

VVT System

Co007-01

Valve Timing Monitor Description

MONITOR SUMMARY

The engine control module (ECM) optimizes the valve timing using the VVT system to control the intake valve camshaft. The VVT system includes the ECM, the oil control valve (OCV) and the VVT controller (actuator). The ECM sends “duty-cycle” control signals to the OCV. This electrical control signal, applied to the OCV, regulates the oil pressure supplied to the VVT controller (actuator).

The ECM compares the target valve timing with the actual valve timing calculated by using the signals from both the VVT sensor and the crankshaft position sensor. If a difference occurs between them, the ECM interprets it as a malfunction and sets a DTC.

RELATED DTC

Previous code:

Related DTCs	P1349 (Bank 1)	Intake valve timing advance/retard
	P1354 (Bank 2)	

Extended code:

Related DTCs	P0011 (Bank 1)	Intake valve timing advance
	P0021 (Bank 2)	
	P0012 (Bank 1)	Intake valve timing retard
	P0022 (Bank 2)	

MODEL YEAR CHART

Model Year	See Page
1998 to 2004	Co-7