

# Sunroof Control System

SUNROOF/T-TOP/CONVERTIBLE TOP (SUNROOF)

## 2. Sunroof Control System

### A: WIRING DIAGRAM

#### 1. SUNROOF

<Ref. to WI-160, 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.
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.
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, need to perform the initialize operation 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. The glass lid will tilt down → slides open → slides close automatically. (When more than 5 seconds pass, the position detecting function is cancelled.)
- 5) Initialize operation is completed.

#### 2. INITIALIZE OPERATION (WAGON MODEL)

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

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

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

\* Brink operation: A condition where the glass lid only operates for only at the moment when the switch is pressed, even when the switch is held down.