DTC	P2716	Pressure Control Solenoid "D" Electrical (Shift Solenoid Valve SLT)

DESCRIPTION

Refer to DTC P2714 (See page AX-133).

DTC No.	DTC Detection Condition	Trouble Area
P2716	Open or short is detected in shift solenoid valve SLT circuit for 1 second or more while driving (1-trip detection logic).	• Open or short in shift solenoid valve SLT circuit • Shift solenoid valve SLT • TCM

MONITOR DESCRIPTION

When an open or short in the linear solenoid valve (SLT) circuit is detected, the TCM interprets this as a fault. The TCM will turn on the MIL and store 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 sec.
MIL operation	Immediate
Sequence of operation	None

TYPICAL ENABLING CONDITIONS

ALL:

The monitor will run whenever this DTC is not present	None
Solenoid current cut status	Not cut
Engine switch	ON
Starter	OFF

AX

Malfunction (A):

Battery voltage	10 V to 12 V

Malfunction (B):

Battery voltage	10 V or more and less than 12 V
Target current	0.75 A

Malfunction (C):

Battery voltage	8 V or more
Target current	1 A

Malfunction (D):

Battery voltage	11 V or more
Target current	1 A or more

Malfunction (E):

Battery voltage	11 V or more
Target current	0.1 A or more
Commanded voltage - Last commanded voltage	Less than 0.02 V

TYPICAL MALFUNCTION THRESHOLDS

Malfunction (A) and (B):

Output signal duty	100% or more

Malfunction (C):

Output signal duty	0% or less

Malfunction (D):

Output signal monitor	No signal

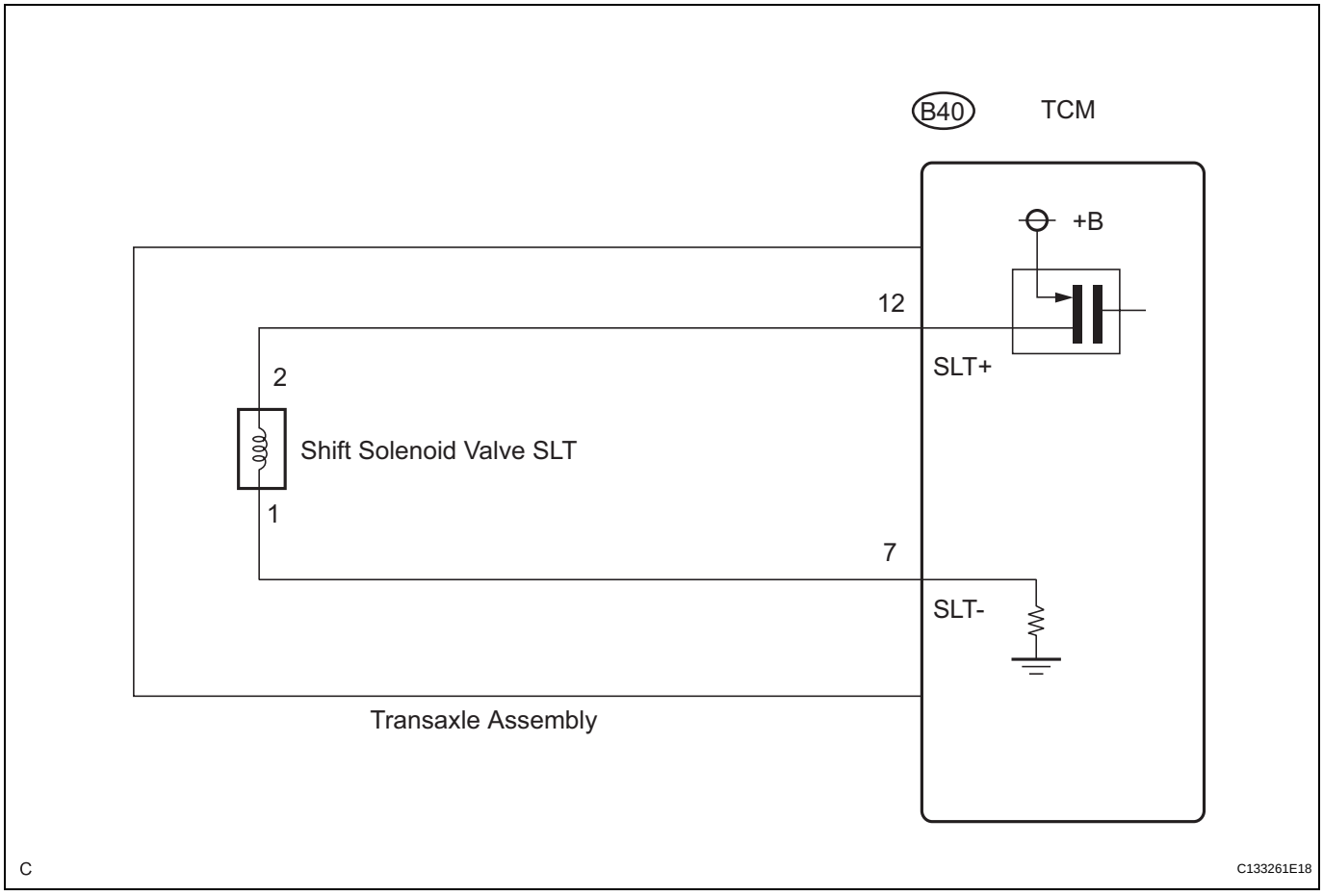
Malfunction (E):

