

JAGUAR · POWERTRAIN

P1202

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1202 · Jaguar

Cylinder 2 Injector Circuit Open/Shorted

P1202 on a Jaguar means the engine control module (ECM) has detected an open circuit or a short to ground or power in the electrical path for cylinder 2's fuel injector. The ECM monitors injector current and flags this code when the expected current draw is outside its normal range, indicating the injector coil or its wiring is not functioning correctly.

SYSTEM

Powertrain

CODE TYPE

Jaguar specific

SEVERITY

Medium

FIX DIFFICULTY

Intermediate

AREA

Fuel and air
metering (injector
circuits)

Symptoms you may notice

- Illuminated check engine light, often with no other noticeable symptoms
- Rough idle or misfire felt as a shake or stumble, especially when cold
- Noticeable loss of power and reduced fuel economy
- Engine may run rich or lean depending on whether the circuit is open or shorted
- In severe cases, the engine may enter limp mode or hesitate under acceleration

Common causes, most likely first

- 1 Failed cylinder 2 fuel injector (open or shorted internal coil)
- 2 Damaged or corroded injector harness connector at cylinder 2
- 3 Broken, chafed, or shorted wire in the injector circuit between the ECM and injector
- 4 Poor electrical connection at the ECM connector for the injector driver
- 5 Internal ECM driver failure for the cylinder 2 injector circuit (rare but possible)
- 6 Rodent damage or heat-related insulation breakdown on the injector wiring

How to diagnose and fix it

- 1 Perform a visual inspection of the cylinder 2 injector connector and wiring for damage, corrosion, or loose pins
- 2 Measure the resistance of the cylinder 2 injector with a multimeter and compare to the manufacturer's specification
- 3 Check for battery voltage at the injector connector with the key on and engine off, using a test light or multimeter
- 4 Perform a continuity and short-to-ground test on the injector control wire from the ECM to the injector
- 5 Swap the cylinder 2 injector with a known-good injector from another cylinder and see if the code moves
- 6 Inspect the ECM connector pins for corrosion or push-out, and verify the injector driver signal with an oscilloscope if available
- 7 Replace the faulty injector, repair the wiring, or replace the ECM as diagnosed



What a P1202 injector code really tells you

- A P1202 can be set by a completely failed injector or by a wiring fault that only appears when the engine is hot or vibrating, so always wiggle-test the harness while monitoring the code.
- Jaguar's injector drivers are current-limited; a shorted injector may not blow a fuse but will cause the ECM to shut down that driver and set the code, so a simple fuse check is not enough.
- This code is often accompanied by a misfire code for the same cylinder, but the misfire code alone does not confirm an injector fault—ignition and compression must be ruled out first.
- On some Jaguar models, the injector harness runs near hot exhaust components and the insulation becomes brittle, causing intermittent shorts that only set the code after the engine warms up.
- Replacing an injector without checking the resistance of the old one and the integrity of the connector is a common misdiagnosis that leads to a repeat repair.

Can I keep driving with P1202?

You can usually drive the car short distances to a repair shop, but avoid heavy acceleration or towing because a misfiring cylinder can overheat the catalytic converter and cause costly damage. If the engine is running very rough or flashing the check engine light, stop driving and have it towed.

Tools that help

- OBD-II scan tool with live data and injector balance test capability
- Digital multimeter with resistance and voltage measurement
- Test light or noid light for injector pulse testing
- Oscilloscope (optional but helpful for driver signal analysis)
- Socket set and trim removal tools for accessing injectors

Reading P1202

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

Often seen with

P1201 Cylinder 1 Fuel Injector Circuit Electrical Malfunction · **P1203** Cylinder 3 Fuel Injector Circuit Electrical Malfunction · **P1201** Cylinder 1 Misfire · **P1203** Cylinder 3 Misfire · **P1201** Cylinder 1 Injector Circuit Open/Shorted · **P1203** Cylinder 3 Injector Circuit Open/Shorted · **P1201** Cylinder 1 Misfire · **P1203** Cylinder 3 Misfire · **P1201** Alternative Fuel Gas Mass Sensor Circuit Range Performance · **P1203** Alternative Fuel Gas Mass Sensor Circuit High Frequency · **P1201** (Alternative Fuel) Gas Mass Sensor Circuit Range/Performance · **P1203** (Alternative Fuel) Gas Mass Sensor Circuit High Frequency · **P0202** Injector Circuit Malfunction - Cylinder 2 · **P0261** Cylinder 1 Injector Circuit Low · **P0302** Cylinder 2 Misfire Detected

See it working

Watch the animated explainer [How a Turbocharger Works, Step by Step](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/jaguar-p1202/>

