

2000 MY for Torque Converter Clutch Circuit Electrical (Shift Solenoid Valve SL (DSL)) Monitor (P0773)

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MONITOR STRATEGY

Required sensors/Components	Main	Shift solenoid valve SL (DSL)
	Sub	None
Frequency of operation	Continuous	
Duration	1MZ-FE (RX300)	0.5 sec.
	1MZ-FE (SIENNA, AVALON, ES300, CAMRY, CAMRY SOLARA), 3RZ-FE, 5VZ-FE, 2UZ-FE, 1ZZ-FE (COROLLA), 3S-FE, 5S-FE, 2ZZ-GE, 1ZZ-FE (CELICA)	Less than 10 sec.
MIL operation	3RZ-FE, 5VZ-FE, 2UZ-FE, 3S-FE, 5S-FE, 1ZZ-FE (COROLLA)	2 driving cycles
	1MZ-FE (RX300, AVALON, ES300)	Immediate
	1MZ-FE (CAMRY, CAMRY SOLARA), 2ZZ-GE, 1ZZ-FE (CELICA)	2 driving cycles (Low resistance (A) & High resistance (B)) Immediate (Low resistance (C) & High resistance (D))
	1MZ-FE (SIENNA)	2 driving cycles (Low resistance (A) & High resistance (B))
Sequence of operation	None	

TYPICAL ENABLING CONDITIONS

Item	Specification	
	Minimum	Maximum
The monitor will run whenever the following DTCs are not present.		
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Engine family	Item	Specification
		Minimum Maximum
3RZ-FE, 5VZ-FE, 2UZ-FE, 1ZZ-FE (COROLLA), 5S-FE	Range check (Low resistance)	
	Solenoid	ON
	Range check (High resistance)	
	Solenoid	OFF
3S-FE, 1MZ-FE (RX300, AVALON, ES300)	Range check (Low resistance)	
	Solenoid	ON (2 times)
	Range check (High resistance)	
	Solenoid	OFF (2 times)

Component T/M Outputs – Solenoid

1MZ-FE (CAMRY, CAMRY SOLARA, SIENNA), 2ZZ-GE, 1ZZ-FE (CELICA)	Low resistance (A)	
	Solenoid	ON
	High resistance (B)	
	Solenoid	OFF
	Low resistance (C)	
	Solenoid	ON (2 times)
	High resistance (D)	
	Solenoid	OFF (2 times)

TYPICAL MALFUNCTION THRESHOLDS

Engine family	Detection criteria	Threshold
1MZ-FE (RX300, AVALON, ES300), 3RZ-FE, 5VZ-FE, 2UZ-FE, 1ZZ-FE (COROLLA), 3S-FE, 5S-FE	Range check (Low resistance)	
	Solenoid resistance	8 Ω or less
	Range check (High resistance)	
	Solenoid resistance	100 k Ω or more
1MZ-FE (SIENNA, CAMRY, CAMRY SOLARA), 2ZZ-GE, 1ZZ-FE	Low resistance (A)	
	Solenoid resistance	8 Ω or less
	High resistance (B)	
	Solenoid resistance	100 k Ω or more
	Low resistance (C)	
	Solenoid resistance	8 Ω or less
	High resistance (D)	
	Solenoid resistance	100 k Ω or more