

HONDA · POWERTRAIN

P1457

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1457 · Honda

Evaporative Emission Control System Leak Detected Control Canister System

P1457 on Honda vehicles indicates that the powertrain control module has detected a leak in the evaporative emission control system, specifically within the control canister circuit. The computer runs a self-test that pressurizes or monitors the canister system and flags this code when the expected pressure change or vacuum decay does not match the stored model, pointing to a leak in the canister, purge lines, or associated valves.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Honda specific	Low	Intermediate	Auxiliary emission controls

Symptoms you may notice

- Illumination of the malfunction indicator lamp, often with no other noticeable symptoms.
- A faint fuel odor around the rear or engine bay, especially after refueling or on hot days.
- Slight difficulty or hesitation when refueling, such as the pump nozzle clicking off early.
- Intermittent warning light that may clear after several drive cycles and then return.
- Rough idle or slight stumble if the leak affects purge flow during closed-loop operation.

Common causes, most likely first

- 1 A cracked or deteriorated evap control canister, often from age and heat cycling.
- 2 A faulty canister purge valve that sticks open or does not seal, allowing unintended flow.
- 3 A leaking or disconnected evap hose between the canister, purge valve, and intake manifold.
- 4 A loose, damaged, or missing fuel filler cap that fails to seal the system.
- 5 A failed canister vent valve or clogged vent filter that prevents proper pressure control.
- 6 Corrosion or damage to the evap system hard lines running under the vehicle.
- 7 A small leak at the fuel tank pressure sensor gasket or fuel tank seal.



How to diagnose and fix it

- 1 Inspect the fuel filler cap for cracks, a damaged seal, or improper seating, and replace it if suspect.
- 2 Visually trace all evap hoses and hard lines from the canister to the purge valve and intake, checking for cracks, disconnects, or rubbing.
- 3 Use a scan tool to command the evap system through its test routines and observe canister pressure and purge valve operation.
- 4 Perform a smoke test on the evap system to pinpoint the exact leak location, especially if visual inspection is inconclusive.
- 5 Test the canister purge valve for proper sealing and electrical resistance, and replace it if it fails to hold vacuum.
- 6 Inspect the canister itself for cracks or saturation, and replace it if damaged or fuel-soaked.
- 7 Clear the code and run the evap monitor to completion to confirm the repair before returning the vehicle.

Honda evap leaks that fool many techs

- A loose or aftermarket fuel cap is the most common cause of P1457 on older Hondas, yet many technicians skip straight to smoke testing and miss it.
- The canister vent valve on Hondas can stick closed and cause pressure buildup that mimics a leak, so command it open and closed with a scan tool before condemning the canister.
- A smoke test that shows no leak at the canister does not rule out a small leak at the fuel tank pressure sensor gasket, which often only leaks under specific temperature conditions.
- Replacing the canister without checking purge valve operation can lead to a repeat code, because a stuck-open purge valve can saturate the new canister with fuel vapor.
- On some Honda models, a weak battery or low voltage during the evap monitor can set P1457 falsely, so verify charging system health before extensive diagnostics.

Can I keep driving with P1457?

You can generally continue driving with P1457 because it does not affect engine performance or safety, but avoid topping off the fuel tank and have the leak repaired soon to prevent fuel vapor release and potential evap component damage.

Tools that help

- OBD-II scan tool with bidirectional control and evap test capability
- Smoke machine for evap leak detection
- Hand vacuum pump with gauge
- Digital multimeter for valve and sensor testing
- Basic hand tools and trim removal tools



Reading P1457

- P** Powertrain: engine, transmission and emissions.
- 1** Manufacturer-specific code (Honda): its meaning depends on the make.
- 4** Auxiliary emission controls.
- 57** The exact fault within that area.

Often seen with

P1456 Exhaust Gas Temperature Control Bank 1 Limit Attained · **P1459** Exhaust Gas Temperature Sensor 2 Range Performance · **P1456** Evaporative Emission Control System Leak Detected Fuel Tank · **P1459** EVAP Purge Flow Switch Malfunction · **P1456** Fuel Tank Temperature Sensor Circuit · **P1456** Evaporative Emission Control System Leak Detected Fuel Tank · **P1459** EVAP Purge Flow Switch Malfunction · **P1456** Heated Catalyst Heater Power Supply Open Circuit Bank 1 · **P1459** Heated Catalyst Heater Power Supply Open Circuit Bank 2 · **P0442** EVAP System Leak Detected (Small) · **P0455** EVAP System Leak Detected (Large) · **P0456** Evaporative Emission System Leak Detected (very small leak)

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/honda-p1457/>

