

JAGUAR · POWERTRAIN

P1793

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1793 · Jaguar

Ignition Supply Malfunction

P1793 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 ignition components. The ECM monitors this circuit 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

- Engine misfire or rough running, especially under load
- Difficulty starting or a no-start condition
- Illuminated check engine light or restricted performance message
- Loss of power or hesitation during acceleration
- Often no symptoms besides the warning light, especially if the fault is intermittent

Common causes, most likely first

- Blown fuse or faulty relay in the ignition supply circuit
- Damaged or corroded wiring or connectors between the ignition switch, fuse box, and ignition coils
- Faulty ignition switch or ignition relay
- Poor ground connection for the ignition system
- Failed ignition coil or coil pack drawing excessive current
- ECM internal fault affecting the ignition supply output

How to diagnose and fix it

- Check all fuses related to the ignition system and replace any that are blown
- Inspect the ignition relay and swap it with a known-good relay of the same type
- Visually inspect wiring and connectors for damage, corrosion, or loose pins
- Measure voltage at the ignition coil supply with the key on and during cranking
- Perform a voltage drop test on the ground circuit for the ignition system
- Test the ignition coils for primary and secondary resistance and replace if out of specification
- If all external circuits check out, diagnose the ECM and its connectors for faults



What most technicians overlook with P1793

- A intermittent ignition relay can cause P1793 without leaving any stored history, so always wiggle-test the relay and its socket.
- Corroded ground points on the engine block or chassis are a common cause that many technicians miss because they focus only on the positive supply side.
- The code can be set by a failing ignition coil that intermittently shorts, so testing coils when hot and under load is essential.
- On some Jaguar models, the ignition supply circuit is shared with other components, so a fault elsewhere can trigger P1793.
- After repairing the fault, the ECM may need a drive cycle to clear the code and turn off the light, so do not assume the repair failed if the light stays on initially.

Can I keep driving with P1793?

If the engine is running normally and the light is steady, you can drive cautiously to a repair shop, but avoid hard acceleration and long trips. If the engine misfires, lacks power, or stalls, stop driving and have the vehicle towed to prevent damage to the catalytic converter or other components.

Tools that help

- Digital multimeter
- Test light
- Fuse puller
- Socket set
- Wiring diagram for the specific Jaguar model

Reading P1793

P	Powertrain: engine, transmission and emissions.
1	Manufacturer-specific code (Jaguar): its meaning depends on the make.
7	Transmission.
93	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-p1793/>

