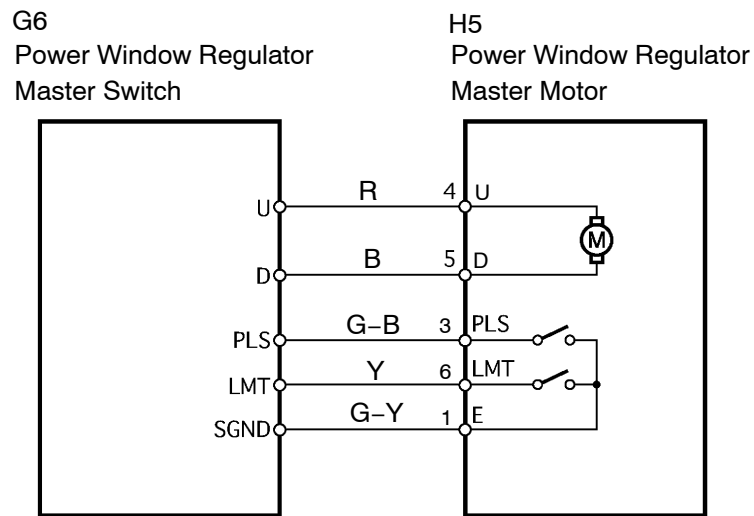


## AUTO UP / DOWN OPERATION OF DRIVER'S DOOR WINDOW IS IMPOSSIBLE (MANUAL OPERATION IS POSSIBLE)

### CIRCUIT DESCRIPTION

The power window regulator master switch assembly controls the driver's power window motor. If the pulse sensor and limit switch for detecting something being driven, the fail-safe function starts operating and the AUTO UP/DOWN operation will stop.

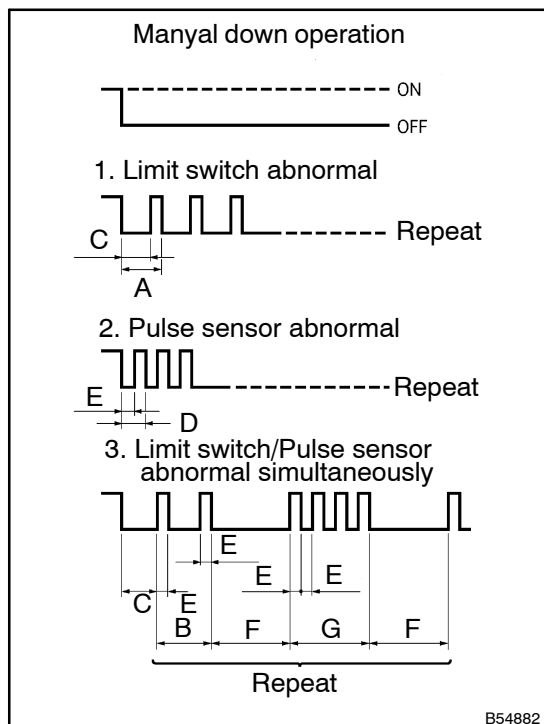
### WIRING DIAGRAM



B55027

## INSPECTION PROCEDURE

### 1 CHECK DTC OUTPUT



(a) Check the diagnosis output code.

HINT:

When a malfunction has occurred in the limit switch or the pulse sensor, make the driver's side window go down for 1 seconds or more manually, and then make the illumination of power window regulator master switch blink.

**Standard: No abnormal output**

HINT:

- NG – A means (blinks occurs in the 1 way)
- NG – B means (blinks in the 2 or 3 way)

**A: 2 seconds**

**B: 2.5 seconds**

**C: 1.5 seconds**

**D: 1 second**

**E: 0.5 seconds**

**F: 4 seconds**

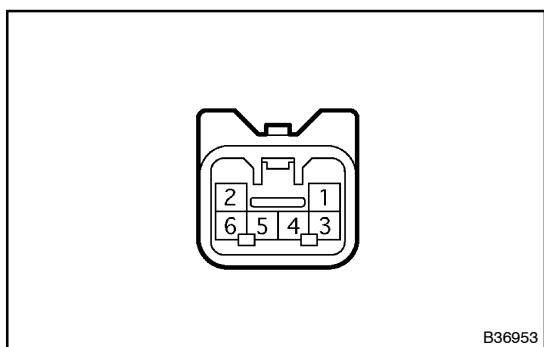
**G: 3.5 seconds**

**NG-B** Go to step 4

**OK** REPLACE POWER WINDOW REGULATOR MASTER SWITCH ASSY

**NG-A**

### 2 CHECK LIMIT SWITCH OF POWER WINDOW REGULATOR MOTOR



(a) Make the driver side power window regulator motor operate and set the door glass anywhere except the fully closed position, then disconnect the connector.

