

Sunroof Control System

SUN ROOF/T-TOP/CONVERTIBLE TOP (SUNROOF)

2. Sunroof Control System

A: WIRING DIAGRAM

1. SUNROOF

<Ref. to WI-180, WIRING DIAGRAM, Sunroof Control System.>

B: INSPECTION

Symptom	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.
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.
Failure turn of glass lid	Check guide rail for foreign particles.

- Failure turn of glass lid while driving rough road.

Glass lid has auto-reverse function. When applied above specified force to the glass lid, the lid turns back and stops. When operating the glass lid (open or close) while driving the rough road, the lid judges vibration as a force and may causes failure turns. When the failure turn is occurred, the initialize operation is required with following procedure.

1. INITIALIZE OPERATION (SEDAN MODEL)

- 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) Keep pressing the tilt up switch within 5 seconds from releasing the switch, glass lid tilts down → slides open → slides close operation automatically. (Time gap of more than 5 seconds will result in cancellation of position detecting function.)
- 5) Initialize operation is completed.

2. INITIALIZE OPERATION (WAGON MODEL)

- 1) Apply the force to glass lid in the direction of glass lid open while glass lid (rear) is closing, and then reverse the lid five times in a row.

However, in the following situation, the initialize operation is canceled.

- When the lid is fully closed once during auto-reverse operation five times in a row.
 - When the interval of auto-reverse operation is more than 30 seconds once.
- 2) When the operation of glass lid shift to brink operation*, fully close the lid on switch operation.
 - 3) Initialize operation is completed.

*Brink operation: Although keep pressing the switch, glass lid operates only at a moment when the switch is pressed.