

DTC	P0134	Oxygen Sensor Circuit No Activity Detected (Bank 1 Sensor 1)
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DTC	P0154	Oxygen Sensor Circuit No Activity Detected (Bank 2 Sensor 1)
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CIRCUIT DESCRIPTION

Refer to DTC P0031 on page [DI-41](#).

DTC No.	DTC Detecting Condition	Trouble Area
P0134 P0154	<p>After engine is warmed up, heated oxygen sensor (bank 1, 2 sensor 1) output does not indicate RICH (≥ 0.45 V) even once when conditions (a), (b), (c) and (d) continue for at least 65 sec.:</p> <p>(a) Engine speed: 1,400 rpm or more (b) Vehicle speed: 40 – 100 km/h (25 – 62 mph) (c) Throttle valve does not fully closed (d) 180 sec. or more after starting engine</p>	<ul style="list-style-type: none"> • Open or short in heated oxygen sensor (bank 1, 2 sensor 1) circuit • Heated oxygen sensor (bank 1, 2 sensor 1) • Air induction system • Fuel pressure • Injector • PCV piping • Gas leakage on exhaust system • ECM

HINT:

After confirming DTC P0134 or P0154, use the OBD II scan tool or hand-held tester to confirm voltage output of the heated oxygen sensor (bank 1, 2 sensor 1) from the CURRENT DATA. If the voltage output of the heated oxygen sensor is less than 0.1 V, heated oxygen sensor circuit may be open or short.

WIRING DIAGRAM

Refer to DTC P0031 on page [DI-41](#).

INSPECTION PROCEDURE

HINT:

- Read freeze frame data using hand-held tester or OBD II scan tool. Because freeze frame records the engine conditions when the malfunction is detected. When troubleshooting, it is useful for determining whether the vehicle was running or stopped, the engine was warmed up or not, the air-fuel ratio was lean or rich, etc. at the time of the malfunction.
- If the vehicle run out of fuel, the air-fuel ratio is LEAN and DTC P0134 or P0154 will be recorded. The MIL then comes on.

1	Are there any other codes (besides DTC P0134 and P0154) being output?
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YES

Go to relevant DTC chart.

NO

2 Check connection of PCV piping.

NG Repair or replace PCV piping.

OK

3 Connect OBD II scan tool or hand-held tester, and read value for voltage output of heated oxygen sensor (bank 1, 2 sensor 1).

PREPARATION:

- (a) Connect the OBD II scan tool or hand-held tester to the DLC3.
- (b) Warm up the engine to normal operating temperature.

CHECK:

Read the voltage output of the heated oxygen sensor when the engine is suddenly raced.

HINT:

Perform quick racing to 4,000 rpm 3 times using the accelerator pedal.

OK:

Heated oxygen sensor output a RICH signal (0.45 V or more) at least once.

OK Go to step 9.

NG

4 Check for open and short in harness and connector between ECM and heated oxygen sensor (bank 1, 2 sensor 1) (See page [IN-34](#)).

NG Repair or replace harness or connector.

OK

5 Check whether misfire is occurred or not by monitoring DTC and data list.

NG Perform troubleshooting for misfire (See page [IG-1](#)).

OK

6 Check air induction system (See page [SF-1](#)).

NG Repair or replace.

OK

7 Check fuel pressure (See page [SF-5](#)).

NG Check and repair fuel pump, pressure regulator, fuel pipe line and filter (See page [SF-1](#)).

OK

8 Check injector injection (See page [SF-23](#))

NG Replace injector.

OK

9 Check gas leakage on exhaust system.

NG Repair or replace.

OK

Replace heated oxygen sensor (bank 1, 2 sensor 1).

10 Perform confirmation driving pattern (See page [DI-71](#)).

Go

11 Is there DTC P0134 and P0154 being output again?

YES

Check and replace ECM (See page [IN-34](#)).

NO

12 Did vehicle runs out of fuel in past?

NO

Check for intermittent problems
(See page [DI-3](#)).

NO

DTC P0134 and P0154 is caused by running out of fuel.