

DTC	B1237	JAM PROTECTION LIMIT SWITCH CIRCUIT ON REAR DOOR LH
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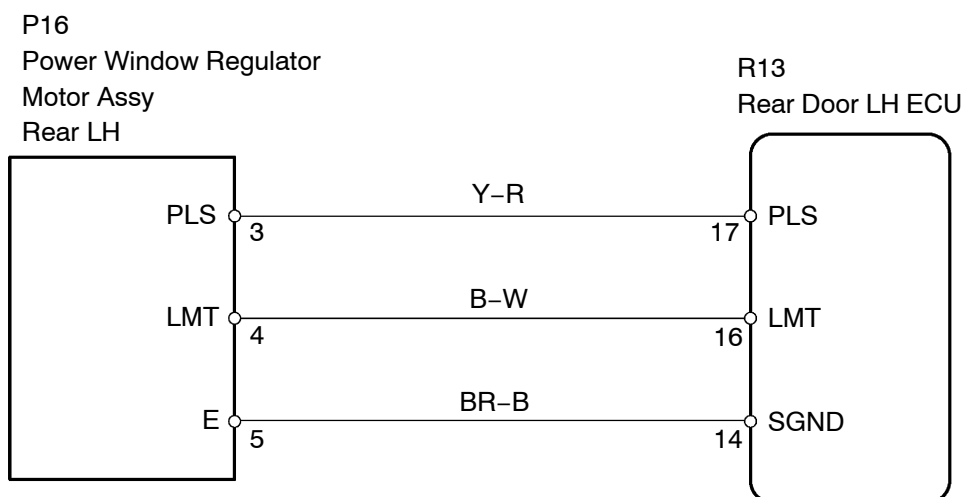
DTC	B1238	JAM PROTECTION PULSE SENSOR CIRCUIT ON REAR DOOR LH
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CIRCUIT DESCRIPTION

These DTCs are output when the power window motor rear LH is malfunctioning.

DTC No.	DTC Detection Condition	Trouble Area
B1237	• Open in limit switch of power window regulator motor rear LH	• Power window regulator motor rear LH • Wire harness
B1238	• Open or short in pulse sensor of power window regulator motor rear LH	• Power window regulator motor rear LH • Wire harness

WIRING DIAGRAM



INSPECTION PROCEDURE

1 CHECK POWER WINDOW OPERATION

- (a) Lower the rear LH power window from the fully closed position to the fully open position. Check if the DTC is erased.

Result:

Result	Proceed to
DTC is erased	A
DTC is not erased	B

HINT:

If the DTC is erased, it is possible the driver door ECU incorrectly detected this DTC previously.

B

Go to step 2

A

END

2 READ VALUE OF INTELLIGENT TESTER II

- (a) Connect the intelligent tester II to the DLC3.
 (b) Turn the ignition switch ON and press the intelligent tester II main switch ON.
 (c) Select the items below in the DATA LIST and read the displays on the intelligent tester II.

REAR DOOR LH ECU:

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
Limit SW	Jam protection Limit SW	ON: Jam protection limit switch operates OFF: Jam protection limit switch does not operate	–

OK: "ON" (Jam protection limit switch operates) appears on the screen.

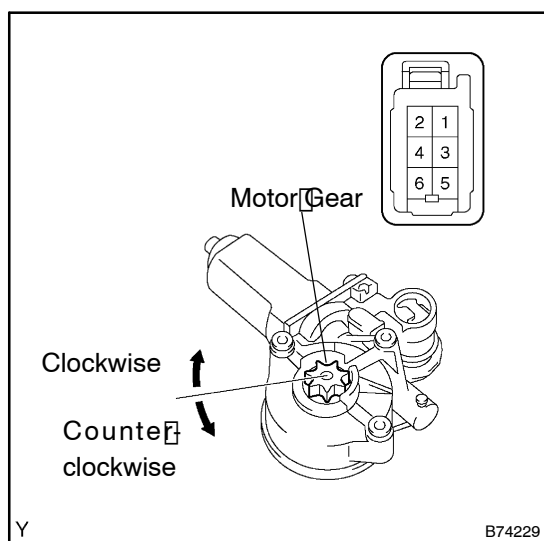
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Go to step 3

OK

REPLACE REAR DOOR LH ECU

3 INSPECT POWER WINDOW REGULATOR MOTOR ASSY REAR LH



- Remove the motor (see page 75-17).
- Apply battery voltage to the motor connector according to the table below.
- Check that the motor rotates smoothly.

NOTICE:

Do not apply battery voltage to any terminals except terminals 1 and 2.

OK:

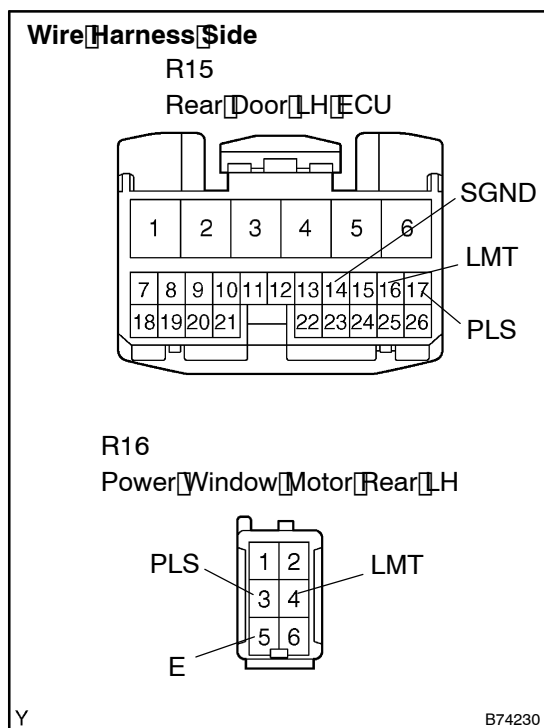
Measurement Condition	Specified Condition
Battery positive (+) → Terminal 1 Battery negative (-) → Terminal 2	Motor gear rotates clockwise
Battery positive (+) → Terminal 2 Battery negative (-) → Terminal 1	Motor gear rotates counterclockwise

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REPAIR POWER WINDOW REGULATOR MOTOR ASSY

OK

4 CHECK WIRE HARNESS (REAR DOOR LH ECU - POWER WINDOW REGULATOR MOTOR ASSY REAR LH)



- Disconnect the R15 ECU connector.
- Disconnect the P16 motor connector.
- Measure the resistance of the wire harness side connectors.

Standard:

Tester Connection	Specified Condition
R15-16 (LMT) - P16-4 (LMT)	Below 1 Ω
R15-17 (PLS) - P16-3 (PLS)	Below 1 Ω
R15-14 (SGND) - P16-5 (E)	Below 1 Ω
P16-4 (LMT) - Body ground	10 k Ω or higher
P16-3 (PLS) - Body ground	10 k Ω or higher
P16-5 (E) - Body ground	10 k Ω or higher

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REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

REPLACE REAR DOOR LH ECU