

## OVERHAUL

### NOTICE:

Do not apply grease to the each sliding part of the link.

### HINT:

COMPONENTS: See page 74-26 or 74-60

1. MOVE ROOF PANEL TO HALF
2. REMOVE ROOF SIDE RAIL GARNISH ASSY RH  
(See page 74-15)
3. REMOVE ROOF SIDE RAIL GARNISH ASSY LH  
(See page 74-15)
4. REMOVE SUN ROOF OR REMOVABLE ROOF HEADLINING ASSY  
(See page 74-15)
5. REMOVE SLIDING ROOF OR REMOVABLE ROOF PANEL SUB-ASSY  
(See page 74-15)
6. REMOVE ROOF SIDE GARNISH INNER RH  
(See page 74-23)
7. REMOVE ROOF SIDE GARNISH INNER LH  
(See page 74-23)
8. REMOVE ROOF HEADLINING ASSY REAR  
(See page 74-23)
9. REMOVE BACK WINDOW FRAME SUB-ASSY UPPER  
(See page 74-23)

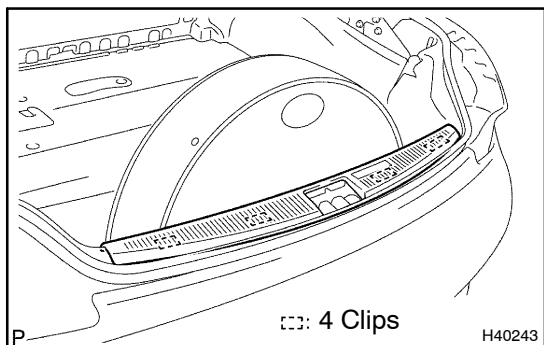
### HINT:

If there are shims, store them.

10. REMOVE REAR SEAT CUSHION ASSY (See page 72-8)
11. REMOVE REAR SEAT HEADREST PLATE COVER  
(See page 72-8)
12. REMOVE WIND DEFLECTOR BOARD ASSY  
(See page 72-8)
13. REMOVE REAR SEAT HEADREST PLATE  
(See page 72-8)
14. REMOVE REAR SEAT HEADREST ASSY  
(See page 72-8)
15. REMOVE REAR SEAT BACK ASSY (See page 72-8)
16. REMOVE REAR SEAT BACK BOARD  
(See page 74-51)
17. REMOVE DOOR SCUFF PLATE ASSY RH  
(See page 74-51)
18. REMOVE DOOR SCUFF PLATE ASSY LH  
(See page 74-51)
19. REMOVE QUARTER TRIM PANEL ASSY FRONT RH  
(See page 74-51)
20. REMOVE QUARTER TRIM PANEL ASSY FRONT LH  
(See page 74-51)
21. RAISE PACKAGE TRAY TRIM ASSY (See page 74-51)
22. REMOVE PACKAGE TRAY TRIM ASSY (See page 74-51)

### HINT:

Store the right and left shims for the package tray trim assy separately.



### 23. REMOVE REAR FLOOR FINISH PLATE

- (a) Using a screwdriver, remove the rear floor finish plate.

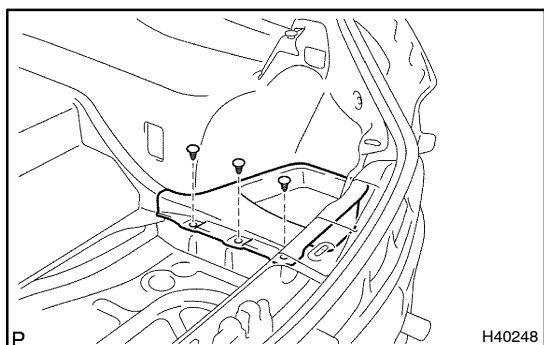
HINT:

Tape the screwdriver tip before use.

### 24. REMOVE SPARE WHEEL COVER ASSY

### 25. REMOVE SPARE DISC WHEEL

### 26. REMOVE LUGGAGE COMPARTMENT FLOOR MAT

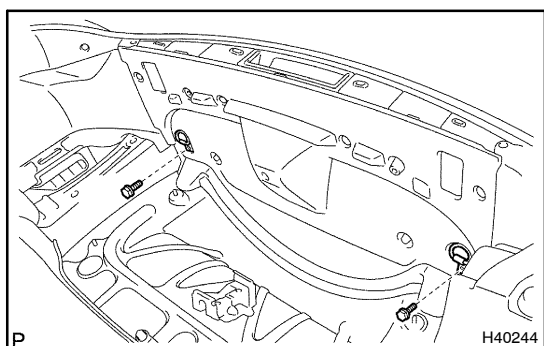


### 27. REMOVE LUGGAGE COMPARTMENT TRIM COVER RH

- (a) Using a clip remover, remove the 3 clips.  
 (b) Remove the luggage trim cover RH.

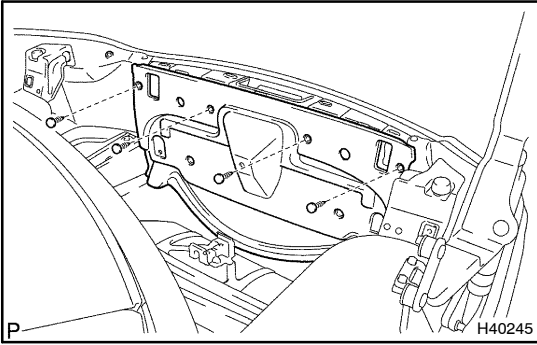
### 28. REMOVE LUGGAGE COMPARTMENT TRIM COVER LH

### 29. REMOVE TOOL BOX COVER



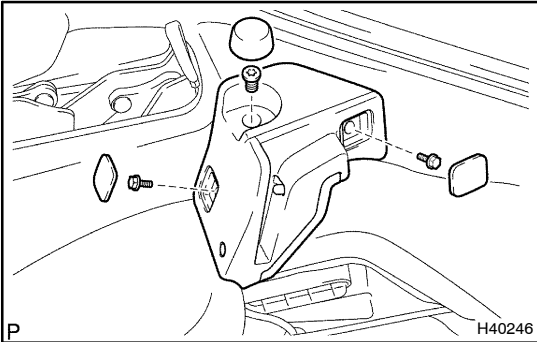
### 30. REMOVE LUGGAGE HOLD BELT STRIKER ASSY

- (a) Remove the 2 bolts and luggage hold belt striker assy.



### 31. REMOVE LUGGAGE COMPARTMENT TRIM COVER SUB-ASSY REAR

- (a) Using a clip remover, remove the 4 clips.
- (b) Remove the luggage compartment trim cover sub-assy rear.



### 32. REMOVE TONNEAU COVER STOPPER SUB-ASSY RH

- (a) Remove the cushion.
- (b) Using a screwdriver, release the 2 covers.

HINT:

Tape the screwdriver tip before use.

- (c) Using a torx socket wrench, remove the screw.

**Torx socket (T40): 09042-00020**

- (d) Remove the 2 bolts.
- (e) Remove the tonneau cover stopper sub-assy RH.

### 33. REMOVE TONNEAU COVER STOPPER SUB-ASSY LH

- (a) Using a screwdriver, release the 2 covers.

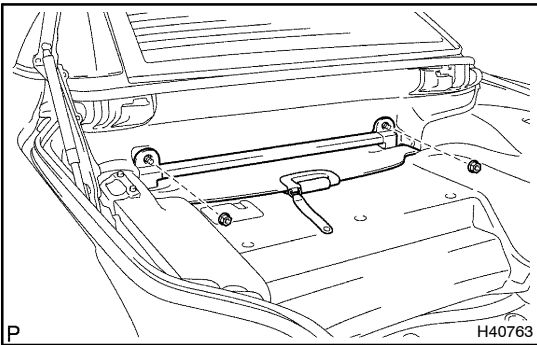
HINT:

Tape the screwdriver tip before use.

- (b) Using a torx socket wrench, remove the screw.

**Torx socket (T40): 09042-00020**

- (c) Remove the 2 bolts.
- (d) Remove the tonneau cover stopper sub-assy LH, then disconnect the connector.



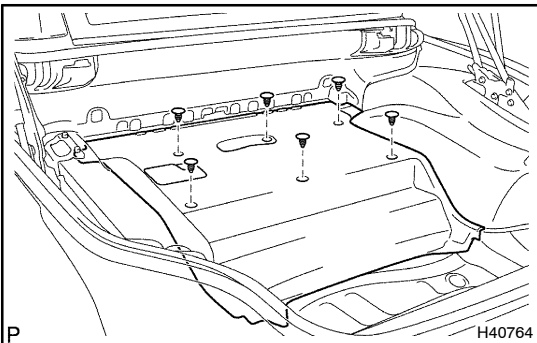
### 34. REMOVE TONNEAU COVER ASSY

- (a) Using a screwdriver, remove the 2 covers.

HINT:

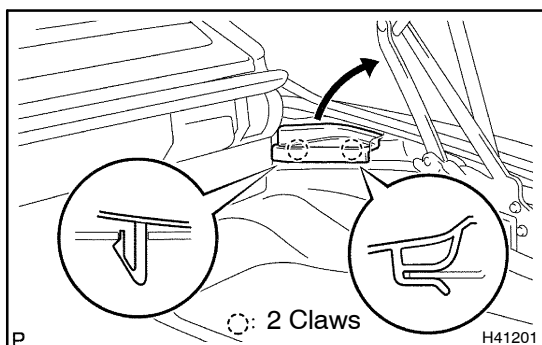
Tape the screwdriver tip before use.

- (b) Remove the 2 nuts and tonneau cover assy.



