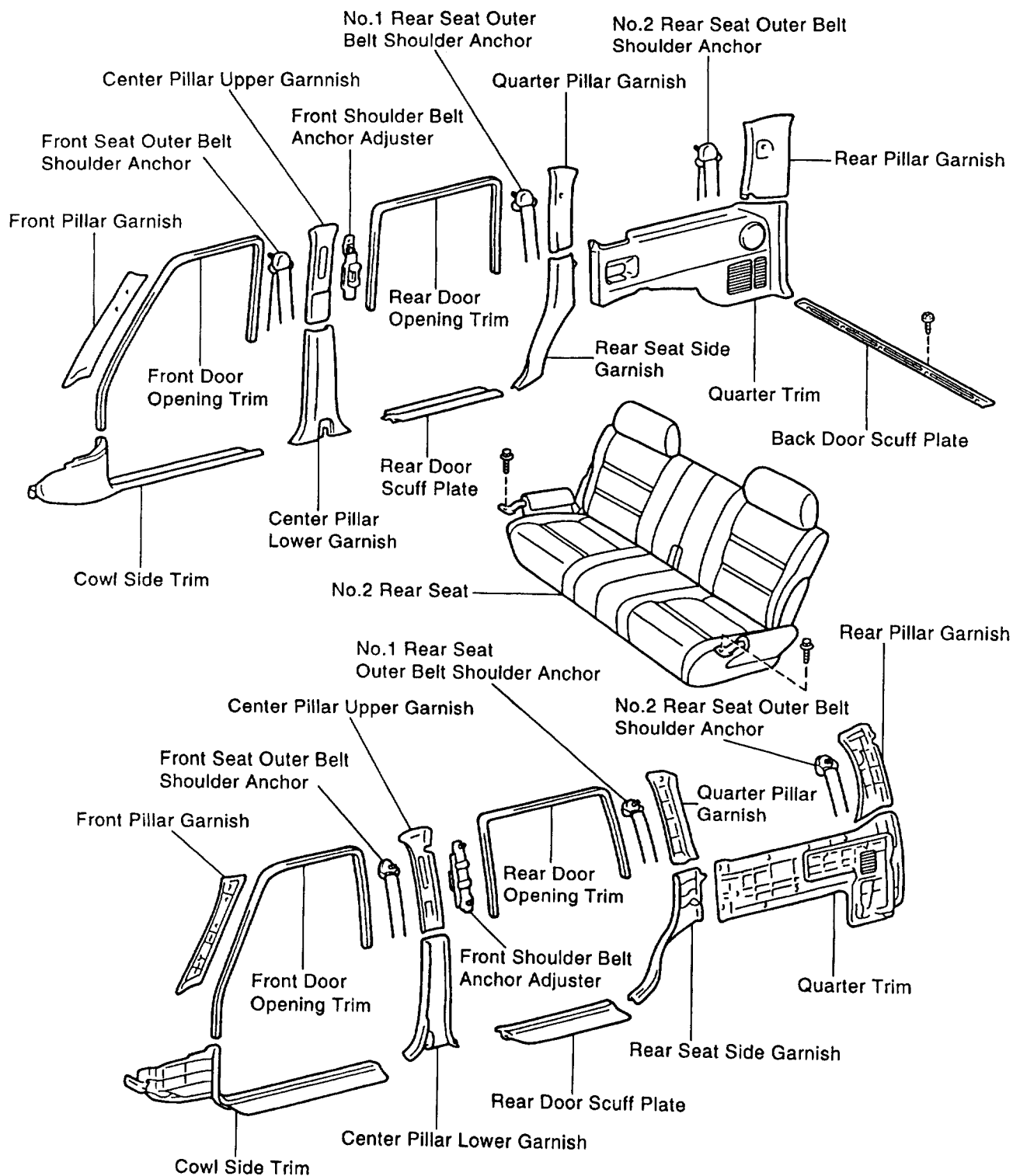
