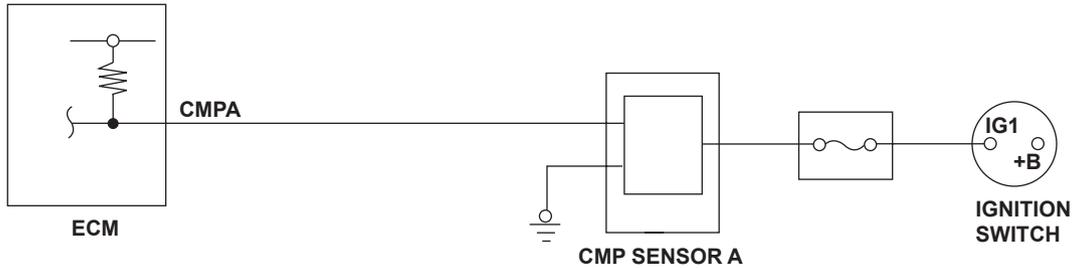


# Advanced Diagnostics

## DTC P0340: Camshaft Position (CMP) Sensor A No Signal (Engine Type: K20Z3)



P0340-0307

### General Description

Camshaft position (CMP) sensor A detects the intake camshaft timing and sends pulsing signals to the engine control module (ECM). The ECM determines the advance or the retard of the camshaft timing according to the signals from the crankshaft position (CKP) sensor and CMP sensor A. If no pulsing signals are detected from CMP sensor A, a malfunction is detected and a DTC is stored.

### Monitor Execution, Sequence, Duration, DTC Type, OBD Status

Execution	Continuous
Sequence	None
Duration	—
DTC Type	One drive cycle, MIL ON
OBD Status	N/A

### Enable Conditions

Condition	
State of the engine	Running
No active DTCs	P0335, P0339, P0344

### Malfunction Threshold

No signals from CMP sensor A are detected at least 25 times in succession.

## **Diagnosis Details**

### **Conditions for illuminating the MIL**

When a malfunction is detected, the MIL comes on and the DTC and the freeze frame data are stored in the ECM memory.

### **Conditions for clearing the MIL**

The MIL will be cleared if the malfunction does not recur during three consecutive trips in which the diagnostic runs.

The MIL, the DTC, and the freeze frame data can be cleared by using the scan tool Clear command or by disconnecting the battery.

P0340TSNA7AA200AN