

1998 to 2004 MY VVT Sensor Monitor (P0340, P0341, P0345, P0346, P0347, P0348, P1345, P1350)

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MONITOR STRATEGY

Required sensors/Components	Main	VVT sensor
	Sub	Crankshaft position sensor
Frequency of operation	Continuous	
Duration	Within 10 sec.	
MIL operation	2 driving cycles	No VVT sensor signal
	Immediate	Except for the above condition
Sequence of operation	None	

TYPICAL ENABLING CONDITIONS

The monitor will run whenever the following DTCs are not present	See page In-39
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TYPICAL MALFUNCTION THRESHOLDS

Detection Criteria	Threshold
Case 1: No VVT sensor signal	
VVT signal when starter operating	No signal
VVT signal when engine RPM is 600 rpm or more	
Case 2 : VVT signal and crankshaft position signal misalignment	
VVT signal per crankshaft 2 revolutions	5 or more signals
Case 3 : VVT sensor circuit is open/shorted	
VVT sensor voltage when starter not operating	Less than 0.3 V or more than 4.7 V
Case 4 : VVT sensor is low output	
VVT sensor voltage when starter not operating	Less than 0.3 V
Case 5 : VVT sensor is high output	
VVT sensor voltage when starter not operating	More than 4.7 V

COMPONENT OPERATING RANGE

Parameter	Standard Value
VVT sensor signal	- VVT sensor voltage fluctuates when intake camshaft rotates 3 signals per crankshaft 2 revolutions