DI2U9-03

DTC P0340/12 Camshaft Position Sensor Circuit Malfunction

## **CIRCUIT** DESCRIPTION

Camshaft[position[sensor[G2[signal]]consist[of[asignal]plate[and[pickup[coil.

The G2 signal plate has 1 dooth, on its outer circumference and is mounted on the deft bank camshafts.

When the camshafts totate, 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 s mounted on the crankshaft. The NE signal sensor generates 34 signals for every engine evolution. The engine ECU detects the standard crankshaft angle based on the G2 signal and the actual crankshaft angle and the engine speed by the NE signals.

DTC[No.	DTC[Detecting[Condition	Trouble[Area
P0340/12	No[camshaft[position[sensor[signal]]o[engine[ECU[during cranking	Open@r[short]n@amshaft[position[sensor@ircuit     Camshaft[position[sensor
	No@amshaft@osition@ensor@ignal@o@ngine@cU@vith@engine speed@00@pm@r@nore	Starter  Engine ECU

## WIRING DIAGRAM

Refer[10]DTC[P0335/12, 13[\pn]\page[DI-84.

## **INSPECTION PROCEDURE**

HINT:

1 Check resistance of camshaft position sensor (See page G-1).

## Reference: INSPECTION USING OSCILLOSCOPE

Refer[to]DTC[P0335/12, 13[pn]page[DI-84[flor[the]Reference:]INSPECTION[USING[DSCILLOSCOPE.

NG[] Replace[camshaft[position[sensor.

ОК

2∏

Check[for[open[and[short[in[harness[and[connector[between[engine]ECU[and camshaft[position[sensor[(See[page[IN-35]).

NG Repair or replace harness or connector.

OK

3☐ Inspect[sensor[installation.

NG□

Tighten sensor.

OK

Check[and[replace[engine[ECU (See[page]N-35).