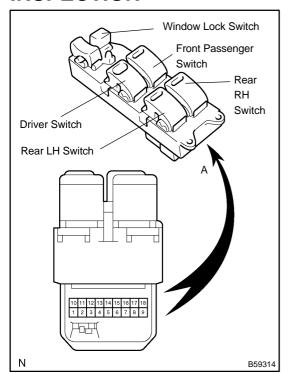
05J1R-01

### **INSPECTION**



# 1. INSPECT POWER WINDOW REGULATOR MASTER SWITCH ASSY

- (a) Remove the master switch (see page 75–9).
- (b) Measure the resistance between the terminals of the connector when the switch is operated.

# Standard: Driver switch

Window Lock Switch Condition	Power Window Switch Condition	Tester Connection	Specified Condition
Constant (ON/OFF)	UP	1 – 9 4 – 7	Below 1 Ω
Constant (ON/OFF)	AUTO UP	1 – 9 4 – 7	Below 1 Ω
Constant (ON/OFF)	OFF	1 – 4 1 – 9	Below 1 Ω
Constant (ON/OFF)	DOWN	1 – 4 7 – 9	Below 1 Ω
Constant (ON/OFF)	AUTO DOWN	1 – 4 7 – 9	Below 1 Ω

### Passenger switch

Window Lock Switch Condition	Power Window Switch Condition	Tester Connection	Specified Condition
OFF	UP	1 – 15 6 – 13	Below 1 Ω
OFF	OFF	1 – 13 1 – 15	Below 1 Ω
OFF	DOWN	1 – 13 6 – 15	Below 1 Ω
ON	UP	1 – 15 6 – 13	10 k $\Omega$ or higher Below 1 $\Omega$
ON	OFF	13 – 15	Below 1 Ω
ON	DOWN	1 – 13 6 – 15	10 k $\Omega$ or higher Below 1 $\Omega$

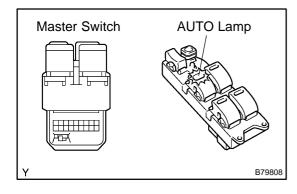
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### Rear LH switch

Window Lock Switch Condition	Power Window Switch Condition	Tester Connection	Specified Condition
OFF	UP	1 – 10 6 – 12	Below 1 Ω
OFF	OFF	1 – 12 1 – 10	Below 1 Ω
OFF	DOWN	1 – 12 6 – 10	Below 1 Ω
ON	UP	1 – 10 6 – 12	10 k $\Omega$ or higher Below 1 $\Omega$
ON	OFF	12 – 10	Below 1 Ω
ON	DOWN	1 – 12 6 – 10	10 k $\Omega$ or higher Below 1 $\Omega$

### Rear RH switch

Window Lock Switch Condition	Power Window Switch Condition	Tester Connection	Specified Condition
OFF	UP	1 – 16 6 – 18	Below 1 Ω
OFF	OFF	1 – 18 1 – 16	Below 1 Ω
OFF	DOWN	1 – 18 6 – 16	Below 1 Ω
ON	UP	1 – 16 6 – 18	10 k $\Omega$ or higher Below 1 $\Omega$
ON	OFF	18 – 16	Below 1 Ω
ON	DOWN	1 – 18 6 – 16	10 k $\Omega$ or higher Below 1 $\Omega$



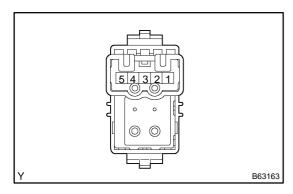
### Check the AUTO lamp master switch. (c)

### Standard:

Measurement Condition	Specified Condition
Battery positive (+) → Terminal 11 Battery negative (-) → Terminal 1	AUTO lamp illuminates

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

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## 2. INSPECT POWER WINDOW REGULATOR SWITCH ASSY

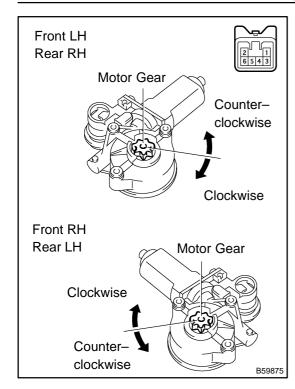
- (a) Remove the power window regulator switch (see page 75–9).
- (b) Measure the resistance between the terminals of the connector when the switch is operated.

### Standard:

Switch Condition	Tester Connection	Specified Condition
UP	1 – 2 3 – 4	Below 1 Ω
OFF	1 – 2 3 – 5	Below 1 Ω
DOWN	1 – 4 3 – 5	Below 1 Ω

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

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## 3. INSPECT POWER WINDOW REGULATOR MOTOR ASSY

- (a) Check motor operation of the regulator motor. HINT:
- The front LH and rear RH regulator motors should be inspected using the same procedure.
- The front RH and rear LH regulator motors should be inspected using the same procedure.
  - (1) Remove the power window regulator motor (see page 75–9).
  - (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:

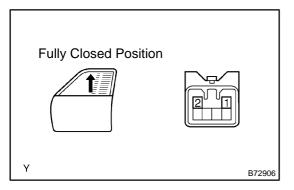
#### Front LH and rear RH

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

#### Front RH and rear LH

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

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



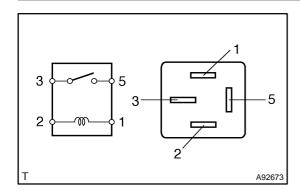
(b) Check the PTC operation inside the regulator motor. **NOTICE:** 

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 battery's negative terminal.
- (3) Connect the battery's positive (+) lead to terminal 1 of the wire harness side connector, and raise that window to the fully closed position.
- (4) Continue to apply voltage, and check that the current changes to less than 1A 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, and check that the window begins to lower.

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

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### 4. INSPECT RELAY (IG1)

- (a) Remove the IG1 relay from the instrument panel J/B.
- (b) Measure the resistance.

#### Standard:

Tester Connection	Specified Condition
3–5	10 k $\Omega$ or higher
3–5	Below 1 $\Omega$ (when battery voltage is applied to terminals 1 and 2)

If the result is not as specified, replace the relay.

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