### 35. REMOVE LUGGAGE COMPARTMENT TRIM COVER INNER LOWER

- (a) Remove the 2 bolts and luggage hold belt striker.
- (b) Using a clip remover, remove the 6 clips.
- (c) Remove the luggage compartment trim cover inner lower.

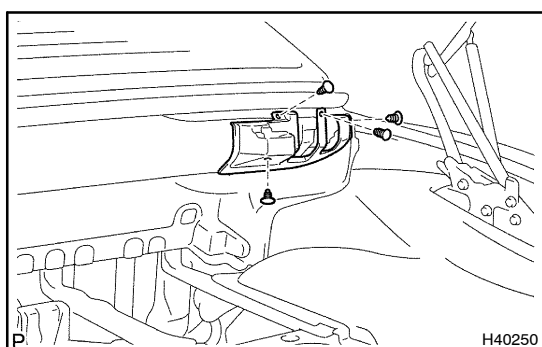
**36. REMOVE REAR FLOOR FINISH SIDE PLATE RH**

- (a) Using a screwdriver, remove the rear floor finish side plate RH.

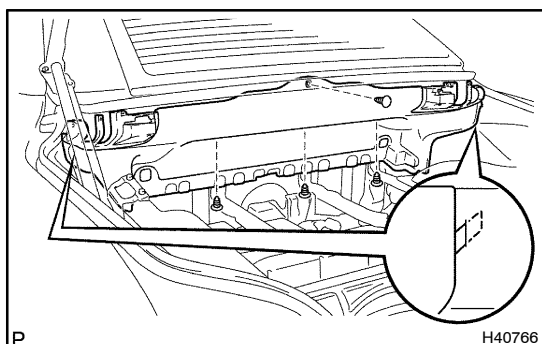
HINT:

Tape the screwdriver tip before use.

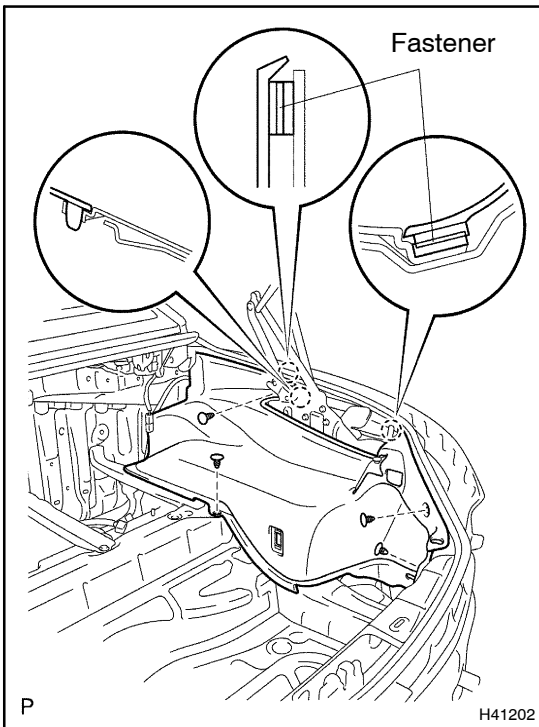
- (b) Disconnect the drain hose.

**37. REMOVE REAR FLOOR FINISH SIDE PLATE LH****38. REMOVE LUGGAGE COMPARTMENT TRIM COVER FRONT**

- (a) Using a clip remover, remove the 4 clips.  
 (b) Use the same procedure described above to the other side.



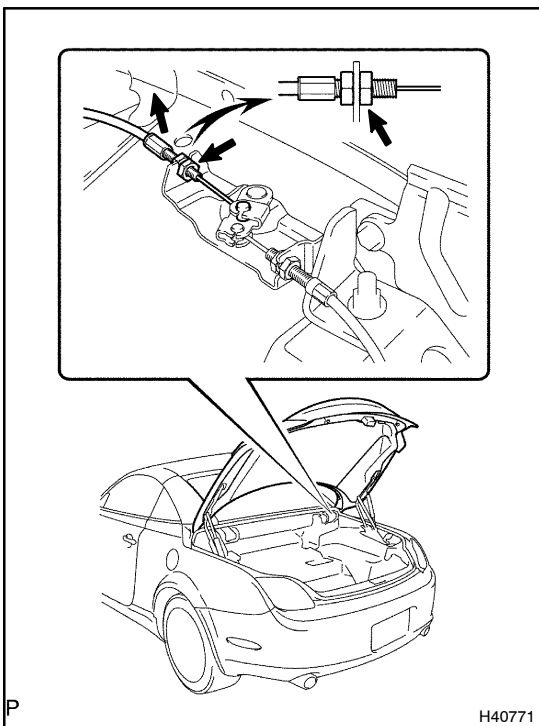
- (c) Using a clip remover, remove the 4 clips.  
 (d) Push the luggage compartment trim cover front out of the vehicle, disengage the claw and remove the luggage compartment trim cover front.



### 39. REMOVE LUGGAGE COMPARTMENT TRIM COVER SIDE RH

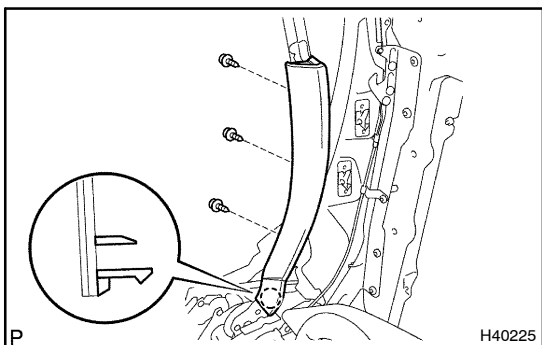
- (a) Using a clip remover, remove the 4 clips.
- (b) Remove the luggage compartment trim cover side RH.
- (c) Disconnect the connector.

### 40. REMOVE LUGGAGE COMPARTMENT TRIM COVER SIDE LH

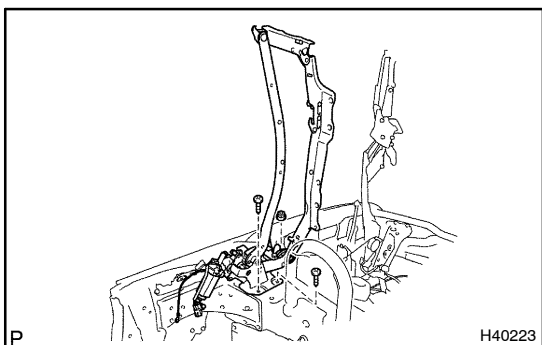


### 41. REMOVE ROOF SIDE RAIL GARNISH REAR RH

- (a) Loosen the nut, then disconnect the cable.



- (b) Remove the 3 screws.
- (c) Release the claws and remove the roof side garnish rear RH.

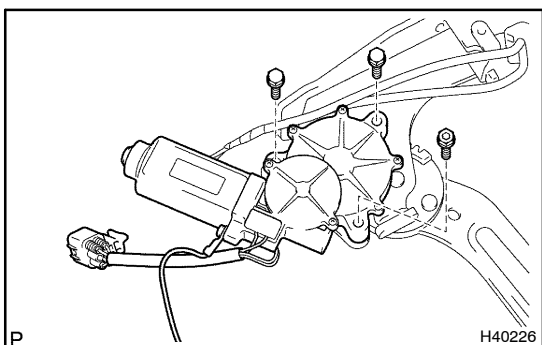


#### 42. REMOVE ROOF PANEL RH LINK SUB-ASSY

- (a) Disconnect the connector.
- (b) Using a torx socket, remove the 2 screws and a nut.  
**Torx socket (T40): 09042-00020**
- (c) Remove the roof panel RH link sub-assy.

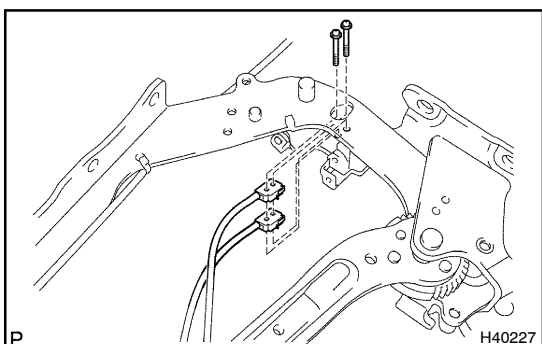
#### HINT:

Store the right and left shims for the roof panel RH link sub-assy separately.



#### 43. REMOVE SLIDING ROOF DRIVE GEAR ASSY RH

- (a) Using a hexagon wrench, remove the 3 bolts and sliding roof drive gear assy RH.



#### 44. REMOVE SLIDE ROOF LIMIT SWITCH

- (a) Remove the 2 screws and sliding roof limit switch.

#### 45. INSTALL SLIDE ROOF LIMIT SWITCH

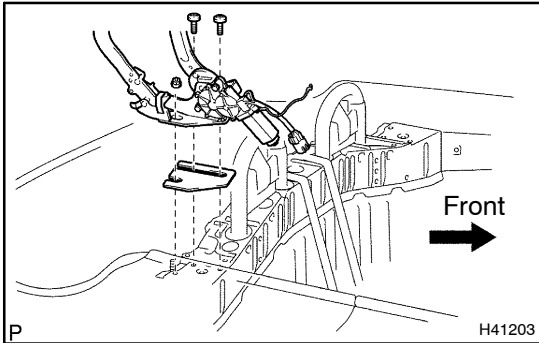
- (a) Install the slide roof limit switch and 2 screws.

#### HINT:

Install the limit switch with wire harness to which white tape is attached so that it will be positioned inside the vehicle.

