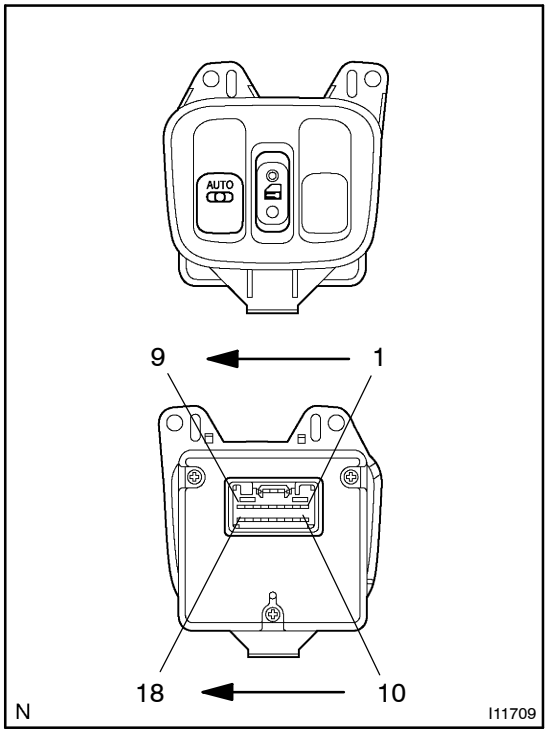
BE1EV–01

# INSPECTION




**1. LHD:**
**INSPECT POWER WINDOW MASTER SWITCH CONTINUITY**

**Driver's switch:**

| Switch position | Tester connection | Specified condition |
|---|---|---|
| UP AUTO | 2 – 9, 17 – 18 | Continuity |
| UP | 2 – 9, 17 – 18 | Continuity |
| OFF | 9 – 17, 17 – 18 | Continuity |
| DOWN | 2 – 18, 9 – 17 | Continuity |
| DOWN AUTO | 2 – 18, 9 – 17 | Continuity |

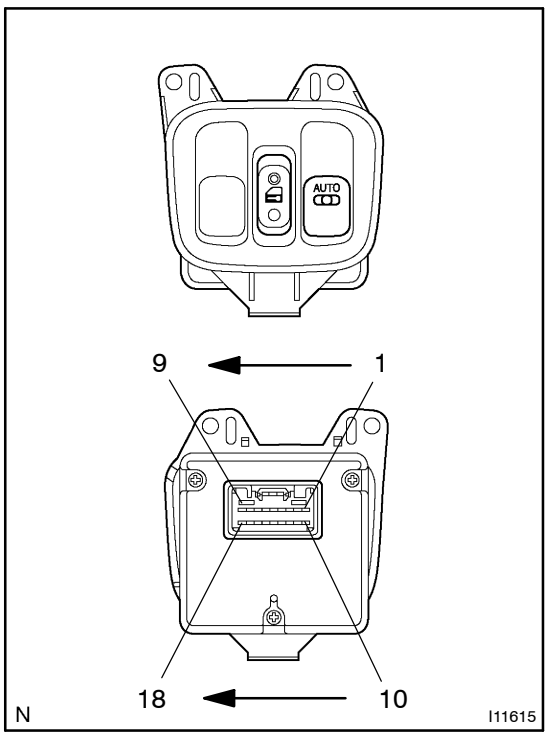
**Passenger's switch (Window unlock):**

| Switch position | Tester connection | Specified condition |
|---|---|---|
| UP | 1 – 11, 10 – 17 | Continuity |
| OFF | 1 – 17, 10 – 17 | Continuity |
| DOWN | 10 – 11, 1 – 17 | Continuity |

**Passenger's switch (Window lock):**

| Switch position | Tester connection | Specified condition |
|---|---|---|
| UP | 1 – 11 | Continuity |
| OFF | 1 – 10 | Continuity |
| DOWN | 10 – 11 | Continuity |

If continuity is not as specified, replace the switch.




