DI38D-03

DTC	P0340	Camshaft Position Sensor Circuit Malfunction
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CIRCUIT DESCRIPTION

Camshaft position sensor (G signal) consists of a magnet, iron core and pickup coil.

The G signal rotor has 3 teeth on its outer circumference and is mounted on the intake camshaft.

When the camshafts rotate, 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 (crank angle sensor plate) has 34 teeth and is installed on the crankshaft. The NE signal sensor generates 34 signals at every engine revolution. The ECM detects the standard crankshaft angle based on the G signals, the actual crankshaft angle and the engine speed by the NE signals.

DTC No.	DTC Detection Condition	Trouble Area
	No camshaft position sensor signal to ECM during cranking (2 trip detection logic)	Open or short in camshaft position sensor circuit Camshaft position sensor
	No camshaft position sensor signal to ECM with engine speed 600 rpm or more	Intake camshaft ECM

WIRING DIAGRAM

Refer to DTC P0335 on page DI-71.

INSPECTION PROCEDURE

HINT:

Read freeze frame data using TOYOTA hand-held tester or OBD II scan tool. Because freeze frame records the engine conditions when the malfunction is detected. When troubleshooting, it is useful for determining whether the vehicle was running or stopped, the engine was warmed up or not, the air-fuel ratio was lean or rich, etc. at the time of the malfunction.

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

Reference: INSPECTION USING OSCILLOSCOPE

Refer to DTC P0335 on page DI-71.

NG Replace camshaft position sensor.

OK

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Check for open and short in harness and connector between ECM and camshaft position sensor (See page IN-28).

NG

Repair or replace harness or connector.

OK2000-MR2 (RM760U)

Author: Date: 237

Inspect sensor installation and signal rotor teeth of intake camshaft (See page EM-11).

NG

Tighten sensor. Replace intake camshaft.

OK

Check and replace ECM (See page IN-28).

2000 MR2 (RM760U)

Author: Date: 238