

2001 MY for Pressure Control Solenoid "A" Electrical (Shift Solenoid Valve SL1) Monitor (P0753)

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MONITOR STRATEGY

Required sensors/Components	Main	Shift solenoid valve No.1
	Sub	None
Frequency of operation	Continuous	
Duration	0.5 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	
Engine family	Item	Specification	
		Minimum	Maximum
1MZ-FE (CAMRY, CAMRY SOLA- RA), 5VZ-FE, 3UZ-FE, 2JZ-GE, 1NZ-FE, 5S-FE, 1ZZ-FE	Range check (Low resistance)		
	Solenoid	ON (2 times)	
	Range check (High resistance)		
	Solenoid	OFF (2 times)	
1MZ-FE (RX300, SIENNA, AVA- LON, ES300)	Range check (Low resistance)		
	Solenoid	ON (2 times)	
	Range check (High resistance)		
	Solenoid	OFF (2 times)	
	Range check (A)		
	Battery voltage	10 V or more	Less than 12 V
	Target duty	–	Less than 75 %
	Starter	OFF	
	Range check (B)		
	Battery voltage	12 V or more	–
	Starter	OFF	
	Range check (C)		
	Starter	OFF	
	Range check (D)		
	Battery voltage	11 V or more	–
	Starter	OFF	

Component T/M Outputs – Solenoid

1MZ-FE (RX300, SIENNA, AVA-LON, ES300)	Range check (E)		
	Battery voltage	11 V or more	-
	CPU commanded duty	19 % or more	-
	Starter	OFF	
2ZZ-FE, 1AZ-FE	Battery voltage	11 V or more	-
	CPU commanded duty	19 % or more	-
	Starter	OFF	
1MZ-FE (HIGH LANDER)	Condition (A)		
	Battery voltage	10 V or more	Less than 12 V
	Target duty	-	Less than 75 %
	Starter	OFF	
	Condition (B)		
	Battery voltage	12 V or more	-
	Starter	OFF	
	Condition (C)		
	Starter	OFF	
2AZ-FE	Range check (Low resistance)		
	Solenoid	ON (2 times)	
	Range check (High resistance)		
	Solenoid	OFF (2 times)	
	Range check		
	Battery voltage	11 V or more	-
	CPU commanded duty	19 % or more	-
	Starter	OFF	
2UZ-FE	Range check (Low resistance)		
	Solenoid	ON (2 times)	
	Range check (High resistance)		
	Solenoid	OFF (2 times)	
	Range check		
	Output duty	90 % or more	-
3RZ-FE	Range check (Low resistance)		
	Solenoid	ON (2 times)	
	Range check (High resistance)		
	Solenoid	OFF (2 times)	
	Range check		
	CPU commanded duty	100 % or more	-

TYPICAL MALFUNCTION THRESHOLDS

Engine family	Detection criteria	Threshold
1MZ-FE (CAMRY, CAMRY SOLARA), 5VZ-FE, 3UZ-FE, 2JZ-GE, 1ZZ-FE, 1NZ-FE, 5S-FE	Range check (Low resistance)	
	Solenoid resistance	8 Ω or less
	Range check (High resistance)	
	Solenoid resistance	100 kΩ or more
1MZ-FE (RX300, SIENNA, AVALON, ES300)	Range check (Low resistance)	
	Solenoid resistance	8 Ω or less
	Range check (High resistance)	
	Solenoid resistance	100 kΩ or more
	Range check (A)	
	Output signal duty	100 % or more
	Range check (B)	
	Output signal duty	100 % or more
	Range check (C)	
	Output signal duty	3 % or less
	Range check (D)	
	Solenoid current	330 mA or less
2ZZ-GE, 1AZ-FE	Range check (E)	
	Solenoid current	330 mA or less
1MZ-FE (HIGH LANDER)	Condition (A)	
	Output signal duty	100 % or more
	Condition (B)	
	Output signal duty	100 % or more
	Condition (C)	
	Output signal duty	3 % or less
2AZ-FE, 3RZ-FE	Range check (Low resistance)	
	Solenoid resistance	8 Ω or less
	Range check (High resistance)	
	Solenoid resistance	100 kΩ or more
	Range check	
	Solenoid current	More than 330 mA
2UZ-FE	Range check (Low resistance)	
	Solenoid resistance	8 Ω or less
	Range check (High resistance)	
	Solenoid resistance	100 kΩ or more
	Range check	
	Solenoid current	330 mA or less
	Output signal duty	100 % or 0 %