

CHRYSLER · POWERTRAIN

P1498

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1498 · Chrysler

High Speed Rad Fan Ground CTRL Rly Circuit

P1498 on Chrysler vehicles means the powertrain control module (PCM) has detected an open or shorted condition in the ground control circuit for the high-speed radiator fan relay. The PCM commands the relay by grounding its control coil, and this code sets when the voltage on that ground-side driver does not match the expected state, so the high-speed fan may not run when commanded.

SYSTEM

Powertrain

CODE TYPE

Chrysler specific

SEVERITY

Medium

FIX DIFFICULTY

Intermediate

AREA

Auxiliary emission controls

Symptoms you may notice

- The check engine light (malfunction indicator lamp) is illuminated.
- The high-speed radiator fan does not run when the engine is hot or when the air conditioning is on.
- Engine coolant temperature may climb above normal in traffic or during extended idle.
- The air conditioning may blow warm air because the condenser lacks airflow at low speed.
- Often no symptoms besides the warning light, since the low-speed fan circuit may still operate normally.

Common causes, most likely first

- 1 Open or damaged ground wire between the high-speed fan relay control terminal and the PCM.
- 2 Corroded or loose terminals at the high-speed fan relay socket or at the PCM connector.
- 3 Failed high-speed radiator fan relay with an open control coil.
- 4 Shorted relay control coil or wiring that pulls the PCM driver circuit to ground or voltage.
- 5 Faulty powertrain control module driver for the high-speed fan relay circuit.
- 6 Water intrusion or chafing in the fan relay harness near the radiator support.



How to diagnose and fix it

- 1 Scan all modules and record freeze-frame data to confirm P1498 is active and not a stored history code.
- 2 Inspect the high-speed fan relay, its socket, and the PCM connector for corrosion, pushed pins, or loose terminals.
- 3 Test the relay control coil resistance and verify the ground-side control wire for continuity and shorts to ground or power.
- 4 Command the high-speed fan on with a scan tool and watch for the relay to click and the fan to run; back-probe the PCM driver to confirm it pulls low.
- 5 Repair any open, shorted, or chafed wire in the ground control circuit and replace a failed relay if the coil is out of specification.
- 6 Clear the code and run a fan command test to confirm the high-speed fan operates and P1498 does not return.

High-speed fan relay ground circuit traps

- Many technicians replace the fan motor or the PCM when the real fault is a corroded ground terminal at the relay socket, so always load-test the control wire before condemning a module.
- P1498 can set intermittently from water intrusion into the relay box after a radiator or front-end repair, so inspect for moisture and chafing that only shows up when the harness is wet.
- A relay that clicks does not prove the control circuit is good, because the PCM can still detect an incorrect voltage on the ground driver even when the relay coil energizes.
- The low-speed fan circuit can keep the engine cool enough that the driver never notices a problem, so this code often appears with no overheating complaint at all.
- Related codes such as P1499 or P0480 may be stored alongside P1498, and diagnosing only one of them can leave the fan inoperative after the repair.

Can I keep driving with P1498?

You can usually drive short distances at normal road speed, but avoid heavy traffic, long idle periods, and towing because the high-speed fan may not run and coolant temperature can rise quickly. If the temperature gauge climbs above normal, pull over and shut the engine off.

Tools that help

- OBD-II scan tool with bidirectional fan control
- Digital multimeter
- Relay puller and test light
- Wiring diagram for the Chrysler fan relay circuit
- Terminal pick and electrical contact cleaner



Reading P1498

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

Often seen with

P1490 Vacuum Cut Valve Bypass Valve Circuit · **P1491** Vacuum Cut Valve Bypass Valve · **P1490** Low Speed Fan Control Relay Fault · **P1499** EGR Stepper Motor Malfunction Circuit 4 1.8L · **P1491** EGR Valve Lift Insufficient Detected · **P1490** Low Speed Fan CTRL Relay Circuit Open Or Shorted · **P1491** Radiator Fan Control Relay Circuit Open Or Shorted · **P1499** Open Or Shorted Condition Detected In The Hydraulic Cooling · **P1490** Low Speed Fan CTRL Relay Circuit Open Or Shorted · **P1491** Radiator Fan Control Relay Circuit Open Or Shorted · **P1499** Open Or Shorted Condition Detected In The Hydraulic Cooling · **P0480** Cooling Fan 1 Control Circuit Malfunction · **P0481** Cooling Fan 2 Control Circuit Malfunction

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-p1498/>

