

1996 MY for Transmission Range Sensor Circuit Malfunction (PRNDL Input) Monitor (P1780)

1996 MY for Park/Neutral Switch Input Circuit Monitor (P1780)

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MONITOR STRATEGY

Required sensors/Components	Main	Park/Neutral position switch
	Sub	None
Frequency of operation	5E-FE (TERCEL)	(B) Continuous
	Except 5E-FE (TERCEL)	(A) Continuous (B) Continuous
Duration	5E-FE (TERCEL)	(B) 30 sec.
	Except 5E-FE (TERCEL)	(A) Less than 10 sec. (B) 30 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
All models Except 5E-FE (TER-CEL)	Condition (A)		
	None	—	—
1UZ-FE (SC400)	Condition (B)		
	Vehicle speed	40 km/h (25 mph) or more	—
	Engine speed	1,500 rpm	2,500 rpm
	G/N	0.6 g/rev. or more	—
2JZ-GTE, 5VZ-FE, (TACOMA (50 States), T100 (2WD (50 States Calif. Ded.)))	Condition (B)		
	Vehicle speed	70 km/h (43 mph) or more	—
	Engine speed	1,200 rpm	2,500 rpm
	G/N	0.6 g/rev. or more	—

5S-FE	Condition (B)		
	Vehicle speed	70 km/h (43 mph) or more	–
	Engine speed	1,200 rpm	2,500 rpm
	PM	60 kPa (450 mmHg, 18 in.Hg) or more	–
1MZ-FE, 3RZ-FE, 2TZ-FZE, 2RZ-FE, 1FZ-FE, 1UZ-FE (SC400), 5VZ-FE (4RUNNER, TACOMA (Fed. Calif.), T100 (2/4WD (Fed. Calif.)))	Condition (B)		
	Vehicle speed	70 km/h (43 mph) or more	–
	Engine speed	1,500 rpm	2,500 rpm
	G/N	0.6 g/rev. or more	–
2JZ-GE	Condition (B)		
	Vehicle speed	70 km/h (43 mph) or more	–
	Engine speed	2,000 rpm	2,500 rpm
	G/N	0.7 g/rev. or more	–
3S-FE	Condition (B)		
	Vehicle speed	80 km/h (50 mph) or more	–
	Engine speed	1,500 rpm	3,000 rpm
	PM	60 kPa (450 mmHg, 18 in.Hg) or more	–
5E-FE	Condition (B)		
	Vehicle speed	80 km/h (50 mph) or more	–
	Engine speed	2,000 rpm	3,000 rpm
	PM	60 kPa (450 mmHg, 18 in.Hg) or more	–
4A-FE, 7A-FE	Condition (B)		
	Vehicle speed	80 km/h (50 mph) or more	–
	Engine speed	1,500 rpm	5,000 rpm
	PM	40 kPa (300 mmHg, 12 in.Hg) or more	–

TYPICAL MALFUNCTION THRESHOLDS

Engine family	Detection criteria	Threshold
5E-FE (PASEO), 4A-FE, 7A-FE, 5S-FE, 1MZ-FE, 2JZ-GE, 2JZ-GTE, 1UZ-FE (SC400), 3S-FE, 2TZ-FZE, 2RZ-FE, 3RZ-FE, 5VZ-FE, 1FZ-FE	Condition (A)	
	Shift lever position signal (N, 2, L, R)	Any 2 or more input
1UZ-FE (LS400)	Condition (A)	
	Shift lever position signal (N, 3, 2, L, R)	Any 2 or more input
All models	Condition (B)	
	PNP signal	ON