

GENERIC · POWERTRAIN

P0E41

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P0E41

Charge Status Indicator B Control Circuit Low

P0E41 means the powertrain control module (PCM) has detected a low-voltage condition on the control circuit for charge status indicator B, which is a dashboard lamp that shows the high-voltage battery's state of charge. The PCM commands the indicator on or off and monitors the circuit for expected voltage; a sustained low reading tells the PCM the circuit is shorted to ground or the indicator itself has failed.

SYSTEM

Powertrain

CODE TYPE

Generic (all makes)

SEVERITY

Low

FIX DIFFICULTY

Intermediate

AREA

Hybrid propulsion

Symptoms you may notice

- Charge status indicator B fails to illuminate when the vehicle is started or when the battery is charging
- The indicator may glow dimly or flicker instead of operating at full brightness
- A warning light or message on the instrument cluster related to the high-voltage battery system
- Other dashboard indicators in the same cluster may behave erratically if a shared ground is faulty
- Often no symptoms besides the warning light, with the vehicle driving normally

Common causes, most likely first

- 1 Short to ground in the control wire between the PCM and charge status indicator B
- 2 Failed charge status indicator B bulb, LED, or internal driver circuit
- 3 Corroded, loose, or damaged connector at the indicator or PCM
- 4 Faulty PCM driver for the indicator control circuit
- 5 Water intrusion or chafed wiring harness causing a short to ground
- 6 Poor ground connection shared by the instrument cluster and indicator

How to diagnose and fix it

- 1 Scan all modules and record freeze-frame data to confirm P0E41 is active and not a history code
- 2 Inspect the charge status indicator B connector and the PCM connector for corrosion, loose pins, or damage
- 3 Measure resistance from the control wire to ground with the key off to check for a short
- 4 Test the indicator by applying power and ground directly to confirm it illuminates
- 5 Check the shared ground circuit for the instrument cluster and indicator with a voltage drop test
- 6 Repair or replace the shorted wire, connector, or indicator as needed
- 7 Clear codes and verify the indicator operates correctly during a charging cycle



When the indicator circuit fools you

- A shorted indicator bulb can mimic a wiring short, so always test the indicator separately before condemning the harness.
- The PCM may set P0E41 only after a charging event, so a test drive without charging may not reproduce the fault.
- Corrosion inside a connector can create a low-resistance path to ground that only appears when the circuit is powered.
- Some vehicles use a pulse-width-modulated signal for the indicator, and a standard multimeter may not show the true average voltage.
- A failing instrument cluster ground can set this code along with unrelated cluster codes, so check grounds before replacing the PCM.

Can I keep driving with P0E41?

The vehicle remains safe to drive because the charge status indicator is a convenience lamp, not a control device for the high-voltage system. Avoid ignoring the warning light for long periods, and schedule diagnosis soon to prevent a more serious charging fault from going unnoticed.

Tools that help

- OBD-II scan tool with live data and freeze-frame capability
- Digital multimeter with resistance and voltage drop functions
- Wiring diagram for the charge status indicator circuit
- Trim removal tools for instrument cluster access
- Test light or jumper wires for direct indicator testing

Reading P0E41

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

Often seen with

P0A0D High Voltage System Interlock Circuit A High · **P0A1F** Battery Energy Control Module A Performance · **P0E40** Charge Status Indicator A Control Circuit High · **P0E42** Charge Status Indicator B Control Circuit High · **U0111** Lost Communication With Battery Energy Control Module 'A'



See it working

Watch the animated explainer [How a Manual Transmission Works: Four-Speed Cutaway](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p0e41/>

