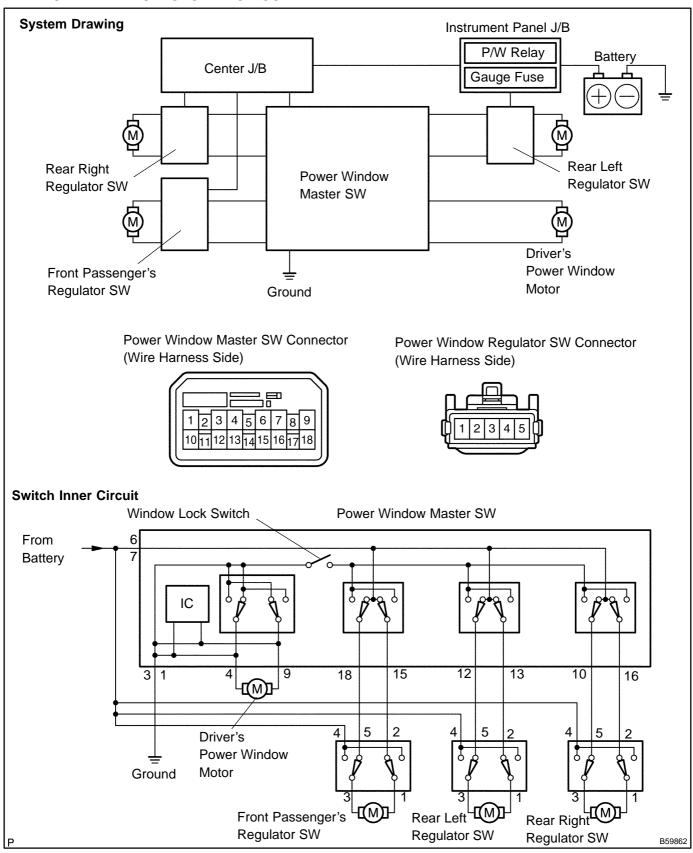
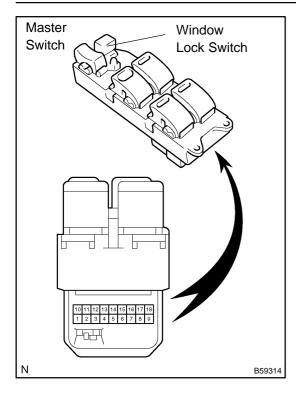
700GM-01

INSPECTION

1. POWER WINDOW SYSTEM CIRCUIT





2. INSPECT POWER WINDOW REGULATOR MASTER SWITCH ASSY

(a) Inspect the master switch continuity.

[Driver's switch (Window unlock and lock)]

Standard:

Switch position	Symbols (Terminal No.)	Specified condition
Ш	DU (4) ⇔ B (6) ⇔ B (7)	Continuity
UP	E (1) ⇔ E (3) ⇔ DD (9)	
055	E (1) ⇔ E (3) ⇔ DU (4)	Operationality
OFF	E (1) ⇔ E (3) ⇔ DD (9)	Continuity
DOWN	E (1) ⇔ E (3) ⇔ DU (4)	Operationality
	B (6) ⇔ B (7) ⇔ DD (9)	Continuity
AUTO DOWN	E (1) ⇔ E (3) ⇔ DU (4)	Continuity
	B (6) ⇔ B (7) ⇔ DD (9)	Continuity

[Front passenger's switch (Window unlock)] Standard:

Switch position	Symbols (Terminal No.)	Specified condition
110	E (1) ⇔ E (3) ⇔ PD (15)	O and the other
UP	B (6) ⇔ B (7) ⇔ PU (18)	Continuity
055	E (1) ⇔ E (3) ⇔ PD (15)	0 11 11
OFF	E (1) ⇔ E (3) ⇔ PU (18)	Continuity
DOWN	E (1) ⇔ E (3) ⇔ PU (18)	Continuity
DOWN	B (6) ⇔ B (7) ⇔ PD (15)	Continuity

[Front passenger's switch (Window lock)] Standard:

	Switch position	Symbols (Terminal No.)	Specified condition
Ī	UP	B (6) ⇔ B (7) ⇔ PU (18)	Continuity
	OFF	PD (15) ⇔ PU (18)	Continuity
	DOWN	B (6) ⇔ B (7) ⇔ PD (15)	Continuity

[Rear left switch (Window unlock)] Standard:

Switch position	Symbols (Terminal No.)	Specified condition
LID	E (1) ⇔ E (3) ⇔ RLD (13)	Operflority
UP	B (6) ⇔ B (7) ⇔ RLU (12)	Continuity
055	E (1) ⇔ E (3) ⇔ RLD (13)	0 " "
OFF	E (1) ⇔ E (3) ⇔ RLU (12)	Continuity
DOWN	E (1) ⇔ E (3) ⇔ RLU (12)	Continuity
DOWN	B (6) ⇔ B (7) ⇔ RLD (13)	Continuity

[Rear left switch (Window lock)] Standard:

Switch position	Symbols (Terminal No.)	Specified condition
UP	$B(6) \Leftrightarrow B(7) \Leftrightarrow RLU(12)$	Continuity
OFF	RLU (12) ⇔ RLD (13)	Continuity
DOWN	$B(6) \Leftrightarrow B(7) \Leftrightarrow RLD(13)$	Continuity

