

MERCEDES-BENZ · POWERTRAIN

P1470

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1470 · Mercedes-Benz

Pressure Control Flap Vacuum Transducer Y312

P1470 on Mercedes-Benz vehicles indicates that the engine control module has detected an electrical fault in the vacuum transducer that controls the pressure control flap, designated Y312. The computer monitors the transducer's circuit for open circuits, short circuits, or out-of-range resistance and sets this code when the signal does not match expected values.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Mercedes-Benz specific	Medium	Intermediate	Auxiliary emission controls

Symptoms you may notice

- Illumination of the check engine light, often with no other noticeable symptoms
- Rough idle or unstable engine speed due to incorrect flap positioning
- Reduced engine performance or poor throttle response
- Increased fuel consumption from improper air intake control
- In some cases, a whistling or hissing noise from the intake area

Common causes, most likely first

- 1 Failed vacuum transducer Y312 itself, often due to a burnt-out solenoid coil
- 2 Damaged or disconnected electrical connector at the transducer
- 3 Corroded or broken wiring in the transducer circuit
- 4 Vacuum hose leaks or blockages leading to the pressure control flap actuator
- 5 Faulty engine control module driver circuit (rare)
- 6 Mechanical binding of the pressure control flap preventing proper movement

How to diagnose and fix it

- 1 Perform a visual inspection of the Y312 transducer, its connector, and vacuum hoses for obvious damage or disconnection
- 2 Use a scan tool to command the transducer on and off and listen for a click, verifying electrical function
- 3 Measure resistance across the transducer terminals and compare to Mercedes-Benz specifications
- 4 Check for battery voltage and ground at the transducer connector with the key on
- 5 Inspect wiring continuity between the transducer and the engine control module
- 6 Test the vacuum supply to the transducer and the operation of the pressure control flap
- 7 Replace the faulty transducer or repair wiring as needed, then clear the code and verify repair



Don't overlook the vacuum supply

- A common misdiagnosis is replacing the Y312 transducer when the real problem is a cracked or disconnected vacuum hose that prevents the flap from moving, setting a circuit code as a side effect.
- The pressure control flap is often part of the intake manifold tuning system, and a mechanically stuck flap can cause the transducer to draw excessive current, mimicking an electrical failure.
- On some Mercedes-Benz models, the Y312 transducer is located in a hidden area under the intake manifold, making access difficult and leading to missed connector damage during other repairs.
- The code can be set intermittently by a poor ground connection at the transducer mounting point, which is often overlooked during diagnosis.
- Always verify that the engine control module software is up to date, as some earlier versions had overly sensitive detection thresholds for this circuit.

Can I keep driving with P1470?

You can generally continue driving with this code, but avoid aggressive acceleration or heavy loads because the pressure control flap may not function correctly, potentially affecting engine performance and emissions. Have the fault diagnosed soon to prevent secondary issues.

Tools that help

- OBD-II scan tool with Mercedes-Benz-specific software
- Digital multimeter
- Hand vacuum pump
- Wire probe set
- Socket and ratchet set

Reading P1470

P	Powertrain: engine, transmission and emissions.
1	Manufacturer-specific code (Mercedes-Benz): its meaning depends on the make.
4	Auxiliary emission controls.
70	The exact fault within that area.

Often seen with

P1471 EVAP Emission Control System LDP Circuit Short To B+ · **P1472** EVAP Emission Control System LDP Circuit Short To Ground · **P1472** Diagnostic Module Tank Leakage DM-TL Switching Solenoid Cont · **P0171** System Too Lean (Bank 1) · **P0410** Secondary Air Injection System Malfunction · **P0440** Evaporative Emission Control System Malfunction



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/mercedes-benz-p1470/>