Commanded voltage - Last commanded voltage	0.02 V or more

COMPONENT OPERATING RANGE

Output signal duty	Less than 100%

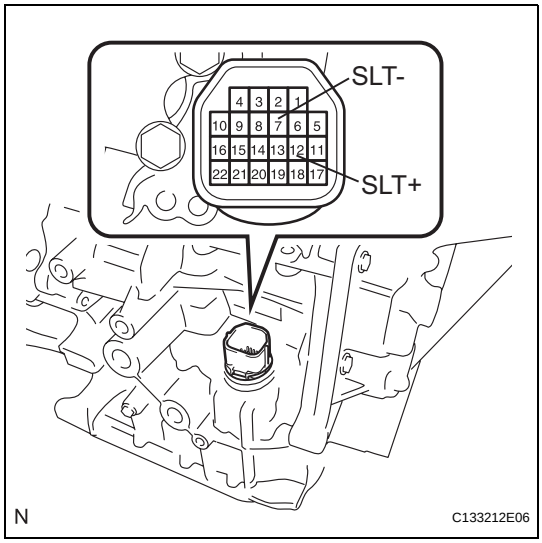
WIRING DIAGRAM



AX

INSPECTION PROCEDURE

1 INSPECT TRANSMISSION WIRE (SLT)



(a) Remove the TCM from the transaxle.
(b) Measure the resistance according to the value(s) in the table below.
Standard resistance

Tester Connection	Specified Condition 20°C (68°F)
12 (SLT+) - 7 (SLT-)	5.0 to 5.6 Ω

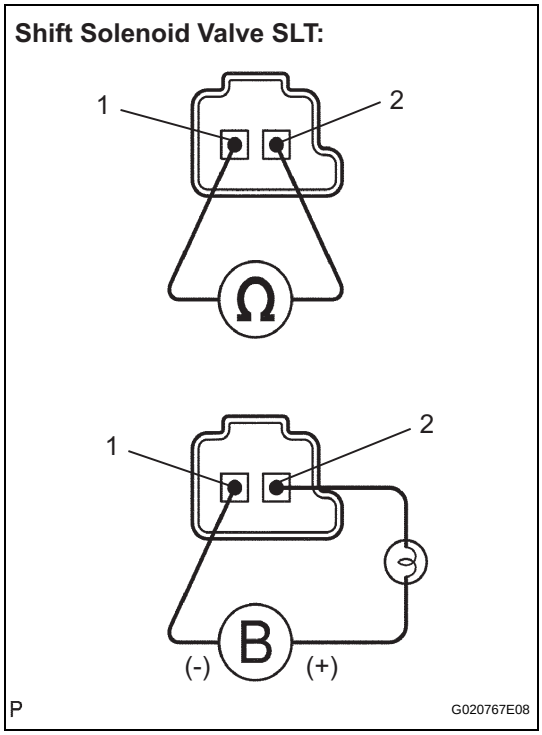
(c) Measure the resistance according to the value(s) in the table below.
Standard resistance:
Check for short

Tester Connection	Specified Condition
12 (SLT+) - Body ground	10 kΩ or higher
7 (SLT-) - Body ground	10 kΩ or higher

OK → REPLACE TCM

NG

2 INSPECT SHIFT SOLENOID VALVE SLT



(a) Remove the shift solenoid valve SLT.
(b) Measure the resistance according to the value(s) in the table below.
Standard resistance

Tester Connection	Specified Condition 20°C (68°F)
1 - 2	5.0 to 5.6 Ω

(c) Connect a positive (+) lead through a 21 W bulb to terminal 2 and a negative (-) lead to terminal 1 of the solenoid valve connector, then check the movement of the valve.
OK:
The solenoid makes an operating sound.

NG → REPLACE SHIFT SOLENOID VALVE SLT

OK

REPLACE TRANSMISSION WIRE

AX