

CHRYSLER · POWERTRAIN

P1460

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1460 · Chrysler

Cooling Fan Control System

P1460 on Chrysler vehicles indicates that the powertrain control module (PCM) has detected a fault within the cooling fan control system, typically a circuit malfunction or unexpected feedback from the fan relay or fan motor. The PCM commands the cooling fan on based on engine coolant temperature and air conditioning status, and it monitors the control circuit for opens, shorts, or incorrect voltage levels.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Chrysler specific	Medium	Intermediate	Auxiliary emission controls

Symptoms you may notice

- The engine coolant temperature gauge may rise above normal, especially in stop-and-go traffic or hot weather.
The cooling fan may run continuously even when the engine is cold, or it may not run at all when the engine is hot.
- The air conditioning may become less effective or stop cooling when the vehicle is stationary due to lack of airflow across the condenser.
- A warning light on the dashboard, usually the check engine light, will be illuminated.
- Often no symptoms besides the warning light, as the fan may still operate under default conditions.
- In severe cases, the engine may overheat, leading to steam or a burning smell.

Common causes, most likely first

- 1 Failed cooling fan relay, which is the most common cause due to worn contacts or coil failure.
- 2 Open or shorted wiring in the cooling fan control circuit, including damaged connectors or corroded terminals.
- 3 Faulty cooling fan motor that draws excessive current or fails to turn, often due to worn brushes or bearings.
- 4 Defective engine coolant temperature sensor providing incorrect readings to the PCM, causing improper fan command.
- 5 PCM internal fault, though rare, can cause incorrect fan control signals.
- 6 Blown fuse or fusible link in the cooling fan power circuit, often due to a shorted fan motor.
- 7 Poor ground connection at the fan motor or chassis, leading to intermittent operation.



How to diagnose and fix it

- 1 Verify the code with a scan tool and check for any related codes in the PCM, then clear the code and test-drive to see if it returns.
- 2 Inspect the cooling fan relay by swapping it with an identical relay from the fuse box and checking if the fan operates correctly.
- 3 Check the cooling fan fuse and fusible link for continuity and replace if blown, but first investigate why it blew.
- 4 Test the cooling fan motor by applying battery voltage directly to the motor terminals; if it does not run, replace the motor.
- 5 Measure resistance and voltage on the control circuit between the PCM and the fan relay to check for opens, shorts, or high resistance.
- 6 Inspect all connectors and wiring for corrosion, chafing, or loose pins, and repair as needed.
- 7 If all components test good, suspect the PCM and perform a thorough diagnostic before replacement.

Common misdiagnosis traps for P1460

- A fan that runs continuously can be caused by a stuck relay or a shorted temperature sensor, not always a failed fan motor.
- The PCM may set P1460 even if the fan operates normally, because the code can be triggered by an intermittent circuit fault that only appears under certain conditions.
- On some Chrysler models, the cooling fan is controlled by a solid-state fan control module rather than a simple relay, and testing procedures differ significantly.
- A weak battery or charging system fault can cause erratic fan operation and set this code without any defective fan components.
- Aftermarket alarm or remote start installations often tap into the fan circuit and can introduce faults that set P1460.

Can I keep driving with P1460?

You can drive the vehicle for short distances with the warning light on, but monitor the coolant temperature gauge closely and avoid heavy traffic or hot weather until repaired. If the temperature gauge climbs above normal or you see steam, stop safely and shut off the engine to prevent damage.

Tools that help

- OBD-II scan tool
- Digital multimeter
- Test light
- Relay puller or small screwdriver
- Factory service information for wiring diagrams



Reading P1460

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

Often seen with

P0117 Engine Coolant Temperature Circuit Low Input · **P0480** Cooling Fan 1 Control Circuit Malfunction · **P0481** Cooling Fan 2 Control Circuit Malfunction · **P0482** Cooling Fan 3 Control Circuit Malfunction · **P0483** Fan Rationality Check

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/chrysler-p1460/>

