

Shift Lever Switch

Sm002-01

Shift Lever Switch Monitor Description

MONITOR SUMMARY

The shift lever assembly has a shift lever position sensor that monitors the movement of the shift lever. The shift lever position sensor judges the positions, “R”, “N”, “S”, “+” and “–”, of the shift lever, based on the combinations of 8 switch signals. These 8 signals are divided into 2 groups: one is for main signals and the other is for check signals. When the main signals are ON, check signals are OFF. The transmission electronic control unit (ECU) checks each status of the 8 signals, ON or OFF, at each position of the shift lever.

When either of the following conditions is met, the transmission ECU judges it to be a malfunction and illuminates the MIL (Malfunction Indicator Lamp).

- (1) The combination of the 8 shift lever switch signals, ON and OFF, does not meet the value specified in table 1.
- (2) The combination of the 8 shift lever switch signals, ON and OFF, meets the value specified in table 2, 5 times or more.

Table 1:

Shift Lever Position	SW1	SW2	SW3	SW4	SW1C	SW2C	SW3C	SW4C	Detected Shift Position	Value of Shift Lever Position
R	OFF	ON	OFF	OFF	ON	OFF	ON	ON	R	210
Between R and N	OFF	ON	OFF	ON	ON	OFF	ON	ON	N	218
	OFF	ON	OFF	OFF	ON	ON	ON	ON		242
	OFF	ON	OFF	ON	ON	ON	ON	ON		250
	OFF	ON	OFF	ON	ON	ON	ON	OFF		122
	OFF	ON	OFF	ON	ON	OFF	ON	OFF		90
N	OFF	OFF	OFF	ON	ON	ON	ON	OFF		120
Between N and S	OFF	OFF	OFF	ON	ON	ON	ON	ON		248
	OFF	OFF	ON	ON	ON	ON	ON	OFF		124
	OFF	OFF	ON	ON	ON	ON	ON	ON		252
	OFF	OFF	ON	OFF	ON	ON	ON	ON		244
	OFF	OFF	ON	ON	ON	ON	OFF	ON		188
S	OFF	OFF	ON	OFF	ON	ON	OFF	ON	S	180
Between S and –	OFF	ON	ON	OFF	ON	ON	OFF	ON		182
–	OFF	ON	ON	OFF	ON	OFF	OFF	ON	–	150
Between S and +	ON	OFF	ON	OFF	ON	ON	OFF	ON	S	181
+	ON	OFF	ON	OFF	OFF	ON	OFF	ON	+	165

Table 2:

SW1	SW2	SW3	SW4	SW1C	SW2C	SW3C	SW4C	Value of Shift Lever Position
OFF	OFF	ON	OFF	ON	ON	OFF	ON	164
ON	ON	ON	OFF	OFF	OFF	OFF	ON	151
OFF	ON	ON	OFF	ON	OFF	OFF	ON	148
ON	ON	ON	OFF	OFF	ON	OFF	ON	167
OFF	ON	ON	OFF	ON	OFF	ON	ON	214
ON	OFF	ON	OFF	OFF	ON	ON	ON	229
OFF	ON	ON	ON	ON	OFF	OFF	ON	158
ON	OFF	ON	ON	OFF	ON	OFF	ON	173

RELATED DTC**Previous code:**

Related DTCs	P1781	Shift lever switch malfunction
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Extended code:

Related DTCs	P0820	Shift lever switch malfunction
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MODEL YEAR CHART

Model Year	See Page
2001 to 2003	Sm-5