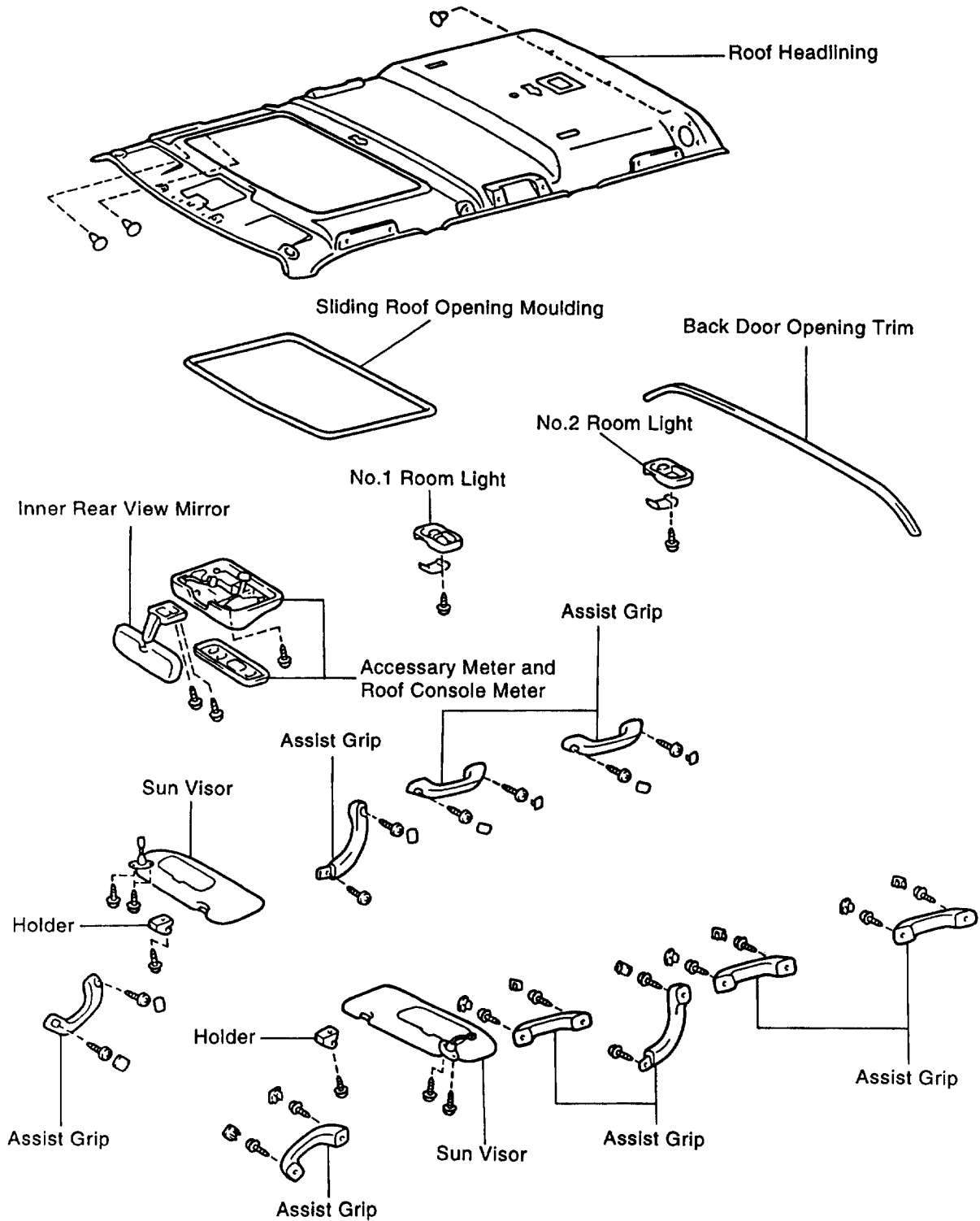


