

GM · POWERTRAIN

P1663

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1663 · GM

Oil Life Lamp Control Circuit

P1663 on GM vehicles means the powertrain control module (PCM) has detected a fault in the circuit that controls the oil life indicator lamp, which is the light or message that tells you when an oil change is due. The PCM monitors the voltage on the control circuit and sets this code when the voltage is outside the expected range, indicating an open, short, or excessive resistance in the wiring or the lamp itself.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	GM specific	Low	Intermediate	Computer and output circuits

Symptoms you may notice

- The oil life lamp may stay on continuously or never illuminate when the ignition is turned on.
- The driver information center may display a message such as 'Change Engine Oil Soon' even after an oil change reset.
- Often no symptoms besides the warning light, and the vehicle runs normally.
- The oil life monitoring system may fail to reset or may reset unexpectedly.
- Other dashboard warning lights may be unaffected, but the oil life indicator behaves erratically.

Common causes, most likely first

- Failed oil life indicator lamp or light-emitting diode (LED) assembly in the instrument cluster.
- Open or shorted wire in the oil life lamp control circuit between the PCM and the cluster.
- Corroded or loose electrical connector at the instrument cluster or PCM.
- Faulty PCM driver for the oil life lamp control circuit.
- Blown fuse that supplies power to the instrument cluster or the oil life lamp circuit.
- Aftermarket accessories or poor previous repairs tapping into the cluster wiring.

How to diagnose and fix it

- Verify the oil life lamp operation by performing an instrument cluster self-test or bulb check with a scan tool.
- Inspect the instrument cluster connector and PCM connector for corrosion, loose pins, or pushed-out terminals.
- Check the fuse that powers the instrument cluster and the oil life lamp circuit, and replace if blown.
- Measure resistance and voltage on the oil life lamp control wire between the PCM and the cluster to check for opens or shorts.
- If the circuit tests good, substitute a known-good instrument cluster or lamp assembly to isolate the fault.
- If the lamp and wiring are confirmed good, test the PCM output driver with a scan tool bidirectional control, replace the PCM only if the driver is faulty.

Oil life lamp circuit quirks on GM vehicles

- A common misdiagnosis is replacing the instrument cluster when the real problem is a chafed wire behind the dashboard or a corroded ground that affects the lamp circuit.
- The oil life lamp is often an LED soldered to the cluster circuit board, so a failed LED can mimic a wiring fault and requires board-level repair or cluster replacement.
- Some GM vehicles use the same control circuit for both the oil life lamp and a chime or message display, so a fault can cause multiple odd symptoms that seem unrelated.
- After an oil change, the oil life monitor must be reset through the driver information center or scan tool; failing to reset can keep the lamp on and set a false P1663 if the system expects a reset confirmation.
- A weak battery or charging system voltage spike can damage the PCM driver for the lamp circuit, so always check battery and charging system health before replacing expensive modules.

Can I keep driving with P1663?

This code does not affect engine operation or safety, so you can continue driving, but you should have the oil life lamp circuit repaired soon to avoid missing an oil change interval. Avoid ignoring the lamp if it stays on, because you may lose the reminder function and risk overdue maintenance.

Tools that help

- Scan tool with bidirectional control and instrument cluster testing capability
- Digital multimeter (DMM) for voltage and resistance checks
- Test light or jumper wires for circuit testing
- Trim removal tools for accessing the instrument cluster
- Service information with wiring diagrams for the specific GM model

Reading P1663

P	Powertrain: engine, transmission and emissions.
1	Manufacturer-specific code (GM): its meaning depends on the make.
6	Computer and output circuits.
63	The exact fault within that area.

Often seen with

P1662 EGR Bypass Valve Control Circuit · **P1665** Power Stage Group 'A' · **P1662** Cruise Control Inhibit Control Circuit · **P1664** 1-4 Upshift Lamp Control Circuit · **P1665** Driver 3 Line 5 · **P1662** IDM_EN Circuit Failure · **P0523** Engine Oil Pressure Sensor/Switch Circuit High Voltage · **P0524** Engine Oil Pressure Too Low



See it working

Watch the animated explainer [How an EGR Valve Works: Exhaust Gas Recirculation](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/gm-p1663/>