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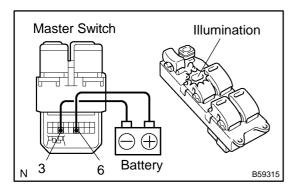
[Rear right switch (Window unlock)] Standard:

Switch position	Symbols (Terminal No.)	Specified condition
	B (6) ⇔ B (7) ⇔ RRU (10)	
UP	E (1) ⇔ E (3) ⇔ RRD (16)	Continuity
OFF	E (1) ⇔ E (3) ⇔ RRU (10)	O and another
	E (1) ⇔ E (3) ⇔ RRD (16)	Continuity
DOWN	E (1) ⇔ E (3) ⇔ RRU (10)	Continuity
	B (6) ⇔ B (7) ⇔ RRD (16)	Continuity

[Rear right switch (Window lock)] Standard:

Switch position	Symbols (Terminal No.)	Specified condition
UP	B (6) ⇔ B (7) ⇔ RRU (10)	Continuity
OFF	RRU (10) ⇔ RRD (16)	Continuity
DOWN	B (6) ⇔ B (7) ⇔ RRD (16)	Continuity

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

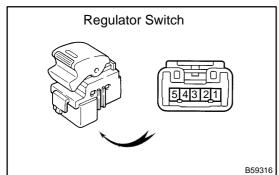


(b) Inspect the master switch illumination.

Standard:

Measuring condition	Specified condition
Battery positive (+) Terminal – 6 Battery negative (–) Terminal – 3	Switch illumination lights up

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



3. INSPECT POWER WINDOW REGULATOR SWITCH ASSY

HINT:

All the regulator switches (front passenger's, rear left, rear right) should be inspected in the same procedure.

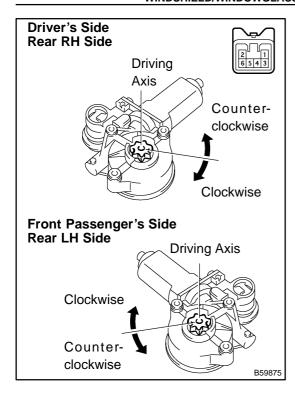
(a) Inspect the regulator switch continuity.

Standard:

Switch position	Symbols (Terminal No.)	Specified condition
110	D (1) ⇔ SD (2)	Open the wife of
UP	U (3) ⇔ B (4)	Continuity
055	D (1) ⇔ SD (2)	0 " "
OFF	U (3) ⇔ SU (5)	Continuity
DOWN	D (1) ⇔ B (4)	Continuity
	U (3) ⇔ SU (5)	Continuity

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

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4. INSPECT POWER WINDOW REGULATOR MOTOR

(a) Inspect the regulator motor operation.

HINT:

- Driver's side and rear RH regulator motors should be inspected in the same procedure.
- Passenger's side and rear LH regulator motors should be inspected in the same procedure.
 - (1) Check that the motor operates smoothly when the battery positive voltage is applied to each terminal of the connector.

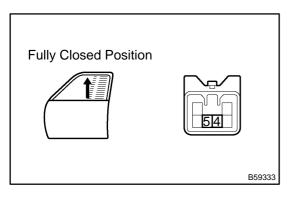
Standard [Driver's side and rear RH side]:

Measuring condition	Operational direction
Battery positive (+) Terminal – 4 Battery negative (–) Terminal – 5	Clockwise toward driving axis
Battery positive (+) Terminal – 5 Battery negative (–) Terminal – 4	Counterclockwise toward driving axis

Standard [Front passenger's side and rear LH side]:

Measuring condition	Operational direction
Battery positive (+) Terminal – 5 Battery negative (–) Terminal – 4	Clockwise toward driving axis
Battery positive (+) Terminal – 4 Battery negative (–) Terminal – 5	Counterclockwise toward driving axis

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



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

NOTICE:

The inspection should be performed with the power window regulator and door glass installed to the vehicle.

(1) Set a DC 400 A probe of the TOYOTA electrical tester in the wire harness of terminal 4 or 5.

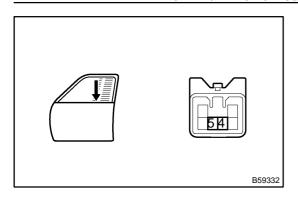
NOTICE:

Match the arrow mark of the probe with the current direction.

- (2) Set the door glass in the fully closed position.
- (3) When 60 seconds have elapsed after the door glass is fully closed, check how long it takes for the current to change from approximately 16 34 A into 1 A or less when the power window switch is turned UP once again.

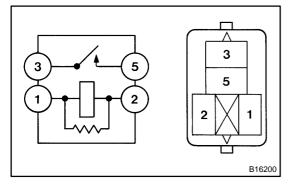
Standard: Approximately 4 – 90 seconds

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(4) When approximately 60 seconds have elapsed after the inspection of the current cut-off, check that the door glass goes down when the power window regulator switch is turned DOWN.

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



5. INSPECT RELAY (Making: P/W)

- (a) Remove the power window relay from the instrument panel J/B.
- (b) Inspect the power window relay.

Condition	Terminal No.	Specified condition
Constant	1 ⇔ 2	Continuity
Apply B+ between Terminals 1 and 2	3 ⇔ 5	Continuity

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