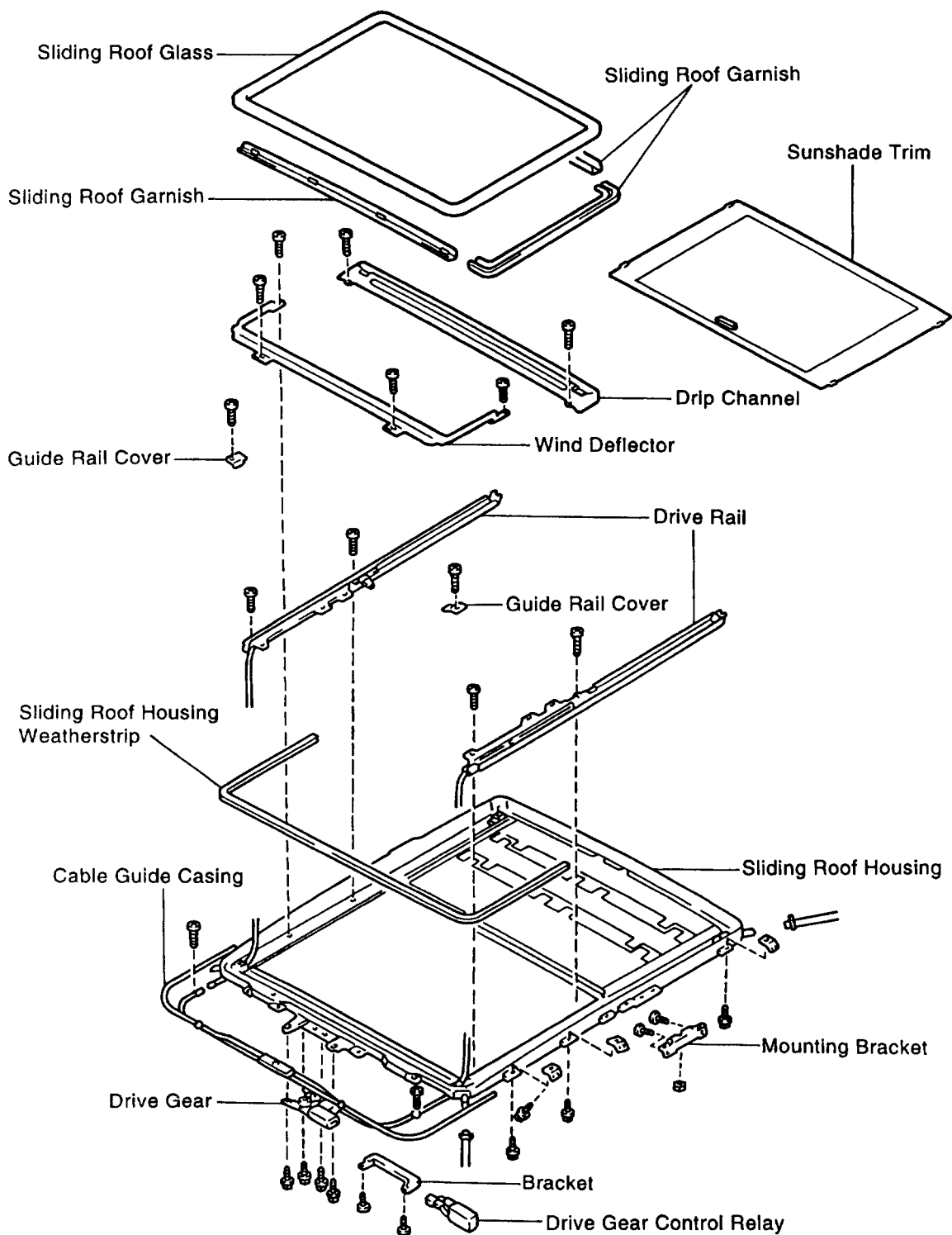
SLIDING ROOF COMPONENTS

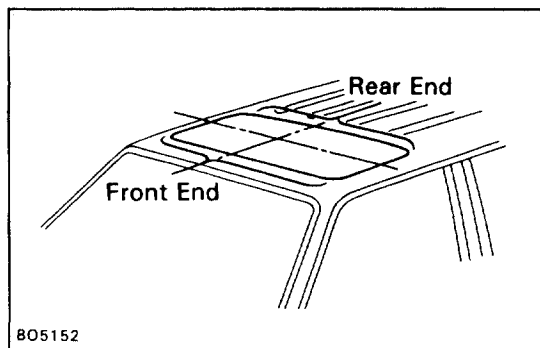


COMPONENTS (Cont'd)



COMPONENTS (Cont'd)





BO5152

ON-VEHICLE INSPECTION

INSPECT SLIDING ROOF GLASS ALIGNMENT

- (a) Start the engine and check the operation time of the sliding roof.

Operation time:

Approx. 5 sec.

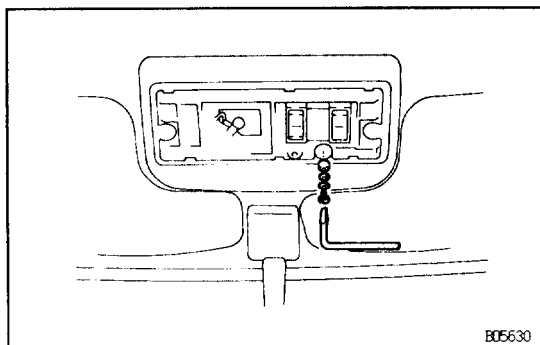
- (b) Check for abnormal noise or binding during operation.
 (c) With the sliding roof fully closed, check for water leakage.
 (d) Check for a difference in level between the sliding roof weatherstrip and roof panel.

Front end:

0.9–3.9 mm (0.035–0.154 in.)

