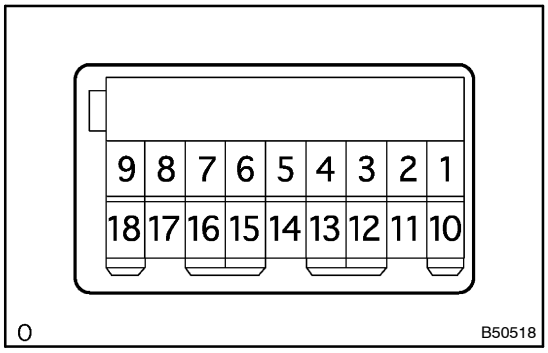
700H9–01

INSPECTION



1. INSPECT POWER WINDOW REGULATOR MASTER SWITCH ASSY

(a) Check the continuity between each terminal of the connector, operating the switch.

NOTICE:

Whether the operation is good or bad can be judged by the basic function check, because the continuity cannot be checked by UP/DOWN operation of the front RH side (driver's side) switch.

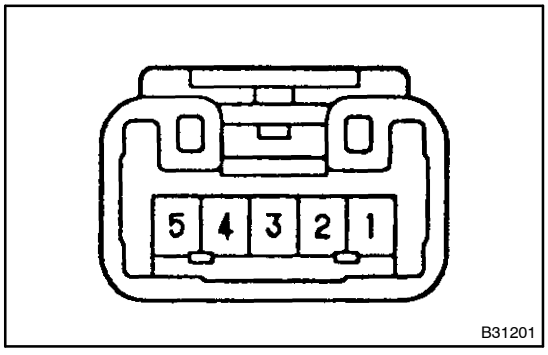
Standard (Window unlock):

Switch position	Passenger Side Terminal No.	Rear RH Terminal No.	Rear LH Terminal No.
UP	6 – 13 1 – 15	6 – 18 1 – 16	6 – 12 1 – 10
OFF	1 – 13 1 – 15	1 – 18 1 – 16	6 – 12 1 – 10
DOWN	6 – 15 1 – 13	6 – 16 1 – 18	6 – 10 1 – 12

Standard (Window lock):

Switch position	Passenger Side Terminal No.	Rear RH Terminal No.	Rear LH Terminal No.
UP	6 – 13	6 – 18	6 – 12
OFF	13 – 15	16 – 18	10 – 12
DOWN	6 – 15	6 – 16	6 – 10

If the continuity is not as specified, replace the power window regulator master switch.



2. INSPECT POWER WINDOW REGULATOR SWITCH ASSY

(a) Check the continuity between each terminal of the connector when operating the switch.

Standard:

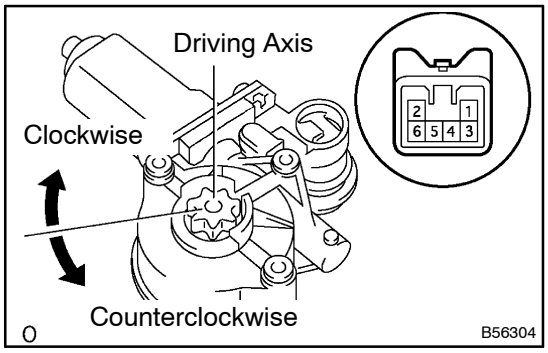
Switch position	Terminal No.	Condition
UP	1 – 2 3 – 4	Continuity
OFF	1 – 2 3 – 5	Continuity
DOWN	1 – 4 3 – 5	Continuity

If the continuity is not as specified, replace the power window regulator switch.

3. INSPECT POWER WINDOW REGULATOR MOTOR ASSY RH

NOTICE:

- **Be sure not to apply the battery voltage to terminal 1, 3 and 6 of the power window regulator motor assy RH connector, because it might damage the pulse sensor and the limit switch.**
- **Be sure to reset the power window regulator motor assembly (initial position setting of the limit switch) when the power window regulator motor assy RH is installed to the regulator.**



(a) Inspect the operation of the front RH side power window regulator motor assembly.

