74047–02

ON–VEHICLE INSPECTION

1. INSPECTION SLIDING ROOF FUNCTION

(a) Check the automatic sliding open operation.
  (1) Turn the ignition switch ON.
  (2) Slide close and tilt down the roof glass to the fully close position.
  (3) Check that the roof glass will slide open automatically and stop just before the fully open position by pressing the sliding roof switch OPEN for 0.3 seconds or more.

(b) Check the automatic tilting UP operation.
  (1) Turn the ignition switch ON.
  (2) Slide close and tilt down the roof glass to the fully close position.
  (3) Check that the roof glass will tilt up automatically to the fully up position by pressing the sliding roof switch UP for 0.3 seconds or more.

(c) Check the operation function after key–OFF.
  (1) After turning the ignition switch from ON to OFF, check that the roof glass can be operated via the sliding roof switch, however the operation will be impossible after the driver's or passenger's door is opened.
  (2) When approximately 45 seconds have passed after the ignition switch is turned from ON to OFF, check that the roof glass can not be operated via the sliding roof switch.
  (3) After turning the ignition switch from ON to OFF with the driver's or passenger's door open, check that the AUTO operation will stop immediately.

(d) Check the jam protection function.

NOTICE:

- **Never insert any part of your body, such as hand, in between.**
- **Pay thorough attention not to get caught in there.**
- **The roof might be deformed if something hard, such as a handle of hammer, is inserted in between.**

  (1) Fully close the roof glass.
  (2) Set a handle of hammer around the fully close position.

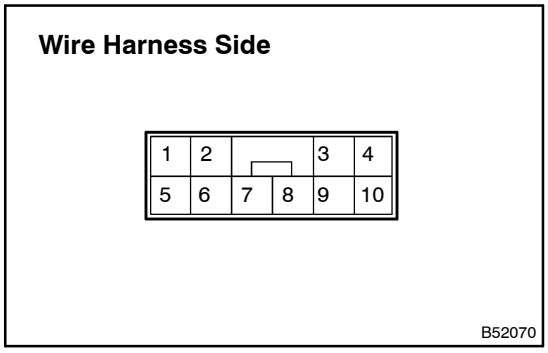
HINT:

Wrap the handle well with cloth or something before setting.

  (3) When operating the roof glass to the fully close position, check that the glass movement will be reversed by detecting the handle, and keep moving by about 200 mm open or up and stop then.

HINT:

- The reverse movement when the glass is sliding close will stop in 200 mm open or before the fully open position (in max. 20 seconds).
- The reverse movement when the glass is tilting down will stop in the fully up position or in 2 seconds.



2. INSPECT SLIDING ROOF CONTROL ECU

(a) Disconnect the connector from the sliding roof control ECU.

(b) Check the connector on the wire harness side.

Standard:

Symbols (Terminal No.)	Wiring color	Condition	Specified condition
E (7) ⇔ Body Ground	W–B ⇔ Body Ground	Constant	Continuity
B (5) ⇔ E (7)	L–W ⇔ W–B	Constant	10 – 14 V
IG (8) ⇔ E (7)	R–L ⇔ W–B	Ignition switch OFF → ON	0 V → 10 – 14 V
DWN (9) ⇔ E (7)	R–W ⇔ W–B	Sliding roof switch → OPEN/DOWN	No continuity → Continuity
UP (10) ⇔ E (7)	R–Y ⇔ W–B	Sliding roof switch → CLOSE/UP	No continuity → Continuity

If the value is not as specified, there may be a malfunction in the wire harness side.

(c) Connect the connector, and inspect the voltage and continuity between each terminal of the connector and the body ground.

Standard:

Symbols (Terminal No.)	Wiring color	Condition	Specified condition
DWN (9) ⇔ E (7)	R–W ⇔ W–B	Ignition switch ON, sliding roof switch → OPEN/DOWN	10 – 14 V → 0 V
UP (10) ⇔ E (7)	R–Y ⇔ W–B	Ignition switch ON, sliding roof switch → CLOSE/UP	10 – 14 V → 0 V

If the value is not as specified, sliding roof drive gear or communication line may be defective.