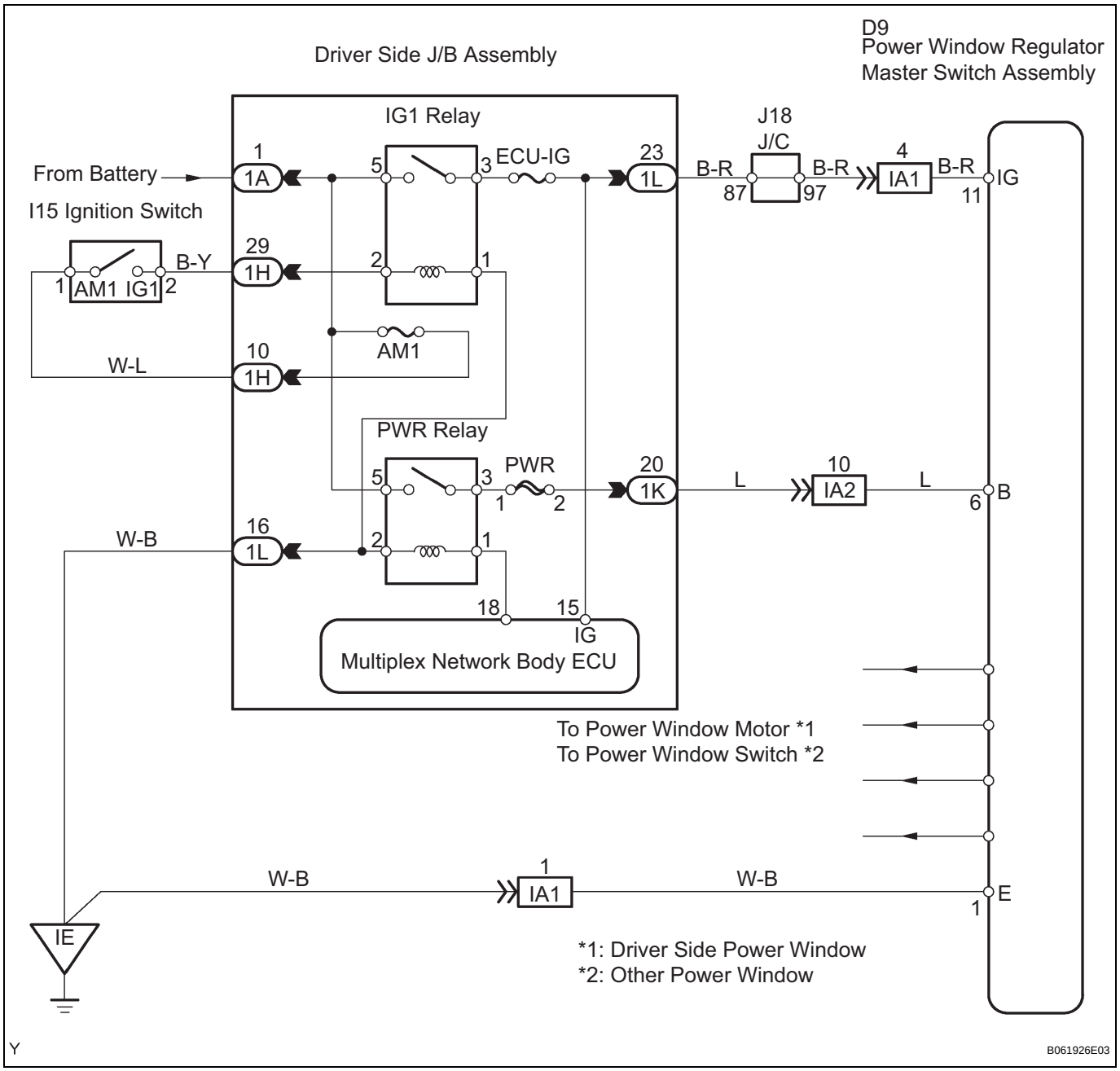
Power Windows do not Operate at All

DESCRIPTION

If all of the door windows do not operate, no power may be supplied to the power window master switch or the power window master switch itself may have a malfunction.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	**INSPECT FUSE (PWR, ECU-IG, AM1)**

(a) Remove the fuses from the driver side J/B.
(b) Check the resistance.

