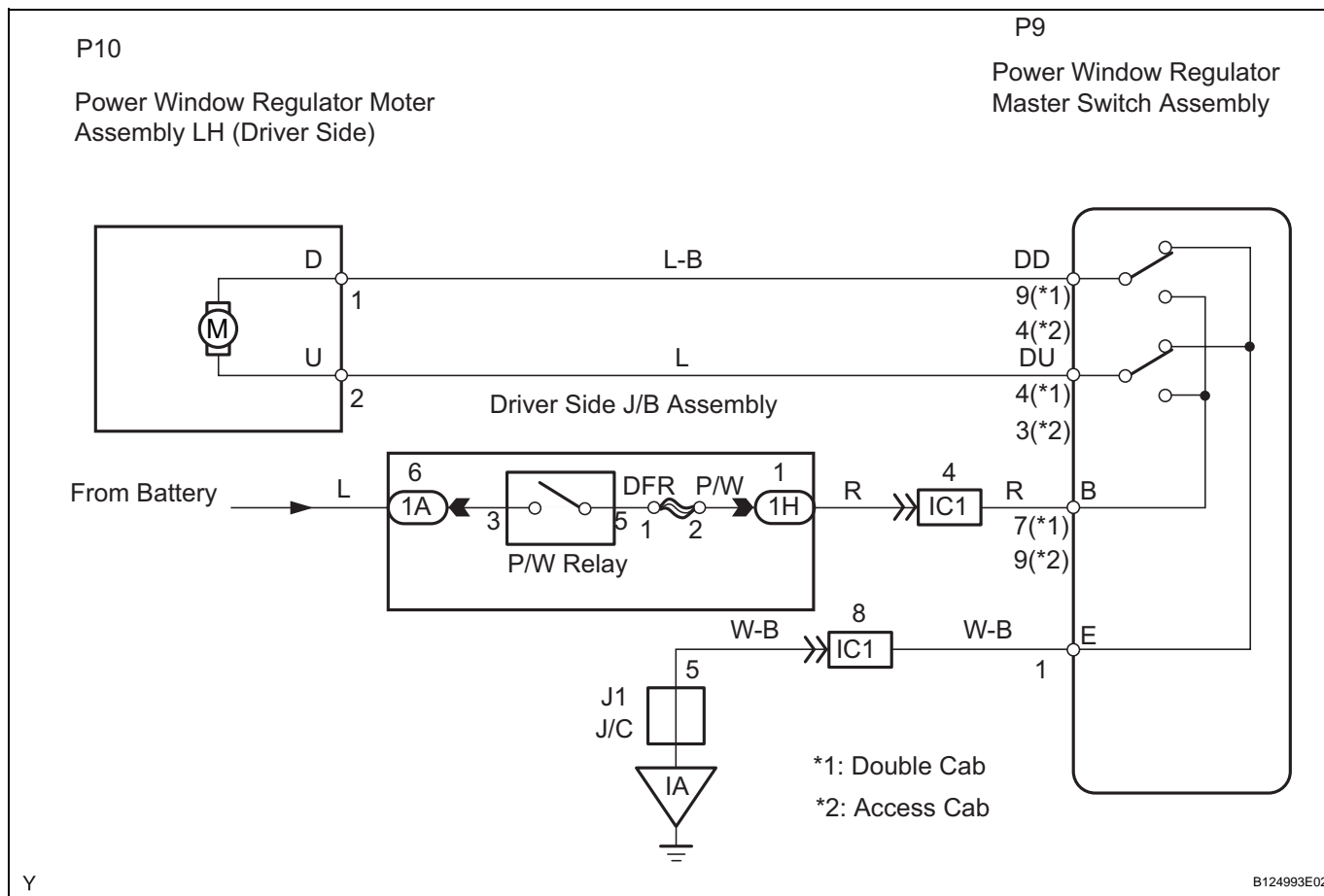


Driver Side Power Window does not Operate with Power Window Master Switch

DESCRIPTION

If the manual UP/DOWN function does not operate, the power window regulator master switch assembly, the power window regulator motor assembly or the wire harness may be malfunctioning.

WIRING DIAGRAM



1 INSPECT FUSE (D FR P/W)

- Remove the D FR P/W fuse from the driver side J/B.
- Check the resistance.
Standard Resistance:
Below 1 Ω
- Reinstall the D FR P/W fuse.

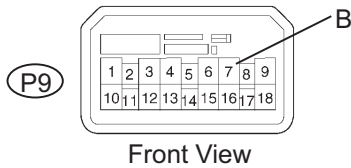
NG

REPLACE FUSE

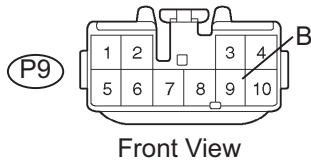
OK

2 CHECK POWER WINDOW REGULATOR MASTER SWITCH ASSEMBLY

- Turn the ignition switch to ON.

