P0335/12,13 Crankshaft Position Sensor Circuit Malfunction

CIRCUIT DESCRIPTION

The crankshaft position sensor, which detects the engine speed and crankshaft angle signal (NE signal), has been installed on the oil pump body.

The NE signal plate has 34 teeth. The NE signal sensor generates 34 signals of every engine revolution. The engine ECU detects the standard crankshaft angle based on the G2 signals, and the actual crankshaft angle and the engine speed by the NE signals.

DTC No.	DTC Detecting Condition	Trouble Area
P0335/12,13	No crankshaft position sensor signal to engine ECU during cranking. (2 trip detection logic)	 Open or short in crankshaft position sensor circuit Crankshaft position sensor Starter Engine ECU
	No crankshaft position sensor signal to engine ECU with en- gine speed 1,000 rpm or more (2 trip detection logic)	

WIRING DIAGRAM



DTC

DI5YE-01



INSPECTION PROCEDURE

HINT:

- LH and RH bank engine ECU detect this DTC code respectively. The inspection procedures are same for both LH and RH bank engine ECU and described in this manual. Even though terminal name and part name on the side of RH bank are described in parenthesis, perform the inspection for only ECU that has detected DTC.
- Perform troubleshooting of DTC P0335/12, 13 first. If no trouble is found, troubleshoot the following mechanical systems.
- 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.

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