$\begin{array}{l} \texttt{ELECTRONIC} @\texttt{CONTROLLED} @\texttt{A} \texttt{UTOMATIC} \\ \texttt{TRANSMISSION} @\texttt{ECT} \end{bmatrix}$

DTC	P0748□	PRESSURE[CONTROL[\$OLENOID[]"A" ELECTRICAL[(SHIFT[\$OLENOID[]VALVE SL1)
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CIRCUIT DESCRIPTION

Shifting[from[] st[]p[6th[]s[performed[]h[combination[]with[]]ON"[and[]]OFF"[operation[]off[]he[]shift[]solenoid[]valves SL1,[\$L2,[\$1,[\$2,[\$3,[\$4]and[\$R]which[is]controlled[by]]the[ECM.[]f[an]open[or]short[circuit]occurs[in]either of[]the[shift[solenoid[valves,[]the[]ECM[controls[]the[]emaining[]thormal[shift[solenoid[valve]]to[atlow[]the[]ehicle to perated moothly see page 5-553).

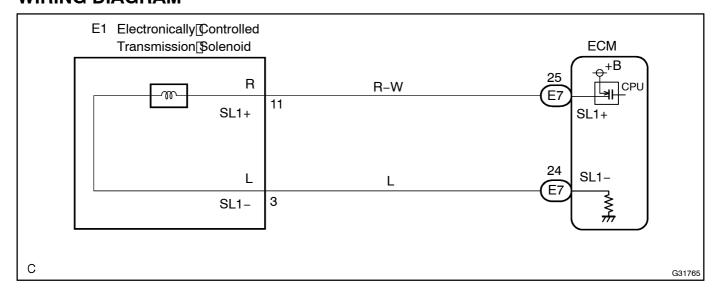
DTC[No.	DTC[Detection[Condition	Trouble[Area
P0748	The ECM checks for an open or short in the shift solenoid valve \$L1 & ircuit while driving and shifting between 4th and the gear. In trip detection ogic) Output signal duty equals of 00%. (NOTE: \$L1 & utput signal duty essentant 00% under ormal ondition.)	Open@r[short[]n[shift[solenoid[yalve[SL1@ircuit Shift[solenoid[yalve[SL1 ECM

MONITOR DESCRIPTION

This DTC indicates an open or short in the shift solenoid valve SL1 circuit. The ECM commands gears hift by[]urning[]he[shift[solenoid[valves[]ON/OFF".[When[]here[]s[an[]open[]or[short[]circuit[]n[]any[]shift[solenoid valve@ircuit,@he@ECM@detects@he@problem@and@luminates@he@MIL@and@stores@he@DTC.@And@he@ECM@performs[the]fail-safe[flunction[and[flurns[the]\$hift[\$olenoid[Valves[in]\$good[condition[]ON/OFF".[In]case of@nopenor[shortcircuit,]he_ECM[stops[sendingcurrent]]o[]hectircuit.)

While@riving@ndghifting@etween@th@nd@th@ears,@ftheECM@etects@nopenorghort@ntheghiftgolenoid valve[\$L1circuit,[]he[ECMcdetermines[]here[]scat[]malfunction[]see[]page[]05-553).

WIRING DIAGRAM



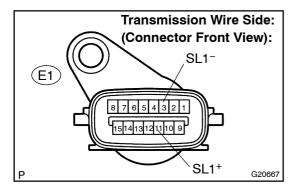
INSPECTION PROCEDURE

HINT:

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

ECM command gearshift	1st	2nd	3rd	4th	5th	6th
Shift solenoid valve SL1	OFF	OFF	OFF	OFF	ON	ON

1 INSPECT TRANSMISSION WIRE(SL1)



- (a) Disconnect the transmission wire connector from the transaxle.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Specified Condition 20°C (68°F)		
11 (SL1+) – 3 (SL1-)	5.0 to 5.6 Ω		

(c) Measure the resistance according to the value(s) in the table below.

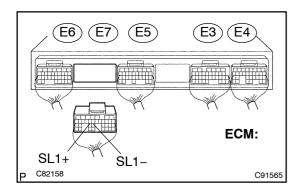
Standard (Check for short):

Tester Connection	Specified Condition		
11 (SL1+) – Body ground	10 kΩ or higher		
3 (SL1-) - Body ground	↑		

NG > Go to step 3

OK

2 CHECK[HARNESS[AND]CONNECTOR(TRANSMISSION[WIRE - [ECM)



- (a) Connect[the[transmission[connector[to[the[transaxle.
- (b) \square Disconnect the connector from the ECM.
- (c) Measure[the[resistance[according[to[the[value(s)]]n[the table[below.

Standard:

Tester[C onnection	Specified[Condition 20°C[[68°E])		
E7 -[225[[SL1+) -[E7 -[24[[SL1-)	5.0¶o[\$.6[<u>1</u> 2		

(d) Measure the resistance according to the value (s) in the table below.

Standard[Check[for[short):

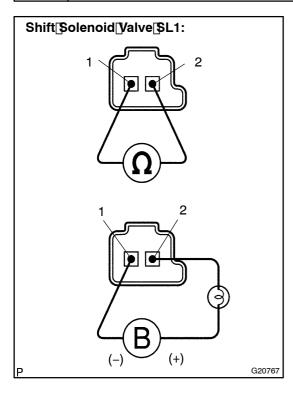
Tester@onnection	Specified@condition		
E7 -[25[[SL1+) -[Body[ground	10[kttoppingher		
E7 -[24[[SL1-] -[Body[ground	↑		

NG

OK

REPLACE[ECM[[SEE[PAGE 10-21]

3 | INSPECT[SHIFT[SOLENOID[VALVE(SL1)



- (a) Remove the thift solenoid valve L1.
- (b) Measure[the[resistance[according[to[the[value(s)]]n[the table[below.

Standard:

Tester[© onnection	Specified[Condition 20°C[68°E)		
1 –[2]	5.0¶o[\$.6[<u>Ω</u>		

(c) Connect[the[positive[]+)[lead[with]a[21]W[bulb[to[terminal 2[and[the[negative[]-)[lead[to[terminal]] [bf[the[solenoid valve[]onnector,[then[]check[the[]novement[bf[the[]valve.]

OK:

The solenoid makes an operating hoise.

NG□

REPLACE[\$HIFT[\$OLENOID[YALVE(SL1)

ОК

REPAIR OR REPLACE TRANSMISSION WIRE SEE PAGE 40-28)