Wire Harness Side (Double Cab):Power Window Regulator
Master Switch Assembly**Wire Harness Side (Access Cab):**

Power Window Regulator Master Switch



Y

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OK

(b) Measure the voltage.

Standard Voltage (Double cab)

Tester Connection	Condition	Specified Condition
P9-7 (B) - Body ground	Ignition switch ON	10 to 14 V

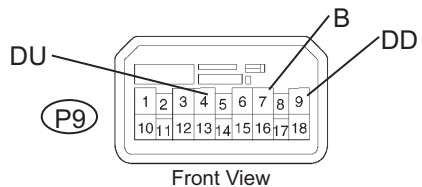
Standard Voltage (Access cab)

Tester Connection	Condition	Specified Condition
P9-9 (B) - Body ground	Ignition switch ON	10 to 14 V

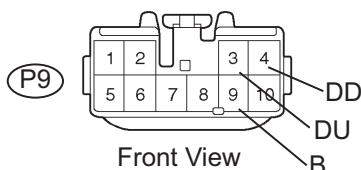
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**REPAIR OR REPLACE HARNESS OR
CONNECTOR (DRIVER SIDE J/B -
REGULATOR MASTER SWITCH)**

WS

3**CHECK POWER WINDOW REGULATOR MOTOR ASSEMBLY LH****Wire Harness Side (Double Cab):**Power Window Regulator
Master Switch Assembly**Wire Harness Side (Access Cab):**

Power Window Regulator Master Switch



Y

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- (a) Disconnect the P9 power window regulator master switch connector.
- (b) Using a service wire, connect the terminals according to the table below.
- (c) Turn the ignition switch to ON.
- (d) Check the operation of the power window regulator motor assembly LH.

OK (Double cab)

Wire Connection	Specified Condition
P9-4 (DU) - P9-7 (B) P9-9 (DD) - Body ground	Power window moves UP
P9-4 (DU) - Body ground P9-7 (B) - P9-9 (DD)	Power window moves DOWN

OK (Access cab)

Wire Connection	Specified Condition
P9-3 (DU) - P9-9 (B) P9-4 (DD) - Body ground	Power window moves UP
P9-3 (DU) - Body ground P9-9 (B) - P9-4 (DD))	Power window moves DOWN

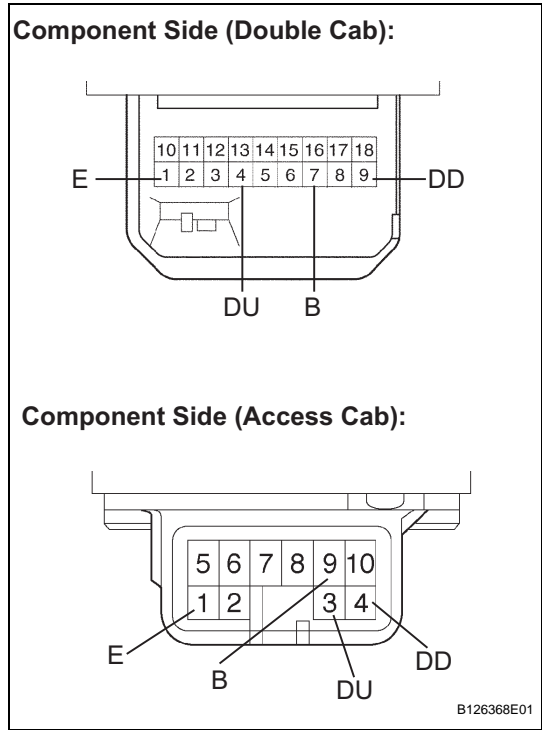
- (e) Reconnect the power window regulator master switch connector.

OK

**REPLACE POWER WINDOW REGULATOR
MASTER SWITCH ASSEMBLY**

NG

4 INSPECT POWER WINDOW REGULATOR MASTER SWITCH ASSEMBLY (SWITCH OPERATION)



- (a) Remove the power window regulator master switch.
- (b) Disconnect the P9 power window regulator master switch connector.
- (c) Measure the resistance between the terminals of the connector when the switch is operated.

