4. REMOVAL AND INSTALLATION OF SUNROOF ASSEMBLY

Exploded View
Wind Deflector

1. Fully open the sunroof.

**NOTICE**
- Work only when the sunroof is open.

2. Unhook the wind deflector side locks at both sides.

3. Unhook the wind deflector bottom locks as shown in figure (A).
Glass Panel Assembly

Inside Cover of Glass Panel Assembly

1. Remove the inner side covers at both sides by pushing them rearward.

2. Remove the three mounting bolts (TORX bolts) of the glass panel with a special wrench (25 T).

3. Remove the glass panel.

NOTICE
- Work only when the sunroof is tilted-up.

Tightening torque: 5 Nm
Outside Cover of Glass Panel

※ Preceding Work: Removal of glass panel and inside cover

1. Cut off the locks on the outside cover with a cutter and remove the outside cover.

2. Insert the locks of the new outside cover into the mounting holes.

3. Push down the outside cover to install into the roof panel and lock it to the sunroof system with a pliers.
Installation of Glass Panel

1. Place the glass panel with the sunroof tilted-up and temporarily tighten the three TORX bolts (T25) at both sides. At this moment, the logo on the glass panel should face the rear side of the vehicle.

2. Completely close the sunroof using the sunroof switch.

3. Adjust the following items with the specified value and tighten the bolts.

Gap Between Front and Rear Glass Panel

Gap: Distance from roof panel to glass

1) Front gap (-1 ~ 0 mm)

2) Rear gap (0 ~ 1 mm)

NOTE

- To prevent the wind noise during high speed driving (over 100 km/h), the rear gap should be greater than front gap.
Front/Rear Gap of Glass Panel

To avoid the abnormal noise due to interference between roof panel and rear section of sunroof glass panel while driving, the installation gap should be maintained the ratio of 4:6 (front:rear) when installation.

After Assembly

Measure the interference between roof and glass panel while moving the glass panel. **Gap between roof and glass panel should be approx. 5 mm.** If this gap is too small, the glass panel may be scratched or the interfering noise may sound.
**Drain Channel**

※ **Preceding Work:** Removal of glass panel

1. Remove the two mounting bolts (TORX bolt) at both sides on the drain channel with the glass panel removed.

2. Unhook the locks (A) and remove the drain channel.

3. When installing
   Hook the locks (B) of the drain channel.
Sun Shade Panel

※ Preceding Work: Removal of glass panel and drain channel

1. Move the sun shade panel forward and remove the slide blocks of the sun shade panel from the guide rail with a flat bladed screwdriver as shown in the figure.

2. Remove the sun shade panel from the sunroof.
Sunroof Control Unit (SCU) and Motor

※ Preceding Work: 1. Fully close the sunroof with sunroof switch.
   2. Remove the sun visor/passenger’s hand grip/A pillar headlining/B pillar headlining to deflect the front section of the headlining. (Be careful not to damage the headlining.)

**NOTICE**
- Work only when the sunroof is closed.

SCU Assembly

1. Disconnect the connector from the sunroof control unit.

2. Unscrew the mounting screw and remove the SCU assembly.

3. When installing, completely fit the sunroof rail into the slot of sunroof control unit and tighten the screw.

**NOTICE**
- Completely fit the sunroof rail into the slot of sunroof control unit.
Motor Assembly

⚠️ NOTICE
- Work only when the sunroof is closed.

1. Disconnect the connector from the SCU.

2. Unscrew the three mounting bolts (25T) with a special wrench and remove the motor assembly.

⚠️ NOTICE
- To make the motor positioning easier, do not operate the motor (even for the testing) before installation.
Sunroof Drain Hose

Removal and installation procedures of drain hoses:

- **Front Drain Hose**
  - Remove only A pillar, sun visor, sunroof molding and front section of headlining.

- **Rear Drain Hose**
  - Remove headlining and rear trim.

Release the clamps and remove hoses. (However, the fastener at rear side of rear hose should be removed.)

**NOTICE**
- When installing, be careful not to kink, damage and twist the hose.
Note

Fastener location of rear drain hose

The rear drain hose can be removed after releasing the fasteners.
Sunroof Assembly

**Preceding Work:** Removal of headlining

1. Disconnect the front and rear drain hoses with the sunroof closed.

2. Unscrew the two bracket mounting bolts (10 mm) at both sides.
3. Unscrew the mounting bolts (10 mm) at both sides.

**Installation Notice**

| Tightening torque | 6 ~ 10 Nm |

4. Remove the sunroof assembly from the vehicle.