

JAGUAR · POWERTRAIN

P1791

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1791 · Jaguar

Ignition Supply Malfunction

P1791 on a Jaguar means the engine control module (ECM) has detected a problem with the ignition supply circuit, which is the voltage feed that powers the ignition coils and related components. The ECM monitors this supply and sets the code when the voltage is out of range, intermittent, or missing when it should be present.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Jaguar specific	Medium	Intermediate	Transmission

Symptoms you may notice

- Illuminated check engine light, often with no other noticeable symptoms
- Engine misfire or rough running, especially under load
- Difficulty starting or a crank-no-start condition
- Loss of power or reduced engine performance
- In rare cases, the engine may stall or cut out while driving

Common causes, most likely first

- 1 Blown fuse or faulty fuse box connection in the ignition supply circuit
- 2 Damaged or corroded wiring in the ignition supply harness, including chafed insulation or broken strands
- 3 Poor ground connection for the ignition system or engine block
- 4 Faulty ignition switch or ignition relay not delivering consistent power
- 5 Failed ignition coil or coil pack drawing excessive current or shorting internally
- 6 Corrosion or loose pins at the ECM connector affecting the supply voltage
- 7 Internal fault in the ECM itself (rare but possible)

How to diagnose and fix it

- 1 Check all fuses related to the ignition system and replace any that are blown
- 2 Inspect the ignition supply wiring and connectors for damage, corrosion, or loose pins
- 3 Test the ignition relay and ignition switch for proper voltage output
- 4 Measure voltage at the ignition coil connectors with the key on and during cranking
- 5 Perform a voltage drop test on the ground circuits for the ignition system
- 6 Check for technical service bulletins (TSBs) or known issues for the specific Jaguar model
- 7 If all else fails, test the ECM for internal faults or replace it after confirming power and ground integrity



Ignition supply faults often hide in plain sight

- A blown fuse is the most common cause, but simply replacing it without finding the underlying short or overload will lead to a repeat failure.
- Corroded or loose ground connections can mimic an ignition supply fault and are frequently overlooked during diagnosis.
- The ignition supply circuit often shares power with other systems, so a fault may also affect components like the fuel injectors or sensors.
- Intermittent faults may not set a code until the vehicle is driven under specific conditions, such as vibration or temperature extremes.
- Always verify the battery and charging system are healthy before chasing this code, as low voltage can trigger false ignition supply faults.

Can I keep driving with P1791?

If the engine is running normally, you can drive cautiously to a repair shop, but avoid heavy acceleration or long trips. If the engine misfires, stalls, or fails to start, stop driving and have the vehicle towed to prevent further damage or safety risks.

Tools that help

- Digital multimeter
- Test light
- Fuse puller
- Wiring diagram for the specific Jaguar model
- Scan tool with Jaguar-specific software

Reading P1791

P	Powertrain: engine, transmission and emissions.
1	Manufacturer-specific code (Jaguar): its meaning depends on the make.
7	Transmission.
91	The exact fault within that area.

Often seen with

P0351 Ignition Coil A Primary/Secondary Circuit Malfunction · **P0352** Ignition Coil B Primary/Secondary Circuit Malfunction · **P0353** Ignition Coil C Primary/Secondary Circuit Malfunction · **P0354** Ignition Coil D Primary/Secondary Circuit Malfunction · **P0355** Ignition Coil 'E' Primary/Secondary Circuit



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-p1791/>

