



P0CC7

Charge Port Door A Open Request Switch Circuit

P0CC7 indicates that the charge port door control module has detected an open request switch circuit for the charge port door, meaning the signal from the switch that tells the module to open the door is outside the expected range. The module sets this code when the switch circuit is open, shorted, or otherwise not providing a valid input, which prevents the door from opening on command.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Generic (all makes)	Low	Intermediate	Hybrid propulsion

Symptoms you may notice

- The charge port door does not open when the open request switch is pressed
- A warning light or message on the instrument cluster indicating a charge port door fault
- The charge port door may open intermittently or only after multiple presses
- Often no symptoms besides the warning light, with the door still functioning normally
- The vehicle may refuse to start charging if the door cannot be opened
- A clicking or no-click sound from the door actuator when the switch is pressed

Common causes, most likely first

- 1 Faulty charge port door open request switch (stuck open or damaged)
- 2 Damaged or disconnected wiring harness at the charge port door hinge or connector
- 3 Corroded or loose electrical connector at the switch or control module
- 4 Open circuit in the switch ground or signal wire
- 5 Failed charge port door control module
- 6 Water intrusion or debris causing a short in the switch circuit
- 7 Blown fuse or poor power supply to the switch circuit



How to diagnose and fix it

- 1 Verify the code with a scan tool and check for any related body control module codes
- 2 Inspect the charge port door switch for physical damage, sticking, or contamination
- 3 Check the wiring harness and connector at the charge port door for corrosion, chafing, or looseness
- 4 Measure resistance and continuity of the switch circuit with a multimeter, comparing to manufacturer specifications
- 5 Test the switch operation by monitoring live data for the open request input while pressing the switch
- 6 Repair or replace damaged wiring, connectors, or the switch as needed
- 7 Clear the code and verify the repair by cycling the charge port door several times

Charge port door switch circuit quirks

- A common misdiagnosis is replacing the charge port door actuator when the actual fault is a simple open circuit in the switch wiring at the door hinge.
- The code can set intermittently due to water intrusion after a car wash or rain, so always check for moisture in the connector before condemning parts.
- Some vehicles use a hall-effect sensor rather than a mechanical switch, and a weak magnet or misalignment can trigger this code without any visible damage.
- The charge port door open request switch may share a ground with other body components, so a bad ground elsewhere can set this code along with unrelated symptoms.
- Always check for technical service bulletins (TSBs) for the specific vehicle, as some models have known issues with the switch connector design.

Can I keep driving with P0CC7?

The vehicle remains safe to drive because this fault only affects the charge port door opening function, but you may be unable to charge the vehicle if the door cannot be opened. Avoid forcing the door open, as this can cause further damage to the actuator or latch mechanism.

Tools that help

- OBD-II scan tool with live data capability
- Digital multimeter
- Trim removal tool
- Electrical contact cleaner
- Vehicle-specific service information



Reading P0CC7

- P** Powertrain: engine, transmission and emissions.
- 0** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- C** Hybrid propulsion.
- C7** The exact fault within that area.

Often seen with

P0CC6 Charge Port Door A Open Request Switch Wake-Up Circuit · **P0CC8** Charge Port Door A Open Request Switch Circuit Performance · **P0CC9** Charge Port Door A Open Request Switch Circuit Low · **P0CCA** Charge Port Door A Open Request Switch Circuit High · **P0CCB** Charge Port Door A Open Request Switch Circuit Intermittent/

See it working

Watch the animated explainer [How a Car Clutch Works: Diaphragm Clutch Cutaway](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p0cc7/>

