

GENERIC · POWERTRAIN

P094D

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P094D

Hydraulic Pump Over Temperature

P094D indicates that the transmission control module has detected an excessively high temperature in the hydraulic pump circuit, which is typically part of an electro-hydraulic transmission or a hybrid vehicle's hydraulic control system. The computer sets this code when the pump's temperature sensor reports a value above the calibrated threshold for a set time, signaling potential overheating that could damage the pump or degrade shift quality.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Generic (all makes)	Medium	Intermediate	Transmission

Symptoms you may notice

- Illumination of the check engine light or transmission warning light, often with no other noticeable symptoms
- Harsh or delayed gear shifts, especially when the transmission is cold or under load
- The transmission may enter limp mode, limiting vehicle speed and gear selection
- A burning smell or visible fluid leak near the hydraulic pump area
- In hybrid vehicles, reduced electric drive power or a warning to service the hybrid system

Common causes, most likely first

- 1 Low or degraded hydraulic fluid, leading to increased friction and heat
- 2 A faulty hydraulic pump temperature sensor sending an erroneous high reading
- 3 A restricted or clogged transmission fluid cooler, preventing proper heat dissipation
- 4 A failing hydraulic pump motor or internal wear causing excessive heat generation
- 5 Wiring damage or corrosion in the pump temperature sensor circuit, causing signal errors
- 6 A malfunctioning transmission control module or software issue misinterpreting sensor data

How to diagnose and fix it

- 1 Check the hydraulic fluid level and condition; top off or replace fluid if it is low or burnt
- 2 Inspect the transmission fluid cooler and lines for restrictions or blockages, and clean or replace as needed
- 3 Test the hydraulic pump temperature sensor and its wiring for resistance and continuity, comparing to specifications
- 4 Scan live data to compare the pump temperature sensor reading with actual fluid temperature using an infrared thermometer
- 5 Check for software updates or technical service bulletins for the transmission control module
- 6 If the pump motor is drawing excessive current or making noise, perform a current draw test and replace the pump if faulty

Overheating pump myths and real causes

- A P094D code is often set by a failing temperature sensor rather than an actual overheated pump, so always verify the sensor's accuracy before replacing major components.
- In hybrid vehicles, the hydraulic pump may run only intermittently; a code can set during a brief overheating event that leaves no lasting symptoms.
- Debris from a failing transmission can clog the pump's internal cooling passages, causing localized overheating that a fluid change alone may not fix.
- The code can be triggered by a low fluid level after a recent service if the system was not properly bled, so check service history before assuming a component failure.
- Some vehicles use the same sensor for multiple functions; a P094D may accompany other codes like P094E or P094F, indicating a circuit range or performance issue rather than a hard failure.

Can I keep driving with P094D?

It is not recommended to continue driving with P094D, as prolonged overheating can damage the hydraulic pump and transmission. If you must drive, avoid heavy loads, stop-and-go traffic, and keep speeds moderate; schedule service as soon as possible.

Tools that help

- OBD-II scan tool with live data capability
- Infrared thermometer
- Digital multimeter
- Transmission fluid level dipstick or scan tool for fluid level check
- Basic hand tools for inspecting wiring and cooler lines

Reading P094D

P	Powertrain: engine, transmission and emissions.
0	Generic (SAE) code: it means the same thing on every OBD-II vehicle.
9	Transmission.
4D	The exact fault within that area.

Often seen with

P0218 Transmission Over-Temperature Condition · **P0711** Transmission Fluid Temperature Sensor 'A' Circuit Range/Perf · **P0714** Transmission Fluid Temperature Sensor 'A' Circuit Intermittent · **P094E** Hydraulic Pump Supply Voltage Circuit/Open



See it working

Watch the animated explainer [How a Car Thermostat Works: Wax Pellet and Cooling Fan](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p094d/>

