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

This DTC indicates an open or short in the shift solenoid valve SL1 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	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	11 V or more
Starter	OFF
Ignition switch	ON

TYPICAL MALFUNCTION THRESHOLDS

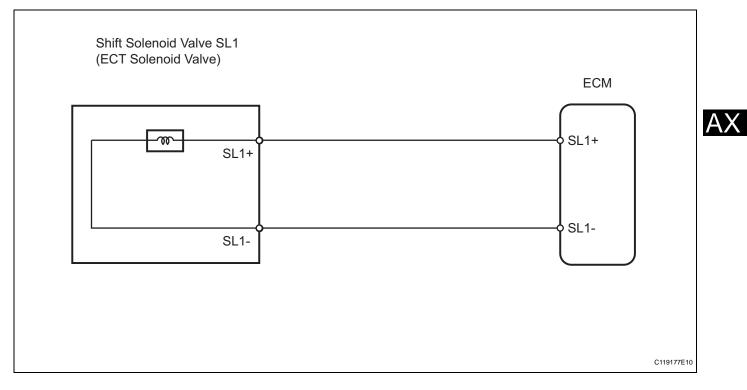
Solenoid status	Fail
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COMPONENT OPERATING RANGE

Output signal duty	Less than 100%
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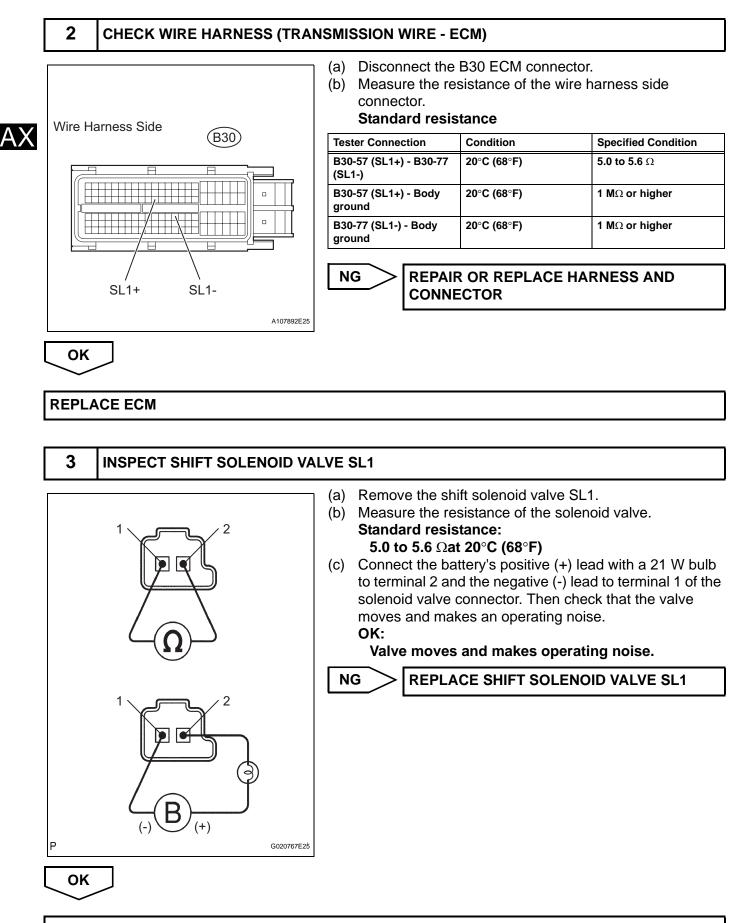
A)

WIRING DIAGRAM



INSPECTION PROCEDURE

1	INSPECT TRANSMISSION WIRE (SHIFT SOLENOID VALVE SL1)				
	SL1+		(a) Disconnect the(b) Measure the resStandard resis	sistance of the t	ector. transmission wire.
			Tester Connection	Condition	Specified Condition
		5 (SL1+) - 10 (SL1-)	20°C (68°F)	5.0 to 5.6 Ω	
		5 (SL1+) - Body ground	20°C (68°F)	1 M Ω or higher	
			10 (SL1-) - Body ground	20°C (68°F)	1 M Ω or higher
/ SL1- ^{C129039E06}			NG	Go to step 3	
OK		C129039E06		So to step 3	



REPAIR OR REPLACE TRANSMISSION WIRE