

JAGUAR · POWERTRAIN

P1795

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1795 · Jaguar

Inconsistent CAN Level

P1795 on a Jaguar means the Controller Area Network (CAN) bus is reporting inconsistent voltage levels between the two data lines, so the modules cannot reliably exchange messages. The computer has detected that the differential signal on the CAN bus is outside the expected range, often because one module or a wiring fault is pulling a line high or low.

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

Symptoms you may notice

- Multiple warning lights on the instrument cluster, often including transmission, ABS, and stability control
- Intermittent or complete loss of communication with one or more control modules
- Erratic transmission shifting or the gearbox entering limp mode
- Engine may crank but not start, or start and run poorly due to missing module data
- Often no symptoms besides the warning light if the fault is intermittent
- Non-starting condition if the CAN bus is shorted and the immobilizer cannot communicate

Common causes, most likely first

- Damaged or chafed CAN bus wiring between modules, especially at harness flex points or near heat sources
- Corroded or loose connector pins at any module on the CAN network
- A faulty control module internally shorting the CAN lines
- Water ingress into a module connector or harness, common in Jaguar footwell and trunk areas
- Failed termination resistor inside a module, causing incorrect bus voltage levels
- Aftermarket accessories or poor previous repairs tapping into the CAN wiring
- Low battery voltage or a failing charging system causing modules to drop offline intermittently



How to diagnose and fix it

- 1 Connect a scan tool and read all module fault codes to identify which modules are offline or reporting CAN faults
- 2 Measure battery voltage and charging system output; low voltage can cause spurious CAN faults
- 3 Inspect the CAN bus wiring and connectors at each module for corrosion, damage, or water intrusion
- 4 Use an oscilloscope or break-out box to measure CAN High and CAN Low voltages and check for a short to ground or power
- 5 Disconnect modules one at a time to see if the bus voltage returns to normal, isolating the faulty module
- 6 Repair or replace damaged wiring, pins, or connectors, then clear codes and verify communication with all modules
- 7 If a module is internally shorting the bus, replace or reprogram that module as required

Before you replace a control module

- A single module with water damage can pull the entire CAN bus down, so always check for water ingress in footwell and trunk modules before condemning any electronics.
- Intermittent P1795 codes often trace to a chafed wire in the harness where it passes through the firewall or near the exhaust, not to a failed module.
- Low battery voltage from a failing alternator or aged battery can cause modules to drop off the bus and set P1795 without any wiring fault.
- Aftermarket alarms, radios, or phone kits tapped into CAN wiring are a frequent cause of inconsistent CAN levels on older Jaguars.
- The code does not always mean the CAN bus is dead; a single module with a faulty internal transceiver can set it while the rest of the network works fine.

Can I keep driving with P1795?

Do not drive the vehicle if multiple warning lights are on or the transmission is in limp mode, because loss of CAN communication can affect steering, braking, and shifting. If the code is intermittent and the car drives normally, have it diagnosed promptly and avoid long trips until repaired.

Tools that help

- Jaguar-compatible scan tool with full module communication capability
- Digital multimeter
- Oscilloscope
- CAN bus break-out box
- Wiring diagram and connector pinout reference
- Trim removal tools for accessing modules and harnesses



Reading P1795

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

Often seen with

P1794 Powertrain Control Module Battery Direct Power Circuit · **P1794** Powertrain Control Module Battery Direct Power Circuit · **P1794** Battery Or Circuit Failure · **P1794** Battery Voltage Circuit · **U0001** Loss of Bus Communication · **U0100** Lost Communication With ECM/PCM A · **U0121** Lost Communication With Anti-Lock Brake System (ABS) Control · **U0140** Lost Communication With Instrument Panel Cluster

See it working

Watch the animated explainer [Excavator Simulator: Hydraulics You Can Operate](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/jaguar-p1795/>

