

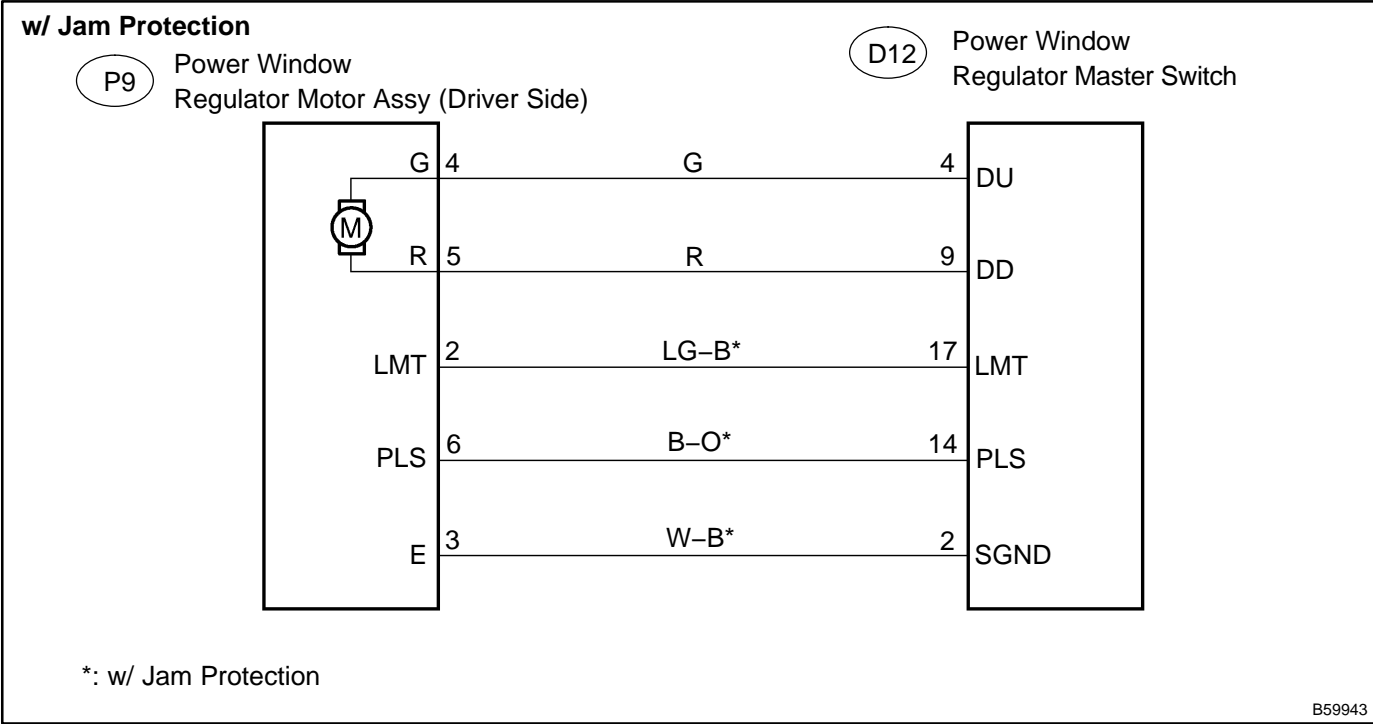
**AUTO UP / DOWN OPERATION OF DRIVER’S DOOR WINDOW IS IMPOSSIBLE (MANUAL OPERATION IS POSSIBLE)**

HINT:  
This circuit is only for the w/ jam protection models.

**CIRCUIT DESCRIPTION**

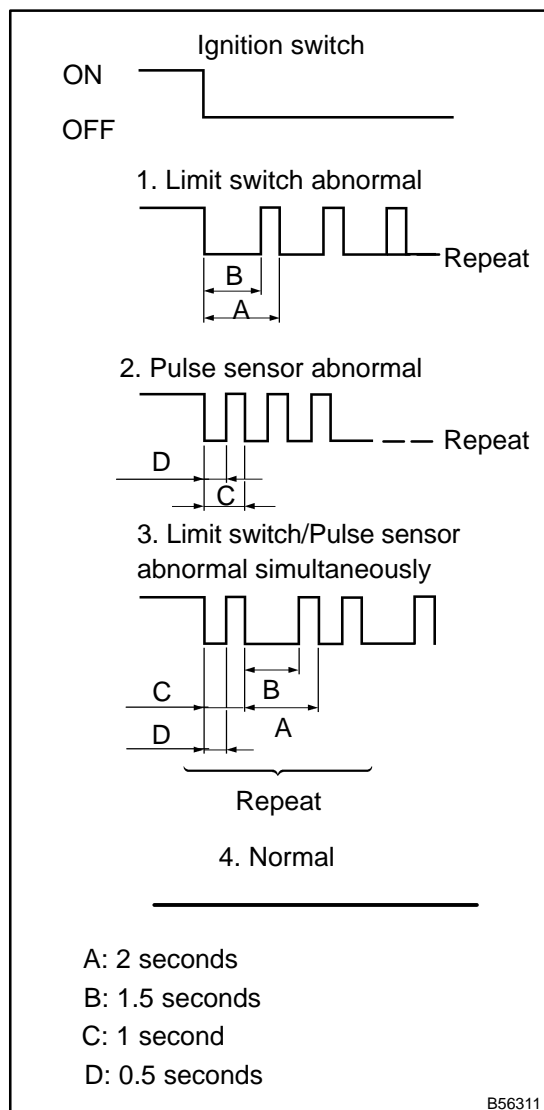
The power window regulator master switch assembly controls the driver's power window motor. If the pulse sensor and limit switch for detecting something being driven, the fail-safe function starts operating and the AUTO UP/DOWN operation will stop.

