

JAGUAR · POWERTRAIN

P1207

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1207 · Jaguar

Cylinder 7 Injector Circuit Open/Shorted

P1207 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 7'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 is not being energized correctly.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Jaguar specific	Medium	Intermediate	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 at idle
- Loss of power or hesitation during acceleration
- Increased fuel consumption due to a dead cylinder
- Possible rich-running smell from unburned fuel if the injector is stuck open
- In severe cases, the engine may enter limp mode

Common causes, most likely first

- 1 Faulty cylinder 7 fuel injector (open coil or shorted winding)
- 2 Damaged or corroded electrical connector at the cylinder 7 injector
- 3 Broken, chafed, or shorted wire in the injector harness near the cylinder 7 injector
- 4 Corrosion or loose pins at the ECM connector for the injector driver circuit
- 5 Internal ECM driver failure for the cylinder 7 injector circuit (rare)
- 6 Aftermarket alarm or remote start wiring that has tapped into the injector circuit



How to diagnose and fix it

- 1 Connect a scan tool and verify P1207 is current; check for other misfire or injector codes
- 2 Inspect the cylinder 7 injector connector for corrosion, loose pins, or damage; clean and reseal
- 3 Measure the resistance of the cylinder 7 injector with a multimeter and compare to the manufacturer's specification
- 4 Perform a wiggle test on the injector harness while watching injector data or listening for misfire changes
- 5 Check for continuity and short-to-ground/short-to-power on the injector control wire between the ECM and injector
- 6 If the circuit tests good, swap the cylinder 7 injector with a known-good injector from another cylinder and see if the code moves
- 7 If the injector and wiring are confirmed good, test the ECM driver circuit or substitute a known-good ECM for diagnosis

What a P1207 on a Jaguar really tells you

- A P1207 can be set by a poor connection at the injector even when the injector itself is fine, so always inspect the plug before condemning the injector.
- Jaguar injector harnesses are prone to chafing where they pass near the cam cover, and a short there can mimic a failed injector.
- The ECM may set P1207 without ever illuminating the check engine light if the fault is intermittent, so a stored code with no symptoms is common.
- Swapping the injector to another cylinder is the fastest way to prove whether the fault is the injector or the wiring, but you must clear the code and recheck after the swap.
- Aftermarket wiring for alarms or audio equipment that taps into the injector circuit is a frequent cause of unexplained injector codes on older Jaguars.

Can I keep driving with P1207?

You can usually drive the car short distances to a repair shop, but avoid heavy acceleration or towing because a dead cylinder can overheat the catalytic converter and waste fuel. If the engine is misfiring badly or flashing the check engine light, stop driving and have it towed.

Tools that help

- OBD-II scan tool with live data capability
- Digital multimeter
- Test light
- Wiring diagram for the specific Jaguar model
- Injector noid light or oscilloscope
- Basic hand tools for connector and injector access



Reading P1207

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

Often seen with

P1203 Cylinder 3 Fuel Injector Circuit Electrical Malfunction · **P1201** Cylinder 1 Fuel Injector Circuit Electrical Malfunction · **P1202** Cylinder 2 Fuel Injector Circuit Electrical Malfunction · **P1203** Cylinder 3 Misfire · **P1201** Cylinder 1 Misfire · **P1202** Cylinder 2 Misfire · **P1203** Cylinder 3 Injector Circuit Open/Shorted · **P1201** Cylinder 1 Injector Circuit Open/Shorted · **P1202** Cylinder 2 Injector Circuit Open/Shorted · **P1202** Cylinder 2 Misfire · **P1203** Cylinder 3 Misfire · **P1201** Cylinder 1 Misfire · **P1202** Alternative Fuel Gas Mass Sensor Circuit Low Frequency · **P1203** Alternative Fuel Gas Mass Sensor Circuit High Frequency · **P1201** Alternative Fuel Gas Mass Sensor Circuit Range Performance · **P1202** (Alternative Fuel) Gas Mass Sensor Circuit Low Frequency · **P1203** (Alternative Fuel) Gas Mass Sensor Circuit High Frequency · **P1201** (Alternative Fuel) Gas Mass Sensor Circuit Range/Performance · **P0207** Injector Circuit/Open - Cylinder 7 · **P0307** Cylinder 7 Misfire Detected

See it working

Watch the animated explainer [Turbocharger Trainer: Boost, Wastegate and Intercooler](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/jaguar-p1207/>