## 46. INSTALL SLIDING ROOF DRIVE GEAR ASSY RH

Torque: 19 N·m (194 kgf·cm, 14 ft·lbf)

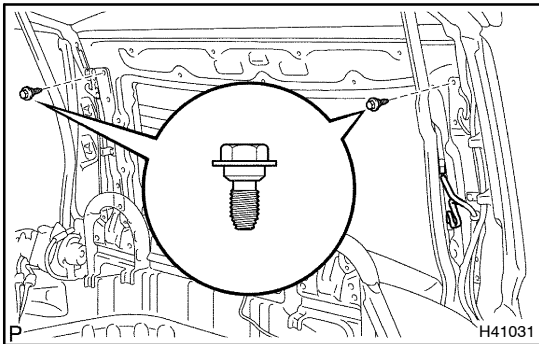


## 47. TEMPORARY TIGHTEN ROOF PANEL RH LINK SUB-ASSY

- (a) Temporarily tighten nut and 2 screws and roof panel RH link sub-assy.

HINT:

- Install the shims that has been stored at the same time.
- Insert 3 shims generally, however, the number of shims is changeable depending on the situation.



## 48. INSTALL BACK WINDOW FRAME SUB-ASSY UPPER

HINT:

Use a centering bolt to decide the back window frame sub-assy upper position.

**Centering bolt: Service part (90109-08155)**

- (a) Using a torx socket, install the roof panel to the roof panel link with the 2 centering bolts.

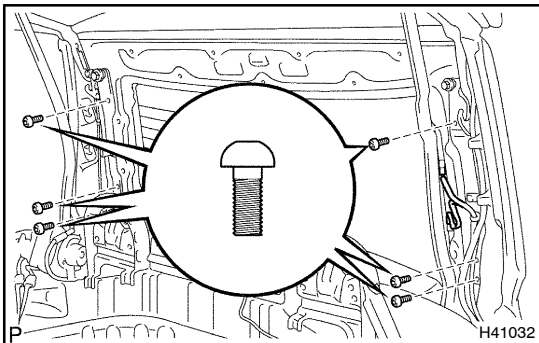
**Torx socket (T40): 09042-00020**

**Torque: 40 N·m (408 kgf·cm, 30 ft·lbf)**

- (b) Using a torx socket, tighten the 6 bolts.

**Torx socket (T40): 09042-00020**

**Torque: 40 N·m (408 kgf·cm, 30 ft·lbf)**

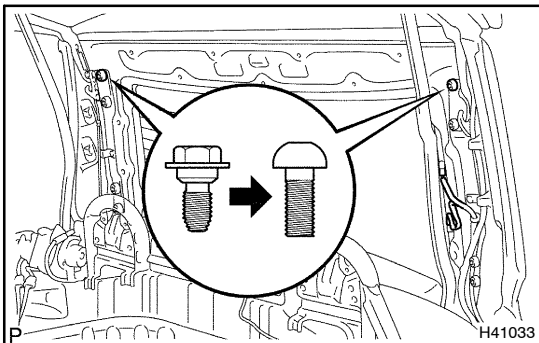


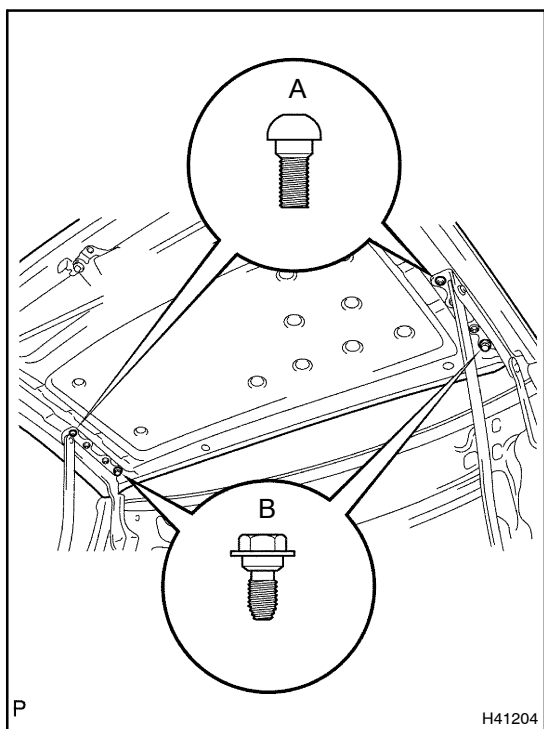
- (c) Remove the centering bolts.

- (d) Using a torx socket, install the 2 bolts which is installed originally.

**Torx socket (T40): 09042-00020**

**Torque: 40 N·m (408 kgf·cm, 30 ft·lbf)**





#### 49. INSTALL SLIDING ROOF / REMOVABLE ROOF PANEL SUB-ASSY

**Torque: 40 N·m (408 kgf·cm, 30 ft·lbf)**

**HINT:**

Use a centering bolt (A) and (B) to position the roof panel.

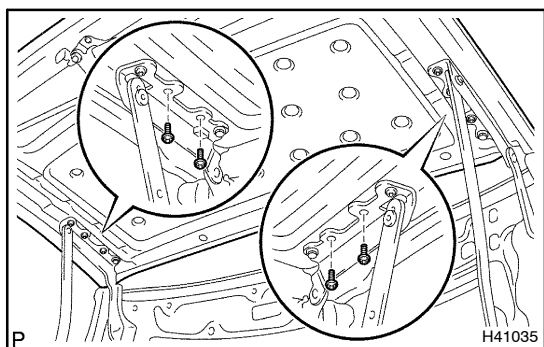
**Bolt A: Original part**

**Bolt B: Service part (90109-08155)**

- (a) Using a torx socket, install the roof panel to the roof panel link with the 2 centering bolts (A) and 2 centering bolts (B).

**Torx driver (T40): 09042-00020**

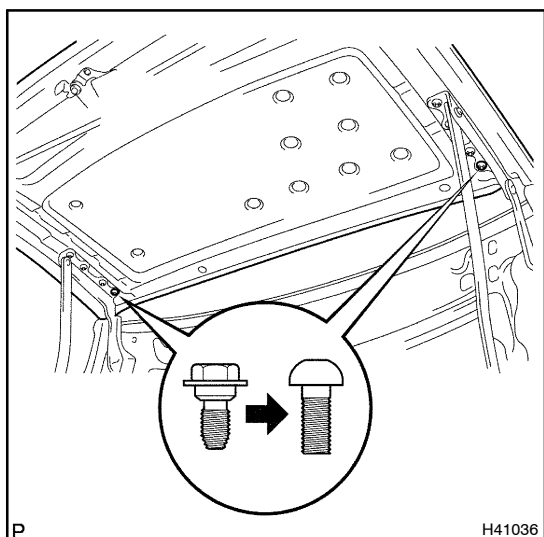
**Torque: 40 N·m (408 kgf·cm, 30 ft·lbf)**



- (b) Using a torx socket, tighten the 4 bolts.

**Torx driver (T40): 09042-00020**

**Torque: 40 N·m (408 kgf·cm, 30 ft·lbf)**



- (c) Remove the centering bolts (B).

- (d) Using a torx socket, install the 2 bolts which is installed originally.

**Torx driver (T40): 09042-00020**

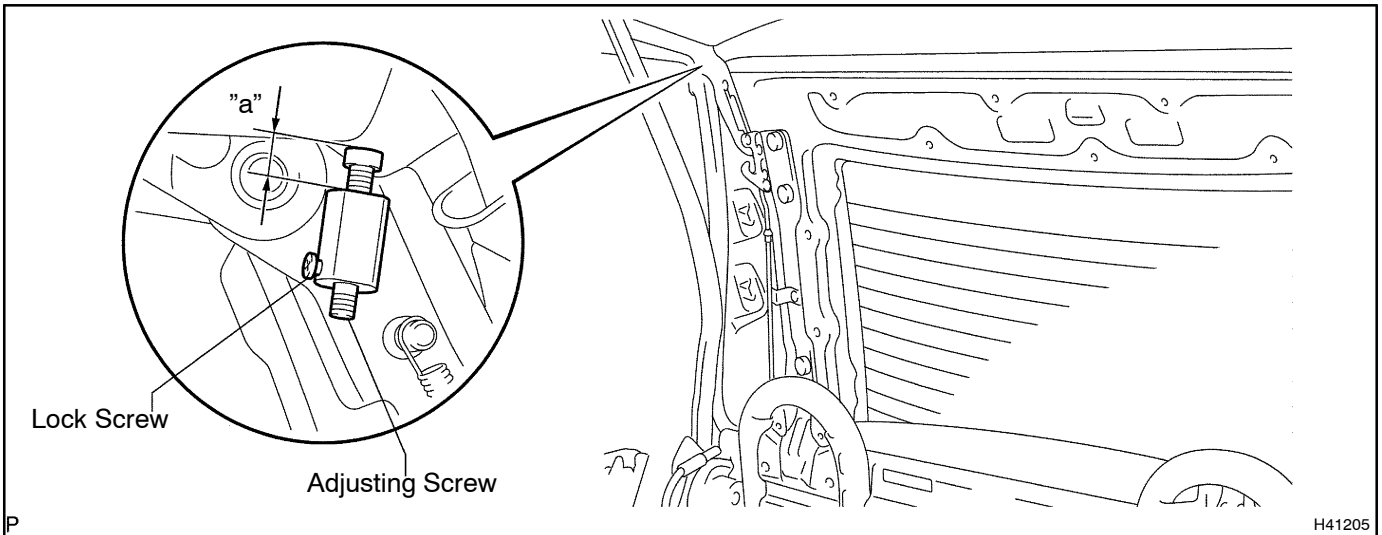
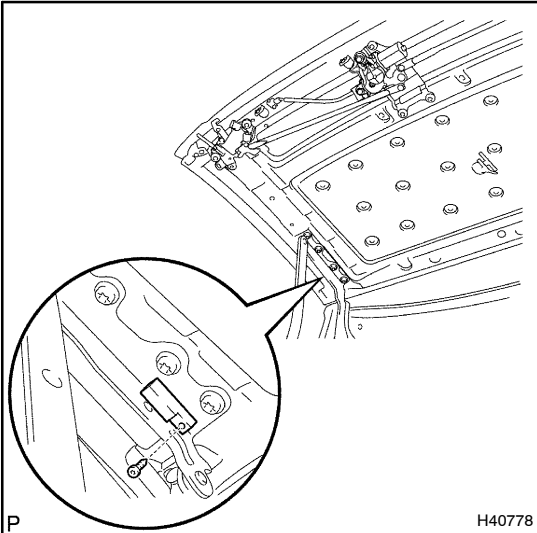
**Torque: 40 N·m (408 kgf·cm, 30 ft·lbf)**



