



P3000 · Audi

Fuel level is too low, High voltage battery assembly failure, High voltage battery is not sufficiently charged

P3000 on Audi vehicles indicates that the high-voltage battery assembly has reported a failure or that the battery is not sufficiently charged, and in some cases the code is set when the fuel level is too low. The engine control module (ECM) or battery management controller monitors the high-voltage system and low-fuel condition, storing this code when the battery state of charge falls below a threshold or a fault is detected in the battery assembly.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Audi specific	High	Professional	Fuel and air metering and auxiliary emission controls

Symptoms you may notice

- Illumination of the check engine light or high-voltage system warning light
- Reduced electric-only driving range or the vehicle switching to combustion engine more frequently
- Loss of power or reduced acceleration, especially under electric load
- The vehicle may refuse to start or enter a reduced-power limp mode
- Often no symptoms besides the warning light, particularly if the fault is intermittent or related to low fuel level
- In some cases, the fuel gauge may read low or the low-fuel warning may appear

Common causes, most likely first

- 1 High-voltage battery pack state of charge is too low due to prolonged storage or infrequent charging
- 2 Failure within the high-voltage battery assembly, such as a faulty cell module or battery management system (BMS) sensor
- 3 Low fuel level causing the engine to not start or the hybrid system to disable electric mode
- 4 Faulty fuel level sensor or wiring, leading the control module to incorrectly detect low fuel
- 5 Degradation of the high-voltage battery over time, reducing its capacity to hold charge
- 6 Software glitch in the battery control module or engine control module requiring a software update
- 7 Poor connection or corrosion at the high-voltage battery terminals or connectors



How to diagnose and fix it

- 1 Check the fuel level and refill the tank if it is low; clear the code and test-drive to see if it returns
- 2 Inspect the 12-volt battery and charging system, as a weak 12-volt battery can cause communication faults and false codes
- 3 Use a scan tool to read the high-voltage battery state of charge and individual cell voltages; recharge the high-voltage battery if it is low
- 4 Perform a visual inspection of the high-voltage battery assembly, connectors, and wiring for damage or corrosion
- 5 Check for technical service bulletins (TSBs) or software updates for the battery control module or ECM
- 6 If the battery assembly is faulty, diagnose and replace the high-voltage battery pack or faulty components as needed
- 7 After repairs, clear the code and perform a road test to verify the fix and ensure the code does not return

Before replacing the high-voltage battery

- A low fuel level can trigger P3000 on Audi hybrids because the engine must run to charge the high-voltage battery; always check the fuel level first.
- The code may be set by a simple software glitch; check for and install any available control module updates before condemning the battery.
- Intermittent P3000 can be caused by a weak 12-volt battery affecting the hybrid system's communication, so load-test the 12-volt battery early.
- High-voltage battery state of charge can drop below threshold if the vehicle sits unused for weeks; a long drive or dedicated charger may resolve it.
- Do not assume the battery assembly is failed; a faulty fuel level sensor or wiring can mimic low fuel and set this code.

Can I keep driving with P3000?

If the code is accompanied by a high-voltage system warning or reduced power, avoid driving and have the vehicle towed to an Audi service center. If only the check engine light is on and the car drives normally, you may drive cautiously to a workshop, but avoid heavy electric load and long trips.

Tools that help

- OBD-II scan tool with Audi-specific software
- Digital multimeter
- High-voltage battery charger
- Insulation tester
- Battery load tester



Reading P3000

- P** Powertrain: engine, transmission and emissions.
- 3** Manufacturer-specific code (Audi): its meaning depends on the make.
- 0** Fuel and air metering and auxiliary emission controls.
- 00** The exact fault within that area.

Often seen with

P0087 Fuel Rail/System Pressure - Too Low · **P0562** System Voltage Low · **P0A7F** Hybrid/EV Battery Pack Deterioration · **P0A80** Replace Hybrid/EV Battery Pack · **P0AFA** Hybrid/EV Battery System Voltage Low

See it working

Watch the animated explainer [How a Boxer Engine Works: Flat Engine Cutaway](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/audi-p3000/>

