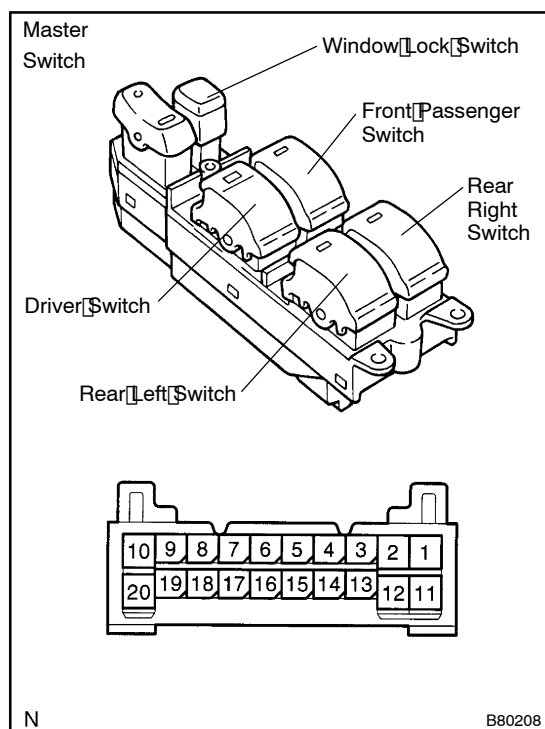


# INSPECTION



## 1. INSPECT POWER WINDOW REGULATOR MASTER SWITCH ASSY

- Remove the master switch (see page 75-17).
- Measure the resistance between the terminals of the connector when the switch is operated.

### Standard:

#### Driver Switch

Switch Condition	Tester Connection	Specified Condition
AUTO UP	6 - 16 6 - 20	Below 1 $\Omega$
UP	6 - 20	Below 1 $\Omega$
OFF	-	-
DOWN	6 - 11	Below 1 $\Omega$
AUTO DOWN	6 - 11 6 - 16	Below 1 $\Omega$

#### Passenger Switch

Switch Condition	Tester Connection	Specified Condition
AUTO UP	3 - 14 3 - 15	Below 1 $\Omega$
UP	3 - 14	Below 1 $\Omega$
OFF	-	-
DOWN	3 - 13	Below 1 $\Omega$
AUTO DOWN	3 - 13 3 - 15	Below 1 $\Omega$

#### Rear LH Switch

Switch Condition	Tester Connection	Specified Condition
AUTO UP	5 - 14 5 - 15	Below 1 $\Omega$
UP	5 - 14	Below 1 $\Omega$
OFF	-	-
DOWN	5 - 13	Below 1 $\Omega$
AUTO DOWN	5 - 13 5 - 15	Below 1 $\Omega$

#### Rear RH Switch

Switch Condition	Tester Connection	Specified Condition
AUTO UP	4 - 14 4 - 15	Below 1 $\Omega$
UP	4 - 14	Below 1 $\Omega$
OFF	-	-
DOWN	4 - 13	Below 1 $\Omega$
AUTO DOWN	4 - 13 4 - 15	Below 1 $\Omega$

## (c) Check the window lock switch.

**Standard:**

Window Lock Switch Condition	Measurement Condition	Specified Condition
UNLOCK	Battery positive (+) → Terminal 8 Battery negative (-) → Terminal 0	All 4 switches light up
LOCK	Battery positive (+) → Terminal 8 Battery negative (-) → Terminal 0	Driver door window switch lights up

If the result is not as specified, replace the master switch Assy.