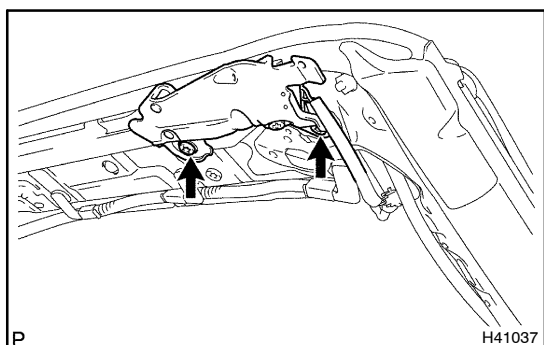
**50. ADJUST ROOF LINE****NOTICE:**

In order to prevent the roof from floating up at the rear side when driving at a high speed, adjustment of the roof panel link sub-assy adjusting screw is necessary. Be sure to perform the following adjustment procedure.

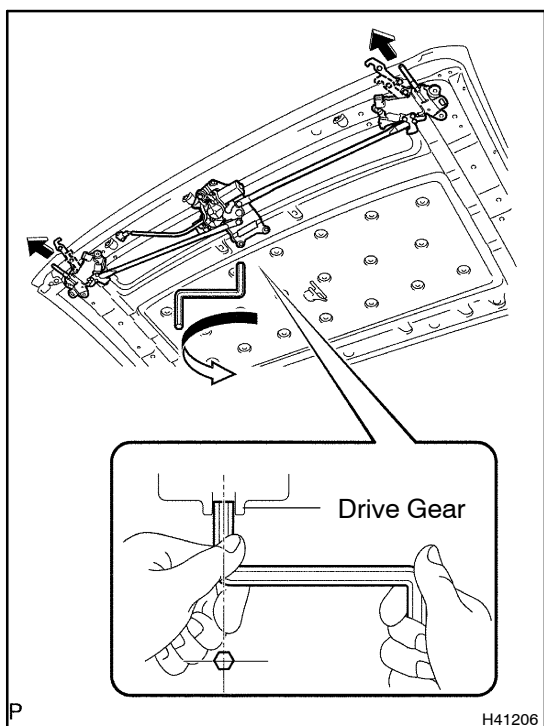
- (a) Loosen the 2 screws and nut.
- (b) Manually open the quarter window assy RH.
- (c) Using a torx driver, remove the stopper cushion from the roof panel RH link sub-assy.  
**Torx driver (T25): 09041-00020**
- (d) Use the same procedure described above to the other side.
- (e) Using a hexagon wrench, loosen the lock screw and adjust the protrusion "a" of the roof panel RH & LH link sub-assy adjusting screw.  
**Standard value: "a" = 8 mm (0.31 in.)**



- (f) Use the same procedure described above to the other side.



- (g) Using a torx socket, loosen the bolts and remove the removable roof auxiliary catch assy RH and LH.  
**Torx socket (T40): 09042-00020**



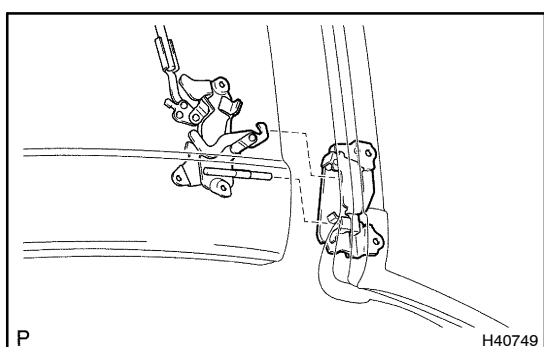
- (h) Release the removable roof lock.  
 (1) Insert the hexagon wrench tip into the drive gear shaft and turn the hexagon wrench about one turn counterclockwise as viewed from the bottom.

**NOTICE:**

- **After the rotation is stopped, do not apply excessive force to the drive gear shaft.**
- **Make sure to insert the hexagon wrench completely and operate with both hands.**

**HINT:**

Approx. one full rotation unlocks it.



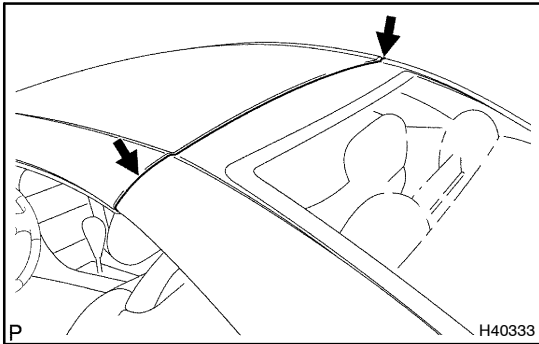
- (i) Close the roof by its own weight from the half-open position.

**NOTICE:**

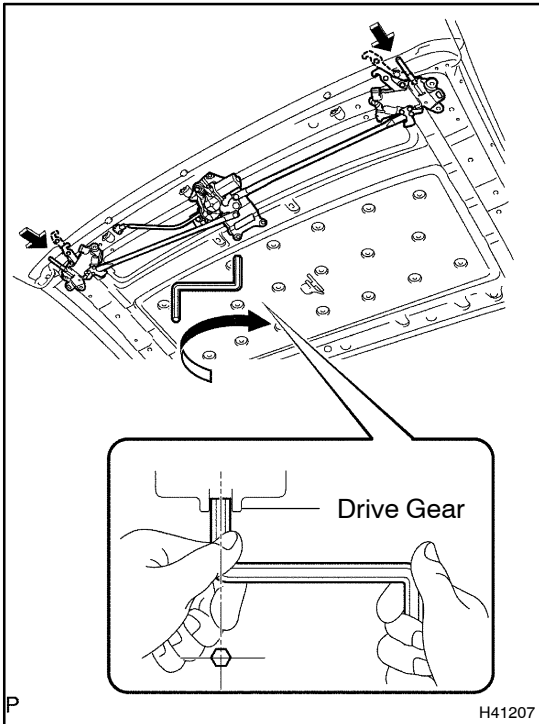
- **The operation should be performed by 2 persons.**
- **When closing, move it at almost same angles on the right and left.**

**HINT:**

Check that the guide pin on the edge of the roof panel is aligned with the catch on the pillar.



- (j) Strongly push down the roof panel and the back window near the parting line.



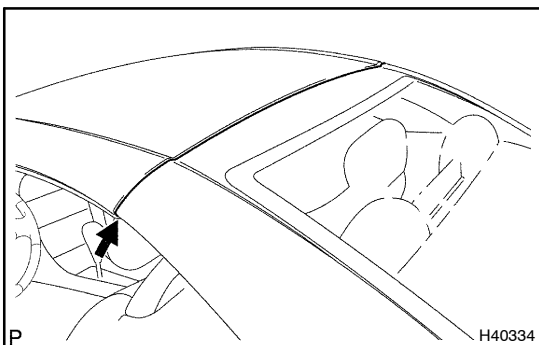
- (k) Lock the removable roof lock.  
 (1) Insert the hexagon wrench tip into the driver gear shaft in the roof head lining and turn it about one turn clockwise as viewed from the bottom.

**NOTICE:**

- **After the rotation is stopped, do not apply excessive force to the drive gear shaft.**
- **Make sure to insert the hexagon wrench completely and operate with both hands**

**HINT:**

Approx. one full rotation unlocks it.

