

GENERIC · POWERTRAIN

P2060

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P2060

Reductant Injection Air Pump Control Circuit Low

P2060 means the engine computer has detected a low-voltage condition on the control circuit for the reductant injection air pump, which supplies air to the diesel exhaust fluid (DEF) injection system to help vaporize and distribute the reductant. The computer monitors the pump's control wire and sees voltage below the expected threshold when the circuit should be active, indicating a short to ground, an open circuit, or a faulty pump.

SYSTEM

Powertrain

CODE TYPE

Generic (all makes)

SEVERITY

Medium

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
- Reduced engine power or limp mode in some vehicles
- A message on the dash indicating a problem with the emissions system or DEF system
- Rough running or hesitation if the reductant injection is severely affected
- Increased diesel exhaust fluid consumption or failure to meet emissions standards during inspection

Common causes, most likely first

- 1 Faulty reductant injection air pump (internal short or open winding)
- 2 Damaged or corroded wiring harness or connector at the air pump
- 3 Short to ground in the control circuit between the pump and the engine control module (ECM)
- 4 Open circuit in the control circuit due to a broken wire or poor connection
- 5 Failed ECM driver for the air pump control circuit
- 6 Blown fuse or relay supplying power to the air pump circuit



How to diagnose and fix it

- 1 Check for any related technical service bulletins (TSBs) or recalls for the vehicle make and model
- 2 Inspect the air pump fuse and relay, and replace if faulty
- 3 Visually inspect the wiring harness and connector at the air pump for damage, corrosion, or loose pins
- 4 Disconnect the air pump and measure resistance across its control terminals to check for an open or shorted winding
- 5 With the pump disconnected, check for voltage on the control circuit at the pump connector when the key is on and the pump is commanded on; also check for short to ground on the control wire
- 6 If the circuit checks out, test the air pump by applying power and ground directly to confirm operation
- 7 If all else fails, diagnose the ECM control signal with an oscilloscope or scan tool bidirectional control, and replace the ECM if the driver is faulty

What the low circuit code really means

- A low voltage code on the control circuit often results from a short to ground in the wiring, not a failed pump, so always check the harness before replacing the pump.
- The reductant injection air pump may only run during specific conditions such as cold starts or regeneration, so a fault may not be present during a simple key-on test.
- Some vehicles use a shared power supply or ground for multiple emissions components, so a fault in a related circuit can set P2060 as a secondary code.
- A weak or failing battery can cause low voltage on the control circuit and set this code, so always verify battery condition and charging system first.
- After repairs, the ECM may require a relearn or adaptation reset to clear the code and restore normal operation.

Can I keep driving with P2060?

You can usually drive with P2060, but the vehicle may enter limp mode or fail emissions testing, and prolonged driving with a faulty reductant system can lead to more extensive damage. Avoid heavy loads or long trips until the fault is diagnosed and repaired.

Tools that help

- OBD-II scan tool with bidirectional control capability
- Digital multimeter
- Wiring diagram for the specific vehicle
- Basic hand tools (sockets, wrenches, screwdrivers)
- Oscilloscope (optional for advanced diagnosis)



Reading P2060

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

Often seen with

P205F Reductant System Performance (Bank 2) · **P2061** Reductant Injection Air Pump Control Circuit High · **P2062** Reductant Supply Control Circuit/Open · **P2063** Reductant Supply Control Circuit Low · **P20B9** Reductant Heater A Control Circuit/Open

See it working

Watch the animated explainer [Disc Brake Trainer: How Car Brakes Stop a Wheel](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p2060/>

