DI3P7-01

DTC	P0340/12	Camshaft[Position[Sensor[Circuit Malfunction
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CIRCUIT DESCRIPTION

Camshaft[position[sensor[]G2[signal)]consist[pf]a[signal[plate[and[pickup[coil.

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

When the camshafts otate, 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
F		Notamshaftpositionsensorsignal of ngine ECU during cranking	Open[�r[şhort[]n[¢amshaft[position[şensor[¢ircuit
	P0340/12	No@amshaft@osition@ensor@ignal@o@ngine@ECU@vith@ngine speed@00@pm@r@nore	Starter Engine ECU

WIRING DIAGRAM

Refer[]o[DTC[P0335/12, 13[]Crankshaft[Position[Sensor[Circuit[Malfunction)]on[page[DI-72[]or[]he WIRING[DIAGRAM.

INSPECTION PROCEDURE

HINT:

Read[freeze[frame[data[using[hand-held[tester.]Because[freeze[frame[jecords[the]engine[conditions]when the[malfunction[js[detected,[when[froubleshooting[it]]s[useful[flor[determining[whether[the[was[]unning[]or[stopped,[the]engine[warmed[]up[]or[]not,[the[]air-fuel[fatio[]ean[]or[]ich,[etc.[att]he[time[]of[the[]malfunction.]

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

Reference: INSPECTION USING OSCILLOSCOPE

Refer [] o [DTC [P0335/12, 13 [Crankshaft [Position [Sensor [Circuit [Malfunction) [] on [] page [DI-72 [] or [] the Reference: INSPECTION USING OSCILLOSCOPE.

NG Replace camshaft position sensor.

ΟK

Check[for[open[and[short[in[harness[and[connector[between[engine[ECU[and camshaft[position[sensor[See[page]N-19])]]]

NG Repair or replace harness or connector.

OK

Inspect sensor installation.

NG Tighten sensor.

Check and replace engine ECU (See[page[]N-19])