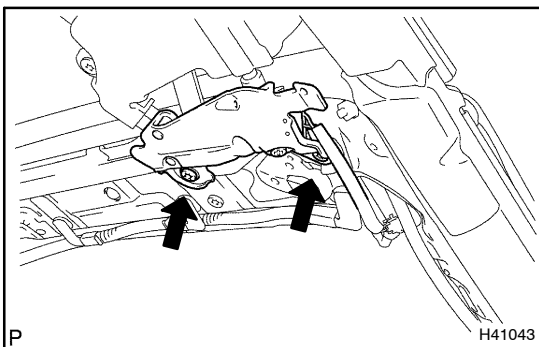
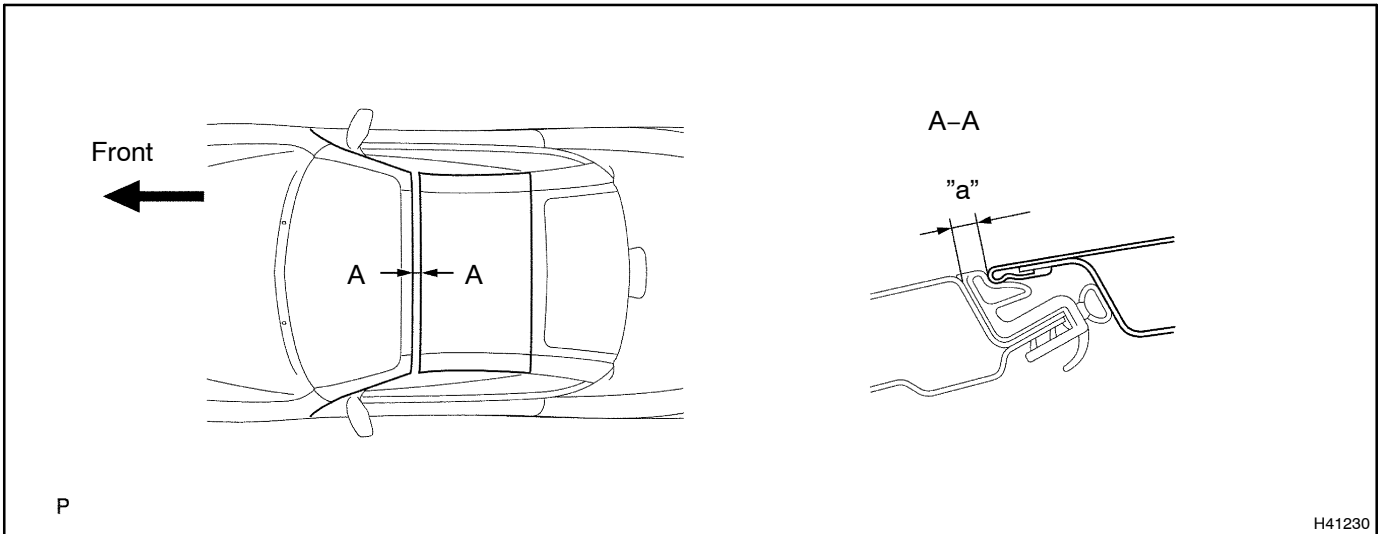


- (l) Push up the roof panel and the back window near the parting line and check that they are locked.

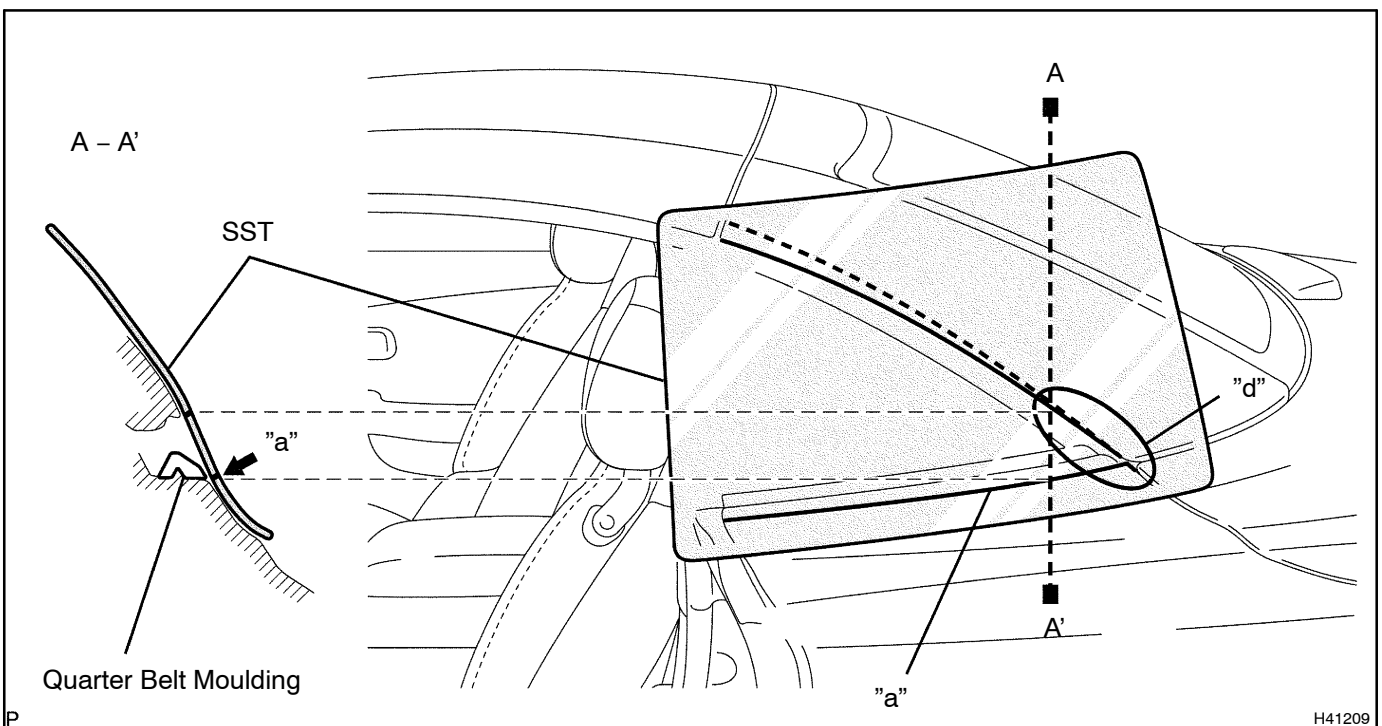
**NOTICE:**

**The operation should be performed by 2 persons.**

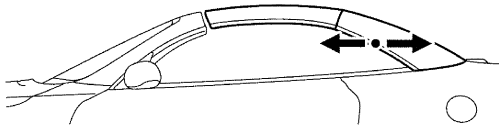
- (m) Adjust the roof panel position.  
 $a = 7 \pm 1 \text{ mm}$  ( $0.28 \pm 0.04 \text{ in.}$ )



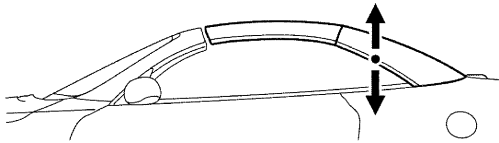
- (n) Using a torx socket, fully tighten the 2 bolts.  
**Torx driver (T40): 09042-00020**  
**Torque: 22 N·m (224 kgf·cm, 16 ft·lbf)**
- (o) Lock the roof lock.
- (p) Place the SST in alignment with the line (a) between the quarter belt moulding and body panel.  
 SST 09802-00010



### Horizontal Adjustment With Link Sub-assy:



### Adjustment With Link Sub-assy Shims:



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- (q) Align the part (d) with the roof line.
- (1) When the roof line is not aligned with the dotted line "b" horizontally, move the roof panel RH & LH link sub-assy forward or backward.
  - (2) When the roof line is not aligned with the SST dotted line "b" vertically, adjust either by turning the adjusting screw or with roof panel RH & LH link sub-assy shims.

### NOTICE:

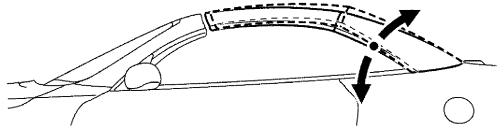
**When shims are used for adjustment, be sure to repeat checking from step 50-(a).**

### HINT:

- Shim thickness: 1.0 mm (0.039 in.)
  - Generally 3.0 mm (0.118 in.) thick shims are used for adjustment.
- (r) Using a hexagon wrench, tighten the roof panel link with the 2 screws.

**Torque: 40 N·m (408 kgf·cm, 30 ft·lbf)**

### Adjustment With Link Sub-assy Adjusting Screw:



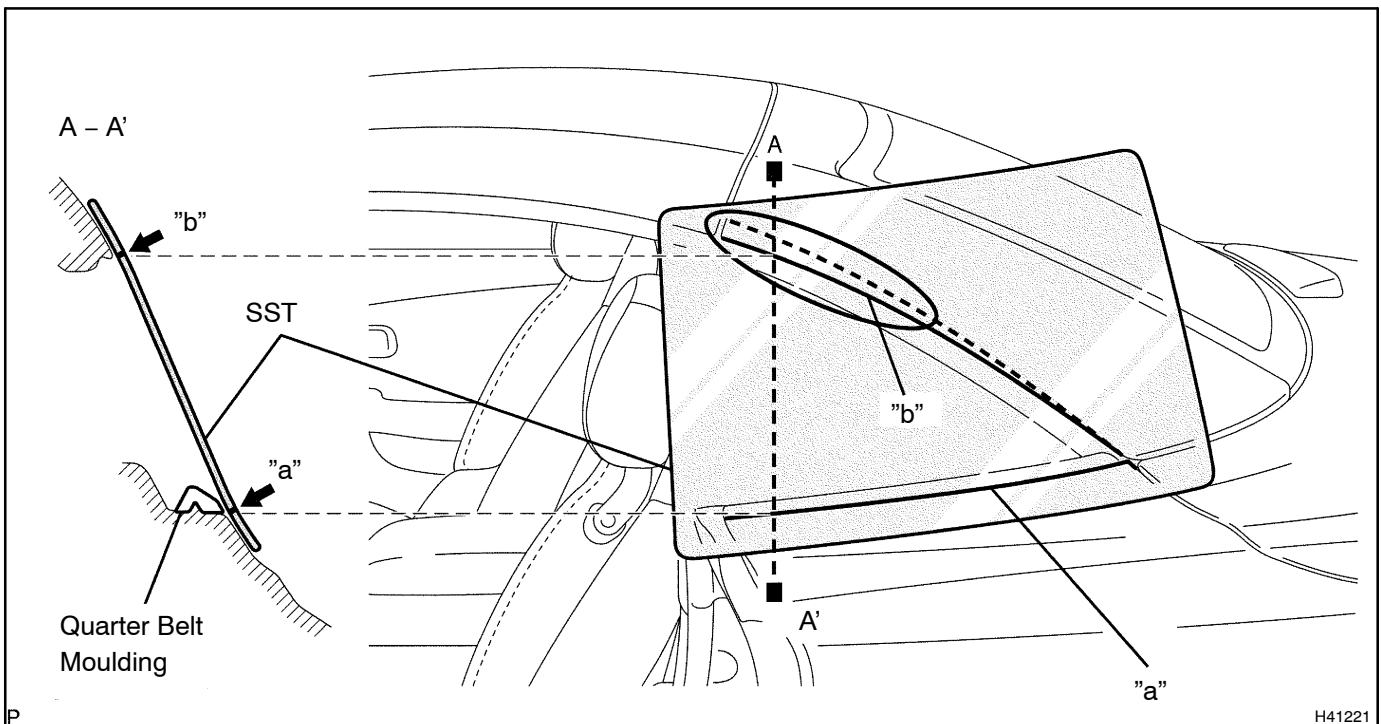
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- (s) Using a hexagon wrench, align the roof line with SST line (b) as shown in the illustration below.

