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|------------|--------------|---|
| DTC | P0335 | Crankshaft Position Sensor "A" Circuit Malfunction |
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CIRCUIT DESCRIPTION

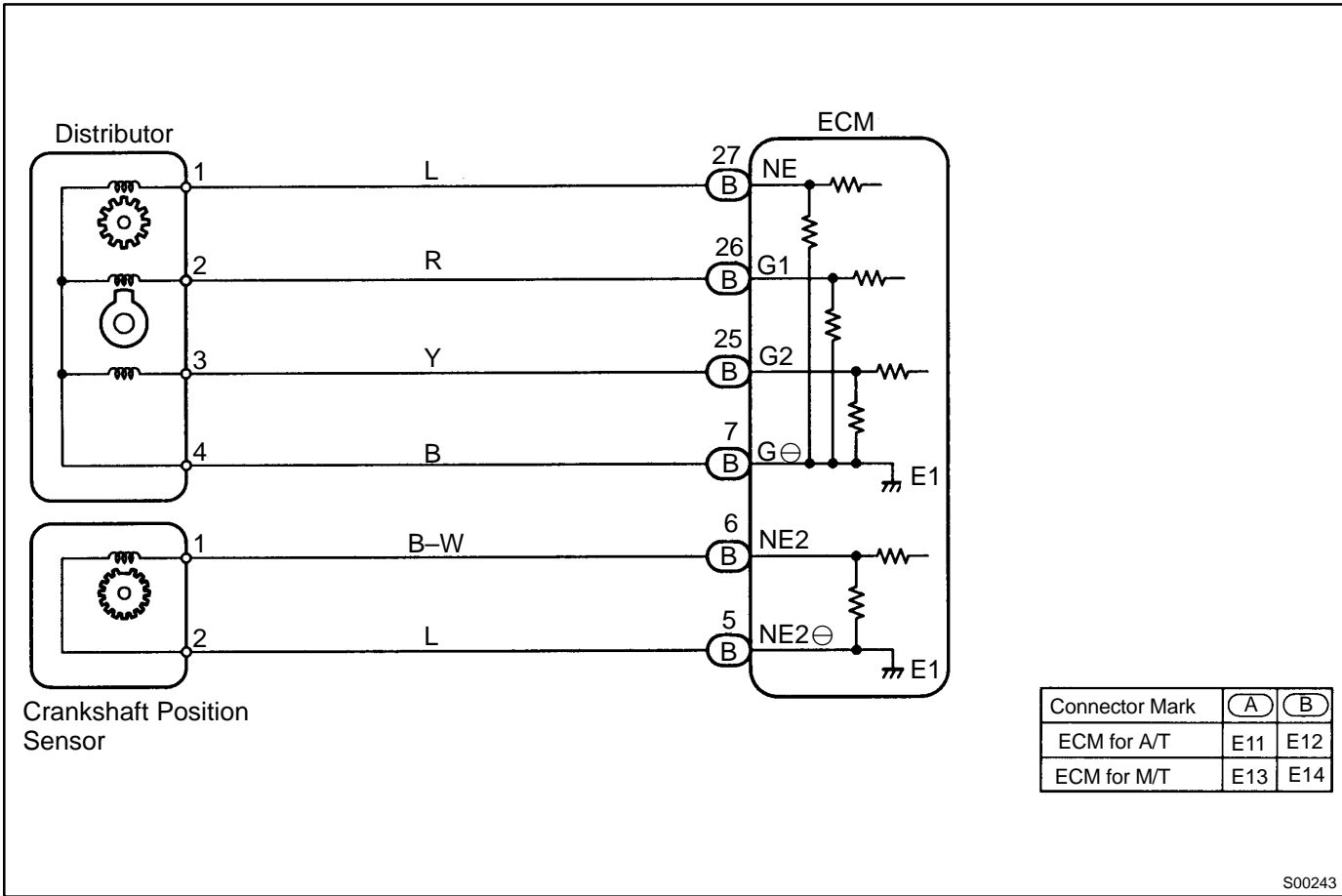
The crankshaft position sensor (NE signal) consists of a signal plate and a pick up coil. The NE signal plate has 24 teeth and is built into the distributor.

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, and the actual crankshaft angle and the engine speed by the NE signals, and detects misfire by NE2 signals.

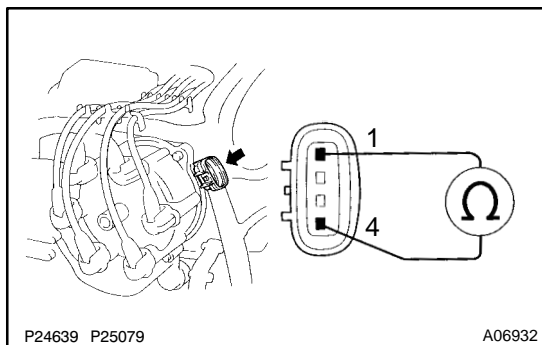
| DTC No. | DTC Detecting Condition | Trouble Area |
|---------|---|---|
| P0335 | No crankshaft position sensor signal (NE signal) to ECM during cranking (2 trip detection logic) | <ul style="list-style-type: none"> • Open or short in crankshaft position sensor circuit for NE signal • Crankshaft position sensor for NE signal • Starter • ECM |
| | No crankshaft position sensor signal (NE signal) to ECM with engine speed 600 rpm or more (2 trip detection logic) | |

WIRING DIAGRAM



INSPECTION PROCEDURE

1 Check resistance of crankshaft position sensor for NE signal.

**PREPARATION:**

Disconnect distributor connector.

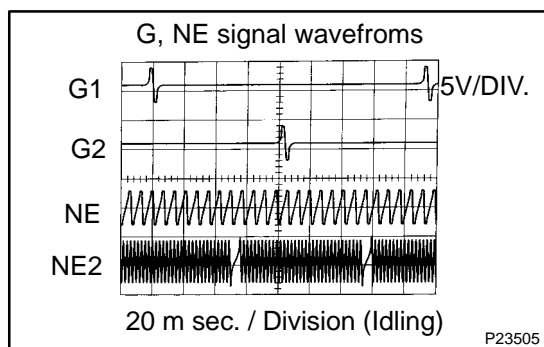
CHECK:

Measure resistance between terminals 1 and 4 of distributor connector.

OK:

| | Resistance |
|------|------------|
| Cold | 155 – 250Ω |
| Hot | 190 – 290Ω |

"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**

During cranking or idling check between ECM terminals G1, G2, NE and $G\ominus$, and between NE2 and $NE2\ominus$.

HINT:

The correct waveforms are as shown.

NG

Replace distributor housing assembly.

OK2 Check for open and short in harness and connector between ECM and crankshaft position sensor for NE signal (See page [IN-29](#)).**NG**

Repair or replace harness or connector.

OK

| | |
|---|--------------------------------|
| 3 | Check air gap (See page IG-1). |
|---|--------------------------------|

| | |
|----|---------------------------------------|
| NG | Replace distributor housing assembly. |
|----|---------------------------------------|

OK

Check and replace ECM (See page [IN-29](#)).