Standard (Double cab)

Tester Connection	AUTO Switch	Specified Condition
P9-1 (E) - P9-9 (DD) P9-4 (DU) - P9-7 (B)	UP	Below 1 Ω
P9-1 (E) - P9-4 (DU) P9-1 (E) - P9-9 (DD)	OFF	Below 1 Ω
P9-1 (E) - P9-4 (DU) P9-7 (B) - P9-9 (DD)	DOWN	Below 1 Ω

Standard (Access cab)

Tester Connection	AUTO Switch	Specified Condition
P9-1 (E) - P9-4 (DD) P9-3 (DU) - P9-9 (B)	UP	Below 1 Ω
P9-1 (E) - P9-3 (DU) P9-1 (E) - P9-4 (DD)	OFF	Below 1 Ω
P9-1 (E) - P9-3 (DU) P9-9 (B) - P9-4 (DD)	DOWN	Below 1 Ω

- (d) Reconnect the power window regulator master switch connector.
- (e) Reinstall the power window regulator master switch.

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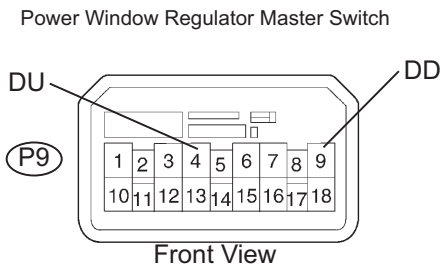
REPLACE POWER WINDOW REGULATOR MASTER SWITCH ASSEMBLY

OK

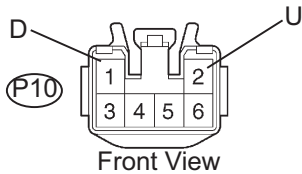
5 CHECK HARNESS AND CONNECTOR (REGULATOR MASTER SWITCH - REGULATOR MOTOR AND BODY GROUND)

- (a) Disconnect the P9 power window regulator master switch connector.
- (b) Disconnect the P10 power window regulator motor connector.

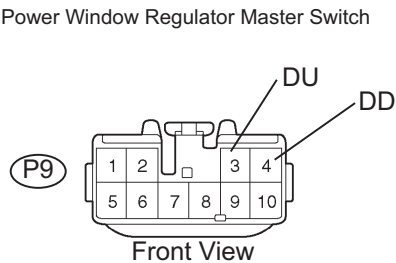
Wire Harness Side (Double Cab):



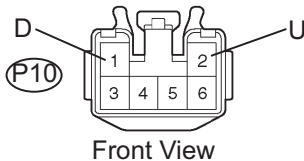
Power Window Regulator Motor Assembly LH
(Driver Side)



Wire Harness Side (Access Cab):



Power Window Regulator Motor Assembly LH
(Driver Side)



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- (c) Measure the resistance.
Standard (Double cab)

Tester Connection	Specified Condition
P9-9 (DD) - P10-1 (D)	Below 1 Ω
P9-4 (DU) - P10-2 (U)	Below 1 Ω
P9-9 (DD) - Body ground	10 kΩ or higher
P9-4 (DU) - Body ground	10 kΩ or higher

Standard (Access cab)

Tester Connection	Specified Condition
P9-4 (DD) - P10-1 (D)	Below 1 Ω
P9-3 (DU) - P10-2 (U)	Below 1 Ω
P9-4 (DD) - Body ground	10 kΩ or higher
P9-3 (DU) - Body ground	10 kΩ or higher

- (d) Reconnect the power window regulator master switch connector.
(e) Reconnect the power window regulator motor connector.

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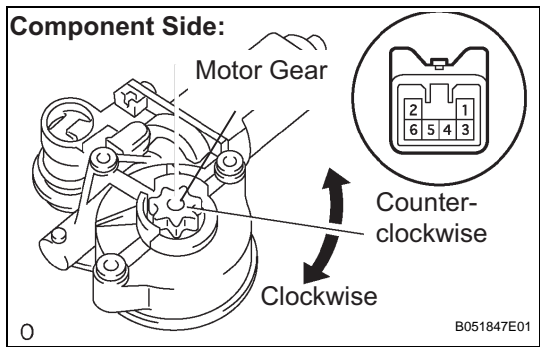
REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

6

INSPECT POWER WINDOW REGULATOR MOTOR ASSEMBLY LH

- (a) Remove the power window regulator motor.
(b) Apply battery voltage to connector terminals 1 and 2.



- (c) Check that the motor smoothly rotates.
NOTICE:
Do not apply battery voltage to any terminals except terminals 1 and 2.
OK

Terminal No.	Specified Condition
Battery positive (+) → 2 Battery negative (-) → 1	Motor gear rotates clockwise
Battery positive (+) → 1 Battery negative (-) → 2	Motor gear rotates counterclockwise

- (d) Reinstall the power window regulator motor.

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REPLACE POWER WINDOW REGULATOR MOTOR ASSEMBLY LH

OK

REPAIR OR REPLACE HARNESS OR CONNECTOR (MASTER SWITCH - REGULATOR SWITCH)

WS