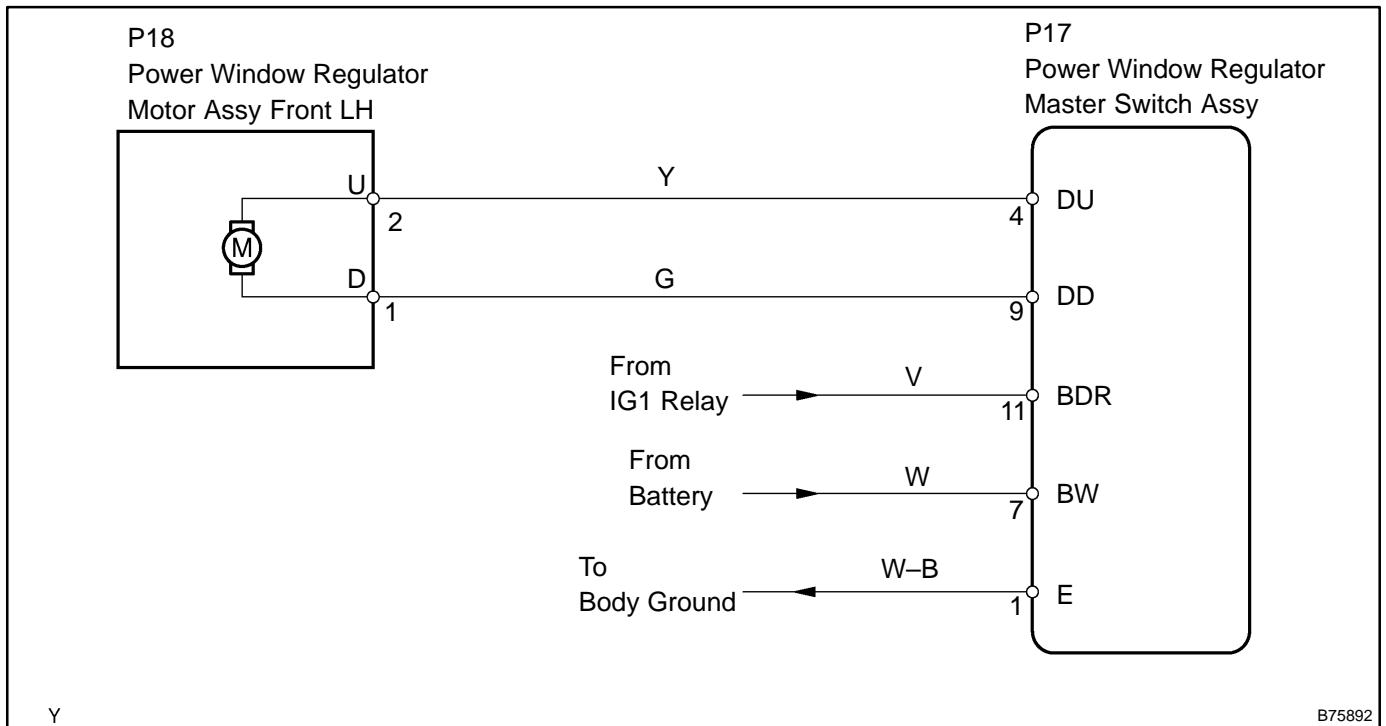


MANUAL UP/DOWN FUNCTION DOES NOT OPERATE ON DRIVER SIDE

CIRCUIT DESCRIPTION

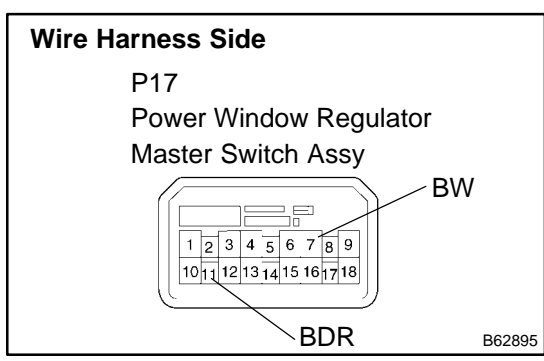
If the manual UP/DOWN function does not operate, a malfunction may be present in the power window regulator master switch assembly, the power window regulator motor assembly or the wire harness.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 CHECK POWER WINDOW REGULATOR MASTER SWITCH ASSY



- Turn the power switch ON (IG).
- Disconnect the P17 master switch connector.
- Measure the voltage between the terminal of the wire harness side connector and body ground.

