

P0141: O2 SENSOR HEATER CIRCUIT MALFUNCTION (BANK 1, SENSOR 2)

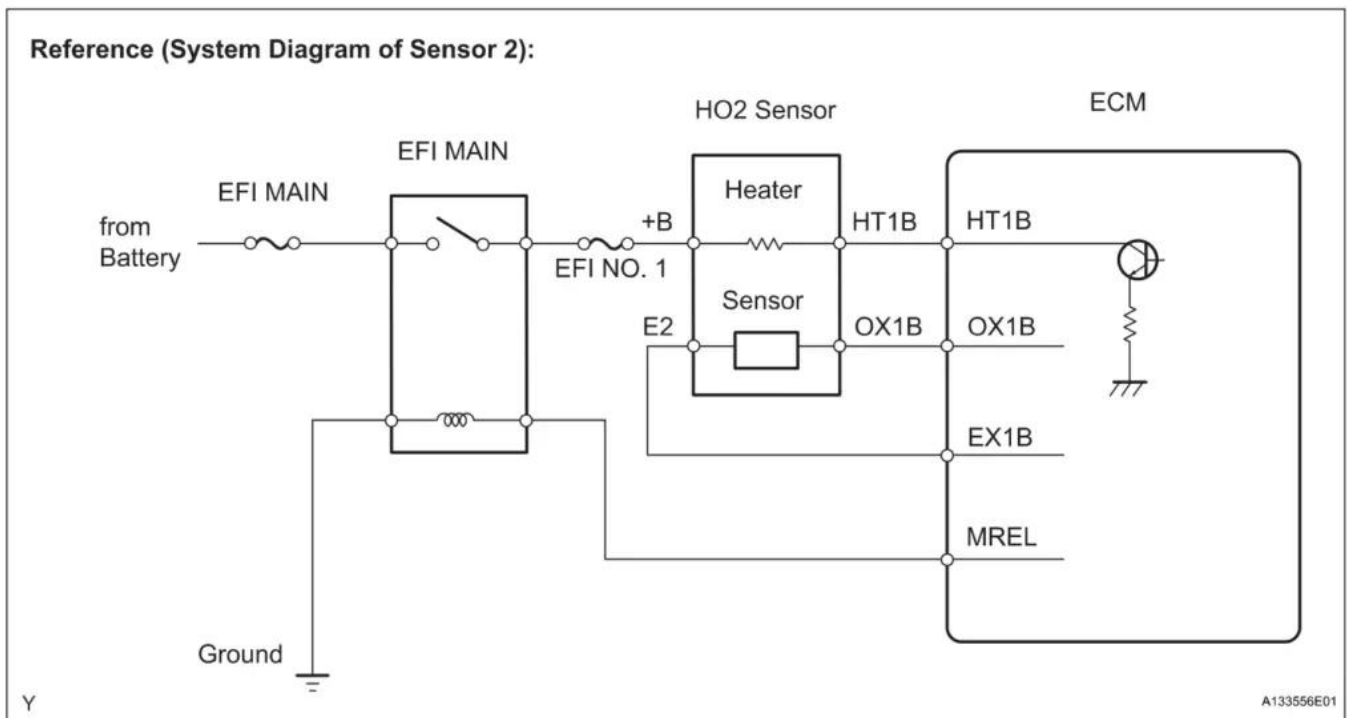
OVERVIEW

Severity	:	<div><div>Medium</div></div>
DIY Difficulty Level	:	<div><div>Intermediate</div></div>
Repair Cost	:	\$100-\$300
Can I Still Drive?	:	Yes (Short-term only)

What Does The P0141 Code Mean?

This code means that the heated circuit in the oxygen sensor on bank 1 decreases time needed to enter closed loop. Sensor #2 would be the second sensor downstream from the engine.

As the O2 heater reaches operating temperature, the oxygen sensor responds by switching according to oxygen content of the exhaust surrounding it. The ECM tracks how long it takes for the oxygen sensor to begin switching. If the ECM determines (based on coolant temp) that too much time elapsed before the oxygen sensor began operating properly, it will set P0141.



P0141 wiring diagram

See also: [P0135](#) (Bank 1, Sensor 1).

What Are The Symptoms Of The P0141 Code?

You will likely notice poor fuel economy the illumination of the Check Engine Light.

What Are The Potential Causes Of The P0141 Code?

A code P0141 may mean that one or more of the following has happened:

- Open or short to ground in the wiring harness
- O2 heater circuit wiring high resistance
- O2 heater element resistance is high
- Internal short or open in the heater element

Note: Typically a failed catalytic converter does not cause this code. You're more likely to see a P0420 code for a failed converter.

How Can You Fix The P0141 Code?

- Replace oxygen sensor (cannot repair open or short that occurs internally to sensor)
- Repair short or open or high resistance in wiring harness or harness connectors

Reference Sources

- [Technical Service Bulletin for P0141](#) - Ford
- [Diagnostic Chart with Trouble Code for LHD Vehicles for P0141](#) - Pages 58-61.