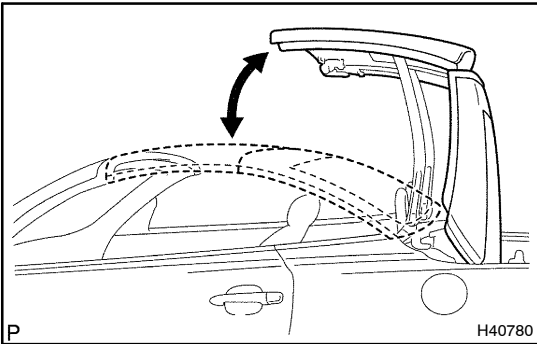
### HINT:

- When adjusting screw is tightened, roof line goes up.
- Generally, tighten the adjusting screw for adjustment.

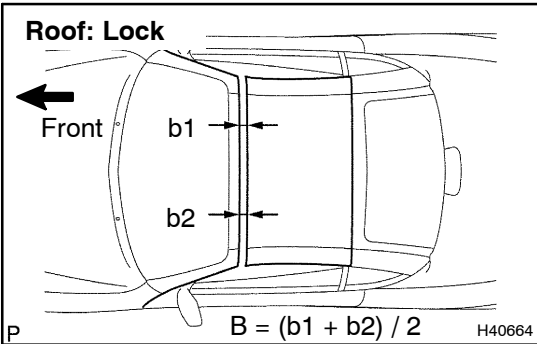


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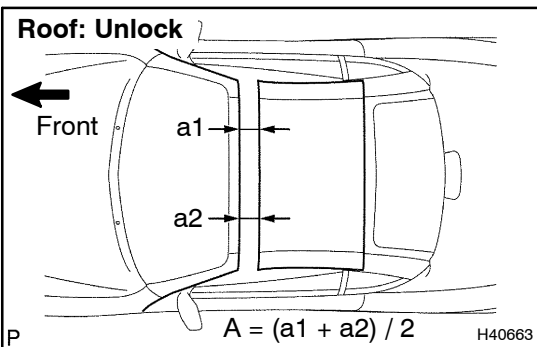
(t) Close the roof manually by its own weight several times from the half-open position.



(u) Measure the retract amount of the roof lock.  
 (1) Lock the roof lock.  
 (2) Measure the distance (B) between the front header and roof panel.

HINT:

- Do not move the roof during measurement.
- Mark the measuring point.

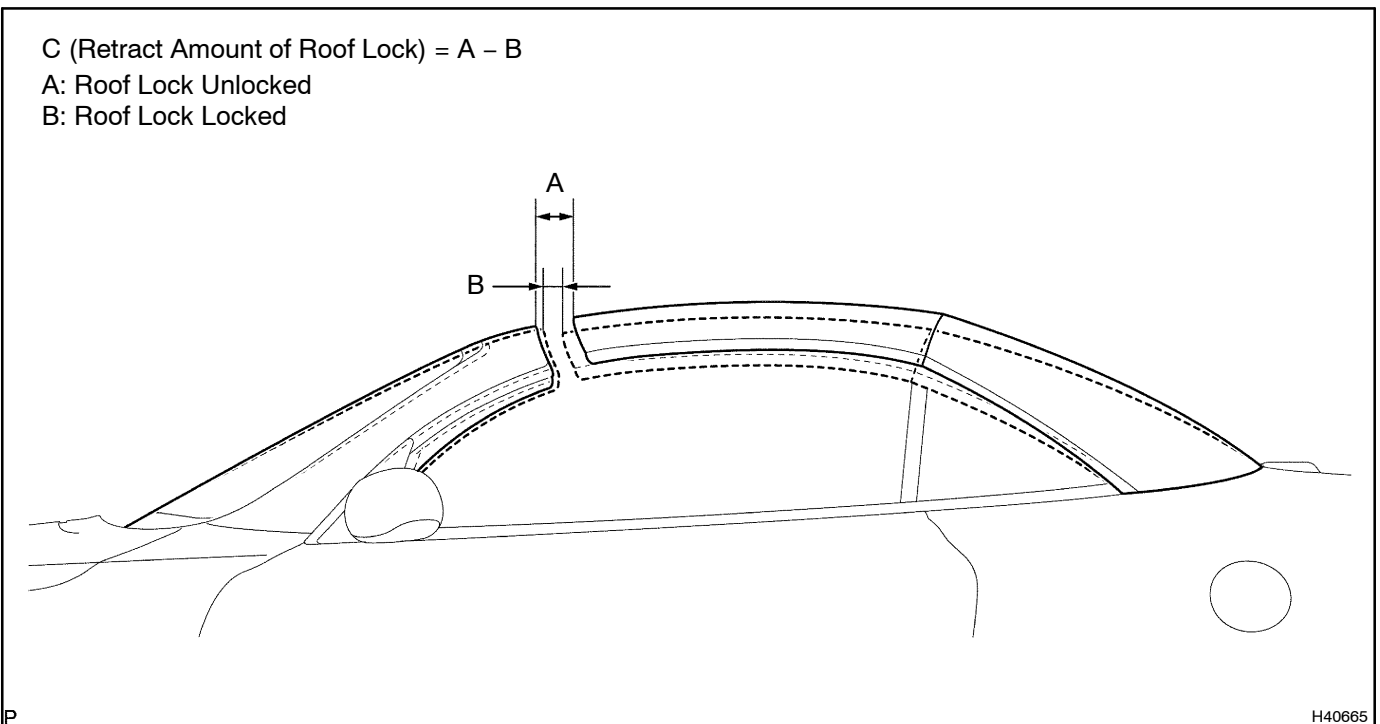


(3) Unlock the roof lock.  
 (4) Measure the distance (A) between the front header and roof panel.

HINT:

Measure at the same point as in step (u)-(2).

**C (retract amount of roof lock) = A - B**  
**C = 3.5 ± 1.0 mm (0.138 ± 0.039 in.)**



## HINT:

- If C (retract amount of the roof lock) cannot be adjusted to the standard, adjust by turning the roof link adjusting screw.
- When adjusting screw is tightened, the distance A is increased.
- After adjustment, fully tighten the lock screw.

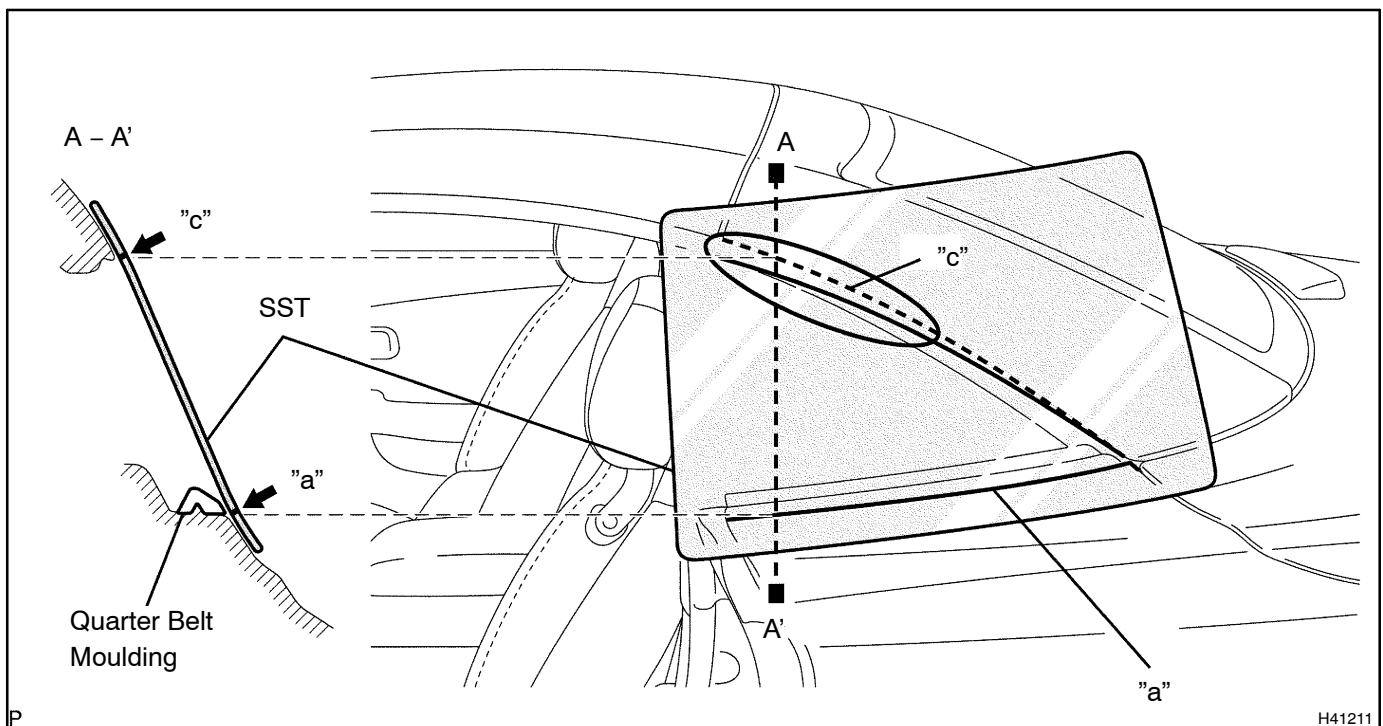
## (v) Check the roof line.

