DTC	P0136	Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 1)

CIRCUIT DESCRIPTION

Refer to DTC P0125 on page DI–52.

DTC No.	DTC Detection Condition	Trouble Area
P0136	Output voltage of oxygen sensor remains at 0.45 V or less 0.60V or more when vehicle is driven at 50 km/h (31 mph) or more after engine is warmed up (2 trip detection logic)	• Open or short in oxygen sensor circuit • Oxygen sensor

WIRING DIAGRAM

Refer to DTC P0125 on page DI–52.

INSPECTION PROCEDURE

HINT:

Read freeze frame data using the hand–held tester. Because freeze frame data records the engine conditions when a 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.

1	**Are there any other codes (besides DTC P0136) being output?**

YES → **Go to relevant DTC chart (See page DI–13).**

NO

2	**Check for open and short in harness and connector between engine ECU and oxygen sensor (See page IN–19).**

NG → **Repair or replace harness or connector.**

OK

3	**Check output voltage of oxygen sensor.**

PREPARATION:

(a) Connect the hand–held tester to the DLC3.

(b) Warm up the engine to the normal operating temperature.

CHECK:

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

HINT:

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

OK:

Oxygen sensor output voltage:
Alternates from 0.45 V or less to 0.60 V or more.

OK → **Check that each connector is properly connected.**

NG

Replace oxygen sensor.