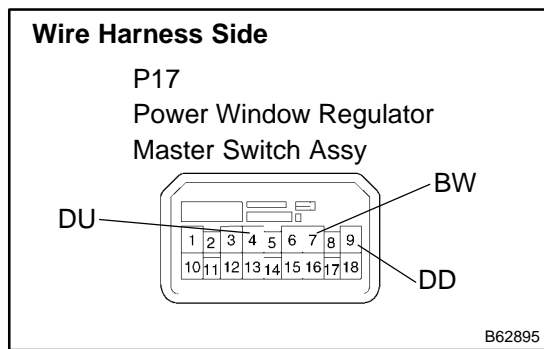
Standard:

| Tester Connection | Condition | Specified Condition |
|-------------------------------|----------------------|---------------------|
| P17-7 (BW) - Body ground | Constant | 10 to 14 V |
| P17-11 (BDR) - Body ground | Power switch ON (IG) | 10 to 14 V |

NG REPAIR OR REPLACE HARNESS AND CONNECTOR (INSTRUMENT PANEL J/B ASSY - POWER WINDOW MASTER SWITCH)

OK

2 CHECK POWER WINDOW REGULATOR MOTOR ASSY FRONT LH



- (a) Disconnect the P17 master switch connector.
- (b) Using a service wire, connect the terminals according to the table below.
- (c) Check operation of the power window regulator motor assy front LH.

OK:

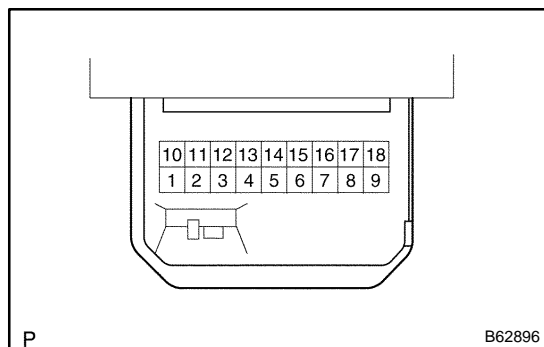
| Connection | Specified Condition |
|---|-------------------------|
| P17-4 (DU) - P17-7 (BW) P17-9 (DD) - Body ground | Power window moves UP |
| P17-4 (DU) - Body ground P17-7 (BW) - P17-9 (DD) | Power window moves DOWN |

NG → **Go to step 3**

OK

REPLACE POWER WINDOW REGULATOR MASTER SWITCH ASSY

3 INSPECT POWER WINDOW REGULATOR MASTER SWITCH ASSY (SWITCH OPERATION)



- (a) Remove the master switch.
- (b) Measure the resistance between the terminals of the connector when the switch is operated.

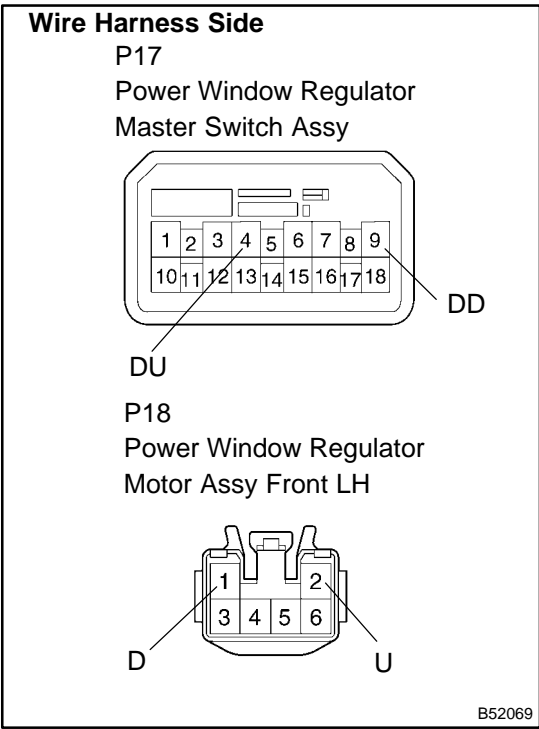
Standard:

| Tester Connection | AUTO Switch | Specified Condition |
|-------------------|-------------|---------------------|
| 1 - 9 4 - 7 | UP | Below 1 Ω |
| 1 - 4 1 - 9 | OFF | Below 1 Ω |
| 1 - 9 4 - 7 | DOWN | Below 1 Ω |

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

OK

4 CHECK WIRE HARNESS (POWER WINDOW REGULATOR MASTER SWITCH ASSY - POWER WINDOW REGULATOR MOTOR ASSY AND BODY GROUND)



- (a) Disconnect the P17 master switch connector.
- (b) Disconnect the P18 motor connector.
- (c) Measure the resistance of the wire harness side connectors.

Standard:

| Tester Connection | Specified Condition |
|--------------------------|---------------------|
| P17-9 (DD) - P18-1 (D) | Below 1 Ω |
| P17-4 (DU) - P18-2 (U) | Below 1 Ω |
| P17-9 (DD) - Body ground | 10 kΩ or higher |
| P17-4 (DU) - Body ground | 10 kΩ or higher |

NG REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

REPLACE POWER WINDOW REGULATOR MOTOR ASSY FRONT LH