

GENERIC · POWERTRAIN

P00EE

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P00EE

Intake Air Temperature Sensor 3 Circuit Range/Performance Bank 2

P00EE indicates that the powertrain control module has detected an out-of-range or erratic signal from the intake air temperature sensor 3 on bank 2, which is a secondary temperature sensor used for that bank's air charge. The computer compares this signal against expected values and other sensor inputs, and it sets the code when the voltage or calculated temperature falls outside the normal operating window for a calibrated period.

SYSTEM

Powertrain

CODE TYPE

Generic (all makes)

SEVERITY

Low

FIX DIFFICULTY

Intermediate

AREA

Fuel and air metering and auxiliary emission controls

Symptoms you may notice

- Illumination of the check engine light, often with no other noticeable symptoms
- Slightly rough idle or hesitation during cold starts
- Reduced fuel economy due to incorrect air density calculations
- Intermittent stumble or surge while accelerating
- In rare cases, a default temperature value is substituted, causing poor driveability in extreme climates

Common causes, most likely first

- 1 Faulty intake air temperature sensor 3 on bank 2, internally shorted or open
- 2 Damaged or corroded wiring harness connector at the sensor
- 3 Chafed or broken wires between the sensor and the powertrain control module
- 4 High resistance in a ground circuit shared with other sensors
- 5 Intake air leak or obstruction that exposes the sensor to abnormal temperatures
- 6 Failed powertrain control module, though this is uncommon



How to diagnose and fix it

- 1 Use an OBD-II scan tool to read the live data for intake air temperature sensor 3 and compare it to ambient temperature after a cold soak
- 2 Visually inspect the sensor and its connector for corrosion, loose pins, or physical damage
- 3 Perform a voltage drop test on the sensor signal and ground circuits while wiggling the harness
- 4 Check the sensor's resistance with a multimeter and compare it to the manufacturer's temperature-resistance chart
- 5 Repair any damaged wiring or replace the connector terminals as needed
- 6 Replace the intake air temperature sensor 3 if it fails electrical testing
- 7 Clear the code and verify the repair by confirming live data reads correctly and the code does not return after a test drive

What the code does not always mean

- A P00EE code often appears after a routine air filter replacement when the sensor connector is accidentally left loose or the sensor is disturbed.
- On some vehicles, intake air temperature sensor 3 is part of a combined mass airflow sensor assembly, so technicians replace the entire unit unnecessarily when only the temperature element has failed.
- The code can be set by a poor ground connection shared with other sensors on the same circuit, which is frequently overlooked during diagnosis.
- Extreme ambient temperatures during cold-start testing can cause a false pass or fail, so always let the vehicle sit overnight before comparing sensor readings.
- A stuck-open thermostat or engine overheating can raise intake air temperatures enough to trigger this code, so check cooling system operation before condemning the sensor.

Can I keep driving with P00EE?

You can generally continue driving with this code because the engine management system substitutes a default temperature value, but avoid heavy towing or aggressive driving until it is repaired. If the check engine light begins flashing or you notice severe hesitation, stop driving and have the vehicle inspected.

Tools that help

- OBD-II scan tool with live data capability
- Digital multimeter
- Wire terminal removal tools
- Manufacturer's temperature-resistance chart for the sensor
- Basic hand tools for connector and sensor access



Reading P00EE

- P** Powertrain: engine, transmission and emissions.
- 0** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- 0** Fuel and air metering and auxiliary emission controls.
- EE** The exact fault within that area.

Often seen with

P00ED Intake Air Temperature Sensor 3 Circuit Bank 2 · **P00EF** Intake Air Temperature Sensor 3 Circuit Low Bank 2 · **P0102** Mass/Volume Air Flow Circuit Low Input · **P0112** Intake Air Temperature Circuit Low Input · **P0113** Intake Air Temperature Circuit High Input

See it working

Watch the animated explainer [How a Refrigerator Works: The Cooling Cycle](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p00ee/>