- (1) Lock the roof lock.
- (2) Unlock the roof lock.
- (3) Place the SST as shown in the illustration below.

SST 09802-00010

## HINT:

Place the SST in alignment with line "a" between the body panel and quarter belt moulding.

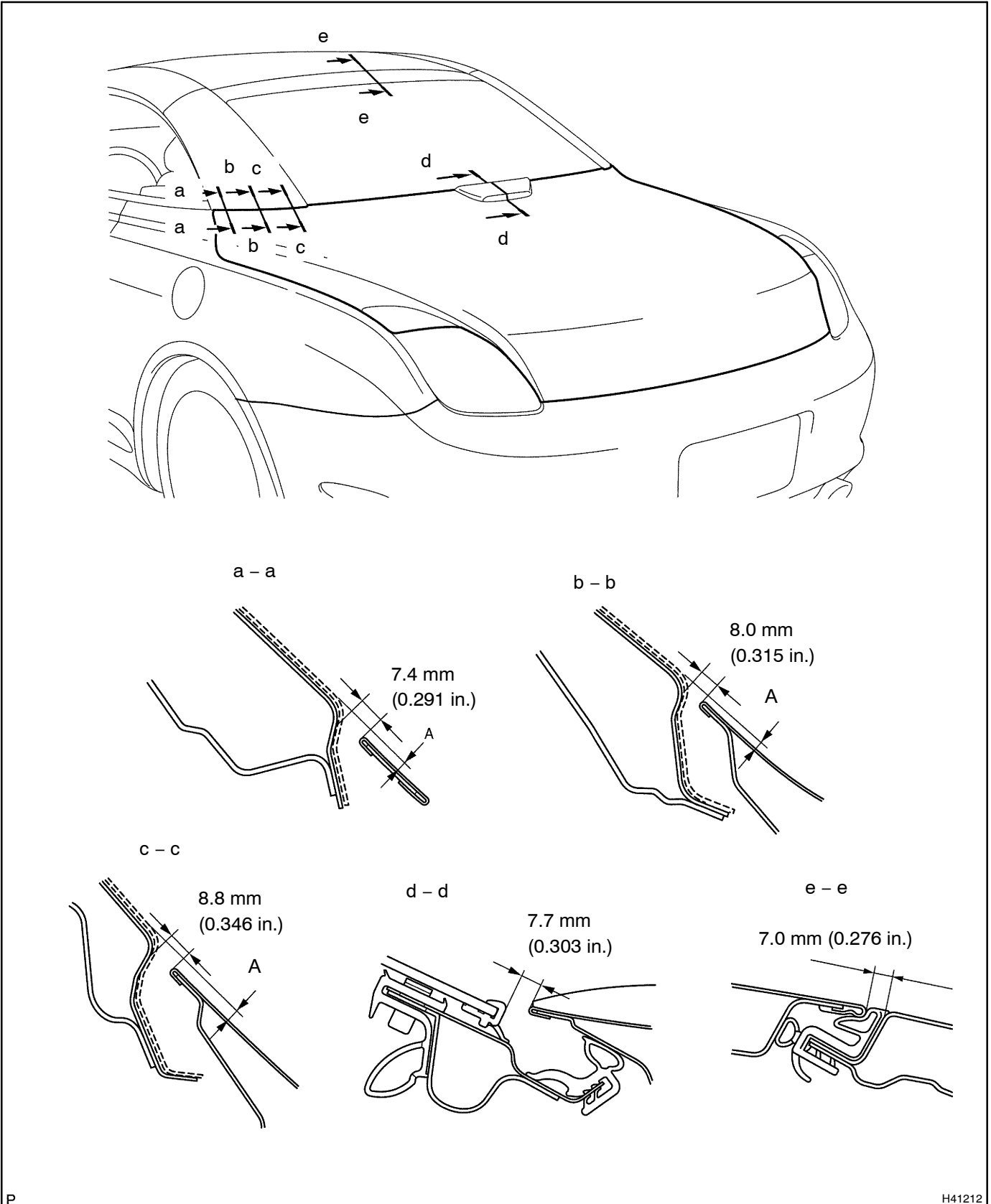


- (4) Check that the broken line "c" aligns approximately with the roof line.

## HINT:

Depending on the vehicle condition, the roof line may not align with the SST solid line "c". In such a case, adjust the retract amount of the roof lock.

- (w) Check the installation condition.  
**A: 1.5 mm (0.059 in.) or less**
- (1) Check the body installation condition.



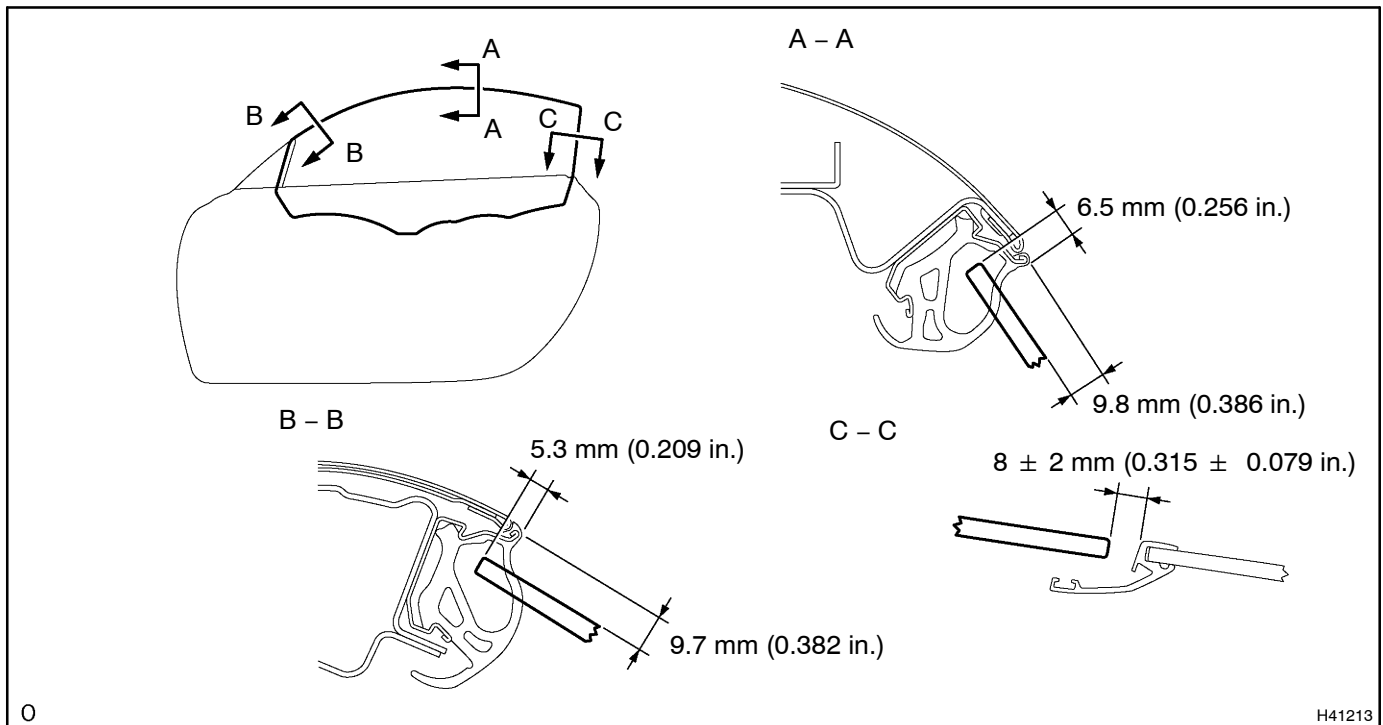
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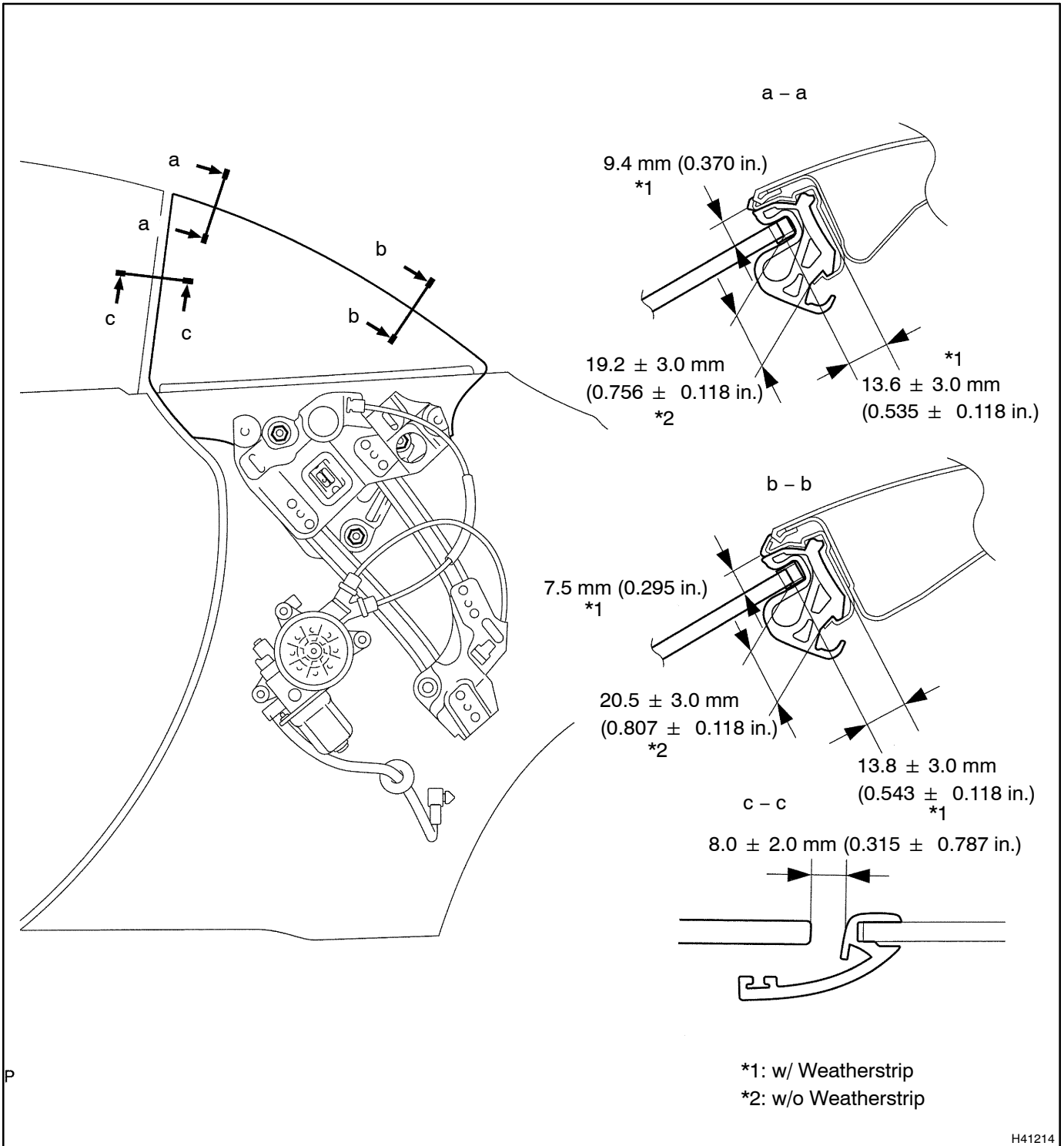