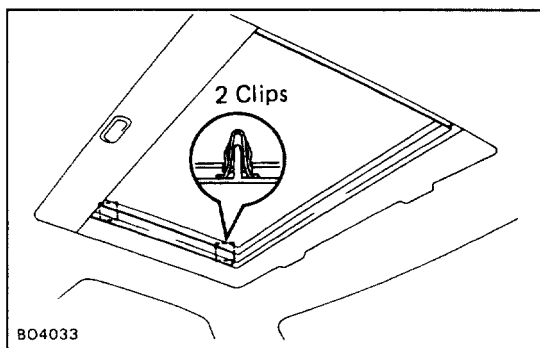
Rear end:

0.9–3.9 mm (0.035–0.154 in.)



If the sliding roof does not operate:

- (e) Remove the control switch cover.
 (f) Remove the large screw inside.
NOTICE: Be careful not to lose the spring washer or shim.
 (g) Manually operate the moon roof by inserting a special crank-shaped screwdriver into the hole and turning the drive shaft.



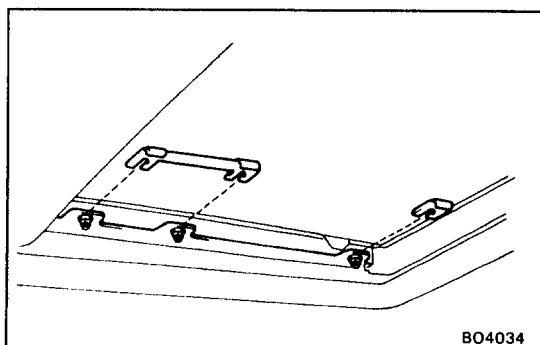
BO4033

SLIDING ROOF ADJUSTMENT

1. REMOVE SLIDING ROOF GARNISHES

Before making adjustments, remove the left and right sliding roof garnishes.

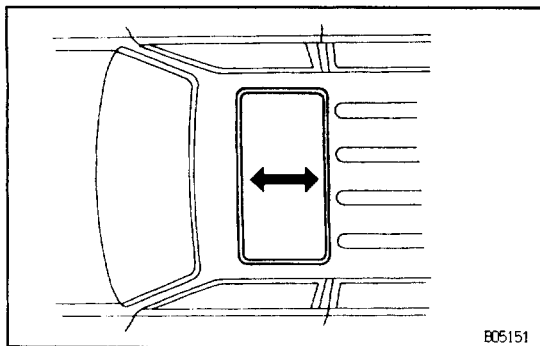
HINT: After adjustment, reinstall the sliding roof garnishes.



BO4034

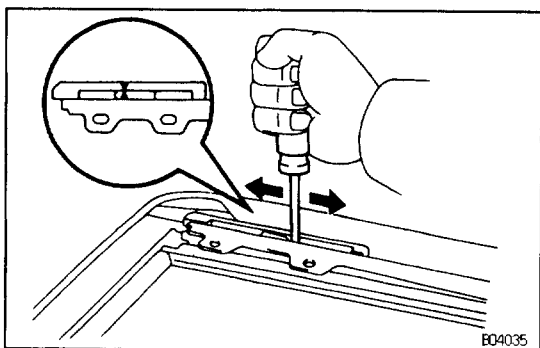
2. TO ADJUST LEVEL DIFFERENCE

Adjust by increasing or decreasing the number of shims between the bracket and sliding roof.

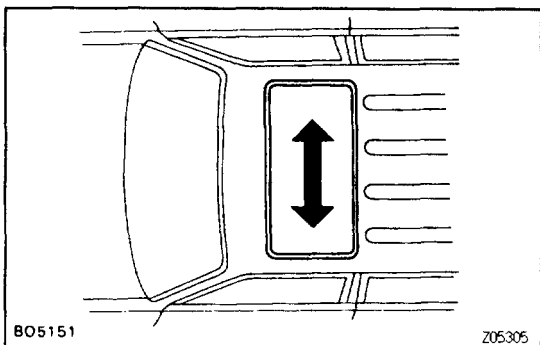


3. TO ADJUST FORWARD OR REARWARD

- (a) Adjust by loosening the sliding roof installation nuts, and move the sliding roof bracket forwards and back-wards.

