

GENERIC · POWERTRAIN

P0D62

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P0D62

Hybrid/EV Battery Pack Cooling Fan 2 Sense Circuit High

P0D62 indicates that the hybrid or electric vehicle battery pack cooling fan 2 control circuit is reporting a voltage higher than expected, which the battery energy control module interprets as an open circuit or short to voltage. The computer monitors the fan's sense circuit to confirm the fan is receiving the correct command and feedback signal.

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 service vehicle soon message
- Often no symptoms besides the warning light
- Reduced hybrid/EV battery cooling performance, potentially leading to power reduction
- Audible cooling fan may not run or may run at full speed continuously
- Possible high-voltage battery temperature warning or derate
- In some cases, the vehicle may enter a reduced power mode

Common causes, most likely first

- 1 Open circuit in the cooling fan 2 sense circuit wiring (broken wire, disconnected connector)
- 2 Short to voltage on the sense circuit (chafed wire contacting a power source)
- 3 Faulty cooling fan 2 assembly (internal open or short in the sense circuit)
- 4 Corroded or damaged electrical connector at the fan or control module
- 5 Failed battery energy control module or cooling fan control module
- 6 Poor ground connection for the cooling fan circuit

How to diagnose and fix it

- 1 Verify the code with a scan tool and check for any related codes in the hybrid/EV battery cooling system
- 2 Inspect the cooling fan 2 connector and wiring for damage, corrosion, or loose pins
- 3 Measure resistance of the sense circuit from the fan connector to the control module to check for opens
- 4 Check for short to voltage on the sense circuit with the key on and fan commanded off
- 5 Test the cooling fan 2 operation by commanding it on with a scan tool and observing current draw or feedback
- 6 If wiring and connectors are good, substitute a known-good fan or module to isolate the fault
- 7 Repair or replace the faulty component and clear the code, then verify the repair with a test drive



Sense circuit faults often mimic fan failure

- A high voltage on the sense circuit frequently indicates an open circuit rather than a failed fan motor, so resistance checks are more reliable than visual inspection alone.
- Some vehicles use a shared sense circuit for multiple fans, and a fault in one fan can set codes for others, so always check all related fan circuits.
- The cooling fan may still operate normally despite the code, leading drivers to ignore it until battery overheating occurs.
- Aftermarket accessories or improper previous repairs to the fan wiring are common causes of short-to-voltage faults on this circuit.
- The battery energy control module may set this code intermittently if the connector is only partially seated, so wiggle tests during diagnostics are useful.

Can I keep driving with P0D62?

It is generally safe to drive with this code as long as the hybrid/EV battery temperature remains normal and no power reduction messages appear. Avoid sustained high-load driving or fast charging until the fault is repaired, as inadequate battery cooling can accelerate wear or trigger a derate.

Tools that help

- OBD-II scan tool with hybrid/EV capability
- Digital multimeter
- Wiring diagram for the specific vehicle
- Back probe pins or breakout box
- Socket set and trim removal tools

Reading P0D62

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

Often seen with

P0D5F Hybrid/EV Battery Pack Cooling Fan 2 Sense Circuit/Open · **P0D60** Hybrid/EV Battery Pack Cooling Fan 2 Sense Range/Performance · **P0D61** Hybrid/EV Battery Pack Cooling Fan 2 Sense Circuit Low · **P0D63** Hybrid/EV Battery Pack Cooling Fan 2 Sense Circuit Intermitt · **P0D64** Hybrid/EV Battery Pack Cooling Fan Enable Circuit/Open



See it working

Watch the animated explainer [How a Radiator Fan Relay Circuit Works](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p0d62/>

