DTC	

Pressure Control Solenoid "A" Electrical (Shift Solenoid Valve SL1)

DESCRIPTION

Shifting from 1st to 5th is performed in combination with the ON and OFF operation of the shift solenoid valves SL1, SL2, SL3, S4 and SR, 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-35).

DTC No.	DTC Detection Condition	Trouble Area	
P0748	Duty cycle to shift solenoid valve SL1 is 100% (1 trip detection logic)	 Open or short in shift solenoid valve SL1 circuit Shift solenoid valve SL1 ECM 	

MONITOR DESCRIPTION

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 and illuminates the MIL and stores the DTC. And 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-35).

MONITOR STRATEGY

Related DTCs	P0748: Shift solenoid valve SL1/Range check	
Required sensors/Components	Shift solenoid valve SL1	
Frequency of operation	Continuous	
Duration	1 sec.	
MIL operation	Immediate	
Sequence of operation	None	

TYPICAL ENABLING CONDITIONS

The monitor will run whenever this DTC is not present.	None
Battery voltage	10 V or more
Starter	OFF
Ignition switch	ON

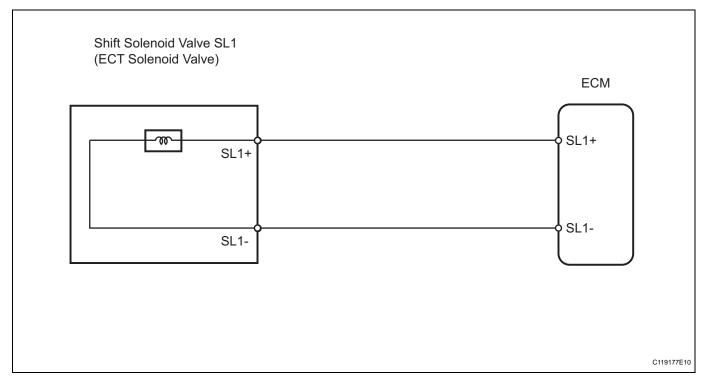
TYPICAL MALFUNCTION THRESHOLDS

Output signal duty	100%
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COMPONENT OPERATING RANGE

Output signal duty	Less than 100%
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WIRING DIAGRAM



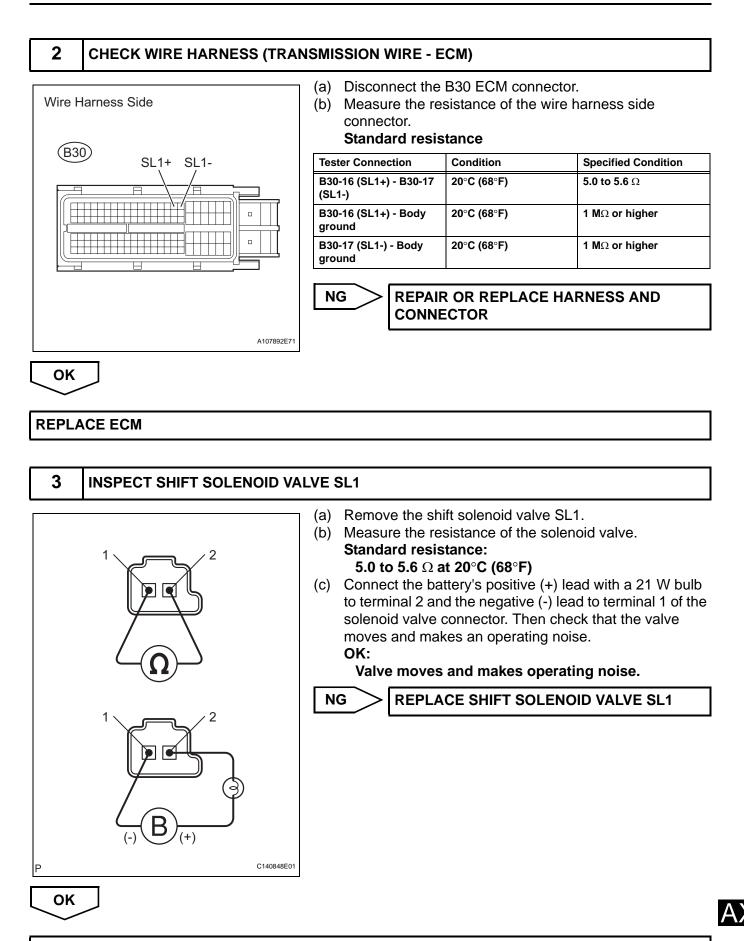
INSPECTION PROCEDURE

1 INSPECT TRANSMISSION WIR Wire Harness Side	(a) Disconnect the	B32 wire conne	ector. transmission wire.	
	Tester Connection	Condition	Specified Condition	
SL1+	6 (SL1+) - 13 (SL1-)	20°C (68°F)	5.0 to 5.6 Ω	
	6 (SL1+) - Body ground	20°C (68°F)	1 M Ω or higher	
6 5 4 3 2 1	13 (SL1-) - Body ground	20°C (68°F)	1 $\mathbf{M}\Omega$ or higher	
	NG	Go to step 3	step 3	
/ SL1-				
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REPAIR OR REPLACE TRANSMISSION WIRE