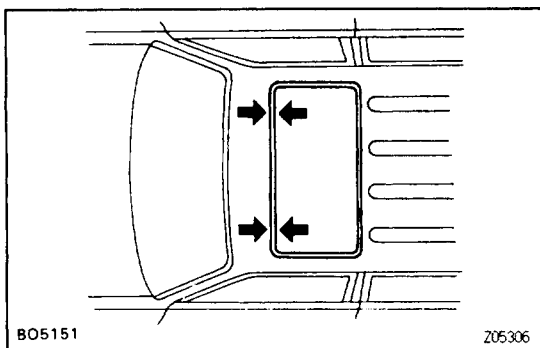


- (b) When the front or rear alignment is not correct, remove the glass and adjust the drive rail.
- (c) Using a screwdriver, slide the link forwards or back-wards to align the 2 marks, as shown.
- (d) Slide the bracket to the forefront with your hand.



4. TO ADJUST RIGHT OR LEFT

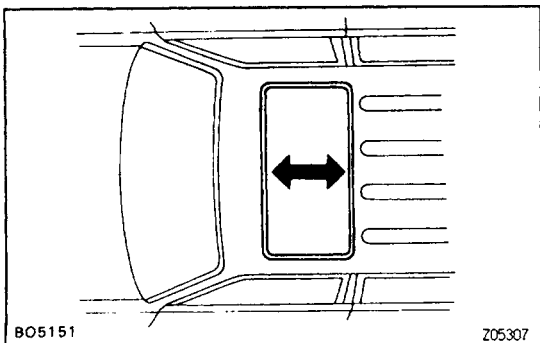
Adjust by loosening the sliding roof rear shoe installation nuts, and move the sliding roof to the right and left.



5. TO ADJUST CLEARANCE

(Difference in left and right clearance)

Adjust by loosening the sliding roof installation nuts and readjust the sliding roof to the proper position.

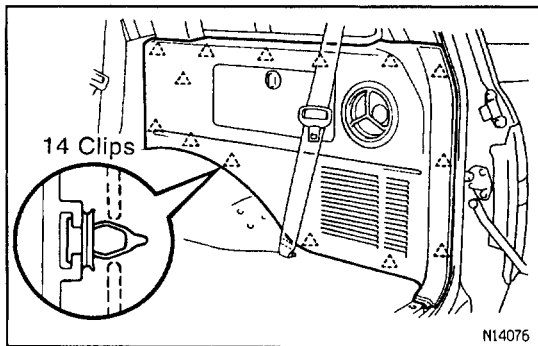
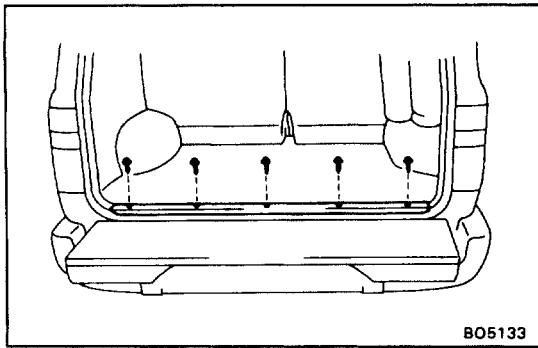


SLIDING ROOF REMOVAL

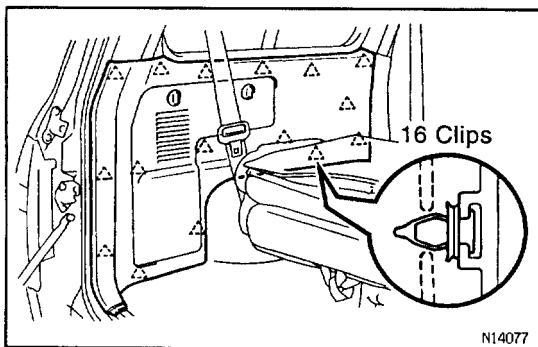
Installation is in the reverse order of removal.

1. **CHECK OPERATION TO THE SLIDING ROOF**
2. **REMOVE THESE PARTS:**

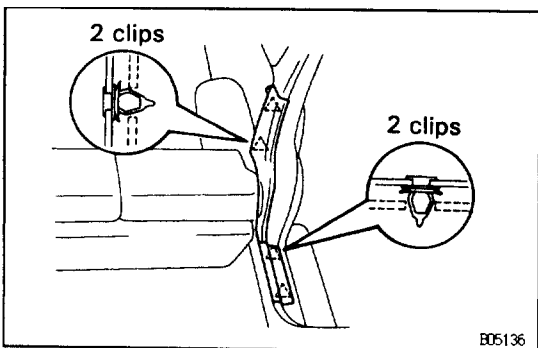
- (a) Back door scuff plate
- (b) w/No.2 Rear Seat
No.2 rear seat



