

INSPECTION

1. INSPECT POWER WINDOW MASTER SWITCH CONTINUITY

Driver's Switch

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

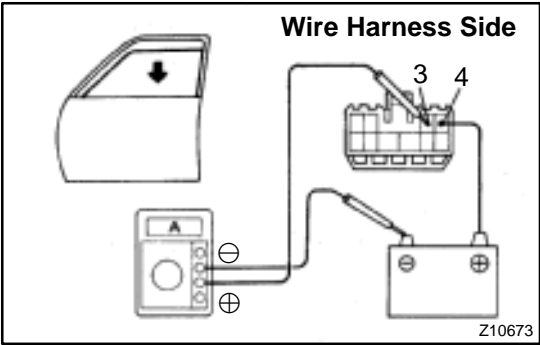
Passenger's Switch: Window unlock

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

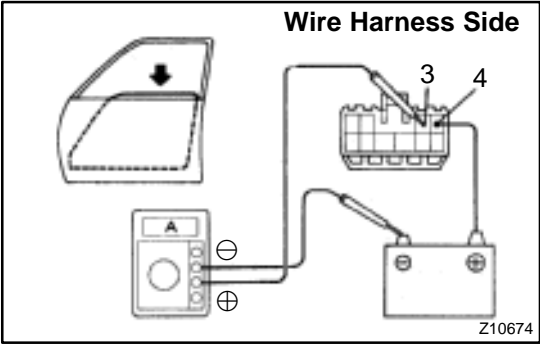
If continuity is not as specified, replace the switch.



2. Using an ammeter:

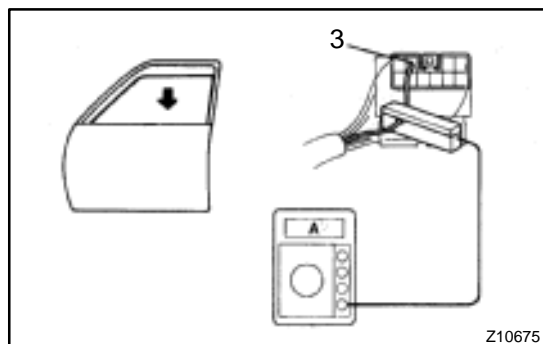
INSPECT ONE TOUCH POWER WINDOW SYSTEM

- Disconnect the connector from the master switch.
- Connect the positive (+) lead from the ammeter to terminal 3 on the wire harness side connector and the negative (-) lead to the negative (-) terminal of the battery.
- Connect the positive (+) lead from the battery to terminal 4 on the wire harness side connector.



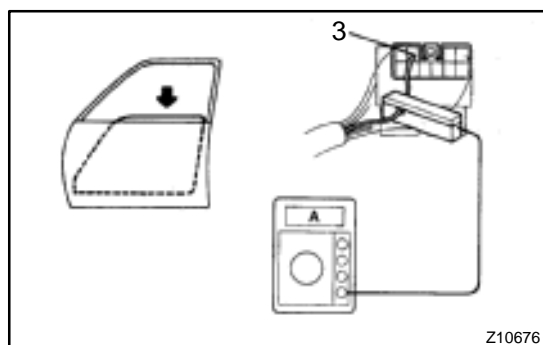
- As the window goes down, check that the current is approximately 7 A.
- Check that the current increases up to approximately 14.5 A or more when the window stops going down.

HINT:
The circuit breaker opens some 4 - 40 seconds after the window stops going down, so that check must be made before the circuit breaker operates.
If operation is not as specified, replace the master switch.



3. Using an ammeter with a current-measuring probe: INSPECT ONE TOUCH POWER WINDOW SYSTEM

- Remove the master switch with connector connected.
- Attach a current-measuring probe to terminal 3 of the wire harness.
- Turn the ignition switch ON, and set the power window switch in the down position.

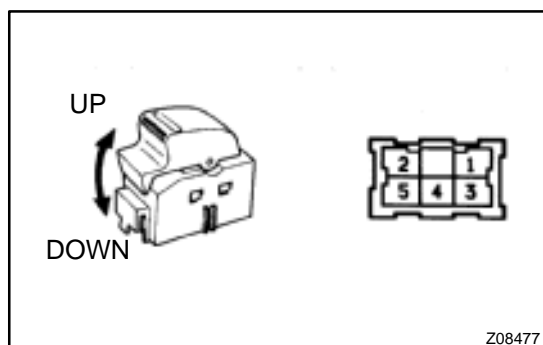


- As the window goes down, check that the current is approximately 7 A.
- Check that the current increases up to approximately 14.5 A or more when the window stops going down.

HINT:

The circuit breaker opens some 4 – 40 seconds after the window stops going down, so that check must be made before the circuit breaker operates.

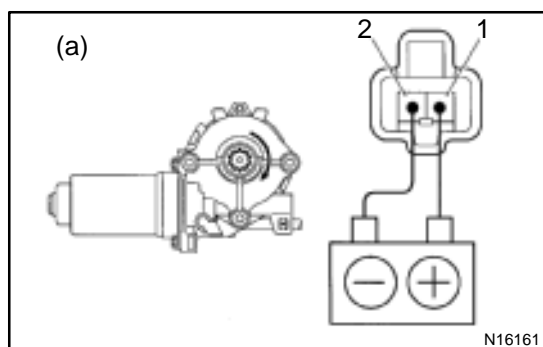
If operation is not as specified, replace the master switch.