(b) Check the continuity between terminals 2 and 3 (RHD:1 and 6 ) of the driver side power window regulator motor.

**OK: Continuity**

(c) Make the driver side power window regulator motor operate and set the door glass in the fully closed position, then disconnect the connector.

(d) Check the continuity between terminals 2 and 3 (RHD:1 and 6) of the driver side power window regulator motor.

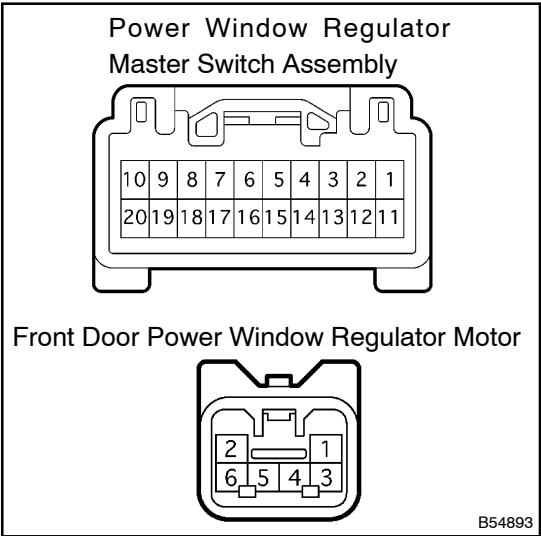
**OK: No continuity**

**NG** REPLACE POWER WINDOW REGULATOR MOTOR ASSY LH

**OK**

3

CHECK WIRE HARNESS



- (a) Disconnect the master switch assembly and power window regulator motor connector.
- (b) Check the continuity of each terminal of vehicle's side connector of master switch assembly.

Standard:

| Switch ⇄ Motor | Specified condition |
|----------------|---------------------|
| 15 ⇄ 6         | Continuity          |
| 5 ⇄ 2          | Continuity          |
| 13 ⇄ 3         | Continuity          |

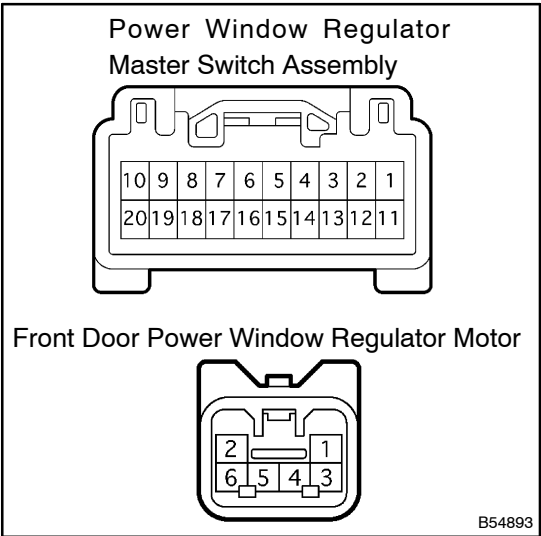
NG

REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

4

HARNESS AND CONNECTOR SHORT CIRCUIT INSPECTION



- (a) Disconnect the master switch assembly and power window regulator motor connectors.
- (b) Check the continuity between terminals 5, 13, 15 of the power window regulator master switch assembly vehicle's side connector and the body ground, and also terminals 1, 3, 6 of the driver side power regulator motor vehicle's side connector and the body ground.

Standard: No continuity

NG

REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

**5 CHECK POWER WINDOW REGULATOR MASTER SWITCH ASSY**

- (a) Connect the power window regulator motor connector.
- (b) Connect the connector to the normal power window regulator master switch assembly, and check if the AUTO UP and AUTO DOWN operate.

**NG****REPLACE POWER WINDOW REGULATOR  
MOTOR ASSY LH****OK****REPLACE POWER WINDOW REGULATOR MASTER SWITCH ASSY**