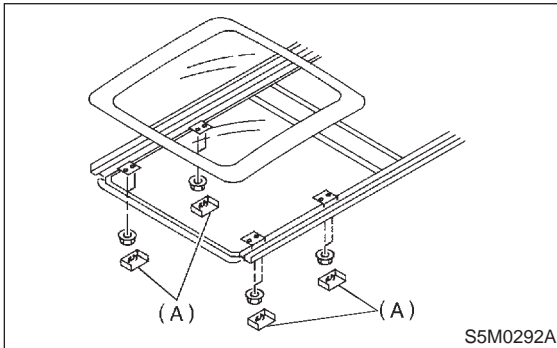


## 15. Sunroof

### A: REMOVAL AND INSTALLATION

#### 1. GLASS LID

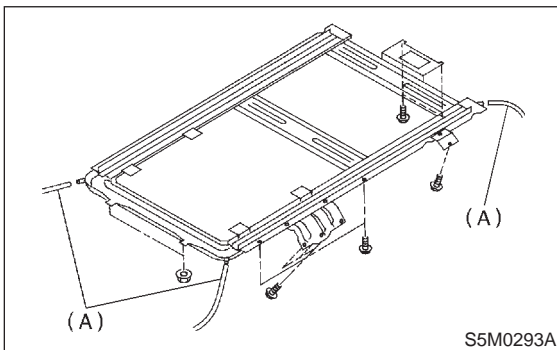
- 1) Completely close glass lid and open sunshade.
- 2) Detach the four covers (A) and then remove eight nuts.



- 3) Carefully remove glass lid.
- 4) Install in the reverse order of removal.

#### 2. SUNROOF FRAME

- 1) Remove roof trim. <Ref. to 5-3 [W5A4].>
- 2) Remove glass lid.
- 3) Disconnect the four drain tubes (A) from sunroof frame.
- 4) Disconnect sunroof harness connector.
- 5) Remove installation bolts and nuts and then detach sunroof frame.



- 6) Install in the reverse order of removal.

#### CAUTION:

Be careful not to snag the harness.

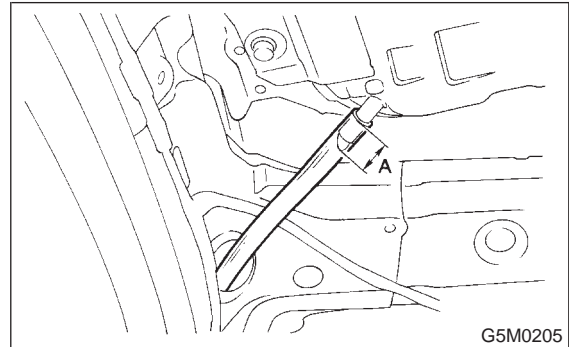
#### NOTE:

- Make sure to connect harness connector.

- When installing drain tube, insert it securely into drain pipe.

#### Length A:

15 mm (0.59 in) or more



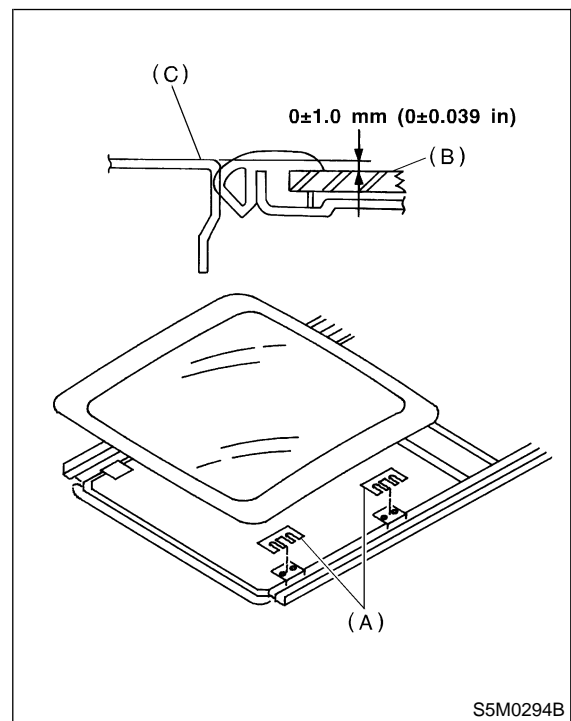
### B: ADJUSTMENT

#### 1. ALIGNMENT OF HEIGHT BETWEEN SUNROOF GLASS LID AND ROOF PANEL

Loosen sunroof glass lid installation nuts and then adjust height by adding (max: two pieces) and extracting (max: one piece) shim(s) (A) (standard: one piece) between sunroof glass lid (B) and roof panel (C).

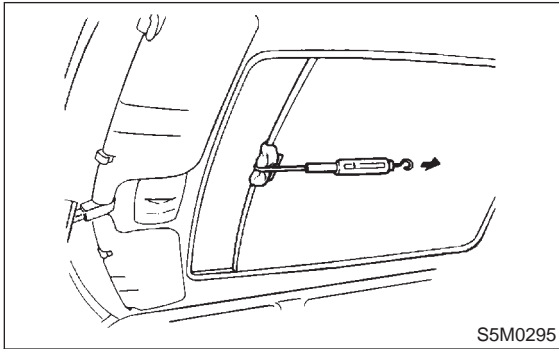
#### Difference in height between sunroof glass lid and roof panel:

$0 \pm 1.0 \text{ mm } (0 \pm 0.039 \text{ in})$



**2. CHECKING FOR MOVEMENT OF SUNROOF PANEL ITSELF**

- 1) Place a cloth on sunshade, and attach a spring scale to sunshade edge using the cloth.



- 2) Pull spring scale to measure force required to move sunshade.

**Force required to move sunshade:**  
**Less than 24.5±4.9 N (2.5±0.5 kg, 5.5±1.1 lb)**

**NOTE:**

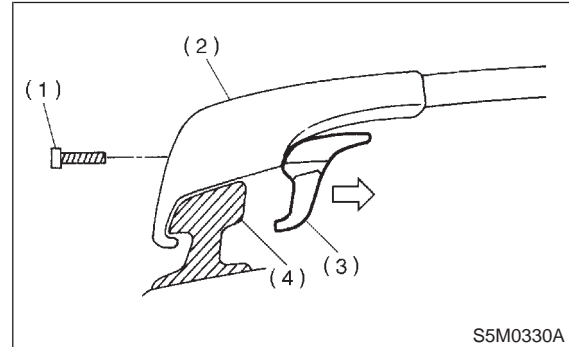
Considerable effort is required to start sunshade moving, so take scale reading while sunroof panel is moving smoothly.

- 3) If force required exceeds specifications, check the sunroof glass lid, sunshade and deflector, and guide rail assembly for improper installation.

**16. Crossbar**

**A: REMOVAL**

- 1) Loosen and remove TORX bolt T30 from the top of each crossbar end support, and then remove inner clamp.



- (1) TORX bolt T30
- (2) End support
- (3) Inner clamp
- (4) Roof rail

- 2) Remove crossbar.

**NOTE:**

When removing the front crossbar from the roof rail, first move the front crossbar to the center of the roof rail.

**B: INSTALLATION**

**1. FRONT CROSSBAR**

**NOTE:**

Front crossbar has "MAXIMUM LOAD ROOF RACK-150LBS. EVENLY DISTRIBUTED ROOF SURFACE-100LBS. EVENLY DISTRIBUTED" label on LH side.

- 1) Loosen and remove TORX bolt T30 from the top of each crossbar end support, and then remove the inner clamp.