

## DTC P0335 CKP SENSOR (POS)

[VQ]

### DTC P0335 CKP SENSOR (POS)

PFP:23731

#### Component Description

UBS0014H

The crankshaft position sensor (POS) is located on the oil pan facing the gear teeth (cogs) of the signal plate. It detects the fluctuation of the engine revolution.

The sensor consists of a permanent magnet and Hall IC.

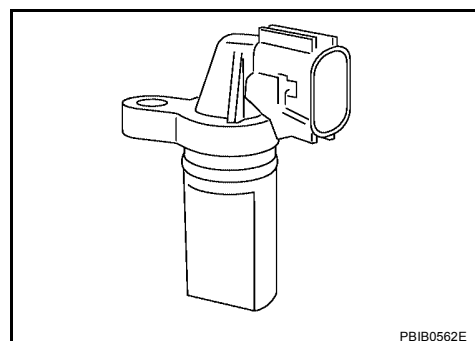
When the engine is running, the high and low parts of the teeth cause the gap with the sensor to change.

The changing gap causes the magnetic field near the sensor to change.

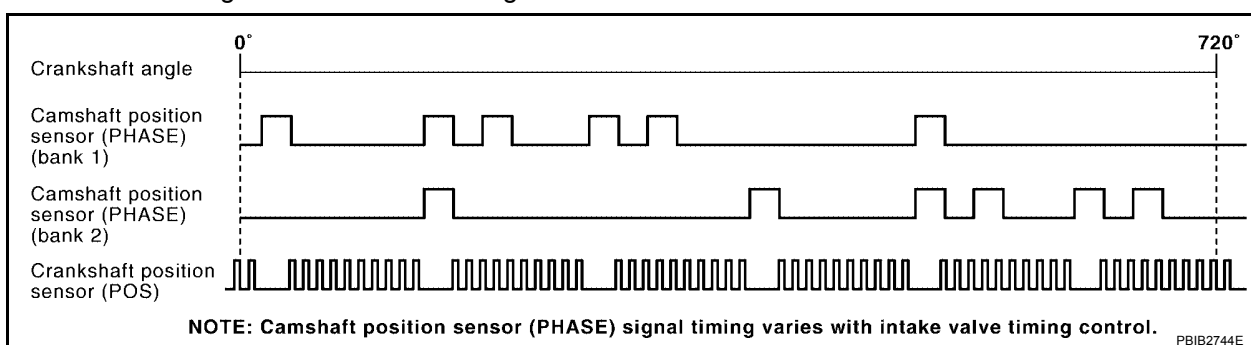
Due to the changing magnetic field, the voltage from the sensor changes.

The ECM receives the voltage signal and detects the fluctuation of the engine revolution.

ECM receives the signals as shown in the figure.



PBIB0562E



#### CONSULT-II Reference Value in Data Monitor Mode

UBS0014I

Specification data are reference values.

| MONITOR ITEM | CONDITION   | SPECIFICATION                                       |
|--------------|---|---|
| ENG SPEED    | ● Run engine and compare CONSULT-II value with the tachometer indication. | Almost the same speed as the tachometer indication. |

#### On Board Diagnosis Logic

UBS0014J

| DTC No.       | Trouble diagnosis name                   | DTC detecting condition   | Possible cause  |
|---------------|--|---|---|
| P0335<br>0335 | Crankshaft position sensor (POS) circuit | <ul style="list-style-type: none"><li>● The crankshaft position sensor (POS) signal is not detected by the ECM during the first few seconds of engine cranking.</li><li>● The proper pulse signal from the crankshaft position sensor (POS) is not sent to ECM while the engine is running.</li><li>● The crankshaft position sensor (POS) signal is not in the normal pattern during engine running.</li></ul> | <ul style="list-style-type: none"><li>● Harness or connectors (The sensor circuit is open or shorted)</li><li>● Crankshaft position sensor (POS)</li><li>● Signal plate</li></ul> |

#### DTC Confirmation Procedure

UBS0014K

##### NOTE:

If DTC Confirmation Procedure has been previously conducted, always turn ignition switch OFF and wait at least 10 seconds before conducting the next test.

##### TESTING CONDITION:

Before performing the following procedure, confirm that battery voltage is more than 10.5V with ignition switch ON.