**2. RHD:**
**INSPECT POWER WINDOW MASTER SWITCH CONTINUITY**

**Driver's switch:**

| Switch position | Tester connection | Specified condition |
|---|---|---|
| UP AUTO | 2 – 9, 17 – 18 | Continuity |
| UP | 2 – 9, 17 – 18 | Continuity |
| OFF | 9 – 17, 17 – 18 | Continuity |
| DOWN | 2 – 18, 9 – 17 | Continuity |
| DOWN AUTO | 2 – 18, 9 – 17 | Continuity |

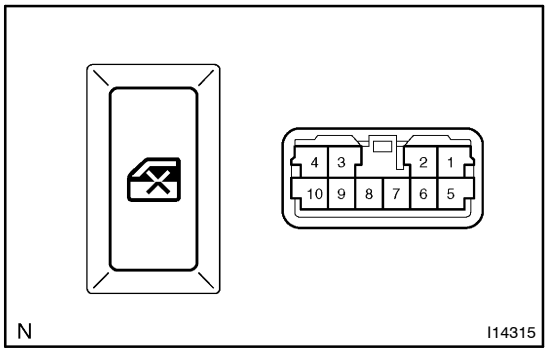
**Passenger's switch (Window unlock):**

| Switch position | Tester connection | Specified condition |
|---|---|---|
| UP | 1 – 11, 10 – 17 | Continuity |
| OFF | 1 – 17, 10 – 17 | Continuity |
| DOWN | 10 – 11, 1 – 17 | Continuity |

**Passenger's switch (Window lock):**

| Switch position | Tester connection | Specified condition |
|---|---|---|
| UP | 1 – 11 | Continuity |
| OFF | 1 – 10 | Continuity |
| DOWN | 10 – 11 | Continuity |

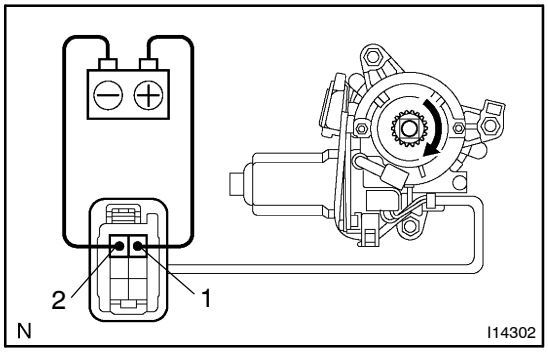
If continuity is not as specified, replace the switch.




**3. INSPECT POWER WINDOW LOCK SWITCH CONTINUITY**

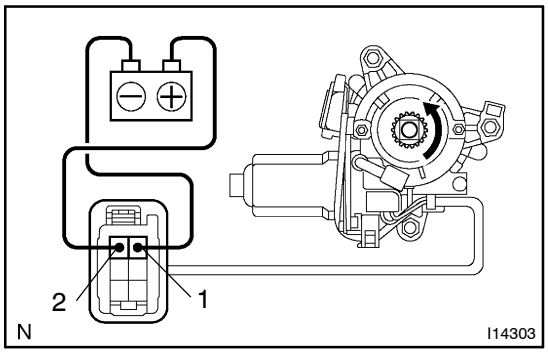
| Switch position | Tester connection | Specified condition |
|---|---|---|
| LOCK | 7 – 8 | Continuity |
| OFF | 7 – 10 | Continuity |

If continuity is not as specified, replace the switch.




**4. LHD Model Driver's door:**
**INSPECT POWER WINDOW MOTOR OPERATION**

(a) Connect the positive (+) lead from the battery to terminal 1 and the negative (–) lead to terminal 2, check that the motor turns clockwise.

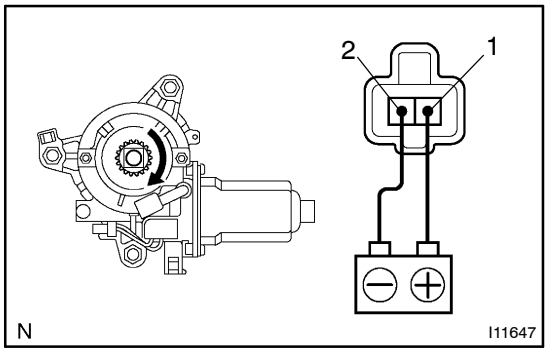



(b) Reverse the polarity, check that the motor turns counterclockwise.

If operation is not as specified, replace the motor.

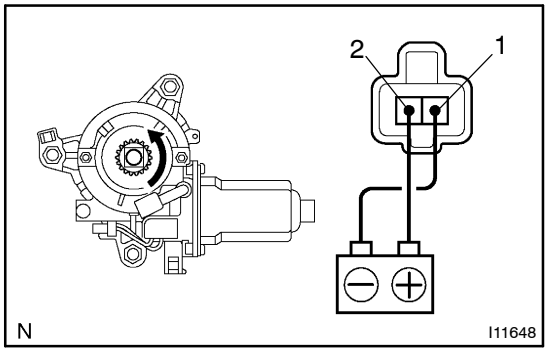
**NOTICE:**

**Since the jam protection may not work properly be sure to conduct procedures described in "HOW TO RESET POWER MOTOR (RESET AND PULSE SWITCH)" after this inspection.**




**5. LHD Model Passenger's door:**
**INSPECT POWER WINDOW MOTOR OPERATION**

(a) Connect the positive (+) lead from the battery to terminal 1 and the negative (–) lead to terminal 2, check that the motor turns clockwise.

