DIB1I-01

DTC	P0743	Torque Converter Clutch Circuit Electrical
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CIRCUIT DESCRIPTION

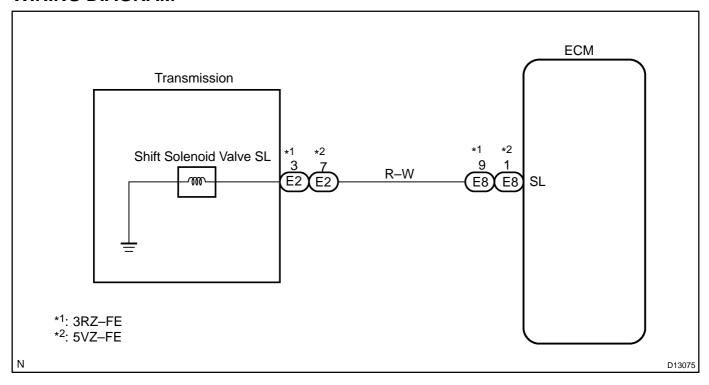
The shift solenoid valve SL is turned ON and OFF by signals from the ECM to control the hydraulic pressure acting on the lock—up relay valve, which then controls the operation of the lock—up clutch.

DTC No.	DTC Detection Condition	Trouble Area
P0743	ECM detects open in solenoid SL circuit 4 times when solenoid SL is not operated (2–trip detection logic) ECM detects short in solenoid SL circuit 4 times when solenoid SL is operated (2–trip detection logic)	Open or short in shift solenoid valve SL circuit Shift solenoid valve SL ECM

Fail safe function

If the ECM detects a malfunction, it turns the shift solenoid valve SL OFF.

WIRING DIAGRAM



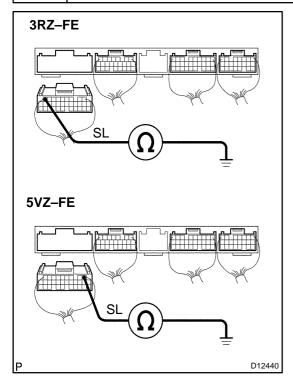
2003 TOYOTA TACOMA (RM1002U)

Author: Date:

758

INSPECTION PROCEDURE

1 Measure resistance between terminal SL of ECM and body ground.



PREPARATION:

Disconnect the connector from ECM.

CHECK:

Measure resistance between terminal SL of ECM and body ground.

OK:

Resistance: 11 – 15 Ω

ОК

Check and replace the ECM (See page IN-28).

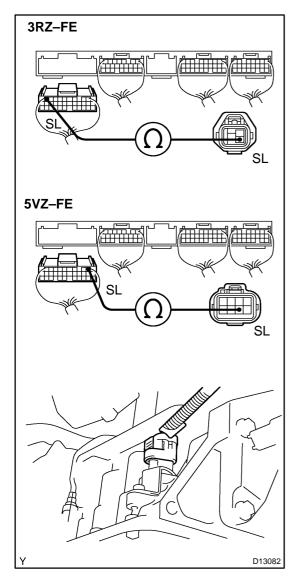
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Author: Date: 759

2

Check harness and connector between ECM and automatic transmission solenoid connector.



PREPARATION:

Disconnect the solenoid connector from the transmission.

CHECK:

Check the harness between terminal SL of ECM and terminal SL of automatic transmission solenoid connector.

OK:

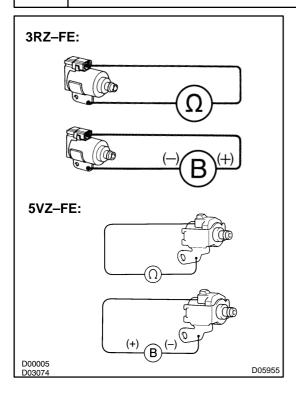
There is no open or short circuit.

NG `

Repair or replace the harness or connector between ECM and automatic transmission solenoid connector.

OK

3 Check shift solenoid valve SL.



PREPARATION:

- (a) Remove the oil pan.
- (b) Remove the shift solenoid valve SL.

CHECK:

(a) Measure the resistance between the solenoid connector terminal and the body ground.

Standard: 11 – 15 Ω at 20°C (68°F)

(b) Connect the battery positive lead to the solenoid connector terminal and the battery negative lead to the solenoid body ground.

Standard: Solenoid operation noise is produced.

OK:

Standard.

NG

Replace shift solenoid valve SL.

ОК

Check and replace the ECM (See page IN-28).