

DRIVER POWER WINDOW DOES NOT OPERATE

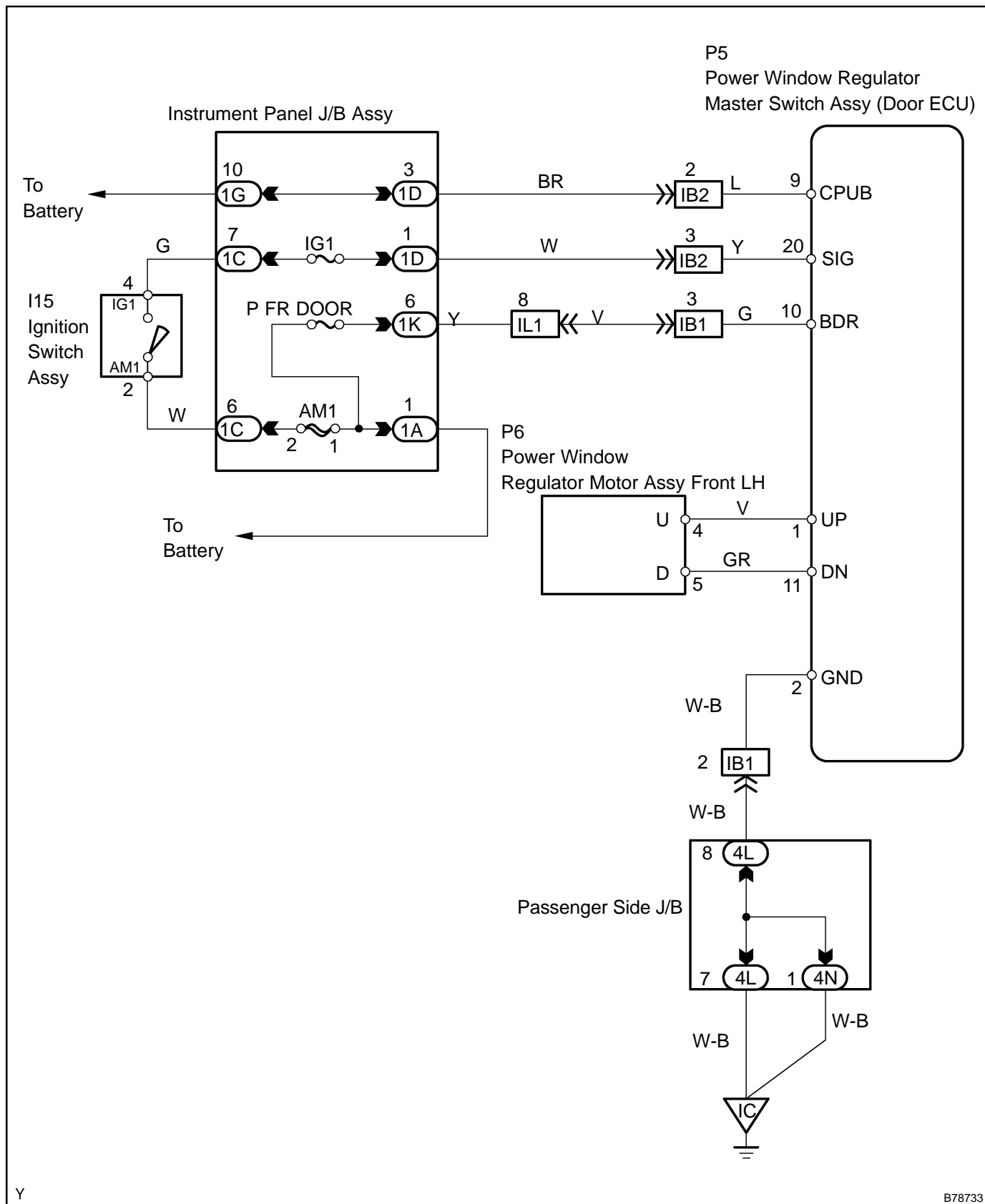
CIRCUIT DESCRIPTION

The power window regulator master switch assy (door ECU) controls the driver side power window by itself and drives the driver side power window motor.

NOTICE:

The power window system has a function with a large-scale multiplex communication. First of all, inspect the communication function depending on "how to proceed with troubleshooting" and confirm that the communication system has no abnormality. Then finally perform the troubleshooting.

WIRING DIAGRAM



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B78733

INSPECTION PROCEDURE

1 CHECK FUSE

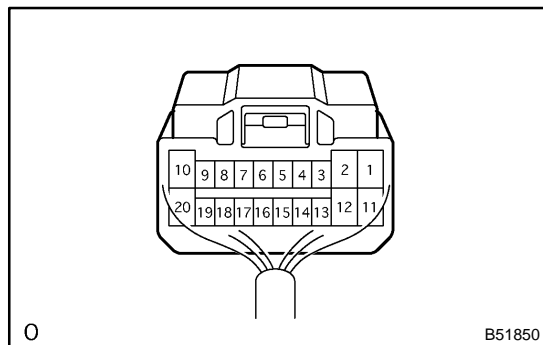
- (a) Check if the P FR DOOR 20 A, ECU B 7.5 A and IG1 7.5 A fuses are normal.