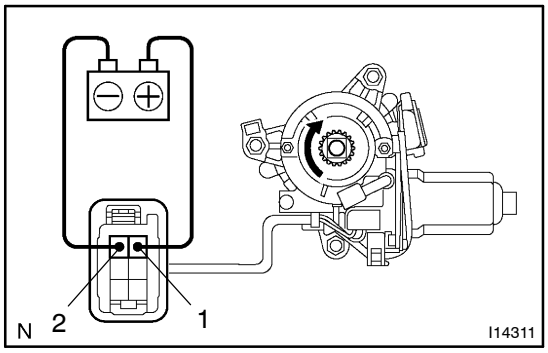



(b) Reverse the polarity, check that the motor turns counterclockwise.

If operation is not as specified, replace the motor.

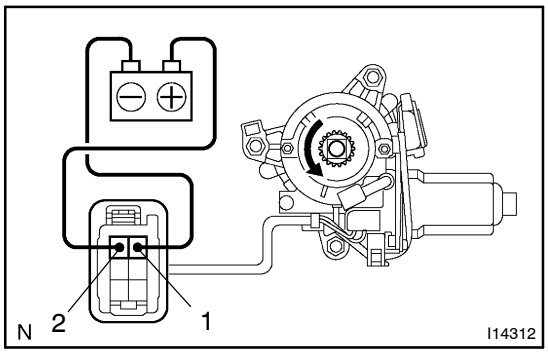
**NOTICE:**

**Since the jam protection may not work properly be sure to conduct procedures described in "HOW TO RESET POWER MOTOR (RESET AND PULSE SWITCH)" after this inspection.**




**6. RHD Model Driver's door:**
**INSPECT POWER WINDOW MOTOR OPERATION**

(a) Connect the positive (+) lead from the battery to terminal 1 and the negative (–) lead to terminal 2, check that the motor turns clockwise.

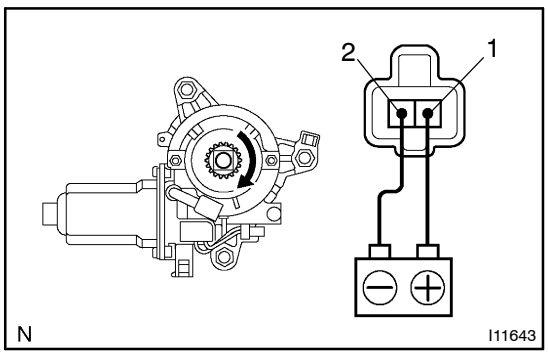



(b) Reverse the polarity, check that the motor turns counterclockwise.

If operation is not as specified, replace the motor.

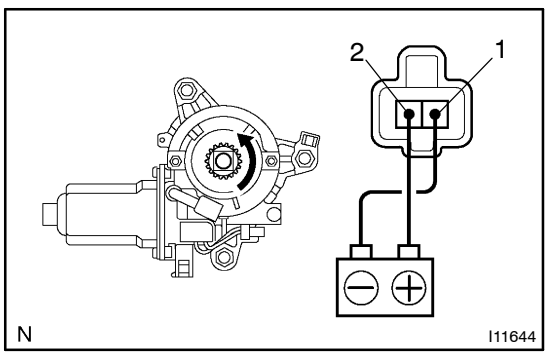
**NOTICE:**

**Since the jam protection may not work properly be sure to conduct procedures described in "HOW TO RESET POWER MOTOR (RESET AND PULSE SWITCH)" after this inspection.**




**7. RHD Model Passenger's door:**
**INSPECT POWER WINDOW MOTOR OPERATION**

(a) Connect the positive (+) lead from the battery to terminal 1 and the negative (–) lead to terminal 2, check that the motor turns clockwise.

