

2003 MY for Shift Solenoid "B" Electrical (Shift Solenoid Valve S2) Monitor (P0778)

2003 MY for Pressure Control Solenoid "B" Electrical (Shift Solenoid Valve SL2) Monitor (P0778)

To return to monitor description, see page [Cm-271](#).

MONITOR STRATEGY

Required sensors/Components	Main	Shift solenoid valve No.2
	Sub	None
Frequency of operation	Continuous	
Duration	1 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		
Engine family	Item	Specification	
		Minimum	Maximum
2UZ-FE, 1MZ-FE (RX300, HIGH LANDER, CAMRY)	Condition (A)		
	Battery voltage	10 V or more	Less than 12 V
	Target duty ratio	–	Less than 75 %
	Starter	OFF	
	Condition (B)		
	Battery voltage	12 V or more	–
	Starter	OFF	
2AZ-FE, 1AZ-FE, 2ZZ-GE, 1MZ-FE (ES300)	Starter	OFF	
	Solenoid current cut status	Not cut	
	Battery voltage	11 V or more	–
	CPU commanded duty	19 % or more	–

TYPICAL MALFUNCTION THRESHOLDS

Engine family	Detection criteria	Threshold
2UZ-FE, 1MZ-FE (RX300, HIGH LANDER, CAMRY)	(A) & (B)	
	Output signal duty	100 % or more
2AZ-FE, 1AZ-FE, 2ZZ-GE, 1MZ-FE (ES300)	Solenoid status from Hybrid IC	Fail