DI3P3-01

DTC		Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 2)
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DTC	P0156/29	Oxygen Sensor Circuit Malfunction (Bank 2 Sensor 2)
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CIRCUIT DESCRIPTION

Refer to DTC P0130/21, P0150/28 (Oxygen Sensor Circuit Malfunction (Bank 1 Sensor1) (Bank 2 Sensor 1)) on page DI-51.

DTC No.	DTC Detecting Condition	Trouble Area
P0136/27 P0156/29	Voltage output of the oxygen sensor (bank 1 sensor 2, bank 2 sensor 2) remains at 0.4 V or more or 0.5 V or less when the after the engine is warmed up and under conditions (a) and (b): (a) Vehicle speed: 100 km/h (62 mph) (b) Engine speed: 1,500 rpm	Oxygen sensor

HINT:

- Bank 1 refers to bank that includes cylinder No. 1.
- Bank 2 refers to bank that does not include cylinder No.
- Sensor 2 refers to the sensor farther away from the engine body.

WIRING DIAGRAM

Refer to DTC P0 130/21, P 0150/28 (Oxygen Sensor Circuit Malfunction (Bank 1 Sensor1) (Bank 2 Sensor 1)) on page DI-51 for the WIRING DIAGRAM.

INSPECTION PROCEDURE

When using hand -held tester

HINT:

Read freeze frame data using hand —held tester. 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 warmed up or not, the air —

fuel ratio lean or rich, etc. at the time of the malfunction.

Are there any other codes (besides DTC P0 136 or P0 156) being output?

YES

Go to relevant DTC chart (See page DI-17).

NO

1

	DIAGNOSTICS - ENGINE			
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.			
ОК				
3 Check the output voltage of oxygen sensor (bank 1,2 sensor 2).				
PREPA	RATION:			
(a) Conr (b) Af CHECK Read vo HINT: Perform OK:	nect the hand —held tester to the DLC3. Iter warming up the engine, race engine at 2,500 rpm for 3 min.			
	OK Check that each connector is properly connected.			
NG				
Repla	ace oxygen sensor.			
When	not using hand –held tester			
1	1 Are there any other codes (besides code 27 or 29) being output?			
	YES Go to relevant DTC chart (See page DI-17).			
NO				

2UZ-FE ENGINE (RM630E)

Replace oxygen sensor.