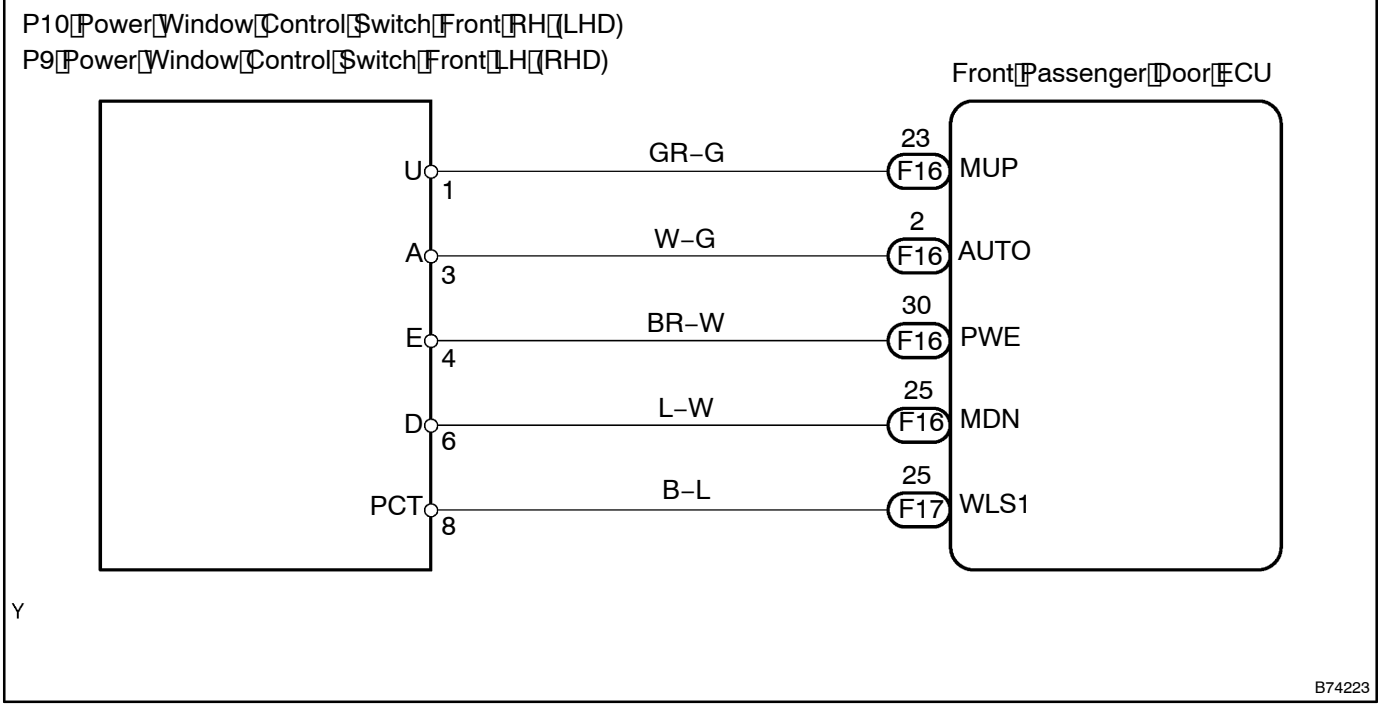
POWER WINDOW REGULATOR SWITCH CIRCUIT (PASSENGER'S DOOR)

CIRCUIT DESCRIPTION

This circuit transmits signals from the power window regulator switch assy on the passenger's door to the passenger door ECU.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK FOR DTCS

(a) Operate the passenger door power window regulator switch. Check if any DTC is output.

RESULT:

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

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

B

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.
PASSENGER DOOR ECU:

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
Power window regulator switch	Not operated → Operated	ON: Operated OFF: Not operated	–

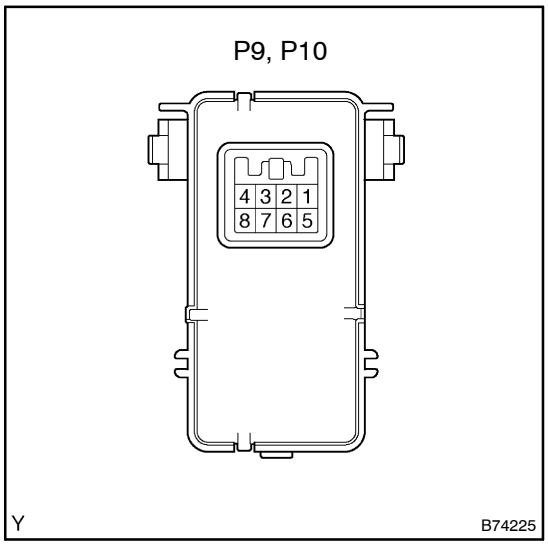
OK: ”ON” (switch is operated) appears on the screen.

