

DTC	P0385	Crankshaft Position Sensor "B" Circuit Malfunction
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CIRCUIT DESCRIPTION

The crankshaft position sensor (NE2 signal) consists of a signal plate and a pick up coil. The NE2 signal plate has 34 teeth and is mounted on the crankshaft. When the crankshaft rotates, the protrusion on the signal plate and the air gap on the pick up coil change, causing fluctuations in the magnetic field and generating an electromotive force in the pick up coil. The NE2 signal sensor generates 34 signals for every engine revolution. The ECM detects the standard crankshaft angle based on G1, G2 signals detects the actual crankshaft angle and the engine speed by NE signals, and detects misfire by NE2 signals.

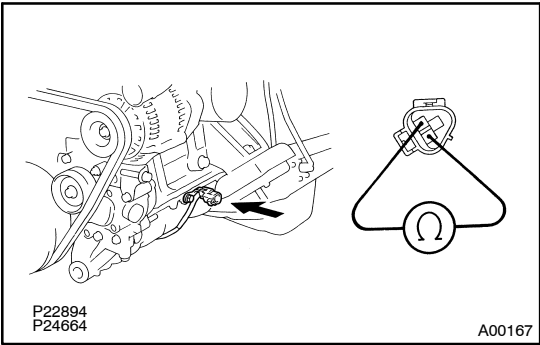
DTC No.	DTC Detecting Condition	Trouble Area
P0385	No crankshaft position sensor signal (NE 2 signal) to ECM during cranking. (2 trip detection logic)	• Open or short in crankshaft position sensor for NE2 signals. • Crankshaft position sensor for NE2 signal. • ECM
	No crankshaft position sensor signal (NE 2 signal) to ECM with engine speed 550 rpm or more. (2trip detection logic)	

WIRING DIAGRAM

Refer to DTC 0335 on page [DI-62](#) for WIRING DIAGRAM.

INSPECTION PROCEDURE

1	Check resistance of camshaft position sensor for NE2 signal.
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PREPARATION:

Disconnect crankshaft position sensor connector.

CHECK:

Measure the resistance between terminals 1 and 2 of crankshaft position sensor connector.

OK:

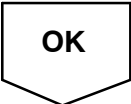
	Resistance
Cold	1630 ~ 2740 Ω
Hot	2065 ~ 3225 Ω

"Cold" is from -10°C (14°F) to 50°C (122°F) of engine coolant temperature and "Hot" is from 50°C (122°F) to 100°C(212°F).

Reference INSPECTION USING OSCILLOSCOPE

Refer to page [DI-62](#) for Reference INSPECTION USING OSCILLOSCOPE.

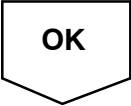
NG	Replace crankshaft position sensor.
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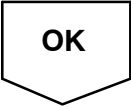
2	Check for open and short in harness and connector between ECM and crankshaft position sensor for NE2 signal (See page IN-27).
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NG

Repair or replace harness or connector.

OK

3	Inspect sensor installation and teeth of signal plate.
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NGTighten the sensor.
Replace signal plate.OK

Check and replace ECM (See page [IN-27](#)).