

1996 to 2004 MY ISC System Monitor (P0505, P0511)

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MONITOR STRATEGY

Required sensors/Components	Main	ETCS, ISC valve and Crankshaft position sensor
	Sub	ECT sensor and vehicle speed sensor
Frequency of operation	Continuous	
Duration	Within 20 min.	ISC system malfunction
	10 sec.	ISC valve circuit is open/shorted
MIL operation	2 driving cycles	ISC system malfunction
	Immediate	ISC valve circuit is open/shorted
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	
Case 1: ISC system malfunction		
Battery voltage	11 V	–
ECT	75°C (167°F)	–
Vehicle speed	–	3 km/h (2 mph)
Engine RPM	Idle speed	–
Case 2: ISC valve circuit is open/shorted		
Battery voltage	10 V	–

TYPICAL MALFUNCTION THRESHOLDS

When both of the following conditions are detected 5 to 11 times, the ISC system is judged to be malfunctioning.

Detection Criteria	Threshold
Case 1: ISC system malfunction	
Deviation of idle speed (shift position N)	• 100 rpm or less than target idle speed • 200 rpm or more than target idle speed
Deviation of idle speed (shift position D)	• 100 rpm or less than target idle speed • 150 rpm or more than target idle speed
Case 2: ISC valve circuit is open/shorted	
Output duty signal	0 or 100 %