

2000 to 2003 MY VVTL System Monitor (P1011, P1012, P1692, P1693)

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MONITOR STRATEGY

Required sensors/Components	Main	Oil pressure switch for VVTL
	Sub	Vehicle speed sensor, ECT sensor, Crankshaft position sensor
Frequency of operation	Continuous	
Duration	Within 5 sec.	
MIL operation	Immediate	
Sequence of operation	None	

TYPICAL ENABLING CONDITIONS

Item	Specification	
	Minimum	Maximum
The monitor will run whenever the following DTCs are not present	See page In-39	
High-lift cam condition:		
ECT	60°C (140°F)	–
Vehicle speed	10 km/h (6 mph)	–
Time after engine start	10 sec.	–
Engine RPM	6,200 rpm	–
Conventional cam condition:		
Except high-lift cam condition (Engine RPM is less than 6,000 rpm)		

TYPICAL MALFUNCTION THRESHOLDS

Detection Criteria	Threshold
Case 1: Cam does not change to conventional cam	
Oil pressure switch for VVTL when conventional cam condition	ON (Oil pressure applied to VVTL system) for 5 sec. or more
Case 2: Cam does not change to high-lift cam	
Oil pressure switch for VVTL when high-lift cam condition	OFF (Oil pressure not applied to VVTL system) for 1 sec. or more

COMPONENT OPERATING RANGE

Parameter	Standard Value
Oil pressure switch for VVTL when conventional cam condition	OFF
Oil pressure switch for VVTL when high-lift cam condition	ON