DTC	P0340	Camshaft Position Sensor Circuit Malfunc- tion
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CIRCUIT DESCRIPTION

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

The G signal plate has 1 tooth, on its outer circumference and is installed the LH camshaft timing pulley. When the camshafts rotate, the protrusion on the signal plate and the air gap on the pickup coil change, causing fluctuations in the magnetic field and generating an electromotive force in the 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 ECM detects the standard crankshaft angle based on the G signal and the actual crankshaft angle and the engine speed by the NE signal.

DTC No.	DTC Detecting Condition	Trouble Area
P0340	No camshaft position sensor signal to ECM during cranking (2 trip detection logic)	 Open or short in camshaft position sensor circuit Camshaft position sensor LH camshaft timing pulley ECM
	No camshaft position sensor signal to ECM with engine speed 600 rpm or more	

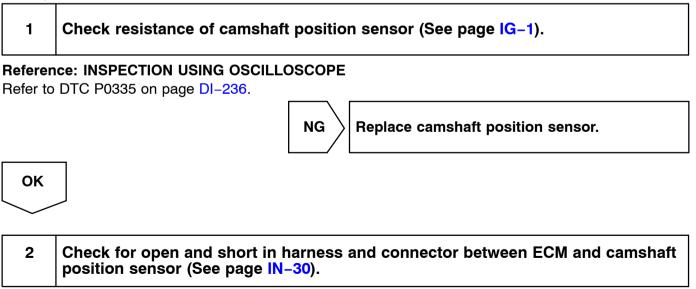
WIRING DIAGRAM

Refer to DTC P0335 on page DI-236.

INSPECTION PROCEDURE

HINT:

Read freeze frame data using LEXUS 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.



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2000-LEXUS SC300/SC400 (RM715U)

Repair or replace harness or connector.

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3 Inspect sensor installation and tooth of LH camshaft timing pulley.



Tighten sensor. Replace LH camshaft timing pulley.

Check and replace ECM (See page IN-30).