N16034

BE04E–01

INSPECTION
1. INSPECT POWER WINDOW MASTER SWITCH CONTINUITY
Driver's switch(Window unlock):

Switch position	Tester connection	Specified condition
UP	3 – 9, 4 – 6	Continuity
OFF	3 – 4 – 6	Continuity
DOWN	3 – 6, 4 – 9	Continuity

Driver's switch(Window lock):

Switch position	Tester connection	Specified condition
UP	3 – 9, 4 – 6	Continuity
OFF	3 – 4 – 6	Continuity
DOWN	3 – 6, 4 – 9	Continuity

Passenger's switch(Window unlock):

Switch position	Tester connection	Specified condition
UP	6 – 7, 9 – 10	Continuity
OFF	6 – 7 – 10	Continuity
DOWN	7 – 9, 6 – 10	Continuity

Passenger's switch(Window lock):

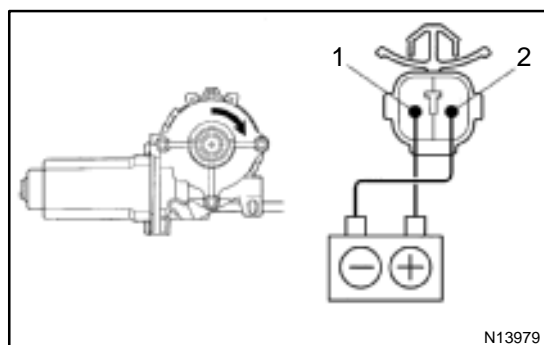| Switch position	Tester connection	Specified condition
UP	9 – 10	Continuity
OFF	7 – 10	Continuity
DOWN	7 – 9	Continuity

If continuity is not as specified, replace the switch.

N16260

2. INSPECT POWER WINDOW SWITCH CONTINUITY

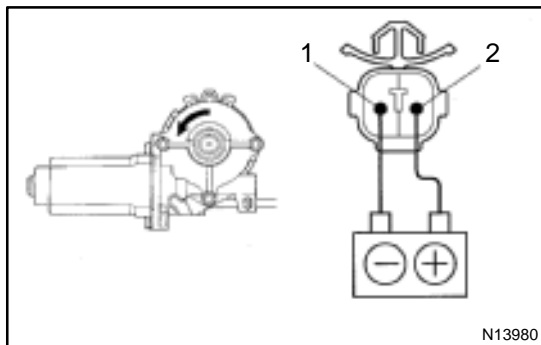| Switch position	Tester connection	Specified condition
UP	1 – 2, 3 – 4	Continuity
OFF	1 – 2, 3 – 5	Continuity
DOWN	3 – 5, 1 – 4	Continuity

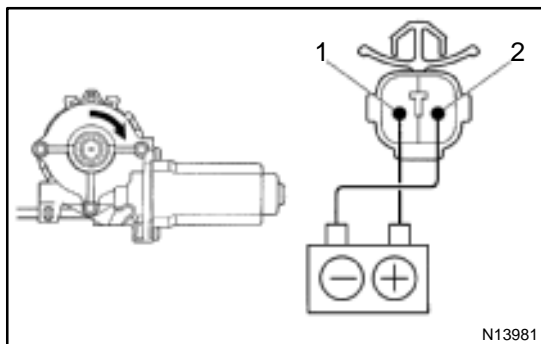If continuity is not as specified, replace the switch.

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3. Driver's Side:
INSPECT POWER WINDOW MOTOR OPERATION
(a) Connect the positive (+) lead from the battery to terminal 1 and negative (–) lead to terminal 2. Check that the motor turns clockwise.

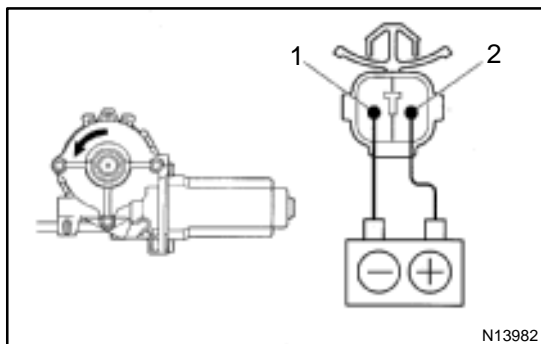(b) Reverse the polarity, check that the motor turns counterclockwise.

