POWER WINDOW MOTOR CIRCUIT (DRIVER SIDE)

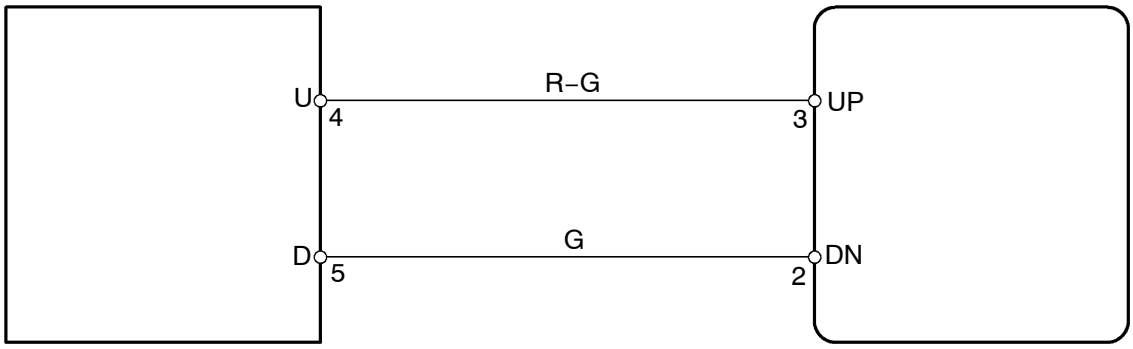
CIRCUIT DESCRIPTION

The driver door ECU receives signals from the power window regulator master switch assy and operates the power window regulator motor.

WIRING DIAGRAM

P14 Power Window Motor Front LH (LHD)
P15 Power Window Motor Front RH (RHD)

D25
Driver Door ECU



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INSPECTION PROCEDURE

1	CHECK FOR DTCS

(a) Operate the driver door power window. Check if any DTC is output.

RESULT:

Result	Proceed to
No DTC is output	A
DTC is output	B

B → PROCEED TO DTC CHART (See page 05–1998)

A

2	PERFORM ACTIVE TEST USING 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 item below in the ACTIVE TEST and then check that the power window operates.

DRIVER DOOR ECU:

Item	Test Details	Diagnostic Note
Power window	UP / DOWN	–

OK: Power window operates normally.

NG → **Go to step 3**

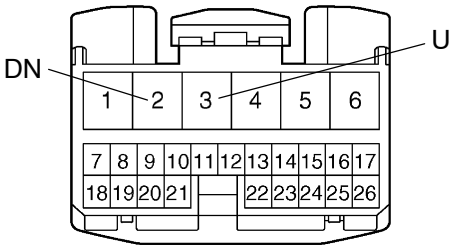
OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE
(See page 05–1985)

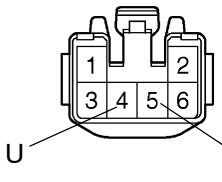
3	CHECK WIRE HARNESS (DRIVER SIDE POWER WINDOW REGULATOR MOTOR ASSY DRIVER SIDE – DRIVER DOOR ECU)

Wire Harness Side

D25
Driver Door ECU



P14 Power Window Motor Front LH (LHD)
P15 Power Window Motor Front RH (RHD)



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(a) Disconnect the P14 (LHD) or P15 (RHD) motor connector.
(b) Disconnect the D25 ECU connector.
(c) Measure the resistance of the wire harness side connectors.

Standard:

LHD models

Tester Connection	Specified Condition
P14–4 (U) – D25–3 (UP)	Below 1 Ω
P14–5 (D) – D25–2 (DN)	Below 1 Ω

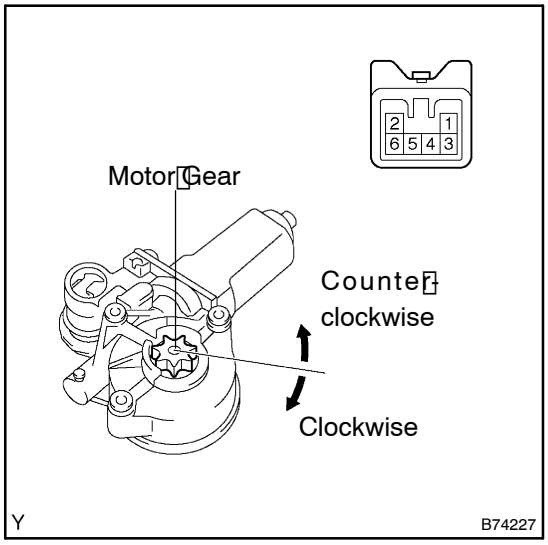
RHD models

Tester Connection	Specified Condition
P15–4 (U) – D25–3 (UP)	Below 1 Ω
P15–5 (D) – D25–2 (DN)	Below 1 Ω

NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK

4	INSPECT POWER WINDOW REGULATOR MOTOR ASSY (DRIVER SIDE)



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

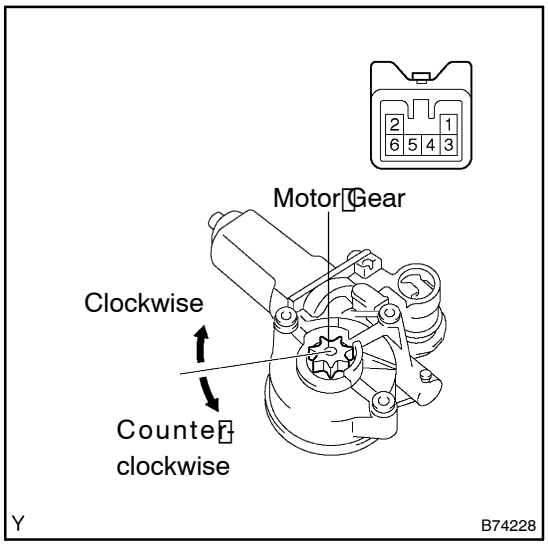
NOTICE:

Do not apply battery voltage to any terminals except terminals 4 and 5.

OK:

LHD models

Measurement Condition	Specified Condition
Battery positive (+) → Terminal 5 Battery negative (–) → Terminal 4	Motor gear rotates clockwise
Battery positive (+) → Terminal 4 Battery negative (–) → Terminal 5	Motor gear rotates counterclockwise



RHD models

Measurement Condition	Specified Condition
Battery positive (+) → Terminal 4 Battery negative (–) → Terminal 5	Motor gear rotates clockwise
Battery positive (+) → Terminal 5 Battery negative (–) → Terminal 4	Motor gear rotates counterclockwise

NG → **REPAIR POWER WINDOW REGULATOR MOTOR ASSY**

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE (See page 05–1985)