

Sunroof Control System

SUNROOF/T-TOP/CONVERTIBLE TOP (SUNROOF)

3. Sunroof Control System

A: WIRING DIAGRAM

Refer to “Sunroof Control System” in the wiring diagram. <Ref. to WI-400, WIRING DIAGRAM, Sunroof Control System.>

B: INSPECTION

Symptoms	Inspection steps
Water leakage	1. Check the roof panel and the lid assembly - sunroof for improper or poor sealing. 2. Check the drain tube - sunroof for clogging. 3. Check the joints of the rail assembly - sunroof for improper sealing and for proper installation to the body.
Booming noise, wind noise and other noise	1. Check the lid assembly - sunroof and the roof panel for improper clearance. 2. Check the sunshade assembly and the trim panel - roof assembly for improper clearance.
Abnormal motor noise	1. Check installing part of motor for looseness. 2. Check gears and bearings for wear. 3. Check cable assembly 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 assembly 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 assembly for incorrect terminal voltage. 4. Check the relay for improper operation. 5. Check harness for open or short and terminals for poor connections.
Incorrect reverse operation of the lid assembly - sunroof	Check guide rail for foreign particles.

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

The lid assembly - sunroof has auto-reverse function. When the lid assembly - sunroof is pushed in the opening direction with a force of 110 ± 10 N (11.2 kgf, 24.7 lbf ± 1.0 kgf, 2.2 lbf), the glass lid moves in reverse and stops.

Therefore, if you operate (open or close) the lid assembly - sunroof 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 incorrect reverse operation is occurred repeatedly, perform inspection around the sunroof frame. If there are no problems, perform the initialization operation with following procedure.

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C: OPERATION

1. INITIALIZE OPERATION

CAUTION:

During initialization, perform the position learning and the sliding learning. Sliding learning mode can not be initiated unless the position learning is performed.

NOTE:

When initialize operation is performed, it is necessary to press the switch repeatedly as it operates for only at the moment when the switch is pressed, even when the switch is held down.

- Position learning

1) Position the lid assembly - sunroof at the full close position, and press and hold the close switch for ten seconds.

2) The motion shifts to the inching operation when the close switch is pressed continuously to the full close position. After the lid fully opens, it returns to the full close position and then stops.

3) Release the close switch to finish the position learning.

- Sliding learning

4) Within four seconds after the position learning is finished, press and hold the close switch again.

5) The lid assembly - sunroof moves to the full close position, full open position, and the full close position successively, and stops at the full close position.

6) Release the close switch and turn the IG to OFF to finish the initializing.

D: NOTE

For operation procedures of each component of the sunroof control system, refer to the respective section.

- Glass lid: <Ref. to SR-7, Glass Lid.>
- Sunroof assembly: <Ref. to SR-11, Sunroof Assembly.>
- Sunroof motor: <Ref. to SR-16, Sunroof Motor.>
- Sunroof switch: <Ref. to SR-18, Sunroof Switch.>
- Sunshade: <Ref. to SR-21, Sunshade.>