



P0CCD

Charge Port Door A Position Sensor Circuit Performance

P0CCD means the charge port door position sensor on the electric vehicle's charging inlet is not reporting a plausible position, so the control module cannot confirm whether the door is open, closed, or moving. The computer compares the sensor signal against expected values for each commanded door state and sets this code when the signal stays out of range or fails to change as expected during a door cycle.

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

Symptoms you may notice

- Charge port door may not open or close when commanded from the touchscreen or app
- Warning light or message on the instrument cluster indicating a charge port fault
- Vehicle may refuse to start charging because it cannot confirm the door is open
- Charge port door may appear closed but the vehicle reports it as open, or vice versa
- Intermittent operation of the door in cold or wet weather
- Often no symptoms besides the warning light if the door still latches and charges normally

Common causes, most likely first

- 1 Charge port door position sensor itself is faulty or has an internal short
- 2 Wiring harness to the sensor is chafed, corroded, or has a loose connector at the charge port
- 3 Charge port door actuator or latch mechanism is binding, preventing the sensor from reaching its expected position
- 4 Debris, ice, or damage in the charge port door track keeps the door from completing its travel
- 5 Charge port control module has a software calibration issue or internal fault
- 6 Water intrusion into the charge port assembly corrodes the sensor or connector pins



How to diagnose and fix it

- 1 Inspect the charge port door for physical damage, debris, or ice and clean the track and latch area
- 2 Check the sensor connector at the charge port for corrosion, water intrusion, and loose pins
- 3 Use a scan tool to command the charge port door open and closed while watching the sensor position parameter for smooth, plausible changes
- 4 Backprobe the sensor signal and ground wires to verify reference voltage and ground integrity
- 5 Check for technical service bulletins or software updates for the charge port control module before replacing parts
- 6 Replace the charge port door position sensor or the charge port assembly if the sensor signal is erratic or dead
- 7 Clear the code and perform a door calibration or relearn procedure if the manufacturer requires one after repair

What the charge port door sensor code hides

- A binding door latch or a bent hinge can set this code even when the sensor is perfectly good, because the sensor never sees the door reach its fully open or closed position.
- Water and road salt collect in the charge port area and corrode the sensor connector pins, which is a common cause on vehicles that are parked outside or driven in winter.
- Some vehicles set P0CCD after a low-voltage battery event or a jump start, and the code clears after the module is reset and the door is cycled a few times.
- The charge port door position sensor is often part of the charge port assembly on some models, so a sensor fault can mean replacing the whole inlet if the sensor is not serviced separately.
- A charge port door that is manually forced open or closed can bend the sensor linkage and set this code without any visible damage from the outside.

Can I keep driving with P0CCD?

The vehicle is generally safe to drive because the charge port door does not affect steering, braking, or propulsion, but charging may be blocked if the vehicle cannot confirm the door is open. Avoid forcing the door and do not attempt to charge until the fault is repaired if the vehicle refuses to start a charge session.

Tools that help

- OBD-II scan tool with bidirectional control and live data
- Digital multimeter
- Trim removal tools
- Contact cleaner and dielectric grease
- Service information for charge port door calibration



Reading P0CCD

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

Often seen with

P0CCE Charge Port Door A Position Sensor Circuit Low · **P0CCF** Charge Port Door A Position Sensor Circuit High · **P0CD0** AC Plug Voltage Sense Circuit · **P0CD1** Charge Port Door A Unlock Control Circuit · **U0155** Lost Communication With Body Control Module

See it working

Watch the animated explainer [How a Six-Speed Manual Gearbox Works](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p0ccd/>