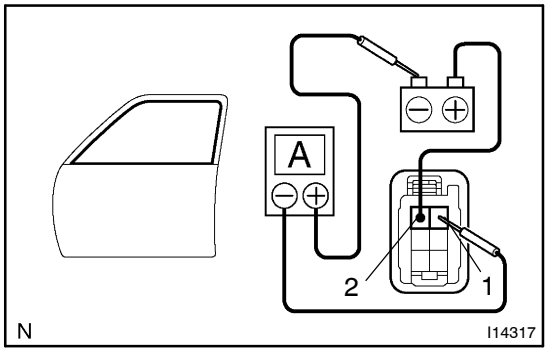


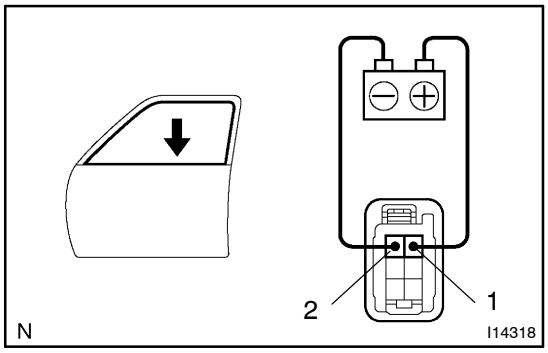

(b) Reverse the polarity, check that the motor turns counterclockwise.

If operation is not as specified, replace the motor.

**NOTICE:**

**Since the jam protection may not work properly be sure to conduct procedures described in "HOW TO RESET POWER MOTOR (RESET AND PULSE SWITCH)" after this inspection.**

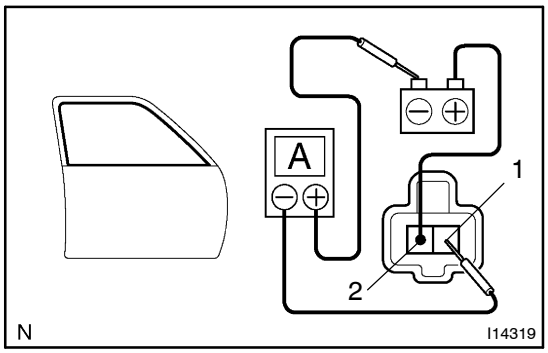


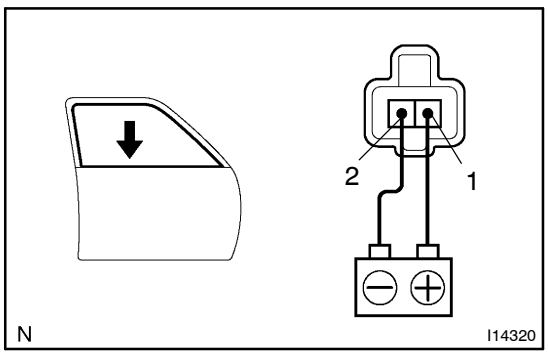




**8. Driver's door:**
**INSPECT PTC OPERATION**

(a) Disconnect the connector from the window motor.
(b) Connect the positive (+) lead from the ammeter to terminal 1 of the wire harness side connector and the negative (–) lead to negative terminal of the battery.
(c) Connect the positive (+) lead from the battery to terminal 2 of the wire harness side connector, and raise the window to the fully closed position.
(d) Continue to apply voltage, check that the current changes from approximately 14 A to less than 1 A within 4 to 90 seconds.
(e) Disconnect the leads from terminals.
(f) Approximately 90 seconds later, connect the positive (+) lead from the battery to terminal 1 and negative (–) lead to terminal 2, check that the window begins to descend.

If operation is not as specified, replace the motor.




**9. Passenger's door:**
**INSPECT PTC OPERATION**

(a) Disconnect the connector from the power window switch.
(b) Connect the positive (+) lead from the ammeter to terminal 1 of the wire harness side connector and the negative (–) lead to negative terminal of the battery.
(c) Connect the positive (+) lead from the battery to terminal 2 of the wire harness side connector, and raise the window to the fully closed position.
(d) Continue to apply voltage, check that the current changes from approximately 14 A to less than 1 A within 4 to 90 seconds.
(e) Disconnect the leads from terminals.
(f) Approximately 90 seconds later, connect the positive (+) lead from the battery to terminal 1 and the negative (–) lead to terminal 2, check that the window begins to descend.

If operation is not as specified, replace the motor.

**10. INSPECT JAM PROTECTION FUNCTION**

**NOTICE:**

**Never, ever be caught any part of your body when checking.**

HINT:

In case of performing resetting of the limit switch, do checking after repeating up and down of the glass with automatic operation.

(a) Confirmation of AUTO up operation:
Confirm that the window will be fully close with AUTO up operation.

(b) Checking of the operation of the jam protection function:
(1) Move up the window with AUTO up operation and check that the window will go down when it touches the handle of the hammer stetted.
(2) Confirm that the window will then stop going down about 200 mm.

HINT:

In case of removing the glass, glass guide, regulator and etc. be sure to perform checking of the jam protection function.