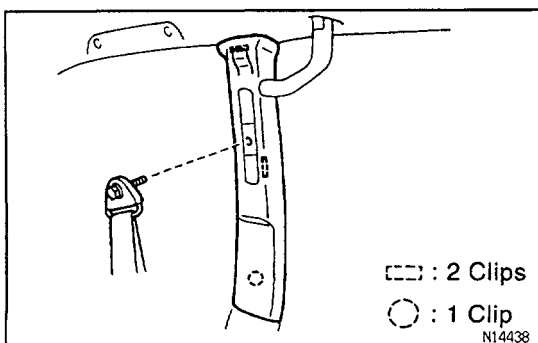
- (c) Quarter trim (RH)



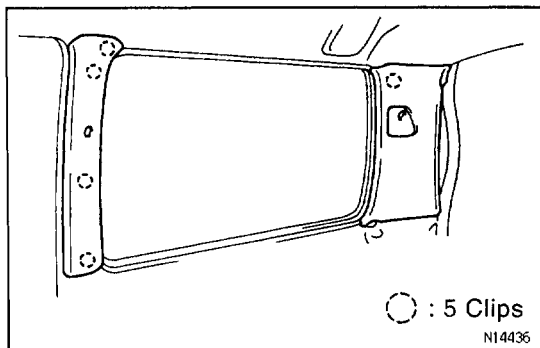
- (d) Quarter trim (LH)



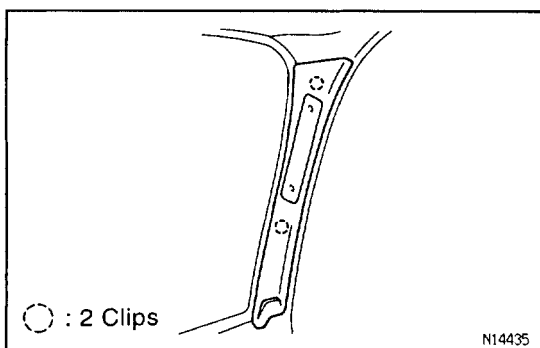
- (e) Rear seat side garnish
- (f) Rear door scuff plate
- (g) Cowl side trim
- (h) Front door opening trim
- (i) Rear door opening trim
- (j) Center pillar lower garnish



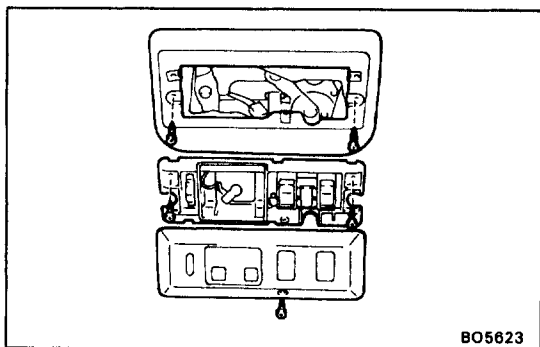
- (k) Front seat outer belt shoulder anchor
- (l) Center pillar upper garnish
- (m) Front shoulder belt anchor adjuster
- (n) No.1 rear seat outer belt shoulder anchor
- (o) w/ No.2 Rear Seat
No.2 rear seat outer belt shoulder anchor



- (p) Quarter pillar garnish
- (q) Rear pillar garnish
- (r) Assist grips

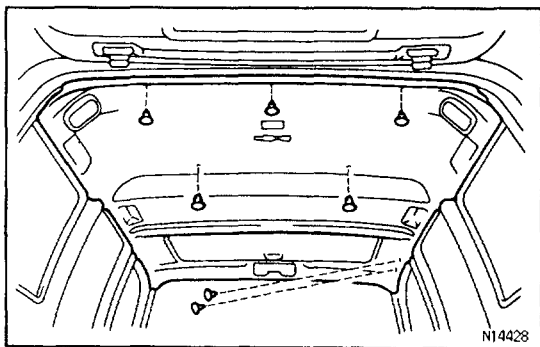


- (s) Front pillar garnish
- (t) Sun visors and holders
- (u) Inner rear view mirror
- (v) No.1 room light
- (w) No.2 room light
- (x) Back door opening trim
- (v) Sliding roof opening moulding



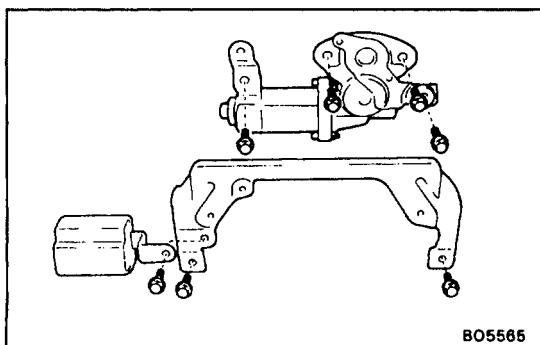
3. REMOVE CONTROL SWITCH

- (a) Remove the screw.
- (b) Using the screwdriver, remove the switch cover.
HINT: Tape a screwdriver tip before use.
- (c) Remove the 2 screws and the switch body, then disconnect the connector.
- (d) Remove the 2 screws and the bracket.



