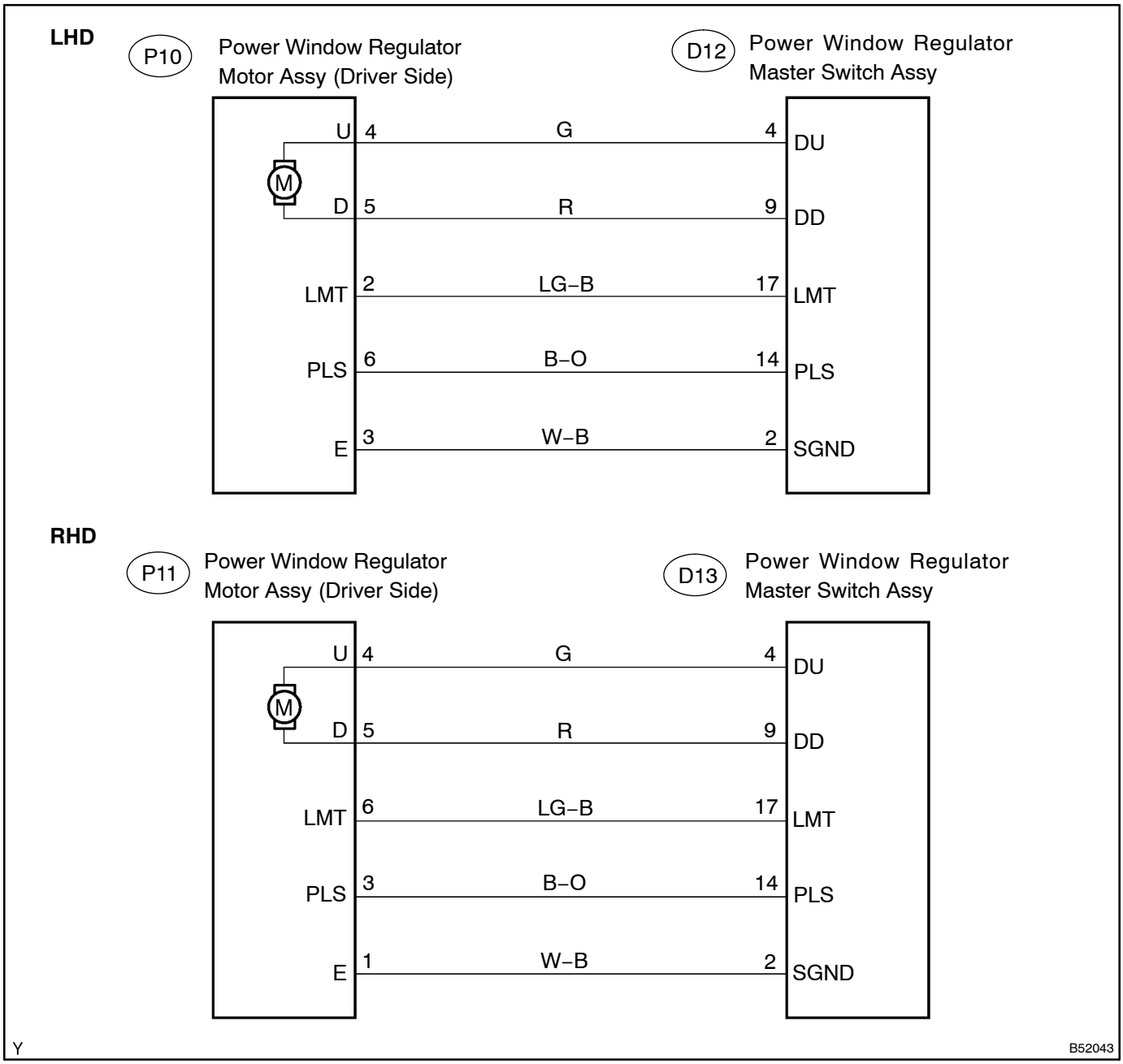
# AUTO UP / DOWN OPERATION OF DRIVER'S DOOR WINDOW IS IMPOSSIBLE (MANUAL OPERATION IS POSSIBLE)

HINT:
In the LHD vehicle, work in the same procedure as in the RHD vehicle.

## CIRCUIT DESCRIPTION

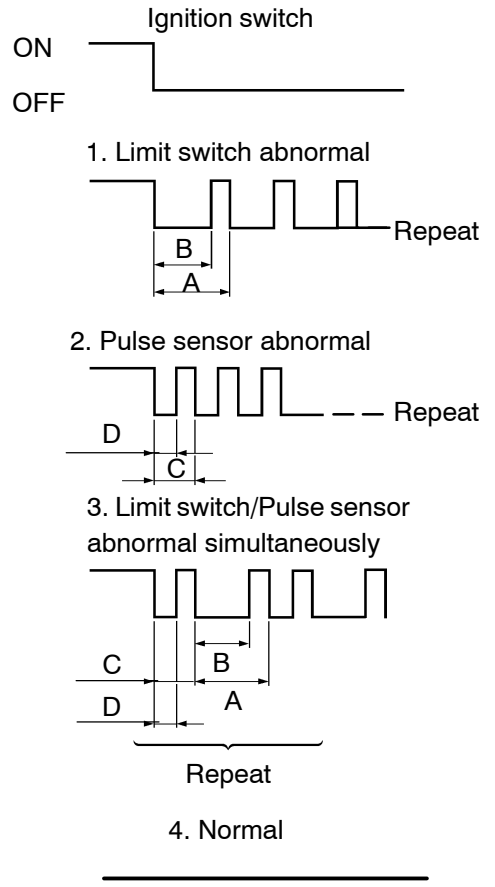
The power window regulator master switch assembly controls the driver's power window motor. If the pulse sensor and limit switch for detecting something being driven, the fail–safe function starts operating and the AUTO UP/DOWN operation will stop.

