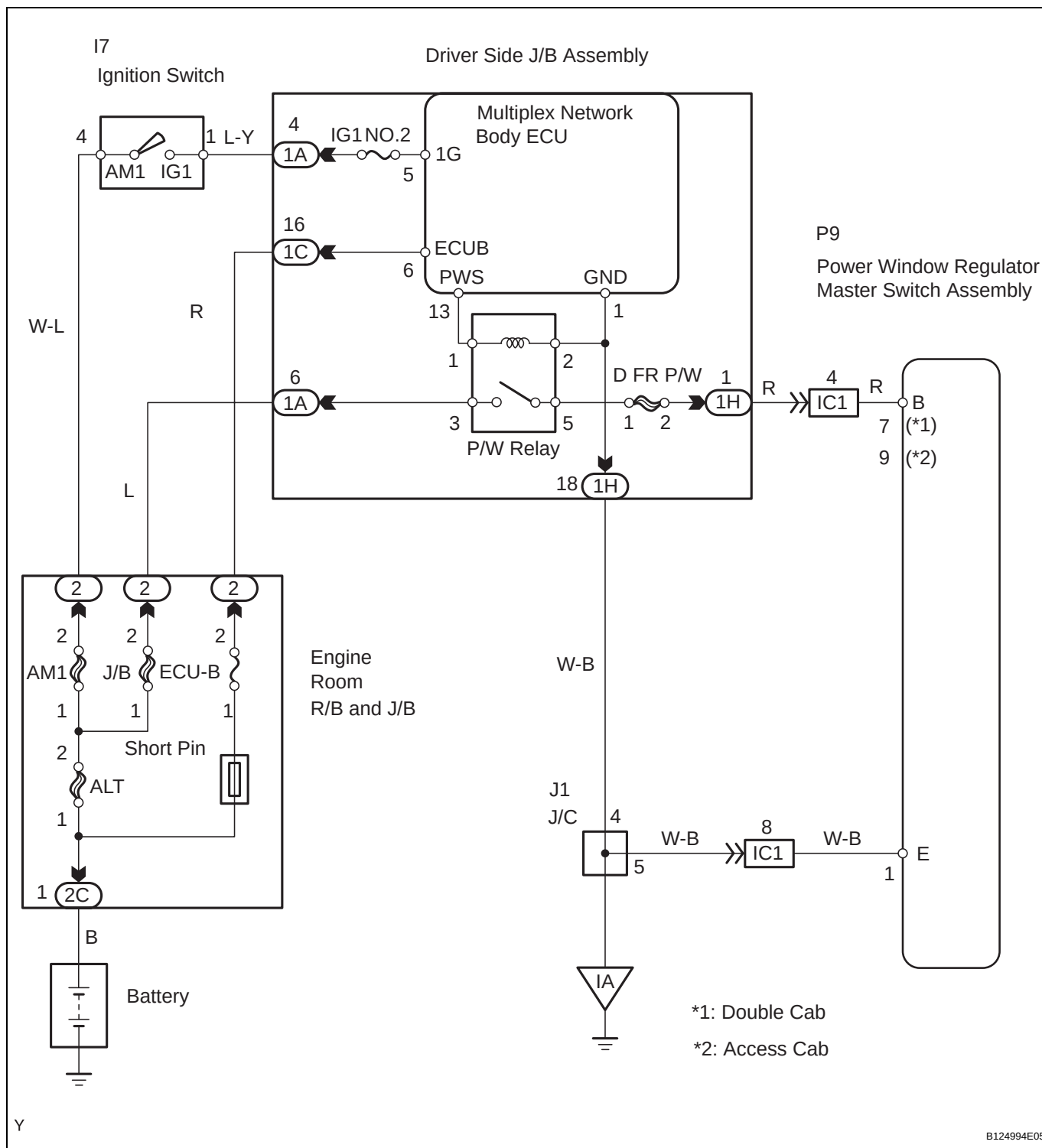


## Power Windows do not Operate at All

### DESCRIPTION

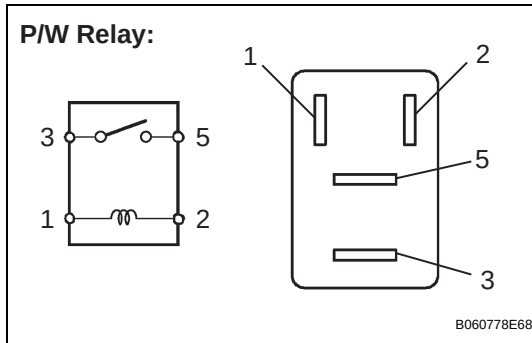
If none of the door windows operate, there may be a failure in the supply of power to the power window regulator master switch assembly, or the power window regulator master switch itself may be malfunctioning.

### WIRING DIAGRAM



**1 INSPECT FUSE (D FR P/W, IG1 NO.2, ECU-B, AM1, J/B)**

- (a) Remove the D FR P/W and IG1 No.2 fuses from the driver side J/B.
- (b) Remove the ECU-B, AM1 and J/B fuses from the engine room R/B.
- (c) Measure the resistance.  
**Standard resistance:**  
**Below 1  $\Omega$**
- (d) Reinstall the D FR P/W and IG1 No.2 fuses.
- (e) Reinstall the ECU-B, AM1 and J/B fuses.

**NG****REPLACE FUSE****OK****2 INSPECT RELAY (P/W)**

- (a) Remove the P/W relay from the driver side J/B.