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REPLACE FUSE

OK

2 CHECK POWER WINDOW REGULATOR MASTER SWITCH ASSY



- (a) Check the power source voltage.
- (1) Disconnect the master switch connector.
 - (2) Check the voltage of each terminal of the vehicle's side connector of the master switch.

Standard:

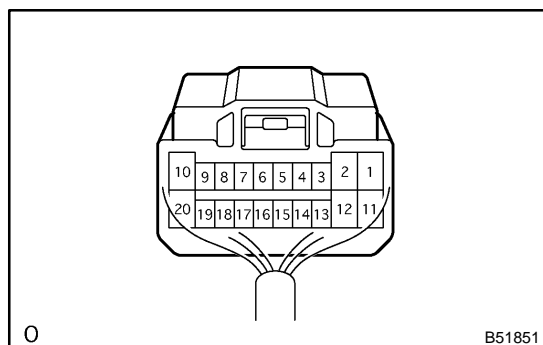
Symbols (Terminal No.)	Condition	Specified Condition
CPUB (9) ⇔ Body ground	Constant	10 - 14 V
BDR (10) ⇔ Body ground	Constant	10 - 14 V
SIG (20) ⇔ Body ground	Ignition switch OFF → ON	0 V → 10 - 14 V

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REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

3 CHECK POWER WINDOW REGULATOR MASTER SWITCH ASSY



- (a) Check the GND.
- (1) Disconnect the master switch connector.
 - (2) Check the continuity between terminal 2 (GND) of the vehicle's side connector of the master switch and the body ground.

Standard: Continuity (constant)

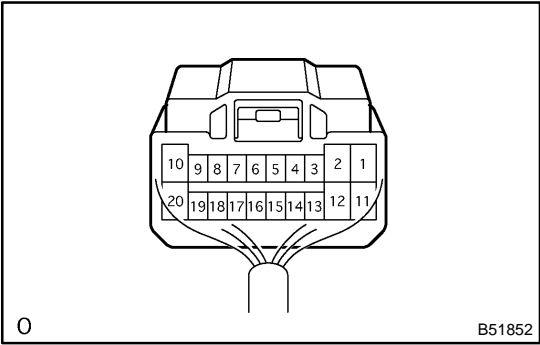
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REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

4

CHECK POWER WINDOW REGULATOR MOTOR ASSY LH (DRIVER’S SIDE)



- (a) Disconnect the master switch connector.
- (b) Inspect the door glass operation when the battery voltage is applied between terminals 1 (UP) and 11 (DN) of the vehicle’s side connector of the master switch.

Standard:

Measuring Condition	Operational Direction
Battery positive - Terminal 1 (UP) Battery negative - Terminal 11 (DN)	Upward
Battery positive - Terminal 11 (DN) Battery negative - Terminal 1 (UP)	Downward

OK

REPLACE POWER WINDOW REGULATOR MASTER SWITCH ASSY

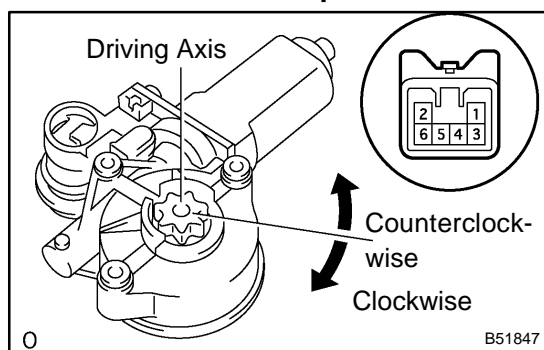
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5 INSPECT POWER WINDOW REGULATOR MOTOR ASSY LH (DRIVER SIDE)

(a) Inspect the power window regulator motor assy LH (Driver side) operation.

NOTICE:

- Do not apply the battery voltage, because the pulse sensor and limit switch could be damaged if the battery voltage is applied to terminals 2, 3 and 6 of the power window regulator motor connector.
- Be sure to reset the power window regulator motor (initial position setting of limit switch) when the driver's side power window regulator motor is installed to the regulator.



- (1) Check that the motor operates smoothly when the battery positive voltage is applied to each terminal of the connector.

Standard:

Measuring Condition	Operational Direction
Battery positive - Terminal 5 Battery negative - Terminal 4	Clockwise
Battery positive - Terminal 4 Battery negative - Terminal 5	Counterclockwise

(b) Inspect the PTC operation inside the power window regulator motor.

NOTICE:

The inspection should be performed with the power window regulator and door glass installed to the vehicle.

- (1) Set a DC 400 A probe of the electrical tester in the wire harness of terminal 4 or 5.

NOTICE:

Match the arrow mark of the probe with the current direction.

- (2) Set the door glass in the fully closed position.
- (3) When 60 seconds have elapsed after the door glass is fully closed, check how long the current takes to charge, from approximately 16 - 34 A into 1 A or less, when the power window switch is turned UP once again.

Standard: Approximately 4 - 90 seconds

- (4) When approximately 60 seconds have elapsed after the inspection of the current cut-off, check that the door glass goes down when the power window regulator switch is turned DOWN.

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REPLACE POWER WINDOW REGULATOR MOTOR ASSY LH

OK

REPAIR OR REPLACE HARNESS AND CONNECTOR