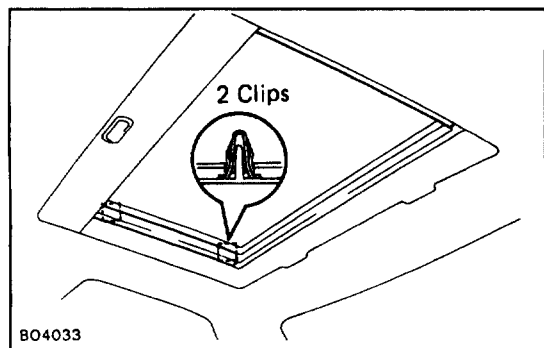
4. REMOVE ROOF HEADLINING

- (a) Using the clip remover, remove the 7 clips.
- (b) Remove the roof headlining.



5. REMOVE DRIVE GEAR ASSEMBLY

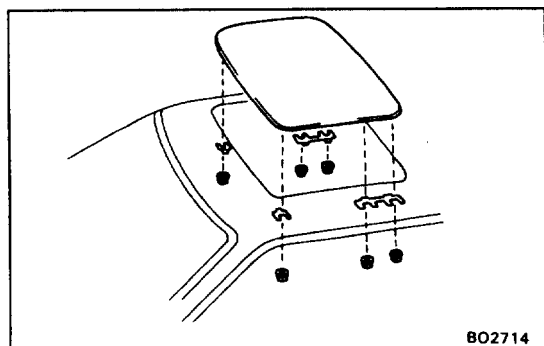
- (a) Remove the bolt and the drive gear control relay, then disconnect the connector.
- (b) Remove the 2 bolts and the bracket.
- (c) Remove the 4 bolts and the drive gear assembly, then disconnect the connector.



6. REMOVE SLIDING ROOF GARNISHES

Using the screwdriver, pry loose the 2 clips and remove the inner side garnish.

HINT: Tape a screwdriver tip before use.

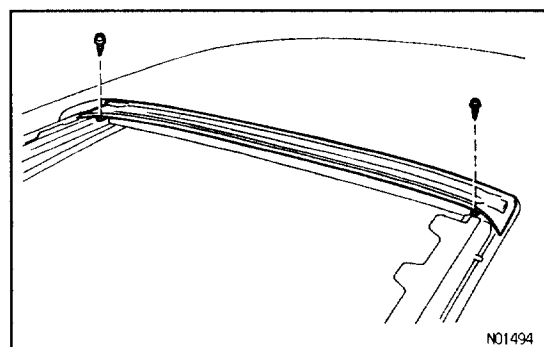


7. REMOVE SLIDING ROOF GLASS

(a) Remove the 6 nuts and shims.

HINT: Make sure of the number of shims.

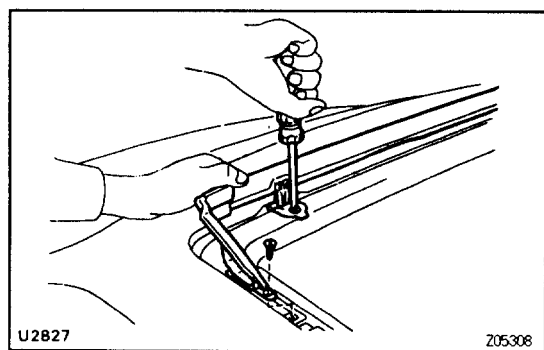
(b) Pull the glass upward to remove it.



8. REMOVE DRIP CHANNEL

(a) Remove the 2 screws.

(b) Pull the channel forwards to remove it.



