

JAGUAR · POWERTRAIN

P1368

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1368 · Jaguar

Ignition System Failure Group 2

P1368 on Jaguar vehicles indicates that the engine control module (ECM) has detected a misfire or ignition failure specifically affecting the second group of cylinders, often bank 2 or a defined set of cylinders depending on engine layout. The ECM monitors crankshaft speed fluctuations and compares them to expected values to identify which cylinder or group is not contributing power correctly.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Jaguar specific	Medium	Intermediate	Ignition system and misfire

Symptoms you may notice

- Illuminated check engine light, often flashing if the misfire is severe
- Noticeable engine misfire or rough running, especially under acceleration
- Reduced engine power or limp mode activation
- Shaking or vibration felt through the steering wheel or seat
- Often no symptoms besides the warning light if the misfire is intermittent

Common causes, most likely first

- 1 Worn or fouled spark plugs in the affected cylinder group
- 2 Failed ignition coil or coil pack on one or more cylinders
- 3 Faulty spark plug wires or ignition harness connectors (on older models)
- 4 Vacuum leak or intake manifold gasket failure affecting that cylinder bank
- 5 Low fuel pressure or clogged fuel injectors for the affected group
- 6 Mechanical issue such as low compression or valve problem on that bank

How to diagnose and fix it

- 1 Scan all modules for stored and pending codes, and record freeze-frame data to identify the exact misfire conditions
- 2 Perform a visual inspection of ignition components (coils, plugs, wiring) on the affected cylinder group for damage or corrosion
- 3 Swap ignition coils from the affected group to a known-good cylinder to see if the misfire moves
- 4 Check spark plugs for wear, gap, and fouling; replace as needed
- 5 Test fuel injectors for resistance and pulse signal, and check fuel pressure
- 6 Perform a compression test or cylinder leak-down test on the affected cylinders to rule out mechanical faults
- 7 Repair any vacuum leaks or intake gasket issues found during smoke testing



Ignition Group 2 Misfire Diagnosis Tips

- On many Jaguar V8 engines, group 2 refers to a specific set of cylinders (often bank 2), but always confirm with the factory service manual for your exact model year and engine code.
- A flashing check engine light indicates a severe misfire that can damage the catalytic converter; stop driving immediately if this occurs.
- Ignition coil failure is common on Jaguar AJ-V8 engines, but a misfire can also be caused by a faulty fuel injector or a vacuum leak that mimics ignition problems.
- Do not overlook the possibility of a worn timing chain or variable valve timing issue on higher-mileage Jaguars, which can cause misfires without setting typical cam/crank codes.
- After repairs, clear the codes and perform a drive cycle to ensure the misfire monitor completes and the light stays off.

Can I keep driving with P1368?

If the check engine light is steady, you can drive cautiously to a repair shop, but avoid hard acceleration and heavy loads. If the light is flashing, stop driving immediately and have the vehicle towed to prevent catalytic converter damage.

Tools that help

- OBD-II scan tool with live data and misfire counters
- Digital multimeter for testing coils and injectors
- Spark plug socket and torque wrench
- Compression tester
- Smoke machine for vacuum leak detection

Reading P1368

P	Powertrain: engine, transmission and emissions.
1	Manufacturer-specific code (Jaguar): its meaning depends on the make.
3	Ignition system and misfire.
68	The exact fault within that area.

Often seen with

P1367 Cylinder 5 Ignition Circuit Open · **P1367** TDC2 Sensor No Signal · **P1367** Ignition System Failure Group 1 · **P1367** TDC2 Sensor No Signal · **P1367** IC Cylinder 7 Not Toggling After Enable · **P1367** IC Cylinder 7 Not Toggling After Enable · **P0300** Random/Multiple Cylinder Misfire Detected · **P0302** Cylinder 2 Misfire Detected · **P0304** Cylinder 4 Misfire Detected · **P0352** Ignition Coil B Primary/Secondary Circuit Malfunction



See it working

Watch the animated explainer **Four-Stroke Engine Cutaway: Intake to Exhaust** on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/jaguar-p1368/>

