

HONDA · POWERTRAIN

P1366

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1366 · Honda

TDC2 Sensor Intermittent

P1366 on Honda vehicles indicates that the powertrain control module has detected an intermittent signal from the top dead center sensor for cylinder 2, which is used to identify the exact position of the number 2 piston during the compression stroke. The computer sets this code when the signal from the TDC2 sensor drops out or becomes erratic for a brief period, often without storing a hard failure.

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

Symptoms you may notice

- Illuminated check engine light, often with no other noticeable symptoms
- Occasional rough idle or misfire that may come and go
- Intermittent hesitation or stumble during acceleration
- Engine may stall unexpectedly at low speeds or when coming to a stop
- Reduced fuel economy or slightly rough running under light load

Common causes, most likely first

- 1 Faulty TDC2 sensor due to heat, oil contamination, or internal failure
- 2 Damaged or corroded wiring harness or connector at the sensor
- 3 Poor electrical connection at the sensor or PCM
- 4 Metal debris or foreign material on the sensor tip interfering with the signal
- 5 Worn or damaged reluctor wheel or timing rotor on the camshaft or distributor
- 6 Loose or improperly installed sensor causing an air gap issue
- 7 Rarely, a failing powertrain control module (PCM) misinterpreting the signal

How to diagnose and fix it

- 1 Inspect the TDC2 sensor and its connector for physical damage, corrosion, or oil intrusion
- 2 Check the sensor air gap and clean any metal debris from the sensor tip
- 3 Perform a wiggle test on the sensor wiring while monitoring live data to catch intermittent opens
- 4 Measure the sensor resistance and compare to Honda specifications for your engine
- 5 Check for continuity and short to ground on the signal and ground circuits between the sensor and PCM
- 6 Replace the TDC2 sensor if resistance is out of spec or the signal is erratic on a lab scope
- 7 Clear the code and verify the repair by test-driving the vehicle under various conditions



Intermittent TDC2 codes often misdiagnosed

- A loose or corroded ground connection at the engine block can cause intermittent TDC2 signals that mimic a failing sensor.
- Oil leaks from the valve cover or cam seal can contaminate the sensor and wiring, leading to intermittent faults that reappear after cleaning if the leak is not fixed.
- The TDC2 sensor on some Honda engines is part of the distributor assembly, so a failing distributor bearing can produce an intermittent signal without a separate sensor fault.
- Aftermarket sensors with incorrect resistance values are a common cause of repeat P1366 codes, so always verify the replacement part meets Honda specifications.
- Intermittent TDC2 codes can be set by a weak battery or charging system, as low voltage during cranking can disrupt the sensor signal.

Can I keep driving with P1366?

You can usually drive the vehicle short distances if the only symptom is the check engine light, but avoid aggressive acceleration or long trips until the fault is repaired. If the engine stalls or runs poorly, stop driving and have the vehicle diagnosed promptly to prevent further damage.

Tools that help

- OBD-II scan tool with live data capability
- Digital multimeter
- Oscilloscope (for signal waveform analysis)
- Basic hand tools (socket set, screwdrivers, pliers)
- Feeler gauges (for air gap adjustment)

Reading P1366

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



Often seen with

P1362 Cylinder 3 Ignition Circuit Short To B+ · **P1361** Cylinder 3 Ignition Circuit Open · **P1361** TDC Sensor Intermittent Interruption · **P1362** TDC1 Sensor No Signal · **P1361** Ignition Coil B Secondary Circuit · **P1362** Ignition Coil C Secondary Circuit · **P1361** Ignition Coil Cylinder 1 No Activation · **P1362** Ignition Coil Cylinder 2 No Activation · **P1361** TDC Sensor Intermittent Interruption · **P1362** TDC1 Sensor No Signal · **P1361** IC Circuit Low Voltage · **P1362** IC Cylinder 2 Not Toggling After Enable · **P1361** Ignition Control IC Circuit Low Voltage · **P1362** Ignition Coil C Secondary Circuit Malfunction · **P1361** IC Circuit Low Voltage · **P1362** IC Cylinder 2 Not Toggling After Enable · **P1362** Misfire During Start Cylinder 11 · **P1361** Misfire Cylinder 10 With Fuel Cut-off · **P0335** Crankshaft Position Sensor A Circuit Malfunction · **P0340** Camshaft Position Sensor A Circuit Malfunction (Bank 1) · **P0336** Crankshaft Position Sensor A Circuit Range/Performance

See it working

Watch the animated explainer [How a Boxer Engine Works: Flat Engine Cutaway](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/honda-p1366/>

