



P0DEF

Pedestrian Alert Control Module Circuit High

P0DEF means the Pedestrian Alert Control Module (PAC) has detected a high-voltage condition on one of its output circuits, typically a speaker driver or warning sound actuator. The module monitors the circuit and sets this code when the voltage on the output wire exceeds the expected range, indicating an open circuit, short to power, or internal module fault.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Generic (all makes)	Low	Intermediate	Hybrid propulsion

Symptoms you may notice

- Audible pedestrian warning sound may be inoperative or distorted
- Often no symptoms besides the warning light
- A chime or alert may sound continuously or at the wrong time
- The vehicle may fail to produce the required pedestrian alert noise at low speeds
- Other driver assistance features may be disabled or show warnings

Common causes, most likely first

- 1 Open circuit in the wiring between the PAC module and the speaker or actuator
- 2 Short to voltage on the output circuit
- 3 Failed speaker or pedestrian alert actuator
- 4 Corroded or damaged connector pins at the module or speaker
- 5 Internal fault in the Pedestrian Alert Control Module
- 6 Water intrusion into the module or connector causing high resistance
- 7 Aftermarket accessories improperly tapped into the alert circuit

How to diagnose and fix it

- 1 Inspect the PAC module and speaker connectors for corrosion, loose pins, or water damage
- 2 Check the output circuit wiring for continuity and shorts to power using a multimeter
- 3 Test the speaker or actuator resistance and compare to specification
- 4 Clear the code and verify if it returns immediately or after a road test
- 5 If wiring and speaker are good, substitute a known-good module for testing
- 6 Repair or replace damaged wiring or connectors as needed
- 7 Replace the PAC module if internal fault is confirmed and reprogram if required



When the alert module is not the culprit

- A high-voltage code often results from an open circuit rather than a short, so a disconnected speaker can set P0DEF even though the circuit is not receiving power.
- The Pedestrian Alert Control Module may share power or ground with other systems, so a fault elsewhere can cause this code without any issue in the alert circuit itself.
- Some vehicles use the same module to generate artificial engine noise through the audio system, and a failure in that circuit can trigger P0DEF.
- Aftermarket audio equipment or alarm systems tapped into the alert wiring can introduce high voltage and set this code, so always check for non-factory modifications.
- The code can be set intermittently by a loose connector that only loses contact over bumps, so a wiggle test of the harness is essential during diagnosis.

Can I keep driving with P0DEF?

The vehicle remains safe to drive because the pedestrian alert system is an audible warning device, not a safety-critical control. However, you should avoid low-speed operation in areas with pedestrians until the fault is repaired, as the vehicle may not produce the required warning sound.

Tools that help

- OBD-II scan tool
- Digital multimeter
- Wiring diagram for the pedestrian alert system
- Trim removal tools
- Test light

Reading P0DEF

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

Often seen with

P0DEE Pedestrian Alert Control Module Circuit Low · **P0DF0** Generator Inverter Temperature Sensor B Circuit · **P0DF1** Generator Inverter Temperature Sensor B Circuit Intermittent · **U0121** Lost Communication With Anti-Lock Brake System (ABS) Control



See it working

Watch the animated explainer [How a Jet Engine Works: Two-Spool Turbofan](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p0def/>

