



P0D27

Battery Charger Input Voltage Too Low

P0D27 indicates that the battery charger input voltage, as monitored by the vehicle's control system, has fallen below the expected threshold. The computer detects this when the charger's input circuit reports a voltage lower than the manufacturer's specified minimum, typically during charging or when the charger is connected to an external power source.

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

Symptoms you may notice

- Illumination of the battery charger system warning light or a generic check engine light
- The battery charger may fail to initiate or complete a charging cycle
- Reduced charging performance or intermittent charging operation
- Often no symptoms besides the warning light, especially if the vehicle is not actively charging
- Possible slow battery drain if the charger is unable to maintain the auxiliary battery

Common causes, most likely first

- 1 Weak or faulty external power source supplying the charger
- 2 Damaged or corroded wiring or connectors in the charger input circuit
- 3 Blown fuse or tripped circuit breaker protecting the charger input
- 4 Failed battery charger unit or internal component
- 5 Poor ground connection for the charger or its control module
- 6 Faulty voltage sensing circuit within the charger or control module

How to diagnose and fix it

- 1 Verify the external power source voltage and ensure it meets the charger's input requirements
- 2 Inspect and test all wiring, connectors, and fuses in the charger input circuit for damage or corrosion
- 3 Check and clean ground connections related to the charger system
- 4 Measure input voltage at the charger connector with a multimeter and compare to specifications
- 5 If voltage is low at the charger but present at the source, trace the circuit for voltage drops
- 6 Replace the battery charger unit if input voltage is correct but the code persists
- 7 Clear the code and retest the system to confirm the repair



What Most Techs Overlook on P0D27

- A common oversight is assuming the charger itself is defective when the actual problem is a weak or inconsistent external power supply, such as a worn outlet or undersized extension cord.
- The code can be set by a momentary voltage dip during engine cranking if the charger is active, so check for loose connections that only act up under vibration or load.
- On vehicles with dual battery systems, the charger input voltage may be monitored only when the ignition is in a specific state, so the fault may not appear during a quick scan.
- Corroded pins in the charger connector often cause low voltage readings without visible damage, so a voltage drop test under load is more reliable than a simple visual inspection.
- Some chargers have a soft-start feature that briefly draws low voltage, and a marginal power source can trigger this code intermittently, leading to misdiagnosis of the charger.

Can I keep driving with P0D27?

If the warning light is on but the vehicle drives normally, you can continue driving, but avoid relying on the battery charger until the fault is repaired. If the charger is needed to maintain battery charge, do not undertake long trips without addressing the issue to prevent a no-start condition.

Tools that help

- Digital multimeter
- Test light
- Fuse puller
- Wire brush or contact cleaner
- Scan tool with live data capability

Reading P0D27

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

Often seen with

P0562 System Voltage Low · **P0563** System Voltage High · **P0D26** Battery Charger System Precharge Time Too Long · **P0D28** Battery Charger Input Voltage Too High · **U0111** Lost Communication With Battery Energy Control Module 'A'



See it working

Watch the animated explainer [Manual Car Driving Simulator: Learn Clutch Control](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p0d27/>