(1) When adding the battery voltage to each connector terminal, check that the motor operates smoothly.

Standard:

Measuring condition	Operational direction
Battery positive – Terminal 5 Battery negative – Terminal 4	Clockwise rotation toward driving axis
Battery positive – Terminal 4 Battery negative – Terminal 5	Counterclockwise wind rotation toward driving axis

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

NOTICE:

Work must be perform with the power window regulator and door glass installed to the vehicle.

(1) Set the DC 400 A probe to terminal 4 or 5 of the wire harness.

NOTICE:

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

(2) Set the door glass at the fully closed position.

(3) When approximately 60 seconds have passed after fully closing the door glass, check how long the current when pressing the power regulator switch UP again (at initial time) takes to change from approximately 16 – 34 A to less than 1 A.

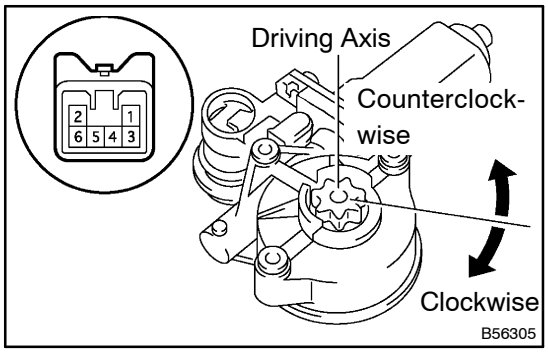
Standard: Approximately 4 – 90 seconds

(4) When approximately 60 seconds have passed after the cutoff checking, check that the door glass will go down when the power regulator switch is pressed DOWN.

4. INSPECT POWER WINDOW REGULATOR MOTOR ASSY LH

NOTICE:

- **Be sure not to apply the battery voltage to terminal 2, 3 and 6 of the power window regulator motor assy LH connector, because it might damage the pulse sensor and the limit switch.**
- **Be sure to reset the power window regulator motor assembly (initial position setting of the limit switch) when the power window regulator motor assy LH is installed to the regulator.**



(a) Inspect the operation of the front LH side power window regulator motor assembly.

(1) When adding the battery voltage to each connector terminal, check that the motor operates smoothly.

Standard:

Measuring condition	Operational direction
Battery positive – Terminal 5 Battery negative – Terminal 4	Clockwise rotation toward driving axis
Battery positive – Terminal 4 Battery negative – Terminal 5	Counterclockwise wind rotation toward driving axis

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

NOTICE:

Work must be perform with the power window regulator and door glass installed to the vehicle.

(1) Set the DC 400 A probe to terminal 4 or 5 of the wire harness.

NOTICE:

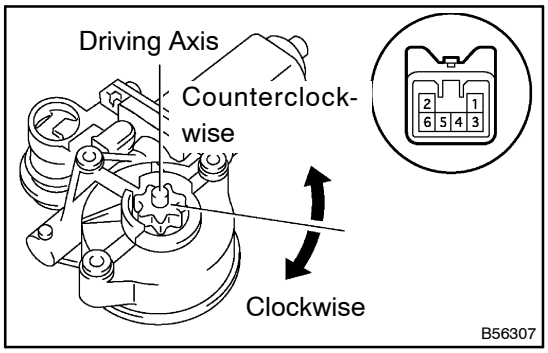
Match the arrow mark of the probe with the current direction.

(2) Set the door glass at the fully closed position.

(3) When approximately 60 seconds have passed after fully closing the door glass, check how long the current when pressing the power regulator switch UP again (at initial time) takes to change from approximately 16 – 34 A to less than 1 A.

Standard: Approximately 4 – 90 seconds

(4) When approximately 60 seconds have passed after the cutoff checking, check that the door glass will go down when the power regulator switch is pressed DOWN.



