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DTC	P0748	Pressure Control Solenoid "A" Electrical (Shift Solenoid Valve SL1)
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#### DESCRIPTION

Shifting from 1st to 5th is performed in combination with the ON and OFF operation of the shift solenoid valves S1, S2, SR, 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 driven smoothly (See page AT-32).

DTC No.	DTC Detection Conditions	Trouble Areas
P0748	<ul> <li>The ECM checks for an open or short in the shift solenoid valve SL1 circuit (1-trip detection logic)</li> <li>Output signal duty equals to 100 %. (NOTE: SL1 output signal duty is less than 100 % under normal condition.)</li> </ul>	<ul> <li>Open or short in shift solenoid valve SL1 circuit</li> <li>Shift solenoid valve SL1</li> <li>ECM</li> </ul>

### MONITOR DESCRIPTION

This DTC indicates an open or short in the shift solenoid valve SL1 circuit. The ECM controls the gearshift 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. And the ECM performs the fail-safe function and turns the other functioning shift solenoid valves "ON/OFF". (If an open or short circuit is detected, the ECM cuts the current to the circuit.)

If the ECM detects an open or short in the shift solenoid valve SL1 circuit, the ECM determines that there is a malfunction (See page AT-32).

## **MONITOR STRATEGY**

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

# **TYPICAL ENABLING CONDITIONS**

The monitor will run whenever the following DTCs are not present.	None	
Battery voltage	10 V or more	
CPU commanded duty	Less than 75 %	
Ignition switch	ON	
Starter	OFF	

# TYPICAL MALFUNCTION THRESHOLDS

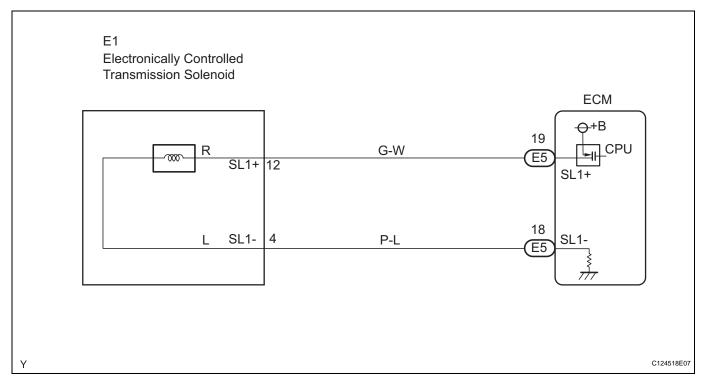
Output signal duty

100 %

#### **COMPONENT OPERATING RANGE**

Output signal duty Less than 100 %

#### WIRING DIAGRAM

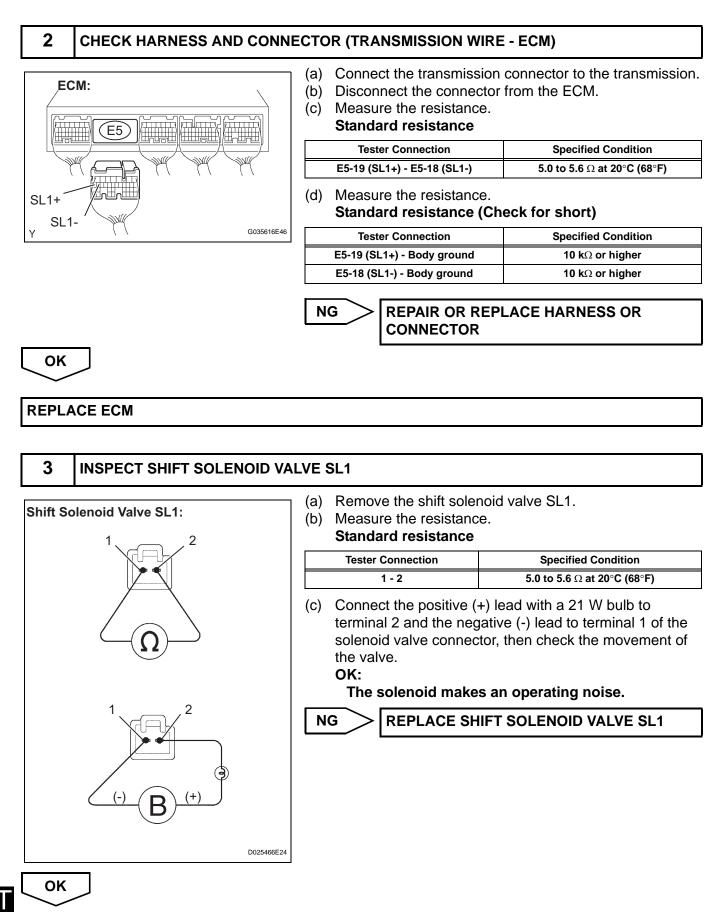


#### HINT:

The shift solenoid valve SL1 is turned on/off normally when the shift lever is in the D position:

Gearshift controlled by ECM	1st	2nd	3rd	4th	5th
Shift solenoid valve SL1	OFF	OFF	OFF	OFF	ON

1	INSPECT TRANSMISSION WIRE (SL1)				
Transmission Wire Side: (Connector Front View):		(a) (b)	transmission.		
SL	SL1-		Tester Connection 12 (SL1+) - 4 (SL1-) Measure the resistance Standard resistance (C		
P SL1+ G020667E60		Tester Connection		Specified Condition	
			12 (SL1+) - Body ground	<b>10</b> k $\Omega$ or higher	
			4 (SL1-) - Body ground	<b>10</b> k $\Omega$ or higher	
ОК		N	G Go to s	step 3	



**REPAIR OR REPLACE TRANSMISSION WIRE** 

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