- (b) Measure the resistance.

**Standard voltage**

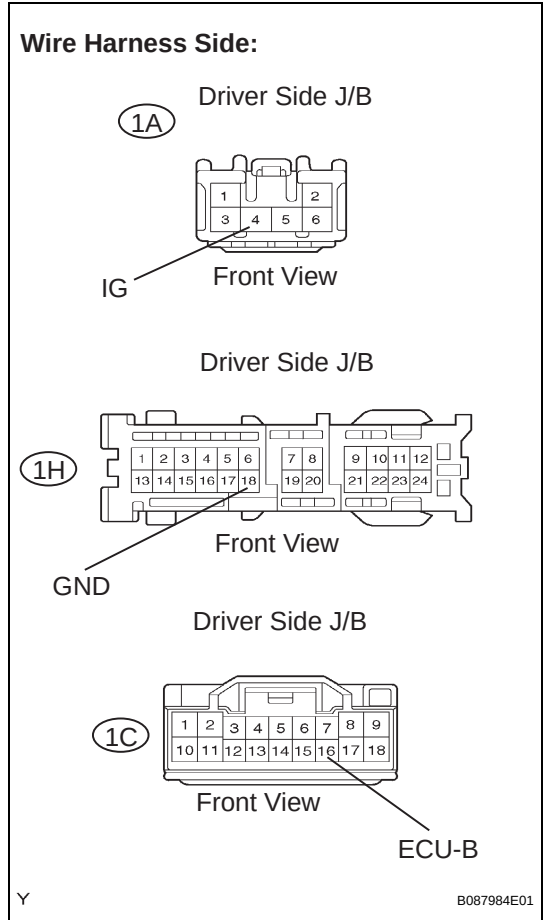
| Tester Connection | Specified Condition                                                        |
|-------------------|----------------------------------------------------------------------------|
| 3 - 5             | 10 k $\Omega$ or higher                                                    |
| 3 - 5             | Below 1 $\Omega$<br>(when battery voltage is applied to terminals 1 and 2) |

- (c) Reinstall the P/W relay.

**NG****REPLACE RELAY****OK****WS**

3

CHECK HARNESS AND CONNECTOR (FOR POWER SOURCE OF DRIVER SIDE J/B ASSEMBLY)



OK

- (a) Disconnect the 1A,1C, and 1H driver side J/B connectors.
- (b) Measure the voltage and resistance.

