

Sunroof Control System

SUNROOF/T-TOP/CONVERTIBLE TOP (SUNROOF)

2. Sunroof Control System

A: WIRING DIAGRAM

1. SUNROOF

<Ref. to WI-157, WIRING DIAGRAM, Sunroof Control System.>

B: INSPECTION

Symptoms	Inspection order
Water leakage	1. Check roof panel and glass lid for improper or poor sealing. 2. Check drain tube for clogging. 3. Check sunroof frame seal and body for improper fit.
Booming noise, wind noise and other noise	1. Check glass lid and roof panel for improper clearance. 2. Check sunshade and roof trim for improper clearance.
Abnormal motor noise	1. Check installing part of motor for looseness. 2. Check gears and bearings for wear. 3. Check cable for wear. 4. Check cable pipe for deformities.
Failure of sunroof (Motor operates properly.)	1. Check guide rail for foreign particles. 2. Check guide rail for improper installation. 3. Check parts for mutual interference. 4. Check cable slider for improper clinching. 5. Check cable for improper installation.
Motor does not rotate or rotate improperly.	1. Check fuse for blown out. 2. Check switch for improper function. 3. Check motor for incorrect terminal voltage. 4. Check the relay for improper operation. 5. Check poor grounding system. 6. Check harness for open or short and terminals for poor connections.
Incorrect reverse operation of the glass lid	Check guide rail for foreign particles.

- Incorrect reverse operation of the glass lid while driving on rough road

Glass lid has auto-reverse function. When the glass lid is pushed in the opening direction with a force of 110 ± 10 N (11.2 kgf, 24.7 lbf \pm 1.0 kgf, 2.2 lbf), the lid moves in reverse and stops. Therefore, if you operate (open or close) the glass lid while driving on rough road, the vibration may be judged as a force and the lid may incorrectly move in the reverse direction. When the failure turn is occurred, you need to perform the initialize operation with following procedure.

1. INITIALIZE OPERATION

- 1) Tilt up the glass lid.
- 2) Release the switch once, and press the tilt up switch again for 15 seconds.
- 3) When the glass lid is raised a little and returned to tilt up position, release the switch for the moment. (Initialization of position detecting function)
- 4) Holding down the tilt up switch again within 5 seconds from releasing the switch will automatically perform tilt down/slide open/slide close. (When 5 seconds pass, the position detecting function is cancelled.)
- 5) Initialize operation is completed.