

2003 MY for Input/Turbine Speed Sensor Circuit No Signal Monitor (P0717 / P1725)

To return to monitor description, see page [Ct-62](#).

MONITOR STRATEGY

Required sensors/Components	Main	Input/Turbine speed sensor
	Sub	None
Frequency of operation	Continuous	
Duration	1MZ-FE (AVALON, SIENNA)	4 sec.
	Except 1MZ-FE (AVALON, SIENNA)	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 SOLARA, AVALON, SIENNA)	Shift change is completed and before starting next shift change operation		
	Shift position	4th	
	Output shaft rpm	1,000 rpm or more	—
	PNP switch	OFF	
	Shift lever "L" range switch	OFF	
2AZ-FE, 1ZZ-FE, 2ZZ-GE, 1AZ-FE, 1MZ-FE (CAMRY, HIGHLANDER, RX300)	Shift change is completed and before starting next shift change operation		
	Shift position	2nd or 3rd or 4th	
	Output shaft rpm	1,000 rpm or more	—
	PNP switch	OFF	
	Shift lever "R" range switch	OFF	
	Shift lever "L" range switch	OFF	
	Engine	Running	
1MZ-FE (ES300, CAMRY '03/01 L/O)	Shift change is completed and before starting next shift change operation		
	Shift position	2nd or 3rd or 4th or 5th	
	Output shaft rpm	1,000 rpm or more	—
	PNP switch	OFF	
	Shift lever "R" range switch	OFF	
	Shift lever "L" range switch	OFF	
	Engine	Running	

2UZ-FE (GX470, LX470, LAND CRUISER, 4RUNNER)	Shift change is completed and before starting next shift change operation		
	Shift position	4th or 5th	
	Output shaft rpm	1,000 rpm or more	–
	PNP switch	OFF	
	Shift lever "R" range switch	OFF	
	Shift lever "L" range switch	OFF	
	Engine	Running	
1GR-FE, 2UZ-FE (TUNDRA, SE-QUOIA), 1NZ-FE	Output shaft rpm	1,000 rpm or more	–
3UZ-FE, 2JZ-FE	Output shaft rpm	500 rpm or more	–
1GR-FE, 2UZ-FE (TUNDRA, SE-QUOIA), 3UZ-FE, 2JZ-FE, 1NZ-FE	PNP switch	OFF	
1GR-FE, 2UZ-FE (TUNDRA, SE-QUOIA), 3UZ-FE, 2JZ-FE	Shift range	Not "R" position	
1NZ-FE	Shift lever "R" range switch	OFF	
	Shift lever "L" range switch	OFF	
	Engine	Running	
1GR-FE, 2UZ-FE (TUNDRA, SE-QUOIA)	Shift status	1st or 2nd or 3rd except 3 sec. after "4" to "3" shift	
3UZ-FE, 2JZ-FE	Shift status	1st or 2nd or 3rd or 4th except 3 sec. after "5" to "4" shift and No.4 solenoid is OFF except 5 sec. after ON to OFF	

TYPICAL MALFUNCTION THRESHOLDS

Engine family	Detection criteria	Threshold
All models	Sensor signal rpm	Less than 300 rpm