DTC	P0982	Shift Solenoid "D" Control Circuit Low (Shift Solenoid Valve S4)
DTC	P0983	Shift Solenoid "D" Control Circuit High (Shift Solenoid Valve S4)

AX DESCRIPTION

Shifting from 1st to O/D is performed in combination with the ON and OFF operation of the shift solenoid valves SL1 and SL2, which are controlled by the ECM. If an open or short circuit occurs in any of the shift solenoid valves, the ECM controls the remaining normal shift solenoid valves to allow the vehicle to be operated safely (see page AX-31).

DTC No.	DTC Detection Condition	Trouble Area
P0982	ECM detects short in solenoid valve S4 circuit 2 times when solenoid valve S4 is operated (1 trip detection logic)	 Short in shift solenoid valve S4 circuit Shift solenoid valve S4 ECM
P0983	ECM detects open in solenoid valve S4 circuit 2 times when solenoid valve S4 is not operated (1 trip detection logic)	Open in shift solenoid valve S4 circuitShift solenoid valve S4ECM

MONITOR DESCRIPTION

This DTC indicates an open or short in the shift solenoid valve S4 circuit. The ECM commands gear shifts by turning the shift solenoid valves ON/OFF. When there is an open or short circuit in any shift solenoid valve circuit, the ECM detects the problem, illuminates the MIL and stores the DTC. Also, the ECM performs the fail-safe function and turns the other normal shift solenoid valves ON/OFF. In case of an open or short circuit, the ECM stops sending current to the circuit (see page AX-31).

MONITOR STRATEGY

Related DTCs	P0982: Shift solenoid valve S4/Range check (Low resistance) P0983: Shift solenoid valve S4/Range check (High resistance)		
Required sensors/Components	Shift solenoid valve S4		
Frequency of operation	Continuous		
Duration	0.128 sec.		
MIL operation	Immediate		
Sequence of operation	None		

TYPICAL ENABLING CONDITIONS

P0982: Range check (Low resistance)

The monitor will run whenever this DTC is not present.	None
Shift solenoid valve S4	ON
Battery voltage	8 V or more
Ignition switch	ON
Starter	OFF

P0983: Range check (High resistance)

The monitor will run whenever this DTC is not present	None
Shift solenoid valve S4	OFF
Battery voltage	8 V or more
Ignition switch	ON
Starter	OFF

AX

TYPICAL MALFUNCTION THRESHOLDS

P0982: Range check (Low resistance)

Shift solenoid valve S4 resistance	8 Ω or less

P0983: Range check (High resistance)

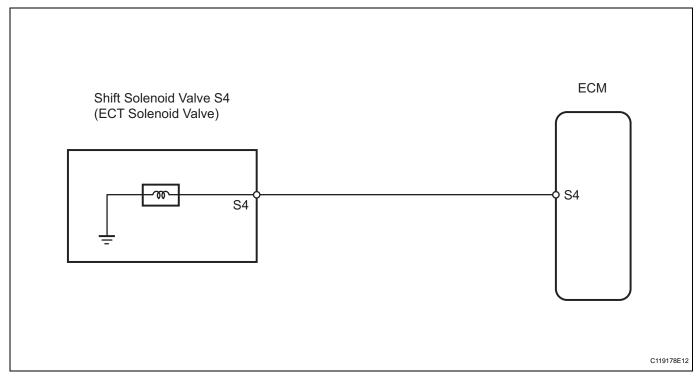
Shift solenoid valve S4 resistance 100 kΩ or more

COMPONENT OPERATING RANGE

Shift solenoid valve S4

Resistance: 11 to 15 Ω at 20°C (68°F)

WIRING DIAGRAM



INSPECTION PROCEDURE

INSPECT TRANSMISSI	ON WIRE	E (SHIFT SOLENOII	D VALVE S4)	
		(b) Measure the re	esistance of the t	
		Tester Connection	Condition	Specified Condition
		8 (S4) - Body ground	20°C (68°F)	11 to 15 Ω
		NG	Go to step 3	
S4	C129039E04			
		5 4 3 2 1 10 9 8 7 6 S4	(a) Disconnect the (b) Measure the r Standard resi Tester Connection 8 (S4) - Body ground NG	(b) Measure the resistance of the the standard resistance Standard resistance Standard resistance Standard

