

The linear solenoid valve (SLT) controls the transmission line pressure for smooth transmission operation based on signals from the throttle position sensor and the vehicle speed sensor. The ECM adjusts the duty cycle of the SLT solenoid valve to control the hydraulic line pressure coming from the primary regulator valve. Appropriate line pressure assures smooth shifting with varying engine outputs. Duty Ratio:

A116546E01

1cycle

The duty ratio is the ratio of the period of continuity in one cycle. For example, if A is the period of continuity in one cycle, and B is the period of non-continuity, then Duty Ratio =  $A / (A + B) \times 100$  (%).

DTC No.	DTC Detection Co	onditions	Trouble Areas
P2716	Open or short is detected in shift solenoid valve SLT circuit for 1 second or more while driving. (1-trip detection logic)		<ul> <li>Open or short in shift solenoid valve SLT circuit</li> <li>Shift solenoid valve SLT</li> <li>ECM</li> </ul>
	5 V/DIV	Check the w of the ECM o <b>Standard:</b>	Using an oscilloscope): aveform between terminals SLT+ and SLT- connector.
	GND	ltem	Content
	GND	Terminal	SLT+ (E5-12) - SLT- (E5-13)
	1 ms/DIV	Tool setting	5 V/DIV 1 ms/DIV
P	G023426E09	Vehicle condition	Engine idle speed

### MONITOR DESCRIPTION

When an open or short is detected in the linear solenoid valve (SLT) circuit, the ECM interprets this as a fault. The ECM turns on the MIL and stores the DTC.

### MONITOR STRATEGY

Related DTCs	P2716: Shift solenoid valve SLT/Range check
Required sensors/Components	Shift solenoid valve SLT
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
Solenoid current cut status	Not cut
Battery voltage	11 V or more
CPU command duty ratio to SLT	19 % or more

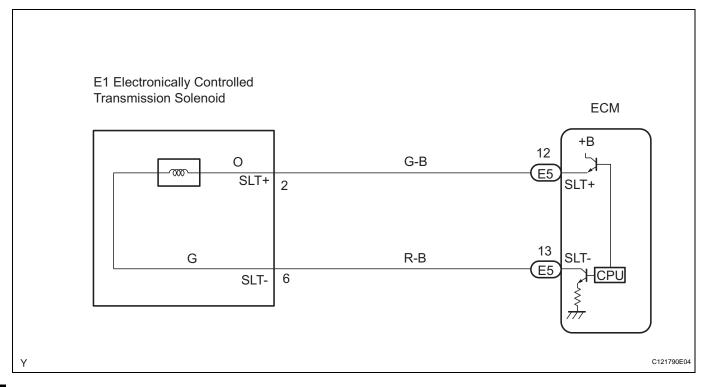
## **TYPICAL MALFUNCTION THRESHOLDS**

Solenoid status (SLT) from IC       Fail (Open or short)         (Output signal duty ratio equal to 100 %)	d status (SLT) from IC	Fail (Open or short) (Output signal duty ratio equal to 100 %)
--	------------------------	---

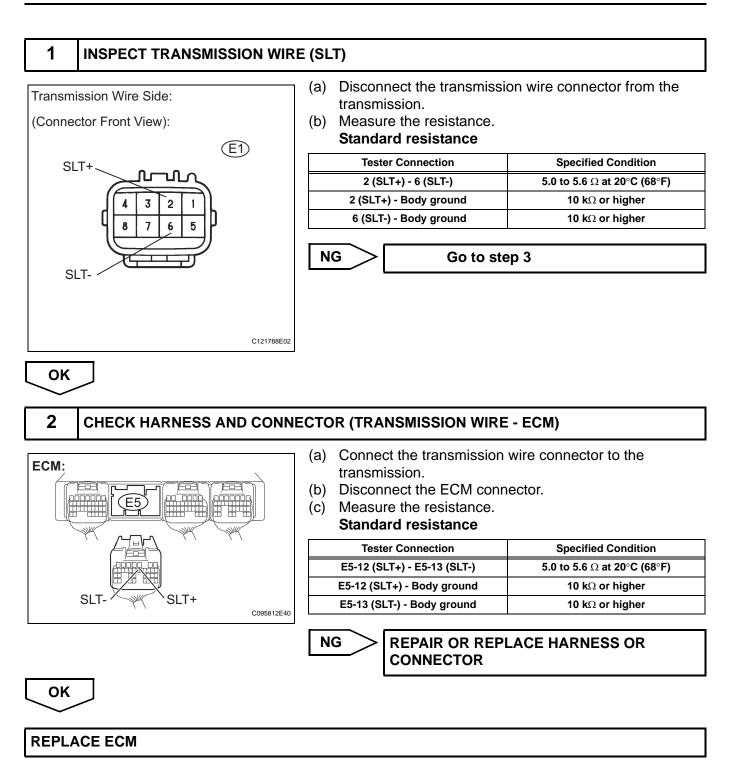
### **COMPONENT OPERATING RANGE**

Output signal duty ratio	Less than 100 %
--------------------------	-----------------

#### WIRING DIAGRAM



AT



AT-77

