

GENERIC · POWERTRAIN

P0A8D

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P0A8D

14 Volt Power Module System Voltage Low

P0A8D indicates that the 14-volt power module, which supplies and regulates low-voltage power for the hybrid or electric vehicle systems, has detected a system voltage that is lower than expected. The control module sets this code when the monitored voltage falls below the calibrated threshold for a specified time, often due to a weak auxiliary battery, poor connection, or a failing power module.

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

Symptoms you may notice

- Illumination of the check engine light or hybrid system warning light
- Often no symptoms besides the warning light
- Difficulty starting or a completely dead 12-volt system
- Electrical accessories behaving erratically or dimming
- Reduced power or forced limp mode in some vehicles
- The hybrid system may fail to enter ready mode

Common causes, most likely first

- Weak or failing 12-volt auxiliary battery
- Corroded, loose, or damaged battery cables and ground connections
- Faulty 14-volt power module internal failure
- Blown fuse or fusible link in the power module circuit
- High resistance in the charging circuit from the DC-DC converter
- Voltage drop due to a parasitic draw or short circuit
- Poor connection at the power module harness connector

How to diagnose and fix it

- Perform a battery test with a conductance tester and recharge or replace the battery if it fails
- Inspect and clean all battery terminals, ground straps, and power module connectors
- Check all fuses and fusible links related to the 14-volt power module circuit
- Measure voltage drop across the charging circuit and repair any excessive resistance
- Test the DC-DC converter output and compare to manufacturer specifications
- If voltage supply and connections are good, follow the diagnostic flow for power module replacement
- Clear codes and verify the repair with a test drive and live data monitoring

What a low 14-volt code really means

- A weak auxiliary battery is the most common cause, yet many technicians replace the power module first without testing the battery under load.
- This code can be set by a poor ground connection that only shows up under vibration, so a visual inspection is not enough.
- The 14-volt power module often shares circuits with the DC-DC converter, and a fault there can mimic a module failure.
- Voltage low codes may be stored intermittently due to a parasitic draw that drains the battery overnight, so check for key-off drains.
- After repairing the root cause, the code may remain stored until several drive cycles complete, so do not assume the fix failed.

Can I keep driving with P0A8D?

If the vehicle starts and runs normally, you can drive short distances to a repair shop, but avoid relying on the vehicle for long trips. If the warning light is accompanied by reduced power or a no-start condition, do not drive and arrange a tow.

Tools that help

- Digital multimeter
- Battery conductance tester
- OBD-II scan tool with live data
- Fuse puller and test light
- Socket set and terminal cleaning brush

Reading P0A8D

P	Powertrain: engine, transmission and emissions.
0	Generic (SAE) code: it means the same thing on every OBD-II vehicle.
A	Hybrid propulsion.
8D	The exact fault within that area.

Often seen with

P0562 System Voltage Low · **P0563** System Voltage High · **P0A8E** 14 Volt Power Module System Voltage High · **P0A8F** 14 Volt Power Module System Performance · **P0A90** Drive Motor A Performance



See it working

Watch the animated explainer [How a MAF Sensor Works: Hot-Wire Airflow Explained](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p0a8d/>

