

GENERIC · POWERTRAIN

P0C94

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P0C94

Hybrid/EV Battery Temperature Sensor K Circuit Low

P0C94 indicates that the hybrid or electric vehicle battery pack's temperature sensor K is reporting a voltage below the normal operating range to the battery energy control module. The computer detects this as a low signal on the sensor's circuit, which typically means the sensor is reading colder than expected or the circuit has a short to ground or an open connection.

SYSTEM

Powertrain

CODE TYPE

Generic (all makes)

SEVERITY

Medium

FIX DIFFICULTY

Professional

AREA

Hybrid propulsion

Symptoms you may notice

- Illumination of the hybrid system warning light or service vehicle soon message
- Reduced electric driving range or forced engine operation in a hybrid
- Battery cooling fan running continuously or not at all
- Charging system may be disabled or limited on plug-in models
- Often no symptoms besides the warning light
- Possible reduced power output or limp mode in severe cases

Common causes, most likely first

- 1 Faulty battery temperature sensor K itself, reading low resistance or open
- 2 Damaged or corroded wiring harness between the sensor and the battery control module
- 3 Poor electrical connection at the sensor connector or module connector
- 4 Short to ground on the sensor signal circuit
- 5 Failed battery energy control module (less common)
- 6 Internal battery pack damage affecting sensor mounting or wiring



How to diagnose and fix it

- 1 Use a scan tool to read live data from all battery temperature sensors and compare sensor K to the others
- 2 Visually inspect the sensor K wiring and connector for damage, corrosion, or loose pins
- 3 Disconnect the sensor and measure its resistance, comparing to the manufacturer's temperature-resistance chart
- 4 Check the signal circuit for a short to ground using a multimeter with the sensor disconnected
- 5 Repair or replace any damaged wiring or connector terminals as needed
- 6 Replace the battery temperature sensor K if it fails resistance testing
- 7 Clear the code and verify the repair by test-driving and monitoring live data

What most techs miss on P0C94

- A low voltage reading on a temperature sensor circuit often comes from a poor ground connection at the sensor body rather than a failed sensor, so check ground integrity before condemning the part.
- On many hybrid packs, sensor K is part of a daisy-chained harness inside the battery assembly, and a single chafed wire can affect multiple sensors or set companion codes.
- The battery control module may substitute a default temperature value when sensor K fails, masking the fault and allowing the vehicle to drive normally until the next key cycle.
- After replacing a sensor, some vehicles require a battery pack temperature relearn or calibration procedure using a scan tool, otherwise the code may return immediately.
- A weak 12-volt auxiliary battery can cause erratic sensor readings and set this code on some hybrids, so always verify system voltage stability first.

Can I keep driving with P0C94?

You can usually drive the vehicle short distances to a repair shop, but avoid heavy acceleration, long trips, or aggressive charging until the fault is fixed. Continued driving with a faulty battery temperature sensor may cause the hybrid system to disable or reduce power unexpectedly.

Tools that help

- OBD-II scan tool with hybrid battery live data capability
- Digital multimeter with resistance and voltage measurement
- Manufacturer service information for temperature-resistance charts and wiring diagrams
- Insulated hand tools and terminal pick set
- Battery pack lifting equipment if sensor replacement requires pack removal



Reading P0C94

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

Often seen with

P0A0D High Voltage System Interlock Circuit A High · **P0AFA** Hybrid/EV Battery System Voltage Low · **P0C93** Hybrid/EV Battery Temperature Sensor K Range/Performance · **P0C95** Hybrid/EV Battery Temperature Sensor K Circuit High · **P0C96** Hybrid/EV Battery Temperature Sensor K Circuit Intermittent/

See it working

Watch the animated explainer [How Regenerative Braking Works in Electric Cars](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p0c94/>

