REMOTE OPERATION VIA MASTER SWITCH IS IMPOSSIBLE IN THE OTHER DOOR (OPERATION VIA EACH DOOR SWITCH IS POSSIBLE)

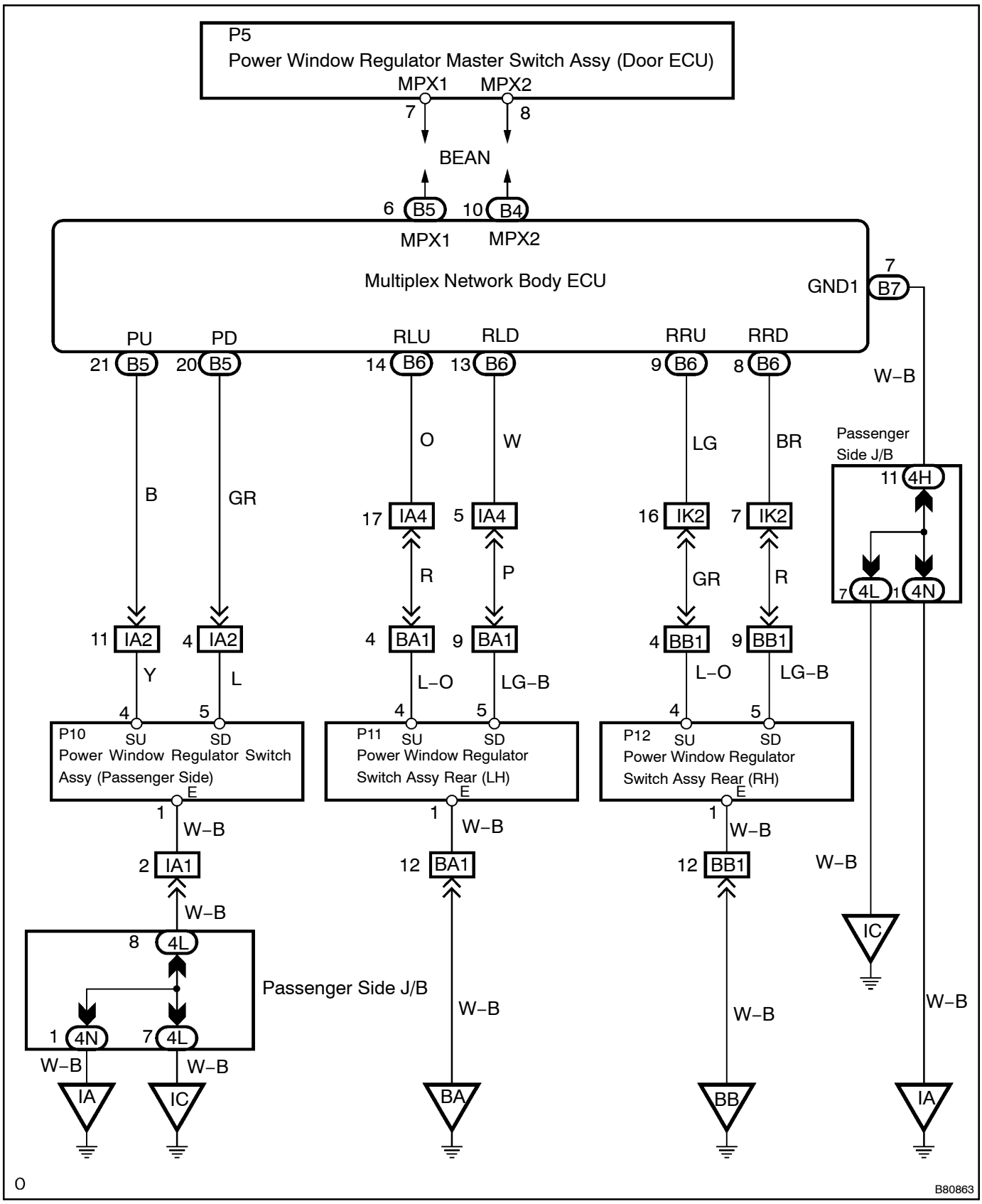
CIRCUIT DESCRIPTION

When the ignition switch is ON, the power window regulator master switch (door ECU) sends a remote switch signal for each seat to the multiplex network body ECU. Then the body ECU drives the power window motor for the other seats.

HINT:

The power window system is part of the large–scale multiplex communication system. This system features shared communication wiring that reduces the wiring complexity of the communication lines. The first step in any repair is to confirm the proper operation of the communication system. Proceed with troubleshooting after the communication has been verified (see multiplex communication system).

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK DTC

(a) Using the hand–held tester, check for DTC B1221/21 of the power window regulator master switch (door ECU) when the master switch operated.
Standard: B1221/21 appears on the screen.

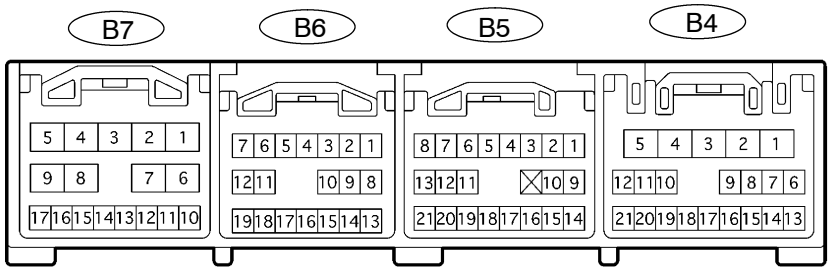
HINT:
- If DTC B1221/21 disappears, proceed to A.
- If DTC B1221/21 is output, proceed to B.

NG → **Go to DTC B1221/21**

OK

2	CHECK MULTIPLEX NETWORK BODY ECU

(a) Measure the voltage between the terminals that correspond to the inoperative power window.



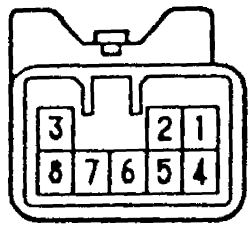
Standard:

Tester Connection	Condition	Specified Condition
B5–21 (PU) – B7–7 (GND1)	Ignition switch ON, master switch passenger side switch OFF → UP (manual operation)	0 V → 10 to 14 V
B5–20 (PD) – B7–7 (GND1)	Ignition switch ON, master switch passenger side switch OFF → DOWN (manual operation)	0 V → 10 to 14 V
B6–9 (RRU) – B7–7 (GND1)	Ignition switch ON, master switch rear RH side switch OFF → UP (manual operation)	0 V → 10 to 14 V
B6–8 (RRD) – B7–7 (GND1)	Ignition switch ON, master switch rear RH side switch OFF → DOWN (manual operation)	0 V → 10 to 14 V
B6–14 (RLU) – B7–7 (GND1)	Ignition switch ON, master switch rear LH side switch OFF → UP (manual operation)	0 V → 10 to 14 V
B6–13 (RLD) – B7–7 (GND1)	Ignition switch ON, master switch rear LH side switch OFF → DOWN (manual operation)	0 V → 10 to 14 V

NG → **REPLACE MULTIPLEX NETWORK BODY ECU**

OK

3 INSPECT POWER WINDOW REGULATOR SWITCH ASSY



B31305

(a) Remove the regulator switch.
(b) Measure the resistance of the switch terminals.
Standard:

Tester Connection	Switch Condition	Specified Condition
1 – 4	UP operated	Below 1 Ω
1 – 5	DOWN operated	Below 1 Ω

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

OK

REPAIR OR REPLACE HARNESS AND CONNECTOR