5. INSPECT POWER WINDOW REGULATOR MOTOR ASSY RH

(a) Inspect the operation of the rear RH side power window regulator motor assembly.

(1) When adding the battery voltage to each connector terminal, check that the motor operates smoothly.

Standard:

Measuring condition	Operational direction
Battery positive – Terminal 5 Battery negative – Terminal 4	Clockwise rotation toward driving axis
Battery positive – Terminal 4 Battery negative – Terminal 5	Counterclockwise wind rotation toward driving axis

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

NOTICE:

Work must be perform with the power window regulator and door glass installed to the vehicle.

(1) Set the DC 400 A probe to terminal 4 or 5 of the wire harness.

NOTICE:

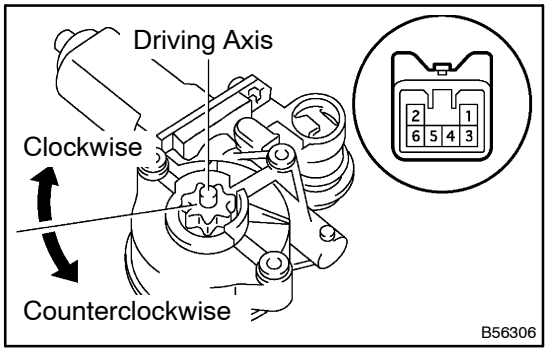
Match the arrow mark of the probe with the current direction.

(2) Set the door glass at the fully closed position.

(3) When approximately 60 seconds have passed after fully closing the door glass, check how long the current when pressing the power regulator switch UP again (at initial time) takes to change from approximately 16 – 34 A to less than 1 A.

Standard: Approximately 4 – 90 seconds

(4) When approximately 60 seconds have passed after the cutoff checking, check that the door glass will go down when the power regulator switch is pressed DOWN.



6. INSPECT POWER WINDOW REGULATOR MOTOR ASSY LH

(a) Inspect the operation of the rear LH side power window regulator motor assembly.

(1) When adding the battery voltage to each connector terminal, check that the motor operates smoothly.

Standard:

Measuring condition	Operational direction
Battery positive – Terminal 5 Battery negative – Terminal 4	Clockwise rotation toward driving axis
Battery positive – Terminal 4 Battery negative – Terminal 5	Counterclockwise wind rotation toward driving axis

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

NOTICE:

Work must be perform with the power window regulator and door glass installed to the vehicle.

(1) Set the DC 400 A probe to terminal 4 or 5 of the wire harness.

NOTICE:

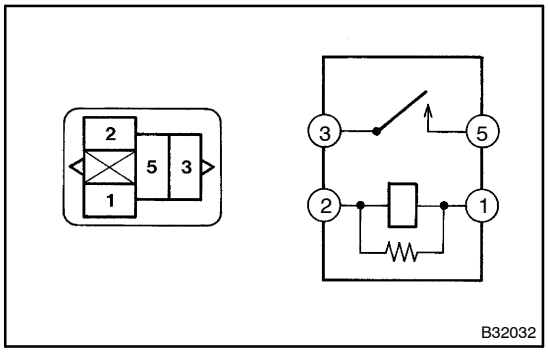
Match the arrow mark of the probe with the current direction.

(2) Set the door glass at the fully closed position.

(3) When approximately 60 seconds have passed after fully closing the door glass, check how long the current when pressing the power regulator switch UP again (at initial time) takes to change from approximately 16 – 34 A to less than 1 A.

Standard: Approximately 4 – 90 seconds

(4) When approximately 60 seconds have passed after the cutoff checking, check that the door glass will go down when the power regulator switch is pressed DOWN.



7. INSPECT POWER WINDOW RELAY ASSY

(a) Inspect the power window relay continuity.

Standard:

Terminal No.	Condition	Specified Condition
1 – 2	Constant	Continuity
3 ⇔ 5	Constant	No continuity
3 – 5	Apply B + between terminals 1 and 2	Continuity

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