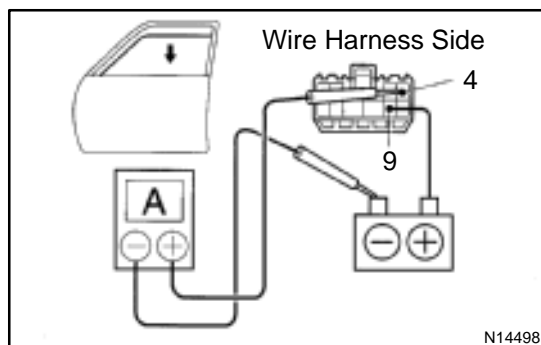If operation is not as specified, replace the motor.

4. Passenger's Side:
INSPECT POWER WINDOW MOTOR OPERATION

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

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

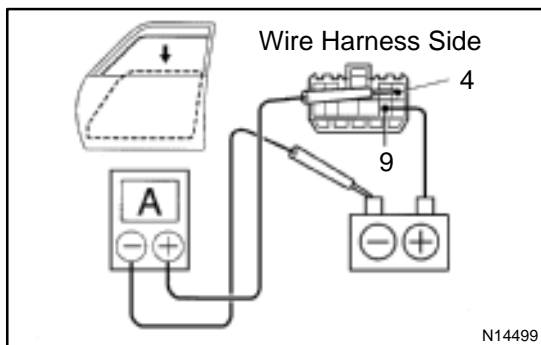If operation is not as specified, replace the motor.

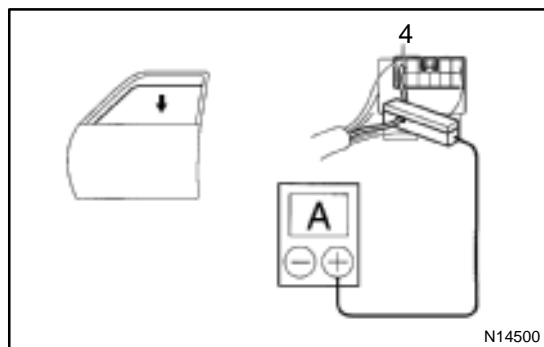**5. Using an ammeter:**
INSPECT ONE TOUCH POWER WINDOW SYSTEM

(a) Disconnect the connector of the master switch.

(b) Connect the positive (+) lead from the ammeter to terminal 4 on 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 9 on the wire harness side connector.

(d) As the window goes down, check that the current increases to approximately 7.0 A.

(e) Check that the current increases to approximately 14.5 A or more when the window stops going down.

HINT:

The circuit breaker opens for some 4 – 40 seconds after the window stops going down, so that the check must be done before the circuit breaker operates.
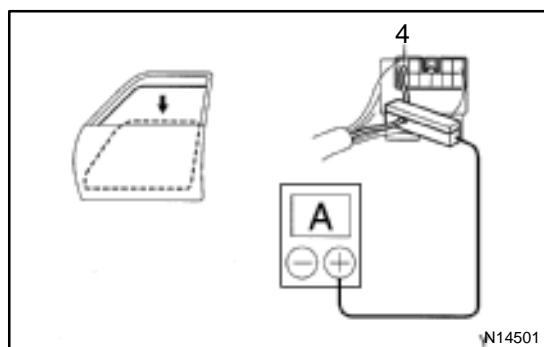
If the operation is as specified, replace the master switch.

6. Using an ammeter with a current – measuring probe: INSPECT ONE TOUCH POWER WINDOW SYSTEM
(a) Remove the master switch with the connector connected.
(b) Attach a current–measuring probe to terminal 3 of the wire harness.
(c) Turn the ignition switch ON and set the power window switch in the down position.
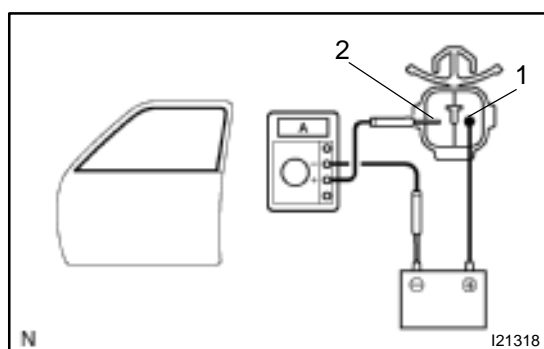(d) As the window goes down, check that the current increases to approximately 7.0 A.

