

2003 MY for Pressure Control Solenoid "D" Performance (Shift Solenoid Valve SLT) Monitor (P2714)

To return to monitor description, see page [Cm-380](#).

MONITOR STRATEGY

Required sensors/Components	Main	Shift solenoid valve SLT
	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
All models	Condition (A)		
	Engine coolant temperature	40 °C (104 °F) or more	–
	Transmission range	"D"	
	Spark advance from MAX. retard timing by KCS control	0° CA or more	–
	Transfer range "Hi" [4WD]		
	Vehicle speed sensor "A" circuit	Not circuit malfunction	
	Output speed sensor circuit	Not circuit malfunction	
	ECM	Not circuit malfunction	
	ON malfunction (A)		
	Vehicle speed	More than 0 km/h (0 mph)	–
	Transmission fluid temperature	10 °C (50 °F) or more	–
	Jc1sum calculation start conditions ECM selected gear	1st (from vehicle start to shift) or 2nd (from vehicle start to shift)	
	Jc1sum calculation finish conditions ECM selected gear	4th or 5th	
	ON malfunction (B)		
	Vehicle speed	More than 0 km/h (0 mph)	–
	Transmission fluid temperature	10 °C (50 °F) or more	–
	Jc2sum calculation start conditions ECM selected gear (After 4 – 5 shift)	5th	
	Jc2sum calculation finish conditions ECM selected gear	3rd or 2nd or 1st	

TYPICAL MALFUNCTION THRESHOLDS

Engine family	Detection criteria	Threshold
All models	Following condition met a. or b.	
	a. = (A) & ON malfunction (A)	
	C1 clutch heat generations (Jc1sum) Jc1sum (i) = Jc1sum (i – 1) + (NT – NO x 1st gear ratio) x Kjc1sum (= 0.09) x 16.384/1000	70 J/cm ² or more
	b. = (A) & ON malfunction (B)	
	C2 clutch heat generations (Jc2sum) Jc2sum (i) = Jc2sum (i – 1) + (NT – NO x ECM selected gear ratio) x Kjc2sum (= 0.10) x 16.384/1000	70 J/cm ² or more