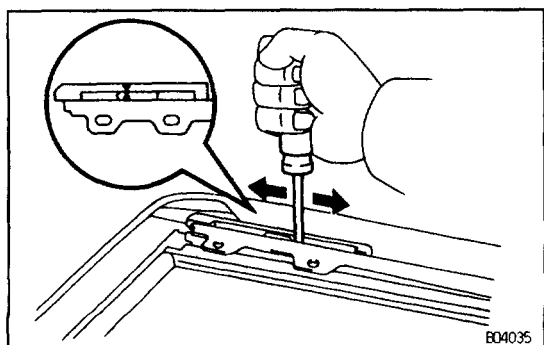
9. REMOVE WIND DEFLECTOR

Remove the 4 screws and the wind deflector.

10. REMOVE SLIDING ROOF HOUSING

(a) Disconnect the drain hose.

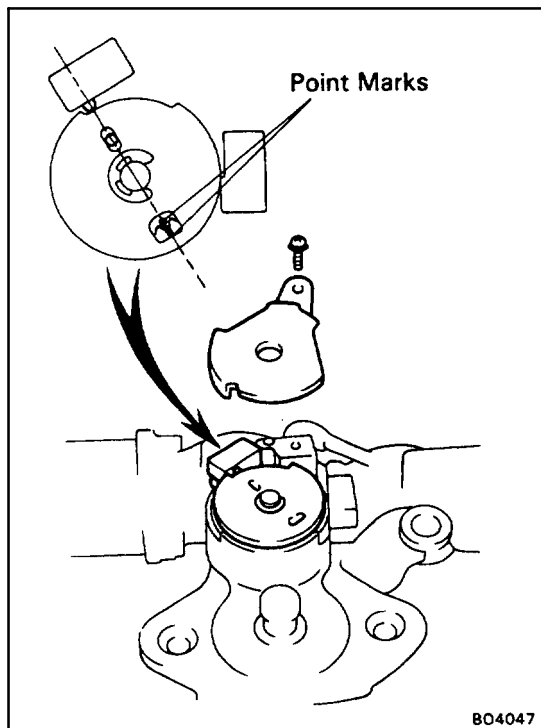
(b) Remove the 3 nuts, 12 screw and the housing.



11. ADJUST DRIVE RAIL

HINT: Adjust the drive rail to a closed and tilted down position.

Using a screwdriver, slide the link forward or back-ward to align the 2 marks, as shown.

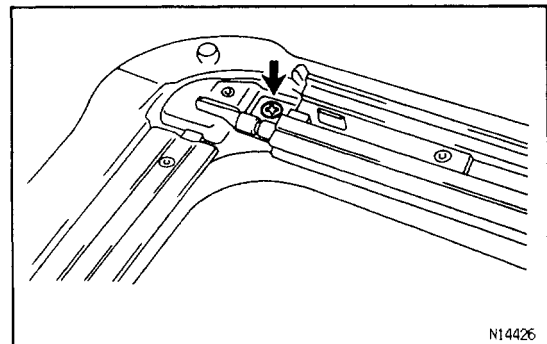


12. ADJUST AND INSTALL DRIVE GEAR ASSEMBLY

- (a) Remove the screw and cam plate cover.
- (b) Remove the large screw, washers and shims.
- (c) Turn the drive shaft by screwdriver to align the housing and gear point mark, as shown.
- (d) Install the cam plate cover with the screw.
- (e) Install the drive gear assembly with 4 bolts.
- (f) Connect the connector.

13. INSTALL DRIVE GEAR CONTROL RELAY AND BRACKET

- (a) Install the bracket with 2 bolts.
- (b) Install the drive gear control relay with the bolt, then connect the connector.

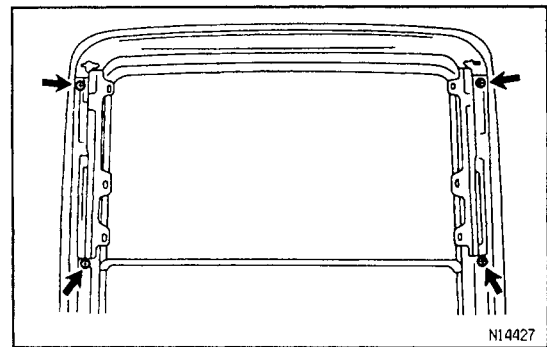


SLIDING ROOF DISASSEMBLY

Assembly is in the reverse order of disassembly.

1. DISCONNECT SLIDING ROOF GUIDE RAIL AND CABLE GUIDE CASING

- (a) Remove the screw and guide rail cover.
- (b) Remove the screw.
- (c) Pull out the cable guide casing.



2. REMOVE SLIDING GUIDE RAIL

- (a) Make the drive cable to the front edge.
- (b) Remove the 4 screws and both side drive rails.
- (c) Remove the sunshade trim.