

JAGUAR · POWERTRAIN

P1697

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1697 · Jaguar

Cruise Control Distance Control Input Circuit

P1697 on a Jaguar indicates that the cruise control module has detected an invalid or missing signal from the distance control input circuit, which is part of the adaptive cruise control system on models so equipped. The module monitors the voltage or data line from the distance sensor or switch and sets this code when the expected input is out of range or absent.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Jaguar specific	Low	Intermediate	Computer and output circuits

Symptoms you may notice

- Cruise control or adaptive cruise control will not engage or drops out intermittently
- A warning message such as 'Cruise Control Unavailable' or 'Forward Alert Not Available' appears in the instrument cluster
- The cruise control indicator light may flash or stay off when the button is pressed
- Often no symptoms besides the warning light, especially if the fault is intermittent
- On models with adaptive cruise, the following distance setting may not change or the system may default to the longest gap
- In some cases, other driver-assistance features like forward collision warning may be disabled

Common causes, most likely first

- 1 Faulty or contaminated distance control sensor (radar or camera) behind the front grille or windshield
- 2 Damaged, corroded, or disconnected wiring or connector at the distance sensor or cruise control module
- 3 Failed cruise control switch or distance setting switch on the steering wheel
- 4 Software glitch or outdated calibration in the cruise control module
- 5 Blown fuse or poor ground connection for the cruise control system
- 6 Internal fault in the cruise control module itself
- 7 Aftermarket accessories or previous accident damage affecting the sensor alignment or wiring



How to diagnose and fix it

- 1 Use a Jaguar-compatible scan tool to read all cruise control and driver-assistance module codes and freeze-frame data
- 2 Visually inspect the distance sensor and its wiring for damage, corrosion, or loose connectors, and check the sensor face for obstructions
- 3 Check the cruise control switch operation and wiring at the steering wheel, testing continuity and resistance where applicable
- 4 Verify battery voltage and inspect fuses and grounds related to the cruise control module
- 5 If the sensor is suspect, perform a calibration or relearn procedure as required after any adjustment or replacement
- 6 Repair or replace faulty wiring, connectors, switches, or the distance sensor as indicated by diagnostic tests
- 7 Clear codes and perform a road test to confirm the cruise control system operates correctly and the code does not return

Before you replace the distance sensor

- A common oversight is a dirty or obstructed radar sensor face or a misaligned sensor after a minor front-end bump, which can set P1697 without any hard failure.
- The code can be set by a weak battery or charging system issue that causes voltage drops, so always check battery health and grounds before condemning the sensor.
- On some Jaguar models, the distance control input is shared with the forward-looking camera, and a windshield replacement without recalibration can trigger this code.
- Intermittent faults often trace to a chafed wire harness near the front bumper or a corroded connector pin that only acts up in wet weather.
- Do not assume the cruise control module is faulty; it is rarely the cause, and replacing it without proper diagnosis can introduce new configuration issues.

Can I keep driving with P1697?

The vehicle remains safe to drive because the fault affects only the cruise control and driver-assistance features, not the engine, brakes, or steering. Avoid using cruise control until the fault is repaired, and be prepared for the system to disengage unexpectedly if you attempt to use it.

Tools that help

- Jaguar-compatible OBD-II scan tool with cruise control and driver-assistance module access
- Digital multimeter for voltage, resistance, and continuity testing
- Trim removal tools for accessing sensors and connectors
- Wiring diagram and service information for the specific Jaguar model
- Calibration or relearn tool if required after sensor replacement



Reading P1697

- P** Powertrain: engine, transmission and emissions.
- 1** Manufacturer-specific code (Jaguar): its meaning depends on the make.
- 6** Computer and output circuits.
- 97** The exact fault within that area.

Often seen with

P1698 Engine Torque Control Cut Signal Circuit Low Input · **P1696** Traction Control Fuel Cut Signal Low Input · **P1696** PCM Failure EEPROM Write Denied · **P1698** No CCD Messages From TCM · **P1696** CAN Link Engine Control Module Cruise Control Module Circuit · **P1696** Traction Control Fuel Cut Signal Low Input · **P1696** Remote Keyless Entry Voltage High · **P1698** No CCD Messages Received From PCM · **P1696** PCM Failure EEPROM Write Denied · **P1698** No CCD Messages Received From PCM · **P0565** Cruise Control On Signal · **P0566** Cruise Control Off Signal · **P0567** Cruise Control Resume Signal

See it working

Watch the animated explainer [V6 Engine Explained: 60° Bank and Firing Order](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/jaguar-p1697/>