**WIRING DIAGRAM**



## INSPECTION PROCEDURE

### 1 CHECK DIAGNOSTIC CODE OUTPUT



(a) Check the diagnostic code.

HINT:

AUTO illumination starts blinking after the ignition switch is turned ON to OFF and stops in approximately 43 seconds or when the driver's door is once opened then closed (the conditions to operate the window automatically after key-off are satisfied).

- (1) Check whether the AUTO illumination for the power window regulator master switch blinks after the ignition switch is turned ON to OFF.

HINT:

- NG – A means that blinks in the 1 or 3 way.
- NG – B means that blinks occurs in the 2 way.

NG-B

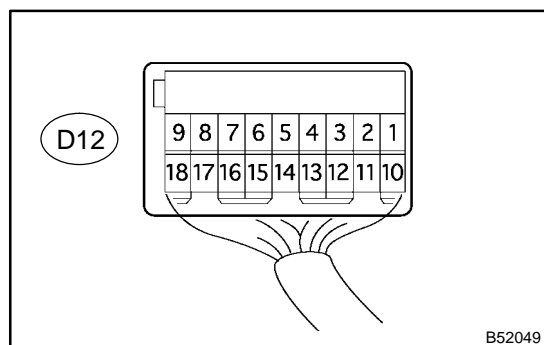
Go to step 4

OK

REPLACE POWER WINDOW REGULATOR MASTER SWITCH ASSY

NG-A

### 2 CHECK POWER WINDOW REGULATOR MASTER SWITCH ASSY



(a) Remove the power window regulator master switch (the power window regulator master switch connector is connected).

(b) Check the voltage between terminal SGND (2) and terminal LMT (17) of the D12 power window regulator master switch connector when the driver's door glass is not in the fully closed.

Voltage: 10 – 14 V

NG

REPLACE POWER WINDOW REGULATOR MASTER SWITCH ASSY

OK

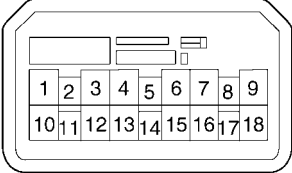
3

CHECK WIRE HARNESS

Wire Harness Side

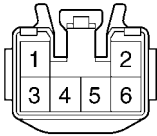
D12

Power Window Regulator Master Switch



P9

Power Window Regulator Motor



B52069

- (a)
- Disconnect the D12 power window regulator master switch connector.
- (b)
- Disconnect the P9 power window regulator motor connector.
- (c)
- Check the continuity between the disconnected connectors.

Standard:

Symbols (Terminal No.) [Switch ⇄ Motor]	Specified condition
LMT (D12-17) ⇄ LMT (P9-2)	Continuity

NG

REPLACE POWER WINDOW REGULATOR MOTOR ASSY LH

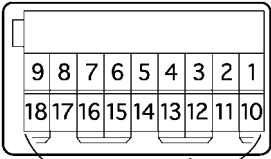
OK

REPLACE POWER WINDOW REGULATOR MOTOR ASSY LH

4

CHECK PULSE SENSOR OF POWER WINDOW REGULATOR MOTOR

D12



B52049

- (a)
- While the power window regulator motor is operating, check that the voltage between terminal SGND (2) and terminal PLS (14) of the D12 power window regulator master switch connector.

Voltage: Output waveforms of pulse

NG

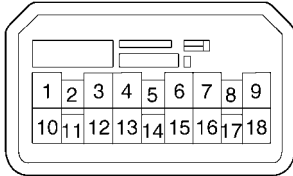
OK

REPLACE POWER WINDOW REGULATOR MASTER SWITCH ASSY

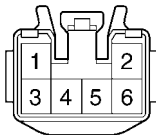
5 CHECK WIRE HARNESS

Wire Harness Side

D12 Power Window  
Regulator Master Switch



P9 Power Window Regulator Motor



B52069

- (a) Disconnect the D12 power window regulator master switch connector.
- (b) Disconnect the P9 power window regulator motor connector.
- (c) Check the continuity between the disconnected connectors.

Standard:

Symbols (Terminal No.) [Switch ⇔ Motor]	Specified condition
LMT (D12-17) ⇔ LMT (P9-2)	Continuity
PLS (D12-14) ⇔ PLS (P9-6)	Continuity
SGND (D12-2) ⇔ E (P9-3)	Continuity

NG

REPAIR OR REPLACE WIRE HARNESS AND  
CONNECTOR

OK

REPLACE POWER WINDOW REGULATOR MOTOR ASSY LH