

2004 MY for Pressure Control Solenoid "A" Performance (Shift Solenoid Valve SL1) Monitor (P0746)

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MONITOR STRATEGY

Required sensors/Components	Main	Shift solenoid valve No.1
	Sub	None
Frequency of operation	Continuous	
Duration	0.8 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	
All models	Condition (A)	
	Engine coolant temperature	10 °C (6 °F) or more –
	Transmission range	"D"
	Transmission fluid temperature	–20 °C (–4 °F) or more –
	Transmission fluid temperature sensor "A" circuit	Not circuit malfunction
	ECT sensor circuit	Not circuit malfunction
	Turbine speed sensor circuit	Not circuit malfunction
	Intermediate shaft speed sensor "A" circuit	Not circuit malfunction
	Output speed sensor circuit	Not circuit malfunction
	Pressure control solenoid "A" (SL1) circuit	Not circuit malfunction
	Pressure control solenoid "B" (SL2) circuit	Not circuit malfunction
	Pressure control solenoid "C" (SL3) circuit	Not circuit malfunction
	Shift solenoid "D" (S4) circuit	Not circuit malfunction
	Shift solenoid "E" (SR) circuit	Not circuit malfunction
	Torque converter clutch solenoid (DSL) circuit	Not circuit malfunction
	OFF malfunction	
	ECM selected gear	1st
	Vehicle speed	– Less than 40 km/h (30 mph)
	Throttle valve opening angle	4.5 % or more at engine speed 1,900 rpm (condition vary with engine speed) –
	ON malfunction (A)	
	ECM selected gear	2nd
	Throttle valve opening angle When condition "ON malfunction (B)" is not detected: When condition "ON" malfunction (B)" is detected:	4.5 % or more at engine speed 1,900 rpm (condition vary with engine speed) 0.5 % or more at output speed 850 rpm (condition vary with output speed) –
	ON malfunction (B)	
	Throttle valve opening angle	0.5 % or more at output speed 850 rpm (condition vary with output speed) –

TYPICAL MALFUNCTION THRESHOLDS

Engine family	Detection criteria	Threshold
All models	Following condition met a or (b. and c.)	
	a. = (A) & OFF malfunction	
	Input speed/Intermediate shaft speed (NT/NC) It is necessary 2 judgments/driving cycle 1st judgment; temporary flag ON 2nd judgment; pending fault code ON	$1.49 \leq \text{NT/NC} < 1.63$
	b. = (A) & ON malfunction (A)	
	Input speed/Intermediate shaft speed (NT/NC)	$2.72 \leq \text{NT/NC} < 2.86$
	c. = (A) & ON malfunction (B)	
	Input speed/Intermediate shaft speed (NT/NC)	$2.72 \leq \text{NT/NC} < 2.86$