Knock Sensor

Ce00L–01

Knock Sensor Monitor Description

MONITOR SUMMARY

The knock sensor, located on the cylinder block, detects spark knock. When spark knock occurs, the sensor picks–up vibrates in a specific frequency range. When the ECM detects voltage in this frequency range, it retards the ignition timing to suppress the spark knock.
The ECM also senses background engine noise with the knock sensor and uses this noise to check for faults in the sensor. If the knock sensor signal level is too low for more than 10 seconds, the ECM interprets this as a fault in the knock sensor and sets a DTC.
When the flat type knock sensor is used, the ECM supplies 5 V to the knock sensor and measures this voltage to monitor if knock sensor circuit is open or shorted. If this voltage is out of the specified range, the ECM interprets this as a fault in the knock sensor and sets a DTC.

RELATED DTC

Previous code:

Related DTCs	P0325 (Bank 1)	• Knock sensor signal level is too low • Knock sensor circuit is open/shorted (Only 2003 Corolla)
	P0330 (Bank 2)	

Extended code (1GR–FE, 3MZ–FE and 2003 MY 2ZZ–GE):

Related DTCs	P0325 (Bank 1)	Knock sensor signal level is too low
	P0330 (Bank 2)	
	P0327 (Bank 1)	Knock sensor voltage is low
	P0332 (Bank 2)	
	P0328 (Bank 1)	Knock sensor voltage is high
	P0333 (Bank 2)	

MODEL YEAR CHART

Model Year	See Page
1996 to 2004	Ce–41