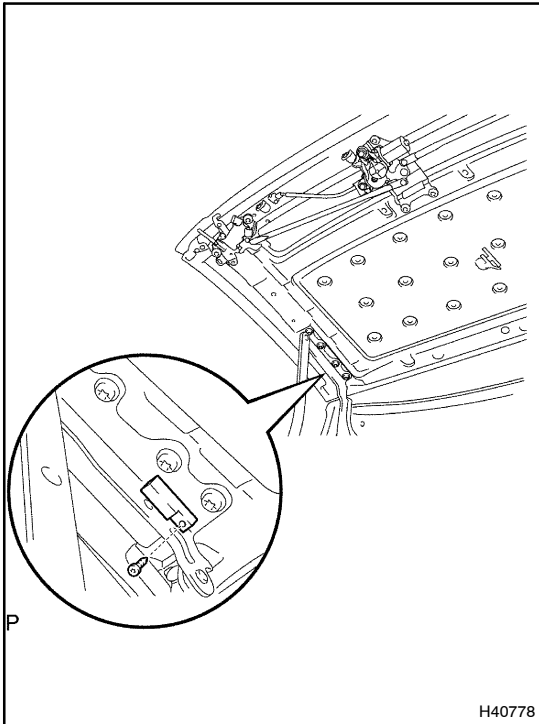
## HINT:

- If necessary, loose the bolts of back window upper frame and adjust the installation condition.
  - If shims are installed, remove them. If the distance is out of the standard value, go back to step 48 and operate again.
- (2) Check the front door glass installation condition.

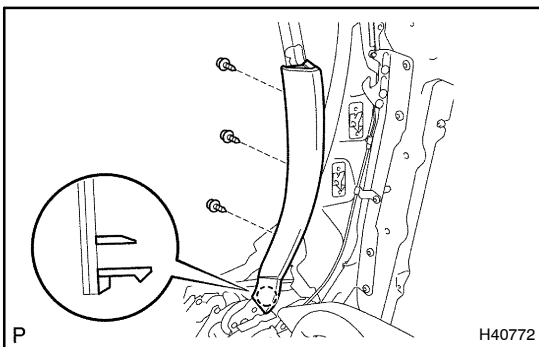


- (3) Check the quarter window glass installation condition.



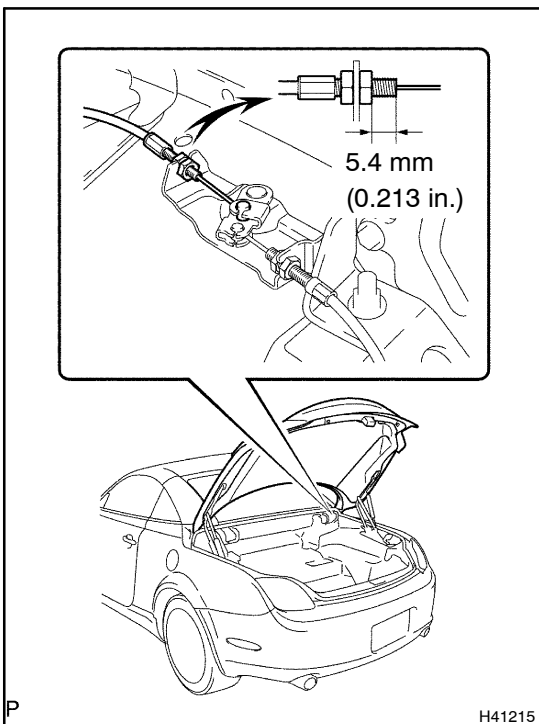


- (x) Using a torx driver, install the stopper cushion with the screw to the roof panel link RH.  
**Torx driver (T25): 09041-00020**
- (y) Use the same procedure in LH side.



#### 51. INSTALL ROOF SIDE RAIL GARNISH REAR RH

- (a) Install the roof side rail garnish rear RH with the 3 screws.



- (b) Connect the cable and fully tighten the nut.  
**Torque: 5.0 N·m (51 kgf·cm, 44 in·lbf)**

52. INSTALL ROOF HEADLINING ASSY REAR  
(See page 72-8)
53. INSTALL ROOF SIDE GARNISH INNER LH  
(See page 74-23)
54. INSTALL ROOF SIDE GARNISH INNER RH  
(See page 74-23)
55. INSTALL SUN ROOF OR REMOVABLE ROOF HEADLINING ASSY  
(See page 74-15)
56. INSTALL ROOF SIDE RAIL GARNISH ASSY LH  
(See page 74-15)
57. INSTALL ROOF SIDE RAIL GARNISH ASSY RH  
(See page 74-15)
58. INSTALL PACKAGE TRAY TRIM ASSY (See page 74-51)
59. INSTALL QUARTER TRIM PANEL ASSY FRONT LH  
(See page 74-51)
60. INSTALL QUARTER TRIM PANEL ASSY FRONT RH  
(See page 74-51)
61. INSTALL DOOR SCUFF PLATE ASSY LH  
(See page 74-51)
62. INSTALL DOOR SCUFF PLATE ASSY RH  
(See page 74-51)
63. INSTALL REAR SEAT BACK BOARD  
(See page 74-51)  
Torque: 18 N·m (184 kgf·cm, 13 ft·lbf)
64. INSTALL REAR SEAT BACK ASSY (See page 72-8)  
Torque:  
Bolt: 18 N·m (184 kgf·cm, 13 ft·lbf)  
Nut: 18 N·m (184 kgf·cm, 13 ft·lbf)
65. INSTALL LUGGAGE COMPARTMENT TRIM COVER SIDE LH
66. INSTALL LUGGAGE COMPARTMENT TRIM COVER SIDE RH
67. INSTALL LUGGAGE COMPARTMENT TRIM COVER FRONT
68. INSTALL REAR FLOOR FINISH SIDE PLATE LH
69. INSTALL REAR FLOOR FINISH SIDE PLATE RH
70. INSTALL LUGGAGE COMPARTMENT TRIM COVER INNER LOWER
71. INSTALL TONNEAU COVER ASSY
72. INSTALL TONNEAU COVER STOPPER SUB-ASSY LH
73. INSTALL TONNEAU COVER STOPPER SUB-ASSY RH
74. INSTALL LUGGAGE COMPARTMENT TRIM COVER SUB-ASSY REAR

- 75. INSTALL LUGGAGE HOLD BELT STRIKER ASSY
- 76. INSTALL TOOL BOX COVER
- 77. INSTALL LUGGAGE COMPARTMENT TRIM COVER LH
- 78. INSTALL LUGGAGE COMPARTMENT TRIM COVER RH
- 79. INSTALL LUGGAGE COMPARTMENT FLOOR MAT
- 80. INSTALL SPARE DISC WHEEL
- 81. INSTALL SPARE WHEEL COVER ASSY
- 82. INSTALL REAR FLOOR FINISH PLATE