4. INSPECT POWER WINDOW SWITCH CONTINUITY

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

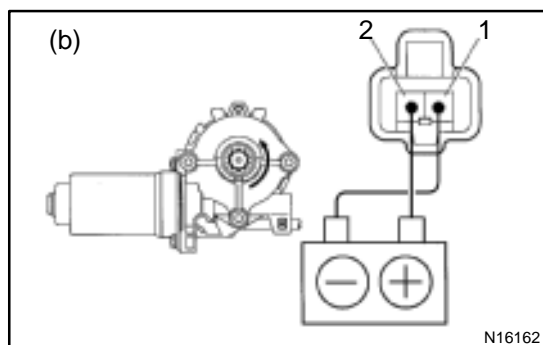
If continuity is not as specified, replace the switch.



5. Driver's Door:

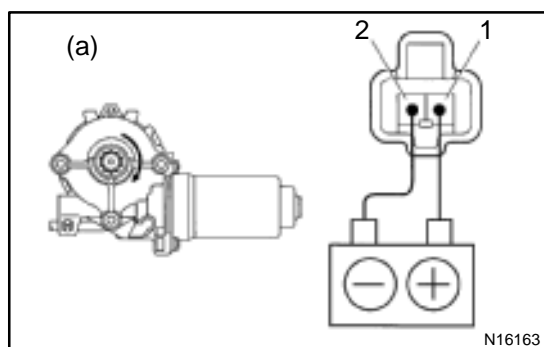
INSPECT POWER WINDOW MOTOR OPERATION

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



- Reverse the polarity, and check that the motor turns counterclockwise.

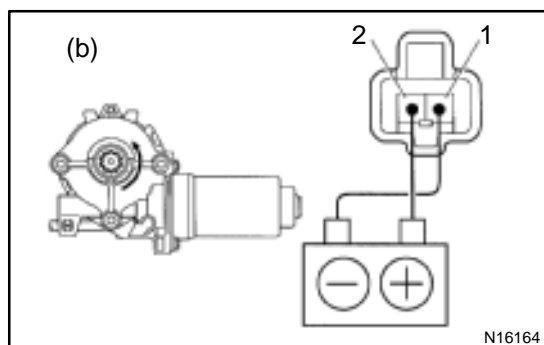
If operation is not as specified, replace the motor.



6. Passenger's Door:

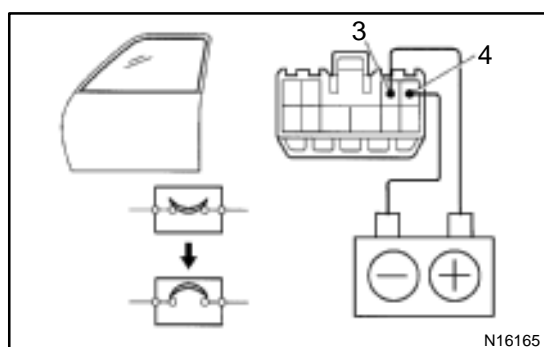
INSPECT POWER WINDOW MOTOR OPERATION

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



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

If operation is not as specified, replace the motor.

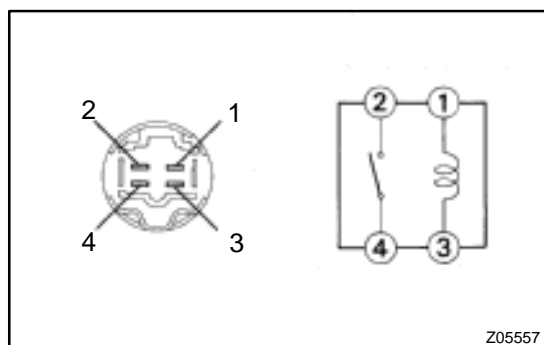
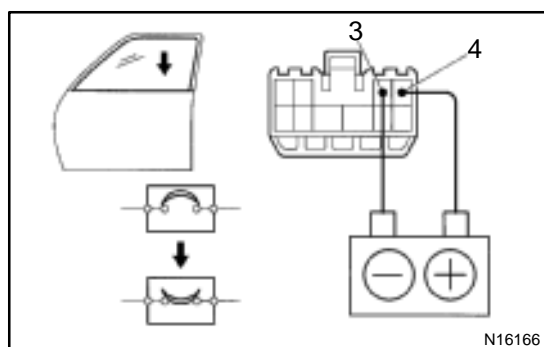


7. Driver's Door:

INSPECT CIRCUIT BREAKER OPERATION

- (a) Disconnect the connector from the power window switch.
 (b) Connect the positive (+) lead from the battery to terminal 3 and the negative (–) lead to terminal 4 on the wire harness side connector, and raise the window to full closed position.
 (c) Continue to apply voltage, and check that the current changes from approximately 14 A to less than 1 A within 4 to 90 seconds.
 (d) Disconnect the leads from terminals.
 (e) Approximately 90 seconds later, connect the positive (+) lead from the battery to terminal 4 and negative (–) lead to terminal 3, and check that the window begins to descend.

If operation is not as specified, replace the motor.



8. INSPECT POWER MAIN RELAY CONTINUITY

Condition	Tester connection	Specified condition
Constant	1 – 3	Continuity
Apply B+ between terminals 1 and 3.	2 – 4	Continuity

If continuity is not as specified, replace the relay.