Standard voltage

| Tester Connection           | Condition          | Specified Condition |
|-----------------------------|--------------------|---------------------|
| 1A-6 - Body ground          | Constant           | 10 to 14 V          |
| 1C-16 (ECU-B) - Body ground | Constant           | 10 to 14 V          |
| 1A-4 (IG) - Body ground     | Ignition switch ON | 10 to 14 V          |

Standard resistance

| Tester Connection         | Condition | Specified Condition |
|---------------------------|-----------|---------------------|
| 1H-18 (GND) - Body ground | Constant  | Below 1 Ω           |

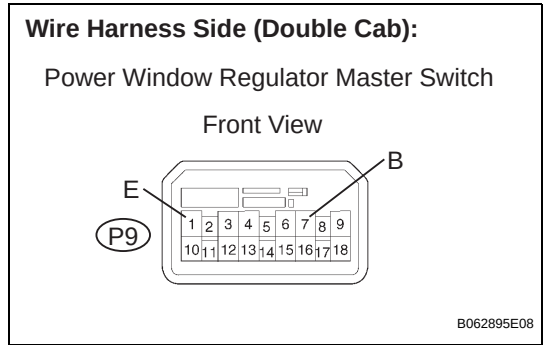
- (c) Reconnect the driver side J/B connectors.

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

4

CHECK HARNESS AND CONNECTOR (POWER WINDOW REGULATOR MASTER SWITCH ASSEMBLY - BODY GROUND)



- (a) Disconnect the P9 power window regulator master switch connector.
- (b) Measure the voltage or resistance.

Standard voltage:

Double cab

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

Access cab

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

Standard resistance:

Double cab

| Tester Connection      | Condition | Specified Condition |
|------------------------|-----------|---------------------|
| P9-1 (E) - Body ground | Constant  | Below 1 Ω           |

Access cab

| Tester Connection      | Condition | Specified Condition |
|------------------------|-----------|---------------------|
| P9-1 (E) - Body ground | Constant  | Below 1 Ω           |

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

OK

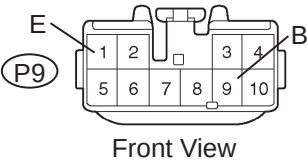
REPLACE POWER WINDOW REGULATOR MASTER SWITCH ASSEMBLY

WS

cardiagn.com

Wire Harness Side (Access Cab):

Power Window Regulator Master Switch



Y

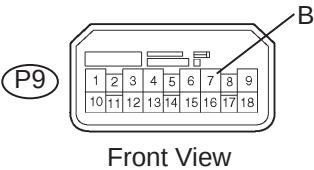
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NG

5 CHECK HARNESS AND CONNECTOR (DRIVER SIDE J/B - POWER WINDOW REGULATOR MASTER SWITCH)

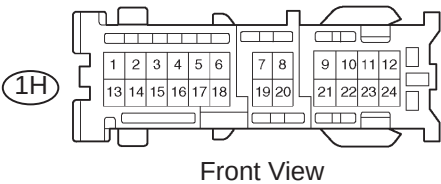
Wire Harness Side (Double Cab):

Power Window Regulator Master Switch



Front View

Driver Side J/B



Y

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- (a) Disconnect the 1H driver side J/B connectors.  
(b) Disconnect the P9 power window regulator master switch connector.  
(c) Measure the resistance.

Standard resistance (Double cab)

| Tester Connection | Specified Condition |
|-------------------|---------------------|
| 1H-1 - P9-7 (B)   | Below 1 Ω           |

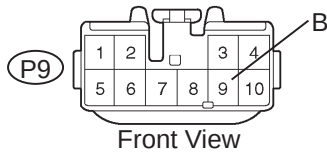
Standard resistance (Access cab)

| Tester Connection | Specified Condition |
|-------------------|---------------------|
| 1H-1 - P9-9 (B)   | Below 1 Ω           |

- (d) Reconnect the driver side J/B connector.

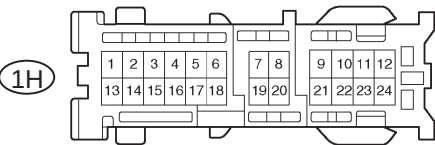
Wire Harness Side (Access Cab):

Power Window Regulator Master Switch



Front View

Driver Side J/B



Front View

Y

B087986E01

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

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE DRIVER SIDE JUNCTION BLOCK