## 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.

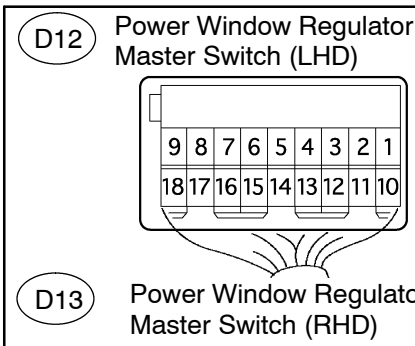
HINT:

- 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 (LHD) or D13 (RHD) 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** |

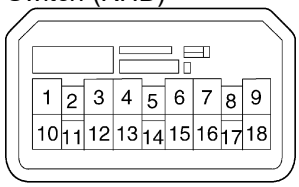
**OK**

## 3 CHECK WIRE HARNESS

**Wire Harness Side**

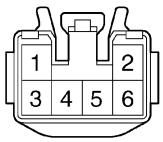
D12 Power Window Regulator Master Switch (LHD)

D13 Power Window Regulator Master Switch (RHD)




P10 Power Window Regulator Motor (LHD)

P11 Power Window Regulator Motor (RHD)




B52069

(a) Disconnect the D12 (LHD) or D13 (RHD) power window regulator master switch connector.

(b) Disconnect the P10 (LHD) or P11 (RHD) power window regulator motor connector.

(c) Check the continuity between the disconnect connector.

**Standard (LHD):**

| Symbols (Terminal No.) (Switch ⇔ Motor) | Specified condition |
|---|---|
| LMT ⇔ LMT (D12–17 ⇔ P10–2) | Continuity |

**Standard (RHD):**

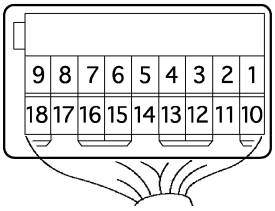
| Symbols (Terminal No.) (Switch ⇔ Motor) | Specified condition |
|---|---|
| LMT ⇔ LMT (D13–17 ⇔ P11–6) | Continuity |

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

**OK** → **REPLACE POWER WINDOW REGULATOR MOTOR ASSY RH**

## 4 CHECK PULSE SENSOR OF POWER WINDOW REGULATOR MOTOR

D12 Power Window Regulator Master Switch (LHD)




D13 Power Window Regulator Master Switch (RHD)

B59955

(a) While the power window regulator motor is operating, check that the voltage between terminal SGND (2) and terminal PLS (14) of the D12 (LHD) or D13 (RHD)master switch connector.

**Voltage: Output waveforms of pulse**

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

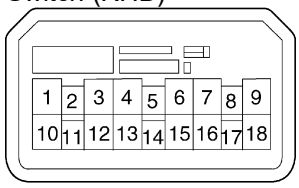
**NG**

## 5 CHECK WIRE HARNESS

**Wire Harness Side**

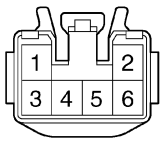
D12 Power Window Regulator Master Switch (LHD)

D13 Power Window Regulator Master Switch (RHD)




P10 Power Window Regulator Motor (LHD)

P11 Power Window Regulator Motor (RHD)




B52069

(a) Disconnect the D12 (LHD) or D13 (RHD) power window regulator master switch connector.

(b) Disconnect the P10 (LHD) or P11 (RHD) power window regulator motor connector.

(c) Check the continuity between the disconnect connector.

**Standard (LHD):**

| Symbols (Terminal No.) (Switch ⇔ Motor) | Specified condition |
|---|---|
| LMT ⇔ LMT (D12–17 ⇔ P10–2) | Continuity |
| PLS ⇔ PLS (D12–17 ⇔ P10–6) | Continuity |
| SGND ⇔ E(D12–17 ⇔ P10–3) | Continuity |

**Standard (RHD):**

| Symbols (Terminal No.) (Switch ⇔ Motor) | Specified condition |
|---|---|
| LMT ⇔ LMT (D13–17 ⇔ P11–6) | Continuity |
| PLS ⇔ PLS (D13–17 ⇔ P11–3) | Continuity |
| SGND ⇔ E (1D13–7 ⇔ P11–1) | Continuity |

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

**OK**

**REPLACE POWER WINDOW REGULATOR MOTOR ASSY RH**