

GENERIC · POWERTRAIN

P0D29

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P0D29

Battery Charger Input Current Too Low

P0D29 is a generic powertrain code indicating that the battery charger input current is too low, as detected by the battery charger control module. The module monitors the current drawn from the AC supply or charging source and sets this code when the measured input current falls below the expected threshold for the charging conditions.

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

Symptoms you may notice

- Charging system warning light or message on the dashboard
- Battery fails to charge or charges very slowly
- Reduced electric-only range or poor hybrid performance
- The vehicle may not start after being plugged in
- Often no symptoms besides the warning light

Common causes, most likely first

- Faulty charging station or household outlet delivering insufficient current
- Damaged or worn charging cable, connector, or plug
- Blown fuse or tripped circuit breaker in the charging circuit
- High resistance in the wiring between the charge port and the charger module
- Internal failure of the battery charger module
- Poor ground connection for the charger circuit
- Software glitch in the charger control module requiring recalibration

How to diagnose and fix it

- Verify the charging source by testing the outlet or charging station with another vehicle or a multimeter
- Inspect the charging cable and connectors for damage, corrosion, or loose pins
- Check all fuses and circuit breakers related to the charging system
- Measure voltage drop across the charging circuit wiring and grounds to identify high resistance
- Perform a visual inspection of the charge port and charger module connectors for signs of overheating or loose terminals
- Use a scan tool to monitor live input current data and compare with specifications
- If all external factors are ruled out, test or replace the battery charger module as per manufacturer procedures



Don't overlook the charging station

- A common oversight is blaming the vehicle when the actual problem is a weak public charging station or a worn outlet at home, so always test with a known-good power source first.
- The code can be set by a marginal connection at the charge port that only shows up under load, so wiggle tests and voltage drop measurements are more reliable than a simple visual check.
- Some vehicles set P0D29 when the charging current is intentionally limited by the charger's software due to a detected fault elsewhere, so clearing the code without addressing the root cause will only lead to a repeat.
- High ambient temperatures or a hot charging cable can cause the charger to derate current, and if the derating is severe enough, it may trigger this code even though no hardware has failed.
- A weak 12-volt auxiliary battery can cause erratic behavior in the charger control module, leading to false input current readings, so always check the auxiliary battery's state of health.

Can I keep driving with P0D29?

You can usually continue driving the vehicle using the internal combustion engine or existing battery charge, but avoid relying on the charging system until the fault is repaired. Do not attempt to charge the vehicle if you suspect a damaged cable or outlet, as this could pose a safety risk.

Tools that help

- Digital multimeter
- OBD-II scan tool with live data capability
- Insulated gloves
- Test light
- Manufacturer service information

Reading P0D29

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

Often seen with

P0D2A Battery Charger Input Current Too High · **P0D2B** Control Pilot Indicator Control Circuit/Open · **P0D2C** Charge Status Indicator A Control Circuit/Open · **P0D2D** Drive Motor A Inverter Voltage Sensor A Circuit · **P0D2E** Drive Motor A Inverter Voltage Sensor A Circuit Range/Perfor



See it working

Watch the animated explainer [Excavator Simulator: Hydraulics You Can Operate](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p0d29/>