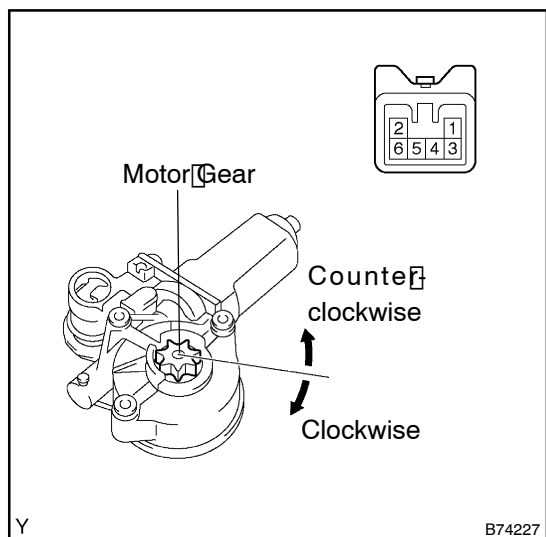
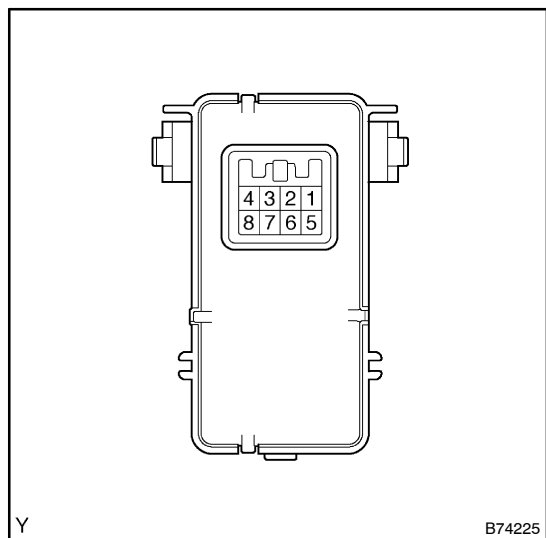
**2. INSPECT POWER WINDOW REGULATOR SWITCH ASSY**

- (a) Remove the regulator switch (see page 75-17).  
 (b) Measure the resistance between the terminals of the connector when the switch is operated.

**Standard:**

Switch Condition	Tester Connection	Specified Condition
AUTO UP	3 - 8 1 - 8	Below 1 Ω
UP	1 - 8	Below 1 Ω
OFF	-	-
DOWN	6 - 8	Below 1 Ω
AUTO DOWN	3 - 8 6 - 8	Below 1 Ω

If the result is not as specified, replace the regulator switch Assy.

**3. INSPECT POWER WINDOW REGULATOR MOTOR ASSY (DRIVER SIDE)**

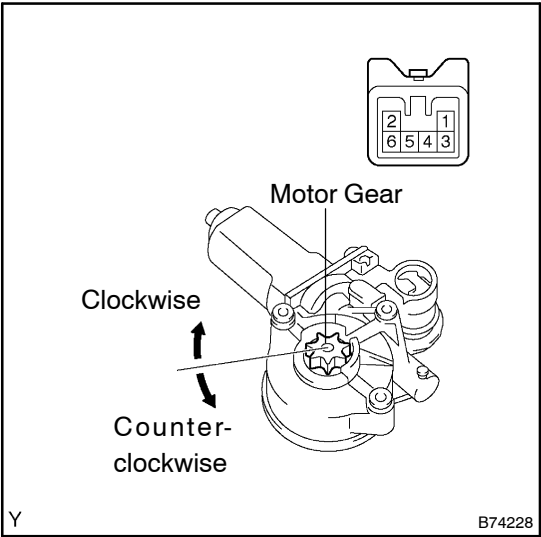
- (a) Check operation of the regulator motor.  
 (1) Remove the power window regulator motor (see page 75-17).  
 (2) Apply battery voltage to the motor terminals.  
 (3) Check that the motor operates smoothly.

**NOTICE:**

**Do not apply voltage to the terminals except 4 and 5.**

**OK:****LHD models**

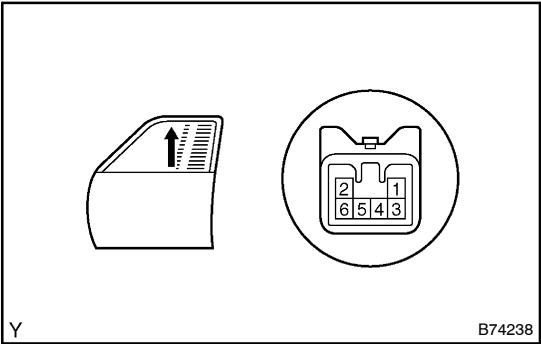
Measurement Condition	Specified Condition
Battery positive (+) → Terminal 5 Battery negative (-) → Terminal 4	Motor gear rotates clockwise
Battery positive (+) → Terminal 4 Battery negative (-) → Terminal 5	Motor gear rotates counterclockwise



