DI1IK-06

DTC	P0335/12, 13	Crankshaft Position Sensor Circuit Malfunction
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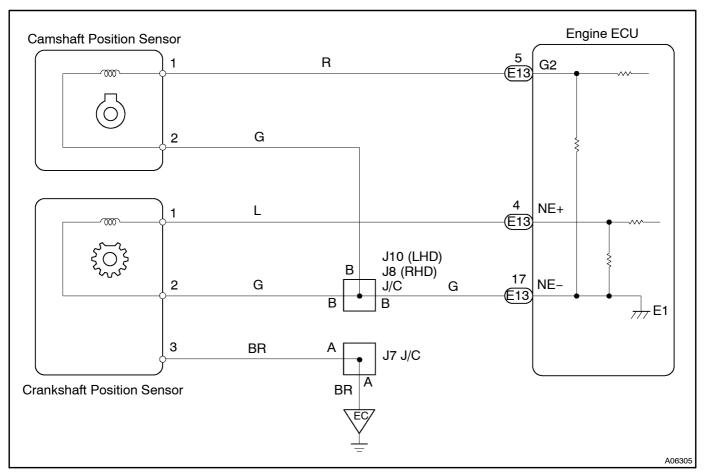
CIRCUIT DESCRIPTION

Crankshaft position sensor (NE signal) consist of a signal plate and pick up coil.

The NE signal plate has 34 teeth and is mounted on the crankshaft. The NE signal sensor generates 34 signals of every engine revolution. The engine ECU detects the standard crankshaft angle based on the G2 signals, and the actual crankshaft angle the engine speed by the NE signals.

DTC No.	DTC Detecting Condition	Trouble Area
P0335/12, 13		Open or short in crankshaft position sensor circuit Crankshaft position sensor
	No crankshaft position sensor signal to engine ECU with engine speed 600 rpm or more	Starter Engine ECU

WIRING DIAGRAM



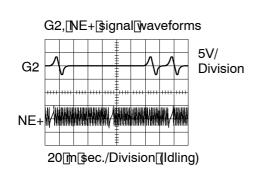
INSPECTION PROCEDURE

HINT:

- Read[freeze[frame[data[using[hand-held[tester.[Because[freeze[frame[]ecords[the]engine[conditions when[the[]nalfunction[is[detected,[when[troubleshooting[it][s]]useful[for[determining[whether[the]yehicle was[funning[]]r[stopped,[the]engine[warmed[]]up[]pr[]hot,[the]air-fuel[fatio[]ean[]]r[fich,[etc.[at[]]he[]]ime of[]the[]nalfunction.
- Perform[troubleshooting[bf[DTC[P0335/12,13[first.]f[ho[trouble]]s[found,[troubleshoot[the[following mechanical[systems.]]]

1[]

Check[resistance[of]crankshaft[position]sensor[[See]page[]G-1).

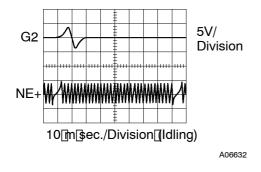


Reference: INSPECTION USING OSCILLOSCOPE

During cranking or idling, check between terminals G2 and NE-, NE+ and NE- of engine ECU.

HINT:

The correct waveforms are as shown.



NG

Replace crankshaft position sensor.

ОК

2

Check for open and short in harness and connector between engine ECU and crankshaft position sensor equal = 19.

NG

Repair or replace harness or connector.

OK

3 Inspect[sensor[installation[and[teeth]of[crankshaft[timing[pulley.

NG□

Tighten[the[sensor. Replace[crankshaft[timing[pulley.

OK