

HONDA · POWERTRAIN

P1241

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1241 · Honda

Throttle Vent Control Motor Circuit 1 Malfunction

P1241 on Honda vehicles indicates that the powertrain control module (PCM) has detected an electrical fault in the throttle vent control motor circuit, which is part of the electronic throttle control system. The PCM monitors the circuit for expected voltage or current and sets this code when the signal is out of range, often due to a wiring issue or a failing vent control motor.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Honda specific	Medium	Intermediate	Fuel and air metering (injector circuits)

Symptoms you may notice

- Illumination of the check engine light, often with no other noticeable symptoms
- Reduced engine power or limp mode, where the throttle responds sluggishly or is limited to a low speed
- Rough idle or stalling, especially after startup or when coming to a stop
- Poor acceleration or hesitation when pressing the accelerator pedal
- In some cases, the engine may enter a fail-safe mode that limits RPM to about 2,000

Common causes, most likely first

- 1 Damaged or disconnected wiring in the throttle vent control motor circuit, such as a broken wire or corroded connector
- 2 Failed throttle vent control motor, which may be stuck or have an open internal winding
- 3 Faulty throttle body assembly, where the vent control motor is integrated and the entire unit requires replacement
- 4 Poor electrical connection at the throttle body harness connector, often due to water intrusion or loose pins
- 5 PCM internal fault, though this is less common and should only be suspected after all other possibilities are ruled out
- 6 Contamination or carbon buildup inside the throttle body affecting the vent control motor operation



How to diagnose and fix it

- 1 Inspect the throttle body harness connector for corrosion, loose pins, or water intrusion, and clean or repair as needed
- 2 Check the wiring between the throttle body and PCM for continuity and shorts to ground or power, repairing any damaged sections
- 3 Measure the resistance of the throttle vent control motor and compare to Honda specifications; replace the throttle body if out of range
- 4 Clear the diagnostic trouble code (DTC) and perform a throttle body adaptation or idle relearn procedure as required for the specific Honda model
- 5 If the code persists, substitute a known-good throttle body and retest to confirm whether the original unit is faulty
- 6 As a last resort, diagnose the PCM for internal faults, but only after verifying all external circuits and components are in good condition

Don't Replace the Throttle Body Yet

- A loose or corroded ground connection at the throttle body can cause P1241 even when the motor and wiring test good, so always verify ground integrity before condemning parts.
- Honda's throttle vent control motor is often part of the throttle body assembly, and replacing just the motor is not always possible; however, many technicians replace the entire throttle body unnecessarily when the real issue is a chafed wire near the intake manifold.
- This code can be set by a weak battery or charging system issue that causes voltage spikes, so check battery health and charging voltage before diving into circuit diagnosis.
- After repairs, a throttle body relearn or idle learn procedure is usually required on Hondas; skipping this step can cause rough idle or a repeat code even with a perfectly functioning system.
- P1241 may appear alongside throttle actuator control codes like P2138 or P0122, which can mislead diagnosis; always address the root cause rather than chasing multiple codes as separate faults.

Can I keep driving with P1241?

You can usually drive the vehicle with P1241, but expect reduced engine power or limp mode, so avoid highways and heavy traffic until repaired. If the engine stalls or hesitates severely, stop driving and have the vehicle towed to a repair shop.

Tools that help

- OBD-II scan tool with Honda-specific software
- Digital multimeter
- Wire probe set
- Service manual for wiring diagrams and resistance specifications
- Basic hand tools (socket set, screwdrivers, pliers)



Reading P1241

- P** Powertrain: engine, transmission and emissions.
- 1** Manufacturer-specific code (Honda): its meaning depends on the make.
- 2** Fuel and air metering (injector circuits).
- 41** The exact fault within that area.

Often seen with

P0122 Throttle Position Sensor A Circuit Low Input · **P0222** Throttle Position Sensor B Circuit Low Input · **P2101** Throttle Actuator Control Motor Circuit Range/Performance · **P2118** Throttle Actuator Control Motor Current Range/Performance · **P2138** Throttle/Pedal Position Sensor D/E Voltage Correlation

See it working

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

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/honda-p1241/>

