings on the sensor tip or reluctor wheel
- 4 Worn or damaged reluctor wheel teeth on the crankshaft or camshaft
- 5 Poor electrical connection at the ECM harness
- 6 Failed ECM (rare, but possible after other causes are ruled out)

How to diagnose and fix it

- 1 Scan all modules for stored codes and freeze-frame data to confirm P1362 is the only relevant fault
- 2 Inspect the TDC sensor connector and wiring for corrosion, chafing, or loose pins
- 3 Check the sensor tip for metal debris and clean it if necessary
- 4 Measure the sensor resistance and compare to the manufacturer's specification
- 5 Verify the reluctor wheel for missing or damaged teeth using a borescope or visual inspection
- 6 Perform a wiggle test on the sensor harness while monitoring live data for the TDC signal
- 7 Replace the TDC sensor if resistance or signal output is out of specification, then clear codes and verify



Before you replace the TDC sensor

- A loose or corroded ground connection at the engine block can cause a no-signal condition that mimics a failed TDC sensor, so always check grounds first.
- Metal debris from a worn starter or flywheel can accumulate on the sensor tip and disrupt the magnetic signal, which is a common oversight.
- On some Nissan models, a failing camshaft position sensor can set a TDC-related code because the ECM cross-checks both signals, so don't overlook the cam sensor.
- After replacing the sensor, the ECM may need a relearn procedure or a drive cycle to clear the code permanently, so don't assume the fix failed if the light stays on briefly.
- Intermittent wiring faults often only appear when the engine is hot or vibrating, so a cold static test may pass while the problem persists on the road.

Can I keep driving with P1362?

If the engine starts and runs without severe misfire or stalling, you can drive cautiously to a repair shop, but avoid heavy acceleration or long trips. If the engine cranks but won't start or stalls frequently, stop driving and have the vehicle towed to prevent safety risks.

Tools that help

- OBD-II scan tool with live data capability
- Digital multimeter
- Feeler gauge or non-magnetic feeler gauge
- Borescope or inspection mirror
- Basic socket and wrench set

Reading P1362

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

Often seen with

P1361 Cylinder 3 Ignition Circuit Open · **P1361** TDC Sensor Intermittent Interruption · **P1361** Ignition Coil B Secondary Circuit · **P1361** Ignition Coil Cylinder 1 No Activation · **P1361** TDC Sensor Intermittent Interruption · **P1361** IC Circuit Low Voltage · **P1361** Ignition Control IC Circuit Low Voltage · **P1361** IC Circuit Low Voltage · **P1361** Misfire Cylinder 10 With Fuel Cut-off · **P0011** 'A' Camshaft Position - Timing Over-Advanced or System Perfo · **P0335** Crankshaft Position Sensor A Circuit Malfunction · **P0340** Camshaft Position Sensor A Circuit Malfunction (Bank 1) · **P0725** Engine Speed Input Circuit Malfunction



See it working

Watch the animated explainer [How the EVAP System Works: Fuel Vapour and Leak Test](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/nissan-p1362/>

