

GENERIC · POWERTRAIN

P2B07

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P2B07

Cylinder 8 Injection Pulse Performance

P2B07 indicates that the powertrain control module (PCM) has detected an abnormal condition in the electrical circuit that controls the fuel injector for cylinder 8, meaning the injector pulse width or current flow is outside the expected range for the commanded fuel delivery. The PCM monitors the injector driver circuit and flags this code when the actual injector response does not match the commanded pulse, which can be caused by a faulty injector, wiring issue, or driver circuit problem.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Generic (all makes)	Medium	Intermediate	Hybrid propulsion

Symptoms you may notice

- Illuminated check engine light, often with no other noticeable symptoms
- Rough idle or misfire sensation, especially noticeable at idle or low speeds
- Reduced engine power or hesitation during acceleration
- Increased fuel consumption due to improper fuel delivery
- Possible engine vibration or shaking that may worsen under load
- In some cases, the engine may enter limp mode or exhibit poor performance

Common causes, most likely first

- 1 Faulty fuel injector on cylinder 8 (coil failure, clogged nozzle, or internal short)
- 2 Damaged or corroded wiring harness or connector at the cylinder 8 injector
- 3 Open or short circuit in the injector control circuit between the PCM and injector
- 4 Failed PCM injector driver (less common but possible)
- 5 Poor electrical connection at the PCM connector or ground point
- 6 Aftermarket or incorrect injector installed that does not meet specifications



How to diagnose and fix it

- 1 Perform a visual inspection of the cylinder 8 injector connector and wiring for damage, corrosion, or loose pins
- 2 Use a scan tool to check for other stored codes and verify live data for injector pulse width and misfire counters
- 3 Measure the resistance of the cylinder 8 injector with a multimeter and compare to the manufacturer's specification
- 4 Check for voltage and ground signals at the injector connector with a noid light or oscilloscope while cranking the engine
- 5 Inspect the wiring harness for continuity and shorts between the injector and PCM, repairing as needed
- 6 Swap the cylinder 8 injector with a known-good injector from another cylinder to see if the code follows the injector
- 7 If the injector and wiring test good, diagnose the PCM driver circuit or replace the PCM as a last resort

Common misdiagnosis traps for P2B07

- A clogged or dirty injector can cause this code without any electrical fault, so fuel quality and injector cleaning should be considered before replacing parts.
- The code can be set by a momentary glitch in the injector circuit that does not recur, so always check for intermittent connections and wiggle-test the harness.
- Cylinder 8 is often on the same bank as other cylinders, and a shared power or ground circuit issue can affect multiple injectors, so inspect the entire bank's wiring.
- A failed ignition coil or spark plug on cylinder 8 can cause a misfire that mimics an injector fault, so always check secondary ignition components first.
- Some vehicles use a common power feed for all injectors, and a short in one injector can affect the entire circuit, so isolate the fault before replacing multiple parts.

Can I keep driving with P2B07?

Driving with P2B07 is generally not recommended because the engine may run rough, misfire, or deliver poor fuel economy, and prolonged driving with a misfire can damage the catalytic converter. If the vehicle is driving normally, you can drive it to a repair shop, but avoid heavy acceleration or towing until the fault is diagnosed.

Tools that help

- OBD-II scan tool with live data capability
- Digital multimeter
- Noid light or oscilloscope for injector pulse testing
- Basic hand tools for connector and component access
- Factory service information for wiring diagrams and specifications



Reading P2B07

- P** Powertrain: engine, transmission and emissions.
- 2** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- B** Hybrid propulsion.
- 07** The exact fault within that area.

Often seen with

P0208 Injector Circuit/Open - Cylinder 8 · **P0308** Cylinder 8 Misfire Detected · **P2146** Fuel Injector Group 'A' Supply Voltage Circuit/Open · **P2B06** Cylinder 7 Injection Pulse Performance · **P2B08** Cold Start Cylinder 1 Injection Pulse Performance

See it working

Watch the animated explainer [How an Elevator Works: Traction Lift in X-Ray](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p2b07/>

