

JAGUAR · POWERTRAIN

P1747

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1747 · Jaguar

Pressure Regulator 3

P1747 on a Jaguar indicates that the transmission control module (TCM) has detected an electrical fault in the circuit for pressure regulator 3, which is one of the solenoid valves inside the automatic gearbox that manages hydraulic pressure for smooth shifting. The TCM monitors the solenoid's current draw and compares it to expected values; when the signal is out of range, it stores this code and may default to a limp-home mode.

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

Symptoms you may notice

- Illumination of the transmission warning light or check engine light, often with no other noticeable symptoms
- Harsh or delayed gear shifts, particularly when the transmission is cold
- The gearbox may enter limp-home mode, sticking in a single gear (usually third)
- Slipping between gears or a reluctance to engage drive or reverse
- A noticeable jolt or clunk when selecting gears from park or neutral

Common causes, most likely first

- 1 Faulty pressure regulator solenoid 3 itself, due to internal coil failure or contamination
- 2 Damaged or corroded wiring harness connector at the transmission, often caused by heat and fluid exposure
- 3 Chafed or broken wires in the circuit between the TCM and the solenoid
- 4 Low or degraded transmission fluid, leading to poor solenoid performance and debris buildup
- 5 A failing transmission control module (TCM) or internal circuit fault
- 6 Valve body wear or sticking valves affecting pressure regulator operation

How to diagnose and fix it

- 1 Check the transmission fluid level and condition; top up or replace if contaminated or low
- 2 Inspect the wiring harness and connector at the transmission for corrosion, chafing, or loose pins
- 3 Perform a resistance test on pressure regulator 3 and compare to factory specifications
- 4 Check for power and ground signals at the solenoid connector with the ignition on
- 5 If the solenoid is faulty, replace it and clear the code; verify repair with a road test
- 6 If wiring is damaged, repair or replace the affected section of the harness
- 7 As a last resort, diagnose the TCM for internal faults or reprogram/replace if necessary



Before replacing the pressure regulator solenoid

- A low or dirty transmission fluid condition is a frequent culprit that mimics a failed solenoid, so always check fluid quality first.
- The connector at the transmission is prone to water ingress and corrosion on Jaguar models, often causing intermittent codes before a hard failure.
- P1747 can be set by a momentary glitch in the circuit, so clearing the code and test-driving may reveal it was a one-time event.
- On some Jaguar models, a weak battery or charging system fault can cause spurious transmission codes, so verify battery health.
- Replacing the solenoid without addressing valve body wear or contaminated fluid often leads to a repeat failure.

Can I keep driving with P1747?

If the transmission is in limp-home mode or shifting harshly, avoid sustained driving at high speeds and seek service promptly to prevent further damage. If the only symptom is a warning light and the car drives normally, you can drive cautiously to a workshop, but avoid towing or heavy loads.

Tools that help

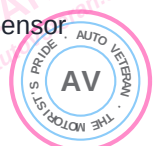
- OBD-II scan tool with Jaguar-specific software
- Digital multimeter
- Transmission fluid level dipstick or scan tool for fluid temperature
- Socket set and trim removal tools
- Factory service information for wiring diagrams and torque specs

Reading P1747

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

Often seen with

P1746 Transmission Control Unit Relay Malfunction · **P1748** Transmission Control Unit Self-Check · **P1746** Electronic Pressure Control Solenoid Circuit Open · **P1748** Pressure Control Solenoid A · **P1746** Pressure Regulator 2 · **P1748** Pressure Regulator 5 · **P1746** Electronic Pressure Control Solenoid A Open Circuit · **P1748** EPC Malfunction · **P1746** Transmission Control Module Output Stage · **P1748** Transmission Control Module Self Test · **P0700** Transmission Control System Malfunction · **P0715** Input/Turbine Speed Sensor Circuit Malfunction · **P0730** Incorrect Gear Ratio



See it working

Watch the animated explainer [How a Starter Motor Works: Pre-Engaged Starter](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/jaguar-p1747/>

