

JAGUAR · POWERTRAIN

P1206

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1206 · Jaguar

Cylinder 6 Injector Circuit Open/Shorted

P1206 on a Jaguar indicates that the engine control module (ECM) has detected an open circuit or a short to ground or power in the electrical path for cylinder 6's fuel injector. The ECM monitors injector current and flags this code when the expected current draw is absent or out of range, meaning the injector may not be firing at all.

SYSTEM

Powertrain

CODE TYPE

Jaguar specific

SEVERITY

Medium

FIX DIFFICULTY

Intermediate

AREA

Fuel and air
metering (injector
circuits)

Symptoms you may notice

- Rough idle or misfire felt as a shaking engine, especially noticeable at stoplights
- Loss of power and sluggish acceleration under load
- Check engine light illuminated, sometimes flashing if the misfire is severe
- Poor fuel economy due to incomplete combustion in cylinder 6
- Often no symptoms besides the warning light if the injector circuit fails intermittently

Common causes, most likely first

- 1 Failed fuel injector solenoid with an open internal coil
- 2 Damaged or chafed injector harness wiring near the cylinder 6 injector connector
- 3 Corroded or loose electrical connector at the cylinder 6 injector
- 4 Short to ground or short to power in the injector control circuit
- 5 Faulty engine control module (ECM) injector driver, though rare
- 6 Rodent damage to the injector wiring loom

How to diagnose and fix it

- 1 Perform a visual inspection of the cylinder 6 injector connector and wiring for damage or corrosion
- 2 Measure the resistance of the cylinder 6 injector with a multimeter and compare to the manufacturer's specification
- 3 Check for battery voltage at the injector connector with the key on, then check for a pulsed ground signal during cranking using a noid light
- 4 Inspect the harness between the ECM and injector for continuity and shorts to ground or power
- 5 Swap the cylinder 6 injector with a known-good injector from another cylinder to see if the misfire moves
- 6 Repair or replace any damaged wiring or connectors, then clear the code and verify the repair with a road test



What a P1206 really tells you about cylinder 6

- A P1206 can be set by a completely failed injector or by a wiring fault that only breaks contact when the engine is hot or vibrating, so always wiggle-test the harness while watching live misfire data.
- Jaguar's injector drivers are robust but not indestructible; a shorted injector coil can damage the ECM output stage, so never replace the ECM without first confirming the injector and wiring are sound.
- This code does not always mean the injector itself is bad; a loose ground for the engine wiring harness can cause multiple injector circuit codes, so check grounds before condemning parts.
- On some Jaguar models, the injector harness runs near the exhaust manifold and heat damage can cause intermittent opens that only appear after the engine reaches operating temperature.
- A noid light test is more reliable than a resistance check alone because it confirms the ECM is actually pulsing the injector circuit under cranking conditions.

Can I keep driving with P1206?

You can drive the car cautiously to a repair shop if the engine is running smoothly and the check engine light is steady, but avoid heavy acceleration or towing. If the check engine light is flashing or the engine is misfiring badly, stop driving to prevent catalytic converter damage from unburned fuel.

Tools that help

- OBD-II scan tool with live data and misfire counters
- Digital multimeter
- Noid light injector test kit
- Wire piercing probes and back-probe pins
- Factory service information for wiring diagrams and resistance specifications

Reading P1206

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



Often seen with

P1205 Cylinder 5 Fuel Injector Circuit Electrical Malfunction · **P1203** Cylinder 3 Fuel Injector Circuit Electrical Malfunction · **P1204** Cylinder 4 Fuel Injector Circuit Electrical Malfunction · **P1201** Cylinder 1 Fuel Injector Circuit Electrical Malfunction · **P1202** Cylinder 2 Fuel Injector Circuit Electrical Malfunction · **P1204** Cylinder 4 Misfire · **P1203** Cylinder 3 Misfire · **P1202** Cylinder 2 Misfire · **P1205** Cylinder 5 Misfire · **P1201** Cylinder 1 Misfire · **P1202** Cylinder 2 Injector Circuit Open/Shorted · **P1205** Cylinder 5 Injector Circuit Open/Shorted · **P1203** Cylinder 3 Injector Circuit Open/Shorted · **P1201** Cylinder 1 Injector Circuit Open/Shorted · **P1204** Cylinder 4 Injector Circuit Open/Shorted · **P1202** Cylinder 2 Misfire · **P1205** Cylinder 5 Misfire · **P1203** Cylinder 3 Misfire · **P1201** Cylinder 1 Misfire · **P1204** Cylinder 4 Misfire · **P1203** Alternative Fuel Gas Mass Sensor Circuit High Frequency · **P1202** Alternative Fuel Gas Mass Sensor Circuit Low Frequency · **P1201** Alternative Fuel Gas Mass Sensor Circuit Range Performance · **P1201** (Alternative Fuel) Gas Mass Sensor Circuit Range/Performance · **P1203** (Alternative Fuel) Gas Mass Sensor Circuit High Frequency · **P1202** (Alternative Fuel) Gas Mass Sensor Circuit Low Frequency

See it working

Watch the animated explainer [How a Catalytic Converter Works: 3D Cutaway](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/jaguar-p1206/>

