

VVT Sensor

Ce00M-01

VVT Sensor Monitor Description

MONITOR SUMMARY

The variable valve timing (VVT) sensor consists of a magnet, an iron core and a pick-up coil. This sensor monitors a timing rotor located on the camshaft and is used by the engine control module (ECM) to detect the camshaft angle. The camshaft rotation synchronizes with the crankshaft rotation, and this sensor communicates the rotation of the camshaft timing rotor as a pulse signal to the ECM. Based on the signal, the ECM controls valve timing.

If there is no signal from the VVT sensor even though the engine is turning or the rotation of the camshaft and the crankshaft is not synchronized, the ECM interprets this as a malfunction in the sensor and sets a DTC.

RELATED DTC

Previous code:

Related DTCs	P1345 (Bank 1)	- No VVT sensor signal - VVT signal and crankshaft position signal misalignment
	P1350 (Bank 2)	

Extended code (2003 MY 1MZ-FE [ES300]):

Related DTCs	P0345	VVT sensor circuit is open/shorted
	P0347	VVT sensor voltage is low output
	P0348	VVT sensor voltage is high output

Extended code (2003 MY 1MZ-FE [Avalon, Highlander, Sienna, RX300], 1MZ-FE [Camry product after Jan. 2003] and 3MZ-FE):

Related DTCs	P0345	No VVT sensor signal
	P0346	VVT signal and crankshaft position signal misalignment

Extended code (2003 MY 3UZ-FE):

Related DTCs	P0340 (Bank 1)	No VVT sensor signal
	P0345 (Bank 2)	
	P0341 (Bank 1)	VVT signal and crankshaft position signal misalignment
	P0346 (Bank 2)	

MODEL YEAR CHART

Model Year	See Page
1998 to 2004	Ce-46