(e) Check that the current increases to approximately 14.5 A or more when the window stops going down.
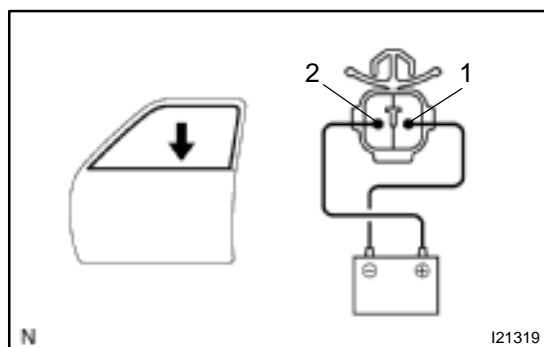HINT:
The circuit breaker opens for some 4 – 40 seconds after the window stops going down, so that the check must be done before the circuit breaker operates.
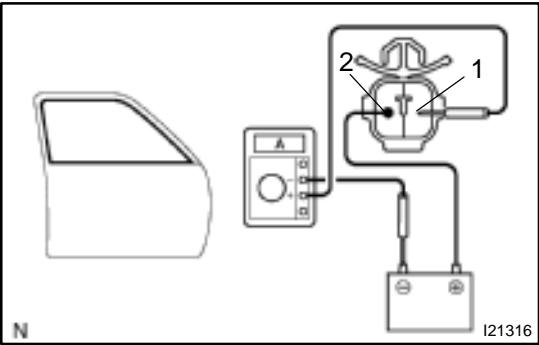If operation is as specified, replace the master switch.

7. Driver's door: INSPECT POWER WINDOW MOTOR PTC THERMISTOR OPERATION
(a) Disconnect the connector from the power window motor.
(b) Connect the positive (+) lead from the ammeter to terminal 2 on 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 1 on the wire harness side connector, and raise the window to the fully position.
(d) Continue to apply voltage, and check that the current changes to less than 1 A with 4 to 90 seconds.
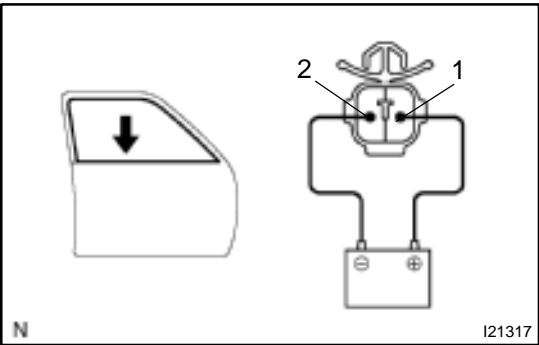
(e) Disconnect the leads from terminals.
(f) Approximately 60 seconds later, connect the positive (+) lead from the battery to terminal 2 and negative (–) lead to terminal 1, and check that the window begins to descended.
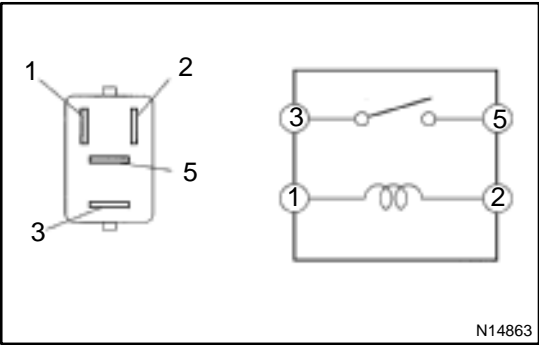If operation is not as specified, replace the motor.

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8. Passenger's door:
INSPECT POWER WINDOW MOTOR PTC THERM-ISTOR OPERATION

(a) Disconnect the connector from the power window motor.

(b) Connect the positive (+) lead from the ammeter to terminal 1 on 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 on the wire harness side connector, and raise the window to the fully position.

(d) Continue to apply voltage and check that the current changes to less than 1 A within 4 to 90 seconds.

(e) Disconnect the leads from the terminals.

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(f) Approximately 60 seconds later, connect the positive (+) lead from the battery to terminal 1 and the negative (–) lead to terminal 2, and check that the window begins to descend.

If operation is not as specified, replace the motor.

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9. INSPECT POWER MAIN RELAY CONTINUITY

Condition	Tester connection	Specified condition
Constant	1 – 2	Continuity
Apply B+ between terminals 1 and 2.	3 – 5	Continuity

If continuity is not as specified, replace the relay.

10. INSPECT DOOR LOCK RELAY (See page BE–52)