WS

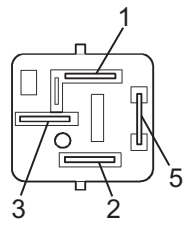
Standard resistance:
Below 1 Ω

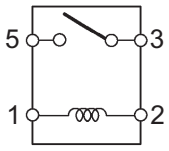
NG → **REPLACE FUSE**

OK

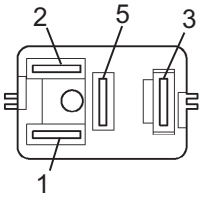
2	INSPECT RELAY (IG1, PWR)

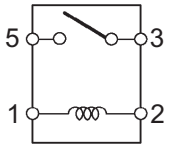
IG1 Relay:





PWR Relay:





Y B061927E01

(a) Remove the relay from the driver side J/B.
(b) Check the resistance of the relay.
Standard resistance

Terminal No.	Specified Condition
3 - 5	10 kΩ or higher
	Below 1 Ω (When battery voltage is applied to terminals 1 and 2)

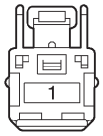
NG → **REPLACE RELAY**

OK

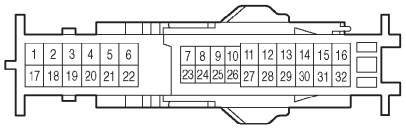
3 CHECK WIRE HARNESS (TO DRIVER SIDE JUNCTION BLOCK ASSEMBLY)

Wire Harness Side:

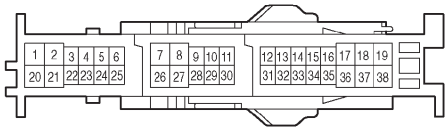
1A
Driver Side J/B Assembly



1L
Driver Side J/B Assembly



1H
Driver Side J/B Assembly



Y

B067307E02

(a) Disconnect the 1A, 1H and 1L J/B connectors.
(b) Check the voltage and resistance between each terminal of the wire harness side connector and the body ground.

Standard voltage

Terminal No.	Condition	Specified Condition
1A-1 - Body ground	Constant	10 to 14 V

Standard resistance

Terminal No.	Condition	Specified Condition
1L-16 - Body ground	Constant	Below 1 Ω
1H-10 - 1H-29	Ignition switch ON	Below 1 Ω

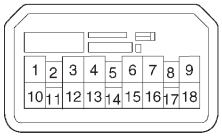
NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK

4 CHECK WIRE HARNESS (TO POWER WINDOW REGULATOR MASTER SWITCH)

Wire Harness Side:

D9
Power Window Regulator Master Switch Assembly



B062895E12

(a) Disconnect the D9 master switch connector.
(b) Check the voltage or resistance between each terminal of the wire harness side connector and the body ground.

Standard voltage

Terminal No.	Condition	Specified Condition
D9-6 (B) - Body ground	Ignition switch ON	10 to 14 V
D9-11 (IG) - Body ground		

Standard resistance

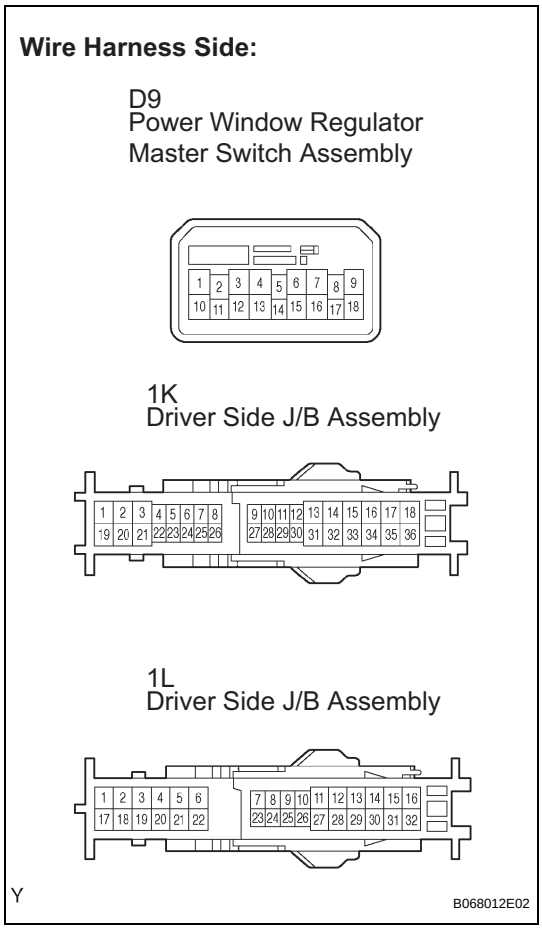
Terminal No.	Condition	Specified Condition
D9-1 (E) - Body ground	Constant	Below 1 Ω

OK → **REPLACE POWER WINDOW MASTER SWITCH**

NG

WS

5	**CHECK WIRE HARNESS (DRIVER SIDE JUNCTION BLOCK - POWER WINDOW MASTER SWITCH)**



(a) Disconnect the 1L and 1K J/B connectors.
(b) Disconnect the D9 master switch connector.
(c) Check the resistance between the wire harness side connectors.

Standard resistance

Terminal No.	Specified Condition
1K-20 - D9-6 (B)	Below 1 Ω
1L-23 - D9-11 (IG)	

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

OK

REPLACE DRIVER SIDE JUNCTION BLOCK ASSEMBLY