

2003 and 2004 MY Accelerator Pedal Position Sensor Monitor (P2120, P2122, P2123, P2125, P2127, P2128, P2138)

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MONITOR STRATEGY

Required sensors/Components	Main	Accelerator pedal position sensor
	Sub	None
Frequency of operation	Continuous	
Duration	Within 10 sec.	
MIL operation	Immediate	
Sequence of operation	None	

TYPICAL ENABLING CONDITIONS

The monitor will run whenever the following DTCs are not present	See page In-39
Included in the Typical Malfunction Thresholds	–

TYPICAL MALFUNCTION THRESHOLDS

Engine Family	Detection Criteria	Threshold	Typical Enabling Condition
P2120:			
2JZ–FE, 5VZ–FE and 1ZZ–FE	VPA1 voltage	Less than 0.2 V	None
		4.7 V or more	
2AZ–FE, 1GR–FE, 1MZ–FE, 3MZ–FE, 2UZ–FE and 3UZ–FE	VPA1 voltage	Less than 0.2 V	
		4.8 V or more	
P2122:			
–	VPA1 voltage	Less than 0.2 V	VPA2 is 0.97° or more
P2123:			
2JZ–FE, 5VZ–FE and 1ZZ–FE	VPA1 voltage	4.7 V or more	None
2AZ–FE, 1GR–FE, 1MZ–FE, 3MZ–FE, 2UZ–FE and 3UZ–FE	VPA1 voltage	4.8 V or more	
P2125:			
2JZ–FE, 5VZ–FE and 1ZZ–FE	VPA2 voltage	Less than 0.5 V	none
		4.97 V or more	
2AZ–FE, 1GR–FE, 1MZ–FE, 3MZ–FE, 2UZ–FE and 3UZ–FE	VPA2 voltage	Less than 0.5 V	
		4.8 V or more	
P2127:			
–	VPA2 voltage	Less than 0.5 V	VPA2 is 0.97° or more
P2128:			
2JZ–FE, 5VZ–FE and 1ZZ–FE	VPA2 voltage	4.97 V or more	VPA1 is between 0.2 V and 1.8 V
2AZ–FE, 1GR–FE, 1MZ–FE, 3MZ–FE, 2UZ–FE and 3UZ–FE	VPA2 voltage	4.8 V or more	VPA1 is between 0.2 V and 3.45 V
P2138:			

—	Difference between VPA1 and VPA2	0.02 V or less	None
	VPA1 voltage VPA2 voltage	0.2 V or less 0.5 V or less	