**RHD models**

Measurement Condition	Specified Condition
Battery positive (+) → Terminal 4 Battery negative (-) → Terminal 5	Motor gear rotates clockwise
Battery positive (+) → Terminal 5 Battery negative (-) → Terminal 4	Motor gear rotates counterclockwise

(b) Check the PTC operation inside the regulator motor.

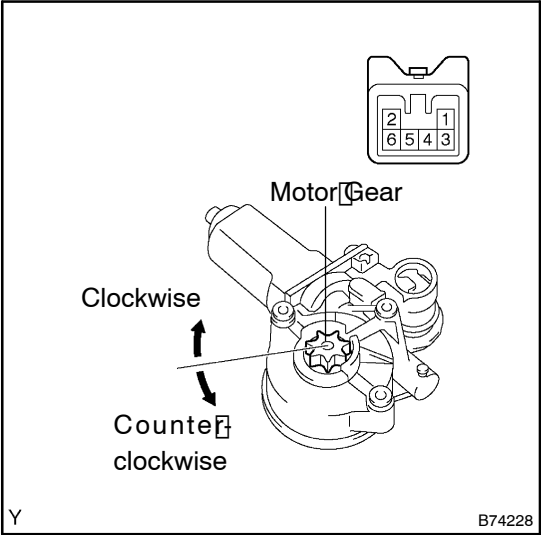


**NOTICE:**

**The work must be performed with the power window regulator and door glass installed in the vehicle.**

- (1) Disconnect the driver side power window regulator motor.
- (2) Connect the ammeter's positive (+) lead to terminal 2 of the wire harness side connector and the negative (-) lead to the battery's negative terminal.
- (3) Connect the battery's positive (+) lead to terminal 1 of the wire harness side connector, and raise the window to the fully closed position.
- (4) Continue to apply voltage, and check that the current changes to less than 1 A within 4 to 90 seconds.
- (5) Disconnect the leads from the terminals.
- (6) Approximately 60 seconds later, connect the battery's positive (+) lead to terminal 2 and the negative (-) lead to terminal 1. Check that the window begins to descend.

If the result is not as specified, replace the motor assy.



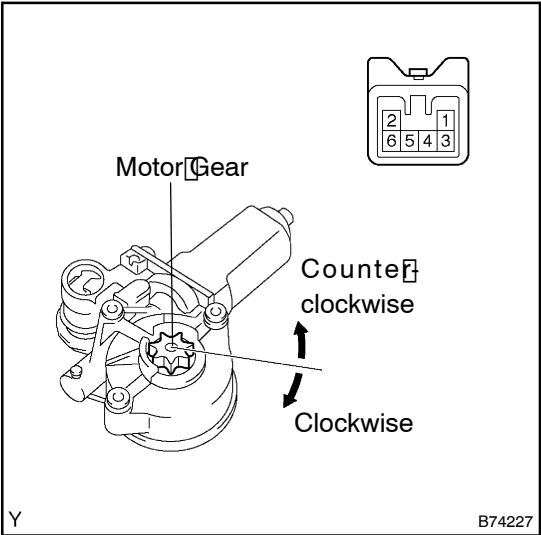
**4. INSPECT POWER WINDOW REGULATOR MOTOR ASSY (PASSENGER SIDE)**

- (a) Check operation of the regulator motor.
- (1) Remove the power window regulator motor (see page 75-17).
  - (2) Apply battery voltage to the motor terminals.
  - (3) Check that the motor operates smoothly.

