

2000 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	Rationality check (A)		
	Engine coolant temperature	60 °C (140 °F) or more	–
	Transmission range	"D"	
	Transmission fluid temperature	–20 °C (–4 °F) or more	–
	ECM selected gear	3rd	
	Throttle valve opening angle	15 % or more	–
	Vehicle speed	10 km/h (6 mph) or more	–
	Rationality check (B)		
	Engine coolant temperature	60 °C (140 °F) or more	–
	Transmission range	"D"	
	Transmission fluid temperature	–20 °C (–4 °F) or more	–
	ECM selected gear	4th	
	Throttle valve opening angle	15 % or more	–
	Vehicle speed	10 km/h (6 mph) or more	–

2ZZ-GE	Rationality check (A)		
	Engine coolant temperature	60 °C (140 °F) or more	–
	Transmission range	"D"	
	Transmission fluid temperature	–20 °C (–4 °F) or more	–
	ECM selected gear	3rd	
	Throttle valve opening angle	7 % or more	–
	Vehicle speed	10 km/h (6 mph) or more	–
	Rationality check (B)		
	Engine coolant temperature	60 °C (140 °F) or more	–
	Transmission range	"D"	
	Transmission fluid temperature	–20 °C (–4 °F) or more	–
	ECM selected gear	4th	
	Throttle valve opening angle	7 % or more	–
	Vehicle speed	10 km/h (6 mph) or more	–

TYPICAL MALFUNCTION THRESHOLDS

Engine family	Detection criteria	Threshold
All models	Following condition met Rationality check (A) or Rationality check (B)	
	It is necessary 2 judgments/driving cycle 1st judgment; temporary flag ON 2nd judgment; pending fault code ON	
	Rationality check (A)	
	Input speed/Output speed (NC/NO)	$0.95 \leq NC/NO < 1.09$
	Rationality check (B)	
	Input speed/Output speed (NC/NO)	$1.34 \leq NC/NO < 1.48$