DTC P0335 Crankshaft Position Sensor "A" Circuit	
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DTC	P0339	Crankshaft Position Sensor "A" Circuit Intermittent

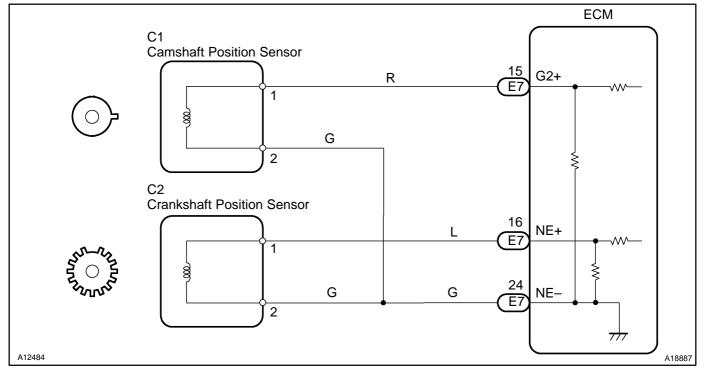
CIRCUIT DESCRIPTION

Crankshaft position sensor (NE signal) consists of a magnet, iron core and pickup coil.

The NE signal plate has 34 teeth and is mounted on the crankshaft. The NE signal sensor generates 34 signals at every engine revolution. The engine ECM detects the crankshaft angle and the engine speed based on the NE signals, and idetify the cylinder on the G2 (Camshaft position sensor) and NE signals.

DTC No.	DTC Detection Condition	Trouble Area
P0335	No crankshaft position sensor signal to ECM during cranking (2 trip detection logic)	 Open or short in crankshaft position sensor circuit Crankshaft position sensor Signal plate (Crankshaft position sensor rotor) ECM
	No crankshaft position sensor signal to ECM with engine speed 600 rpm or more (2 trip detection logic)	
P0339	 In condition (a), (b) and (c), when no crankshaft position sensor (NE) signal is input for 0.05 sec. or more. (a) Engine revolution 1,000 rpm or more (b) STA signal is OFF (c) 3 sec. or more has been lapsed after STA signal is switched from ON to OFF. 	

WIRING DIAGRAM

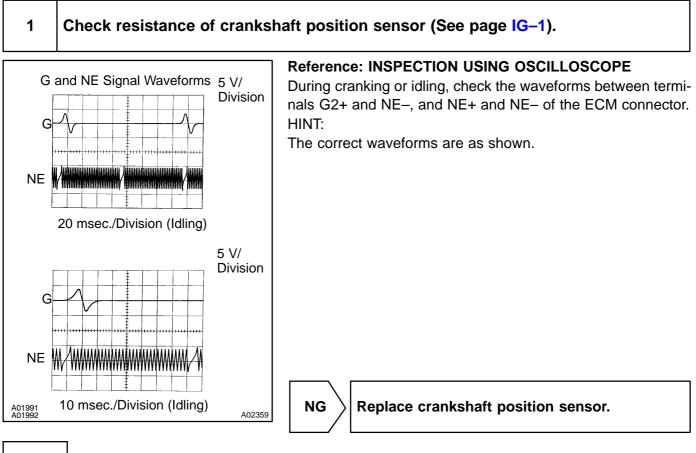


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INSPECTION PROCEDURE

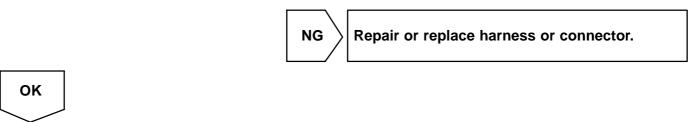
HINT:

- Perform troubleshooting of DTC P0335 first. If no trouble is found, troubleshoot the following mechanical system.
- Read freeze frame data using the hand-held tester or the OBD II scan tool, as 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.



ОК

2	Check for open and short in harness and connector between ECM and crank- shaft position sensor (See page IN–28).
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3 Inspect sensor installation and teeth of signal plate. NG Tighten sensor. Replace signal plate. OK Check and replace ECM (See page IN-28).