## P0335 CKP SENSOR (POS)

### Component Description

INFOID:0000000009886678

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

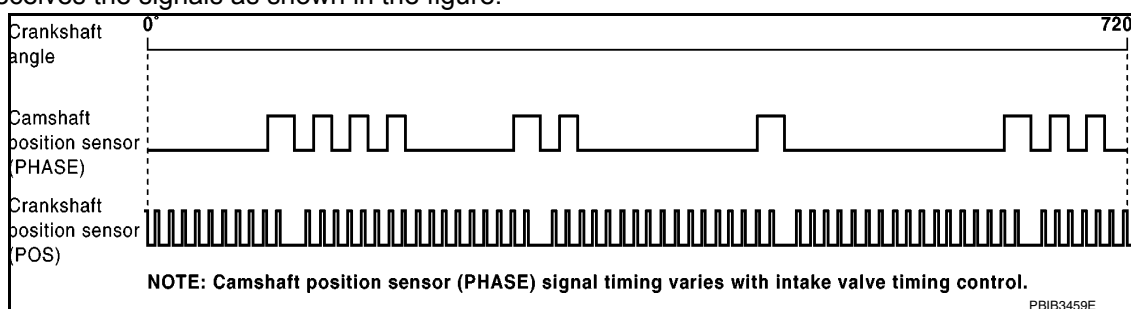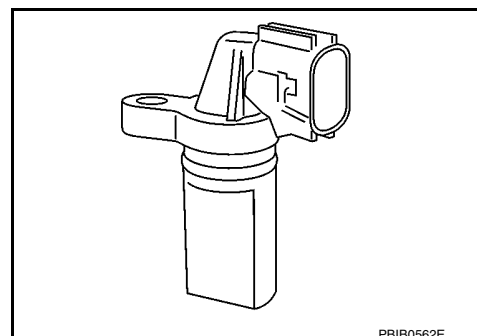The sensor consists of a permanent magnet and Hall IC.

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



NOTE: Camshaft position sensor (PHASE) signal timing varies with intake valve timing control.

PBIB3459E

### On Board Diagnosis Logic

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause |
|---|---|---|---|
| P0335 0335 | Crankshaft position sensor (POS) circuit | • The crankshaft position sensor (POS) signal is not detected by the ECM during the first few seconds of engine cranking.<br>• The proper pulse signal from the crankshaft position sensor (POS) is not sent to ECM while the engine is running.<br>• The crankshaft position sensor (POS) signal is not in the normal pattern during engine running. | • Harness or connectors (The sensor circuit is open or shorted)<br>• Crankshaft position sensor (POS)<br>• Signal plate |

### DTC Confirmation Procedure

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**NOTE:**
If DTC Confirmation Procedure has been previously conducted, always perform the following before conducting the next step.

1. Turn ignition swich OFF and wait at least 10 seconds.
2. Turn ignition swich ON.
3. Turn ignition swich OFF and wait at least 10 seconds.

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

1. Crank engine for at least 2 seconds and run it for at least 5 seconds at idle speed.
2. Check 1st DTC.
3. If 1st trip DTC is detected, go to EC-272, "Diagnosis Procedure".

### Diagnosis Procedure

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### 1.CHECK GROUND CONNECTIONS