

GENERIC · POWERTRAIN

P0D03

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P0D03

Control Pilot Charging Ventilation Switch Circuit High

P0D03 is set when the electric vehicle supply equipment (EVSE) control pilot circuit reports a high-voltage condition on the charging ventilation switch signal, indicating the vehicle's charging system has detected an abnormal high state on the ventilation request line. The computer expects a specific voltage range on this circuit and flags the code when the signal stays above the upper threshold for a calibrated time.

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

Symptoms you may notice

- Charging may not initiate or may stop shortly after plugging in
- The charging system warning light or service vehicle soon message illuminates
- The vehicle may refuse to enter a high-power charging mode
- Often no symptoms besides the warning light, with normal charging behavior
- Battery cooling or ventilation fans may run unexpectedly or not at all during charging
- Remote start or pre-conditioning features may be disabled while the code is active

Common causes, most likely first

- Damaged or chafed wiring in the control pilot or ventilation switch circuit causing a short to voltage
- Failed charging ventilation switch or sensor internal short
- Corroded or loose connector pins at the EVSE interface or charge port
- Faulty EVSE control module or onboard charger reporting an incorrect high signal
- Water intrusion into the charge port assembly or wiring harness
- Aftermarket charging equipment or improper modification of the pilot circuit
- Software calibration issue in the charging control module misinterpreting the signal



How to diagnose and fix it

- 1 Inspect the charge port and EVSE connector for corrosion, debris, or bent pins and clean or repair as needed
- 2 Check the control pilot and ventilation switch circuit wiring for shorts to voltage, chafing, or loose connections
- 3 Measure the voltage on the ventilation switch signal circuit at the charge port and compare to manufacturer specifications
- 4 Test the charging ventilation switch or sensor for internal short and replace if out of specification
- 5 Verify the EVSE is functioning correctly by testing with a known-good compatible charging station
- 6 Check for water intrusion or damage in the charge port assembly and replace seals or components as required
- 7 Clear the code and perform a charging system relearn or software update if directed by the manufacturer

What the ventilation switch signal really does

- The control pilot circuit communicates charging readiness and ventilation requirements between the EVSE and vehicle, so a high signal can be caused by the charging station rather than the car itself.
Many vehicles set P0D03 intermittently due to a marginal connection at the charge port that only acts up in damp weather or after a car wash.
- A failed ventilation switch is often misdiagnosed as a faulty onboard charger, leading to unnecessary replacement of expensive components.
- The code can be triggered by a charging station that is not fully compatible with the vehicle's pilot signal expectations, even though the station works on other cars.
Always check for related codes in the charging system before replacing parts, as a high signal on one circuit can be a symptom of a ground fault elsewhere.

Can I keep driving with P0D03?

The vehicle can usually be driven normally, but charging may be limited or unavailable, so avoid relying on high-power charging until the fault is repaired. Do not continue charging if you notice overheating, burning smells, or repeated charging interruptions.

Tools that help

- Digital multimeter
- OBD-II scan tool with live data capability
- Manufacturer service information for circuit diagrams and voltage specifications
- Insulation resistance tester
- Terminal pick and electrical contact cleaner



Reading P0D03

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

Often seen with

P0C00 Drive Motor A Current Low · **P0D02** Hybrid/EV Charging System Voltage Out Of Range · **P0D04** Control Pilot Charging Ventilation Switch Intermittent/Errat · **U0111** Lost Communication With Battery Energy Control Module 'A'

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/p0d03/>