**NOTICE:**  
**Do not apply voltage to the terminals except 4 and 5.**  
**OK:**

**LHD models**

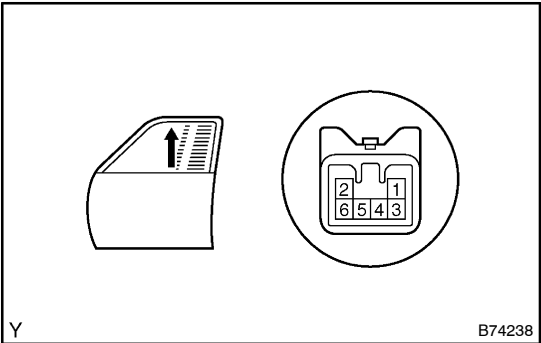
Measurement Condition	Specified Condition
Battery positive (+) → Terminal 4 Battery negative (-) → Terminal 5	Motor gear rotates clockwise
Battery positive (+) → Terminal 5 Battery negative (-) → Terminal 4	Motor gear rotates counterclockwise



**RHD models**

Measurement Condition	Specified Condition
Battery positive (+) → Terminal 5 Battery negative (-) → Terminal 4	Motor gear rotates clockwise
Battery positive (+) → Terminal 4 Battery negative (-) → Terminal 5	Motor gear rotates counterclockwise

- (b) Check the PTC operation inside the regulator motor.



**NOTICE:**  
**The work must be performed with the power window regulator and door glass installed in the vehicle.**

- (1) Disconnect the passenger side power window regulator motor.
- (2) Connect the ammeter's positive (+) lead to terminal 2 of the wire harness side connector and the negative (-) lead to the battery's negative terminal.

- (3) Connect the battery's positive (+) lead to terminal 1 of the wire harness side connector, and raise the window to the fully closed position.
- (4) Continue to apply voltage, and check that the current changes to less than 1 A within 4 to 90 seconds.
- (5) Disconnect the leads from the terminals.
- (6) Approximately 60 seconds later, connect the battery's positive (+) lead to terminal 2 and the negative (-) lead to terminal 1. Check that the window begins to descend.

If the result is not as specified, replace the motor assy.

**5. INSPECT POWER WINDOW REGULATOR MOTOR ASSY (REAR LH)**

- (a) Check operation of the regulator motor.
  - (1) Remove the power window regulator motor (see page 75-32).
  - (2) Apply battery voltage to the motor terminals.
  - (3) Check that the motor operates smoothly.

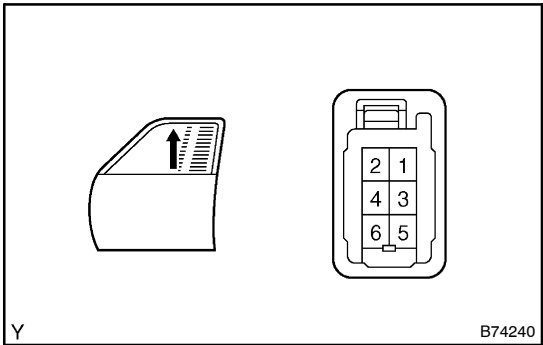
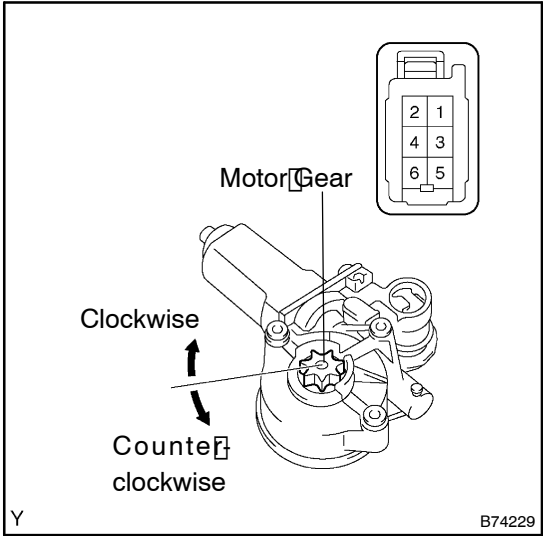
**NOTICE:**

**Do not apply voltage to the terminals except 1 and 2.**

**OK:**

Measurement Condition	Specified Condition
Battery positive (+) → Terminal 1 Battery negative (-) → Terminal 2	Motor gear rotates clockwise
Battery positive (+) → Terminal 2 Battery negative (-) → Terminal 1	Motor gear rotates counterclockwise

- (b) Check the PTC operation inside the regulator motor.

