

JAGUAR · POWERTRAIN

P1366

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1366 · Jaguar

Ignition Coil Cylinder 6 No Activation

P1366 on a Jaguar means the engine control module (ECM) commanded the ignition coil for cylinder 6 to fire but detected no electrical activation or feedback from that coil circuit. The computer sees an open or inactive coil primary circuit on cylinder 6, so that cylinder is not being ignited properly.

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

Symptoms you may notice

- Check engine light illuminated, often with no other noticeable symptoms at first
- Rough idle or a noticeable shake, especially when the engine is cold
- Misfire sensation or hesitation during acceleration
- Reduced engine power or limp mode on some models
- Poor fuel economy and a strong fuel smell from the exhaust
- Occasional flashing check engine light under load if the misfire is severe

Common causes, most likely first

- 1 Failed ignition coil on cylinder 6 (open primary or secondary winding)
- 2 Damaged or corroded electrical connector at the cylinder 6 coil
- 3 Broken, chafed, or open wire in the coil trigger circuit between the ECM and coil
- 4 Poor ground connection for the ignition coil circuit
- 5 Faulty ECM driver for the cylinder 6 coil (rare but possible)
- 6 Oil or coolant contamination fouling the coil boot or connector

How to diagnose and fix it

- 1 Scan all modules for stored and pending codes, then clear and road-test to confirm P1366 returns
- 2 Inspect the cylinder 6 ignition coil connector and wiring for corrosion, looseness, or chafing
- 3 Swap the cylinder 6 coil with a known-good coil from another cylinder and see if the misfire moves
- 4 Measure resistance of the cylinder 6 coil primary and secondary windings and compare with a good coil
- 5 Check for battery voltage and a good ground at the coil connector with the key on
- 6 Perform a spark test or use an oscilloscope to confirm the ECM trigger signal at the coil
- 7 If the coil and wiring test good, check the ECM driver circuit and repair or replace as needed



Why cylinder 6 coil codes mislead

- A P1366 can be set by a coil that still sparks weakly at idle but fails under load, so a simple spark test may pass while the coil is still bad.
- Jaguar coil connectors are prone to heat damage and brittle plastic, so a coil that tests fine on the bench can still cause this code through a poor connection.
- Swapping coils between cylinders is the fastest way to confirm a coil fault, but you must clear the code and recheck because the ECM may not immediately re-enable the cylinder.
- A misfire on cylinder 6 can be caused by a leaking injector or low compression, which will not set P1366 but can mimic the same driveability symptoms and lead to unnecessary coil replacement.
- On some Jaguar models, the coil wiring harness runs close to hot exhaust components, so inspect for melted insulation before condemning the coil or ECM.

Can I keep driving with P1366?

You can usually drive short distances to a repair shop, but avoid heavy acceleration and prolonged driving because unburned fuel can overheat the catalytic converter. If the check engine light is flashing, stop driving and have the vehicle towed.

Tools that help

- OBD-II scan tool with Jaguar-specific software
- Digital multimeter
- Spark tester
- Oscilloscope (optional for trigger signal testing)
- Basic socket and ratchet set
- Torque wrench

Reading P1366

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



Often seen with

P1365 Cylinder 4 Ignition Circuit Short To B+ · **P1364** Cylinder 4 Ignition Circuit Open · **P1363** Cylinder 3 Ignition Circuit Short To Ground · **P1362** Cylinder 3 Ignition Circuit Short To B+ · **P1361** Cylinder 3 Ignition Circuit Open · **P1362** TDC1 Sensor No Signal · **P1361** TDC Sensor Intermittent Interruption · **P1364** Ignition Coil Primary Circuit · **P1362** Ignition Coil C Secondary Circuit · **P1361** Ignition Coil B Secondary Circuit · **P1365** Ignition Coil Secondary Circuit · **P1365** Ignition Coil Cylinder 5 No Activation · **P1364** Ignition Coil Cylinder 4 No Activation · **P1362** Ignition Coil Cylinder 2 No Activation · **P1361** Ignition Coil Cylinder 1 No Activation · **P1363** Ignition Coil Cylinder 3 No Activation · **P1362** TDC1 Sensor No Signal · **P1361** TDC Sensor Intermittent Interruption · **P1362** IC Cylinder 2 Not Toggling After Enable · **P1365** IC Cylinder 5 Not Toggling After Enable · **P1364** IC Cylinder 4 Not Toggling After Enable · **P1363** IC Cylinder 3 Not Toggling After Enable · **P1361** IC Circuit Low Voltage · **P1365** Ignition Coil Secondary Circuit Failure · **P1364** Ignition Coil Primary Circuit Fault · **P1361** Ignition Control IC Circuit Low Voltage · **P1363** Ignition Coil D Secondary Circuit Malfunction · **P1362** Ignition Coil C Secondary Circuit Malfunction · **P1365** IC Cylinder 5 Not Toggling After Enable · **P1363** IC Cylinder 3 Not Toggling After Enable · **P1364** IC Cylinder 4 Not Toggling After Enable · **P1362** IC Cylinder 2 Not Toggling After Enable · **P1361** IC Circuit Low Voltage · **P1365** Misfire Cylinder 12 With Fuel Cut-off · **P1364** Misfire During Start Cylinder 12 · **P1361** Misfire Cylinder 10 With Fuel Cut-off · **P1363** Misfire Cylinder 11 With Fuel Cut-off · **P1362** Misfire During Start Cylinder 11

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-p1366/>

