

GENERIC · POWERTRAIN

P0CC9

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P0CC9

Charge Port Door A Open Request Switch Circuit Low

P0CC9 means the charge port door control module has detected a low-voltage condition on the 'open request' switch circuit, which is the signal line that tells the module the driver wants the charge door to open. The computer expects to see a specific voltage on that circuit when the switch is at rest and a different voltage when pressed, and a reading below the acceptable threshold for too long sets this code.

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

Symptoms you may notice

- The charge port door will not open when you press the release button or switch
- The charge port door opens intermittently or only after multiple presses
- A warning light or message on the dash indicating a charge port door fault
- The charge port door may open on its own without any switch input
- Often no symptoms besides the warning light, especially if the door still opens manually
- In some vehicles, the vehicle may refuse to start charging because it cannot confirm the door state

Common causes, most likely first

- 1 A faulty charge port door open request switch that is stuck closed or has high internal resistance
- 2 A short to ground in the signal wire between the switch and the charge port door control module
- 3 Corrosion or water intrusion in the switch connector or the module connector, common on charge port doors exposed to weather
- 4 A damaged wire harness at the hinge point of the charge port door where flexing occurs
- 5 A failed charge port door control module that misreads the switch voltage
- 6 A poor ground connection for the switch or the module, causing a reference voltage drop
- 7 Aftermarket or damaged charge port components that alter the circuit resistance



How to diagnose and fix it

- 1 Use a scan tool to read the charge port door switch data and confirm the low-voltage condition matches the code
- 2 Visually inspect the charge port door switch, connector, and wiring for corrosion, water damage, or physical damage
- 3 Disconnect the switch and measure resistance across its terminals while pressing and releasing it, comparing to specifications
- 4 Check the signal wire from the switch to the module for a short to ground using a multimeter and wiring diagram
- 5 Inspect the harness at the door hinge for chafing or broken strands, and repair as needed
- 6 Verify the module ground and power supply are clean and tight before condemning the module
- 7 If all wiring and the switch test good, replace the charge port door control module and recheck for the code

Charge port door switch faults that fool technicians

- A switch that tests fine with a multimeter can still set this code intermittently when water enters the connector and temporarily shorts the signal to ground.
- The charge port door open request switch often shares a ground with other body controls, so a bad ground elsewhere can cause a low-voltage reading on this circuit without any fault in the switch itself.
- Some vehicles use a hall-effect or proximity switch rather than a simple mechanical contact, and a low voltage code can be set by a misadjusted switch rather than a failed one.
- The code can be stored by a brief short to ground during a car wash or heavy rain, and it may not return after the connector dries out, so clear the code and recheck before replacing parts.
- A charge port door that has been manually forced open or closed can bend the switch actuator and cause a constant low signal that mimics a wiring short.

Can I keep driving with P0CC9?

You can generally drive the vehicle with this code because it does not affect the powertrain, but you may be unable to open the charge port door to recharge, so avoid long trips that require charging until it is fixed. Do not force the door open, as that can damage the switch and latch assembly further.

Tools that help

- OBD-II scan tool with live data capability
- Digital multimeter
- Wiring diagram for the charge port door circuit
- Trim removal tools
- Contact cleaner and dielectric grease
- Basic hand tools and socket set



Reading P0CC9

- P** Powertrain: engine, transmission and emissions.
- 0** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- C** Hybrid propulsion.
- C9** The exact fault within that area.

Often seen with

P0CC8 Charge Port Door A Open Request Switch Circuit Performance · **P0CCA** Charge Port Door A Open Request Switch Circuit High · **P0CCB** Charge Port Door A Open Request Switch Circuit Intermittent/ · **P0CCC** Charge Port Door A Position Sensor Circuit · **P0CCD** Charge Port Door A Position Sensor Circuit Performance

See it working

Watch the animated explainer [How a Turbocharger Works, Step by Step](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p0cc9/>

