

GENERIC · POWERTRAIN

P064A

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P064A

Fuel Pump Control Module A

P064A indicates that the powertrain control module (PCM) has detected a fault in the fuel pump control module A circuit, which is responsible for regulating power to the fuel pump. The PCM monitors the control circuit for expected voltage or current and sets this code when the signal is out of range, often resulting in a fuel pump that runs continuously, intermittently, or not at all.

SYSTEM

Powertrain

CODE TYPE

Generic (all makes)

SEVERITY

High

FIX DIFFICULTY

Professional

AREA

Computer and output circuits

Symptoms you may notice

- Illumination of the check engine light, often with no other noticeable symptoms
- Engine cranks but fails to start due to no fuel delivery
- Engine stalls shortly after starting or while driving
- Reduced engine power or limp mode
- Fuel pump runs continuously with the key on, even before cranking
- Intermittent no-start condition that may be temperature or vibration sensitive

Common causes, most likely first

- 1 Faulty fuel pump control module
- 2 Damaged or corroded wiring or connectors in the fuel pump control module circuit
- 3 Blown fuse or faulty relay supplying power to the fuel pump control module
- 4 Poor ground connection for the fuel pump control module
- 5 Failed fuel pump causing excessive current draw that damages the control module
- 6 PCM software issue or internal PCM fault (less common)

How to diagnose and fix it

- 1 Check all fuses and relays related to the fuel pump control module and replace any that are blown or faulty
- 2 Inspect the wiring harness and connectors at the fuel pump control module for corrosion, chafing, or loose pins; repair as needed
- 3 Measure voltage and ground at the fuel pump control module connector with the key on to verify power and ground integrity
- 4 Test the fuel pump control module with a known-good unit or perform a commanded output test with a scan tool to confirm operation
- 5 Check fuel pump current draw and replace the fuel pump if it exceeds specifications
- 6 Reprogram or replace the PCM only after all other causes have been ruled out



Fuel Pump Control Module Circuit Pitfalls

- A failed fuel pump can draw excessive current and damage the control module, so always check pump current draw before replacing the module to avoid repeat failures.
- Corroded connectors at the module, often hidden under the vehicle or behind interior panels, are a frequent cause that is easily overlooked during visual inspection.
- The code can set intermittently due to vibration or temperature changes, so wiggle-testing the harness while monitoring live data is a reliable diagnostic step.
- Some vehicles use the fuel pump control module to vary pump speed; a fault may not disable the pump entirely but can cause drivability issues that mimic other problems.
- A weak battery or charging system fault can cause low voltage to the module and set this code, so verify battery and charging system health before condemning the module.

Can I keep driving with P064A?

If the engine starts and runs normally, you may drive cautiously to a repair shop, but avoid hard acceleration or long trips. If the engine stalls or fails to start, do not drive; have the vehicle towed to prevent a dangerous breakdown.

Tools that help

- OBD-II scan tool with bidirectional control
- Digital multimeter
- Test light
- Wiring diagram for the specific vehicle
- Fuel pressure gauge
- Current clamp

Reading P064A

P Powertrain: engine, transmission and emissions.

0 Generic (SAE) code: it means the same thing on every OBD-II vehicle.

6 Computer and output circuits.

4A The exact fault within that area.

Often seen with

P0087 Fuel Rail/System Pressure - Too Low · **P0230** Fuel Pump Primary Circuit Malfunction · **P0231** Fuel Pump Secondary Circuit Low · **P0232** Fuel Pump Secondary Circuit High · **P064B** PTO Control Module



See it working

Watch the animated explainer [How a Car Thermostat Works: Wax Pellet and Cooling Fan](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p064a/>

