

1999 MY for Shift Solenoid "D" Performance (Shift Solenoid Valve S4) Monitor (P0765)

To return to monitor description, see page [Cm-320](#).

MONITOR STRATEGY

Required sensors/Components	Main	Shift solenoid valve No.4
	Sub	None
Frequency of operation	Continuous	
Duration	Less than 10 sec.	
MIL operation	2 driving cycles	
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 (ES300)	Condition (A)		
	Engine coolant temperature	60 °C (140 °F) or more	–
	Transmission range	"D"	
	Transmission fluid temperature	–20 °C (–4 °F) or more	–
	Rationality check (A)		
	ECM command for No.4 solenoid	Low (1st or 2nd or 3rd)	
	Throttle valve opening angle	7 % or more	–
	Vehicle speed	10 km/h (6 mph) or more	–
	Rationality check (B)		
	ECM command for No.4 solenoid	High (4th)	
	Throttle valve opening angle	7 % or more	–
	Vehicle speed	10 km/h (6 mph) or more	–
	1MZ-FE (RX300)	Condition (A)	
Engine coolant temperature		60 °C (140 °F) or more	–
Transmission range		"D"	
Transmission fluid temperature		–20 °C (–4 °F) or more	–
Rationality check (A)			
ECM command for No.4 solenoid		Low (overdrive OFF)	
Throttle valve opening angle		15 % or more	–
Rationality check (B)			
ECM command for No.4 solenoid		High (overdrive ON)	
Throttle valve opening angle		15 % or more	–

TYPICAL MALFUNCTION THRESHOLDS

Engine family	Detection criteria	Threshold
1MZ-FE	Following condition met a. or b.	
	It is necessary 2 judgments/driving cycle 1st judgment; temporary flag ON 2nd judgment; pending fault code ON	
	a. = (A) and Rationality check (A)	
	Input speed/Output speed (NC/NO)	$0.95 \leq \text{NC/NO} < 1.09$
	b. = (A) and Rationality check (B)	
	Input speed/Output speed (NC/NO)	$1.34 \leq \text{NC/NO} < 1.48$