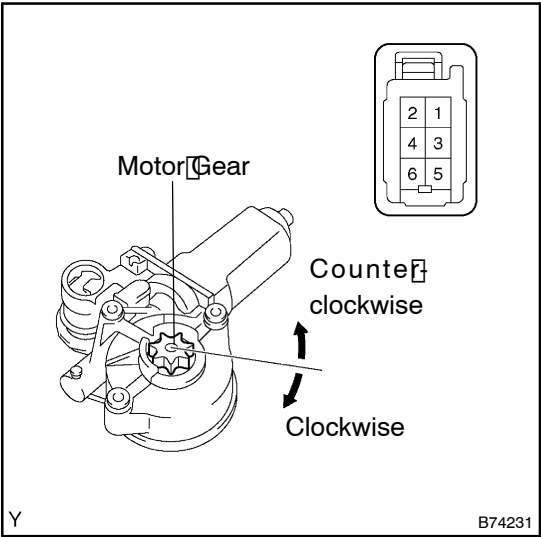


**NOTICE:**

**The work must be performed with the power window regulator and door glass installed in the vehicle.**

- (1) Disconnect the rear LH side power window regulator motor.
- (2) Connect the ammeter's positive (+) lead to terminal 2 of the wire harness side connector and the negative (-) lead to the battery's negative terminal.
- (3) Connect the battery's positive (+) lead to terminal 1 of the wire harness side connector, and raise the window to the fully closed position.
- (4) Continue to apply voltage, and check that the current changes to less than 1 A within 4 to 90 seconds.
- (5) Disconnect the leads from the terminals.
- (6) Approximately 60 seconds later, connect the battery's positive (+) lead to terminal 2 and the negative (-) lead to terminal 1. Check that the window begins to descend.

If the result is not as specified, replace the motor assy.



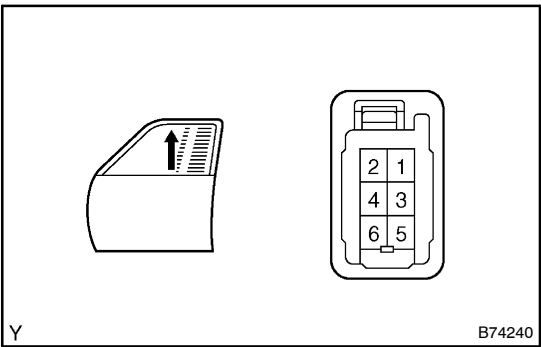
**6. INSPECT POWER WINDOW REGULATOR MOTOR ASSY (REAR RH)**

- (a) Check operation of the regulator motor.
- (1) Remove the power window regulator motor (see page 75-17).
  - (2) Apply battery voltage to the motor terminals.
  - (3) Check that the motor operates smoothly.

**NOTICE:**  
**Do not apply voltage to the terminals except 1 and 2.**  
**OK:**

Measurement Condition	Specified Condition
Battery positive (+) → Terminal 2 Battery negative (-) → Terminal 1	Motor gear rotates clockwise
Battery positive (+) → Terminal 1 Battery negative (-) → Terminal 2	Motor gear rotates counterclockwise

- (b) Check the PTC operation inside the regulator motor.



**NOTICE:**  
**The work must be performed with the power window regulator and door glass installed in the vehicle.**

- (1) Disconnect the rear RH side power window regulator motor.
- (2) Connect the ammeter's positive (+) lead to terminal 2 of the wire harness side connector and the negative (-) lead to the battery's negative terminal.
- (3) Connect the battery's positive (+) lead to terminal 1 of the wire harness side connector, and raise the window to the fully closed position.
- (4) Continue to apply voltage, and check that the current changes to less than 1 A within 4 to 90 seconds.
- (5) Disconnect the leads from the terminals.
- (6) Approximately 60 seconds later, connect the battery's positive (+) lead to terminal 2 and the negative (-) lead to terminal 1. Check that the window begins to descend.

If the result is not as specified, replace the motor assy.