

DTC P0335 Crankshaft Position Sensor “A” Circuit Malfunction

CIRCUIT DESCRIPTION

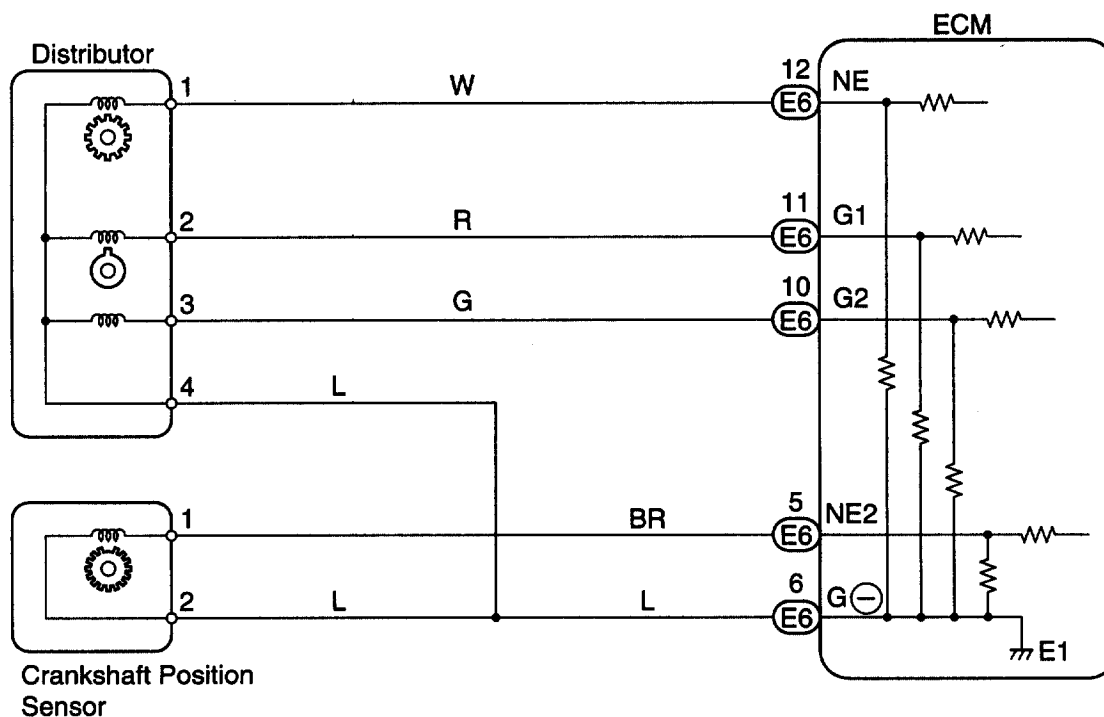
The crankshaft position sensor (NE signal) consists of a signal plate and a pick up coil. The NE signal plate has 24 teeth and is built into the distributor.

When the camshaft 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.

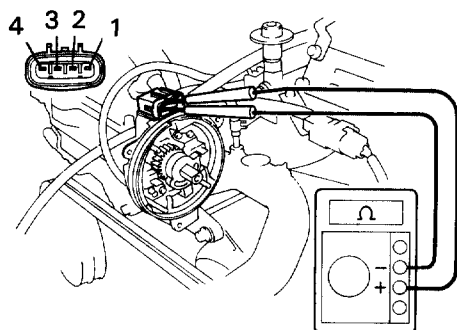
The NE signal sensor generates 24 signals for every engine revolution. The ECM detects the standard crankshaft angle based on the G1, G2 signals, detects the actual crankshaft angle and the engine speed by the NE signals, and detects misfire by NE2 signals.

DTC No.	Diagnostic Trouble Code Detecting Condition	Trouble Area
P0335	No crankshaft position sensor signal (NE signal) to ECM during cranking (2 trip detection logic)	• Open or short in crankshaft position sensor circuit for NE signal • Crankshaft position sensor for NE signal • Starter • ECM
	No crankshaft position sensor signal (NE signal) to ECM with engine speed 550 rpm or more (2 trip detection logic)	

WIRING DIAGRAM



1 Check resistance of crankshaft position sensor for NE signal.



P08339

P Disconnect distributor connector.

C Measure resistance between terminals 1 and 4 of distributor connector.

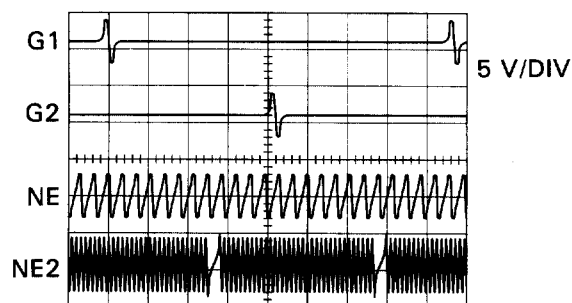
OK

	Resistance
Cold	185 ~ 275 Ω
Hot	240 ~ 325 Ω

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

Reference INSPECTION USING OSCILLOSCOPE

G, NE signal waveforms



P23505

20 m sec/Division (Idling)

OK

NG

Replace distributor.

2 Check for open and short in harness and connector between ECM and crankshaft position sensor for NE signal (See page [IN-26](#)).

OK

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Repair or replace harness or connector.

3 Check air gap (See page [IG-9](#)).

OK

NG

Replace distributor housing assembly.

Check and replace ECM (See page [IN-31](#)).