

GENERIC · POWERTRAIN

P0D05

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P0D05

Control Pilot Charging Ventilation Switch Stuck Off

P0D05 indicates that the vehicle's charging control module has detected a fault where the control pilot ventilation switch remains in the off position when it should be on, preventing proper communication between the charging system and the ventilation system. The computer monitors the switch's expected state during charging and sets this code when the switch fails to activate as commanded.

SYSTEM

Powertrain

CODE TYPE

Generic (all makes)

SEVERITY

Medium

FIX DIFFICULTY

Intermediate

AREA

Hybrid propulsion

Symptoms you may notice

- Charging system warning light illuminated on the dashboard
- Vehicle may fail to initiate or complete a charging session
- Reduced charging power or intermittent charging interruptions
- Ventilation system may not activate during charging as designed
- Often no symptoms besides the warning light, with charging still functional

Common causes, most likely first

- 1 Faulty control pilot ventilation switch that is stuck in the open or off position
- 2 Damaged or corroded wiring harness between the charging control module and the ventilation switch
- 3 Poor electrical connection at the switch connector or ground point
- 4 Failed charging control module not sending the correct activation signal
- 5 Ventilation system actuator or relay failure preventing switch operation
- 6 Software glitch in the charging control module requiring recalibration or update

How to diagnose and fix it

- 1 Use an OBD-II scanner to confirm P0D05 and check for related codes in the charging and ventilation systems
- 2 Inspect the control pilot ventilation switch connector and wiring for corrosion, damage, or loose pins
- 3 Test the switch with a multimeter for continuity and proper operation when commanded on
- 4 Check the charging control module's output signal to the switch using a wiring diagram and backprobing
- 5 Verify the ventilation system relay and actuator function, replacing if faulty
- 6 Repair or replace damaged wiring or connectors as needed
- 7 Clear the code and perform a charging system test to confirm the repair



When the switch is not the real culprit

- A stuck-off ventilation switch often results from a binding mechanical linkage in the ventilation door rather than an electrical failure, so inspect the actuator travel before replacing parts.
- Corrosion inside the switch connector caused by moisture ingress is a common hidden cause that can mimic a failed switch and is easily overlooked during diagnosis.
- The charging control module may set this code if the ventilation system's fuse is blown, so always check fuses before condemning the switch or module.
- Some vehicles require a software update to the charging control module to correct false P0D05 setting under certain charging conditions, so check for technical service bulletins.
- The code can be stored intermittently due to a poor ground connection at the switch, which may test fine when probed but fail under vibration or temperature changes.

Can I keep driving with P0D05?

You can generally continue driving the vehicle, but charging may be limited or unavailable, so avoid long trips that depend on charging and schedule a diagnostic inspection soon to prevent further charging system issues.

Tools that help

- OBD-II scanner with live data capability
- Digital multimeter
- Wiring diagram for the charging and ventilation circuits
- Trim removal tools for accessing connectors
- Basic hand tools for electrical repairs

Reading P0D05

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

Often seen with

P0C94 Hybrid/EV Battery Temperature Sensor K Circuit Low · **P0C95** Hybrid/EV Battery Temperature Sensor K Circuit High · **P0C96** Hybrid/EV Battery Temperature Sensor K Circuit Intermittent/ · **P0D04** Control Pilot Charging Ventilation Switch Intermittent/Errat · **P0D06** Control Pilot Charging Ventilation Switch Stuck On



See it working

Watch the animated explainer [How a MAP Sensor Works: Engine Vacuum and Load](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p0d05/>