NG → **Go to step 3**

OK

PROCEED TO NEXT CIRCUIT INSPECTION

3	INSPECT POWER WINDOW REGULATOR SWITCH ASSY



(a) Remove the regulator switch.
(b) Disconnect the P10 (LHD) or P9 (RHD) switch connector.
(c) Measure the resistance between the terminals of the wire harness side connector.
Standard:
Regulator Switch

Switch Condition	Tester Connection	Specified Condition
AUTO UP	3 – 8 1 – 8	Below 1 Ω
UP	1 – 8	Below 1 Ω
OFF	–	–
DOWN	6 – 8	Below 1 Ω
AUTO DOWN	3 – 8 6 – 8	Below 1 Ω

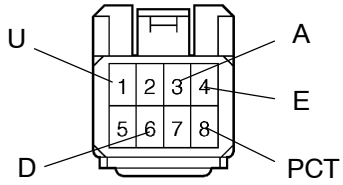
NG → **REPLACE POWER WINDOW REGULATOR SWITCH ASSY FRONT RH**

OK

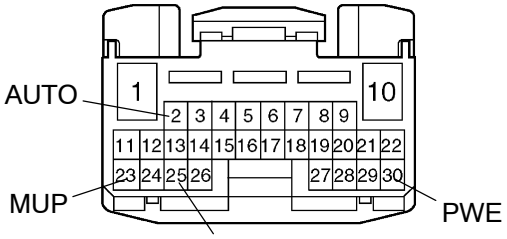
4	CHECK WIRE HARNESS (POWER WINDOW REGULATOR SWITCH ASSY FRONT RH / POWER WINDOW REGULATOR SWITCH ASSY FRONT LH – PASSENGER DOOR ECU)

Wire Harness Side

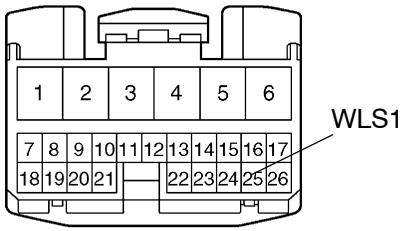
P9 Power Window Regulator Switch Assy Front LH (RHD)
P10 Power Window Regulator Switch Assy Front RH (LHD)



F16
Front Passenger Door ECU



F17
Front Passenger Door ECU



Y

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(a) Disconnect the P10 regulator switch connector.
(b) Disconnect the F16 and F17 ECU connectors.
(c) Measure the resistance of the wire harness side connectors.

Standard:

LHD models

Tester Connection	Specified Condition
P10–8 (PCT) – F17–25 (WLS1)	Below 1 Ω
P10–4 (E) – F16–30 (PWE)	Below 1 Ω
P10–3 (A) – F16–2 (AUTO)	Below 1 Ω
P10–1 (U) – F16–23 (MUP)	Below 1 Ω
P10–6 (D) – F16–25 (MDN)	Below 1 Ω
P10–8 (PCT) – Body ground	10 kΩ or higher
P10–4 (E) – Body ground	10 kΩ or higher
P10–3 (A) – Body ground	10 kΩ or higher
P10–1 (U) – Body ground	10 kΩ or higher
P10–6 (D) – Body ground	10 kΩ or higher

RHD models

Tester Connection	Specified Condition
P9–8 (PCT) – F17–25 (WLS1)	Below 1 Ω
P9–4 (E) – F16–30 (PWE)	Below 1 Ω
P9–3 (A) – F16–2 (AUTO)	Below 1 Ω
P9–1 (U) – F16–23 (MUP)	Below 1 Ω
P9–6 (D) – F16–25 (MDN)	Below 1 Ω
P9–8 (PCT) – Body ground	10 kΩ or higher
P9–4 (E) – Body ground	10 kΩ or higher
P9–3 (A) – Body ground	10 kΩ or higher
P9–1 (U) – Body ground	10 kΩ or higher
P9–6 (D) – Body ground	10 kΩ or higher

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

OK

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