

JAGUAR · POWERTRAIN

P1363

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1363 · Jaguar

Ignition Coil Cylinder 3 No Activation

P1363 on a Jaguar means the engine control module (ECM) commanded the ignition coil for cylinder 3 to fire but detected no electrical activation or feedback from that coil circuit. The ECM monitors the coil primary circuit and flags this code when the expected current pulse or confirmation signal is missing, indicating an open circuit, short, or failed coil.

SYSTEM

Powertrain

CODE TYPE

Jaguar specific

SEVERITY

Medium

FIX DIFFICULTY

Intermediate

AREA

Ignition system
and misfire

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
- Shaking or vibration from the engine bay that may worsen under load
- Possible poor fuel economy due to incomplete combustion in cylinder 3
- In some cases, a flashing check engine light if the misfire is severe enough to damage the catalytic converter

Common causes, most likely first

- 1 Failed ignition coil on cylinder 3 (open or shorted primary winding)
- 2 Damaged or corroded electrical connector at the cylinder 3 coil
- 3 Broken, chafed, or open wiring in the coil activation circuit between the ECM and coil
- 4 Poor ground connection for the ignition coil circuit
- 5 Faulty engine control module (ECM) driver for the coil circuit, though rare
- 6 Contamination or oil intrusion into the coil boot or spark plug well causing circuit interference



How to diagnose and fix it

- 1 Scan all modules for stored and pending codes, and record freeze-frame data to confirm the fault conditions
- 2 Perform a visual inspection of the cylinder 3 ignition coil, connector, and wiring for damage, corrosion, or oil contamination
- 3 Swap the cylinder 3 ignition coil with a known-good coil from another cylinder and clear the code to see if the misfire moves
- 4 Use a multimeter to check the resistance of the cylinder 3 coil primary and secondary windings against factory specifications
- 5 Check for battery voltage at the coil connector with the key on, and inspect the ground circuit for continuity
- 6 Perform a wiggle test on the wiring harness while monitoring coil activation with a lab scope or scanner to reveal intermittent opens
- 7 If the circuit and coil test good, check the ECM driver signal with an oscilloscope and repair or replace the ECM only as a last resort

Why cylinder 3 coil codes mislead

- A P1363 can be set by a faulty spark plug or excessively large plug gap that raises the coil's firing voltage beyond what the ECM expects, even though the coil itself is not defective.
- Jaguar coil-on-plug connectors are prone to heat damage and brittle plastic locks, so a coil that tests fine on the bench may still cause this code due to a loose or intermittent connection in the vehicle.
- The ECM may set P1363 without ever illuminating the check engine light if the fault is intermittent and does not cause a measurable misfire during the drive cycle, so a stored code does not always mean an active problem.
- Oil leaking from a failed cam cover gasket into the spark plug well can short the coil boot and trigger this code, and replacing only the coil without fixing the leak leads to a repeat failure.
- A weak battery or poor engine ground can cause multiple coil activation codes, so always check charging system health before condemning individual coils.

Can I keep driving with P1363?

You can drive cautiously to a repair shop if the check engine light is steady and the engine runs smoothly, but avoid heavy acceleration or long trips. If the light flashes or the engine misfires noticeably, stop driving to prevent catalytic converter damage from unburned fuel.



Tools that help

- OBD-II scanner with Jaguar-specific software
- Digital multimeter
- Oscilloscope or lab scope
- Basic hand tools (socket set, screwdrivers)
- Test light
- Factory service information for wiring diagrams and resistance specs

Reading P1363

P Powertrain: engine, transmission and emissions.

1 Manufacturer-specific code (Jaguar): its meaning depends on the make.

3 Ignition system and misfire.

63 The exact fault within that area.

Often seen with

P1364 Cylinder 4 Ignition Circuit Open · **P1362** Cylinder 3 Ignition Circuit Short To B+ · **P1316** Spark Plug Voltage Detection Circuit Malfunction Front Bank · **P1362** TDC1 Sensor No Signal · **P1364** Ignition Coil Primary Circuit · **P1362** Ignition Coil C Secondary Circuit · **P1362** Ignition Coil Cylinder 2 No Activation · **P1364** Ignition Coil Cylinder 4 No Activation · **P1316** Misfire Rate Exceeds Emissions · **P1362** TDC1 Sensor No Signal · **P1316** Spark Plug Voltage Detection Circuit Malfunction Front Bank · **P1362** IC Cylinder 2 Not Toggling After Enable · **P1364** IC Cylinder 4 Not Toggling After Enable · **P1362** Ignition Coil C Secondary Circuit Malfunction · **P1364** Ignition Coil Primary Circuit Fault · **P1316** Injector Circuit IDM Codes Detected · **P1362** IC Cylinder 2 Not Toggling After Enable · **P1364** IC Cylinder 4 Not Toggling After Enable · **P1362** Misfire During Start Cylinder 11 · **P1364** Misfire During Start Cylinder 12 · **P0303** Cylinder 3 Misfire Detected · **P0353** Ignition Coil C 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-p1363/>

