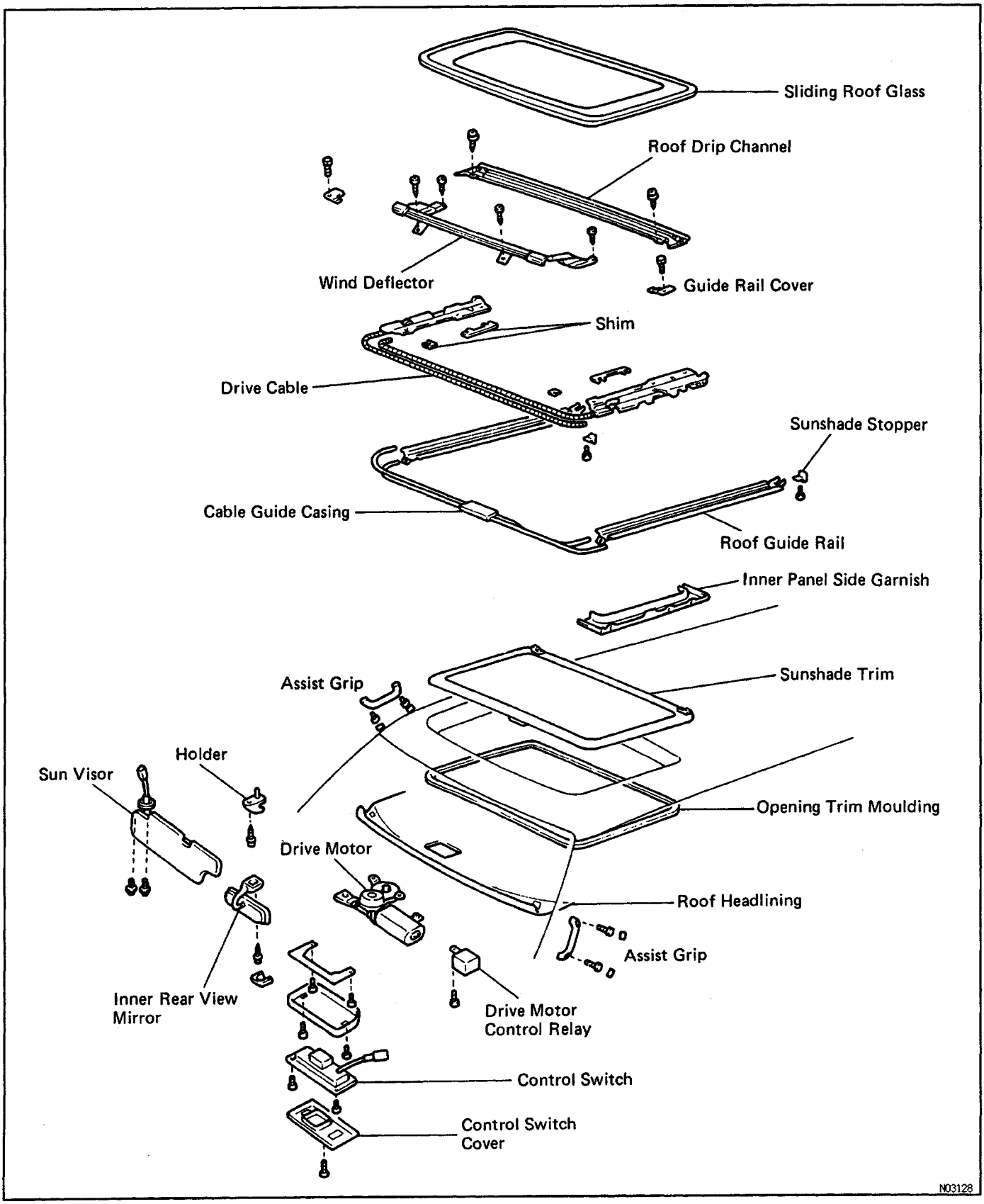
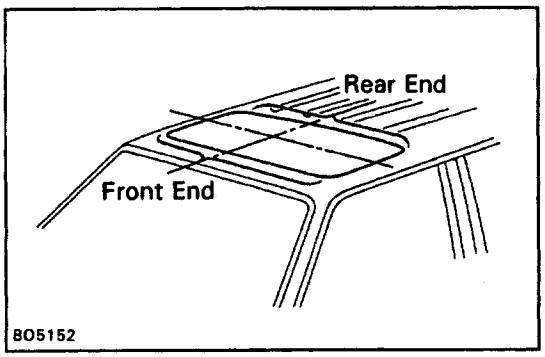
SLIDING ROOF

BO081-01

COMPONENTS





BO032-03

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.

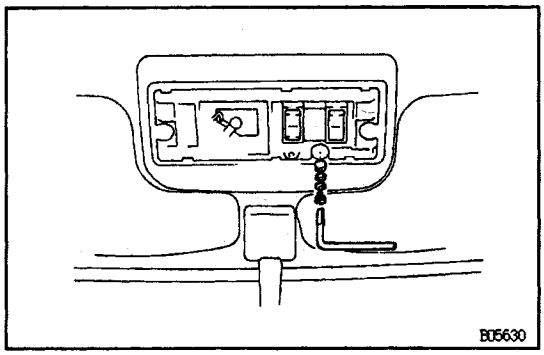
(d) Check for a difference in level between the sliding roof weatherstrip and roof panel.

Front end:

0.9 - 3.9 mm (0.035 - 0.154 in.)

Rear end:

0.9 - 3.9 mm (0.035 - 0.154 in.)



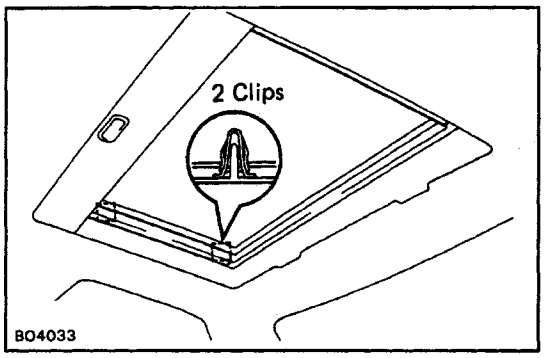
If the sliding roof does not operate:

(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.



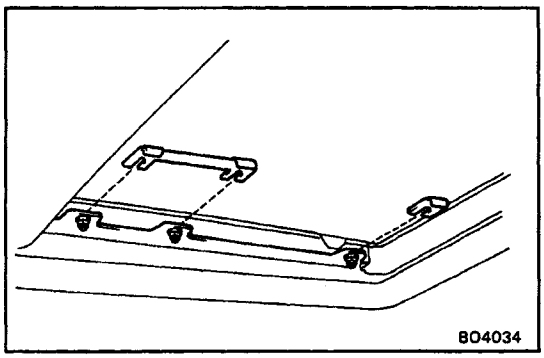
BO0UJ-02

SLIDING ROOF ADJUSTMENT

1. REMOVE SLIDING ROOF GARNISHES

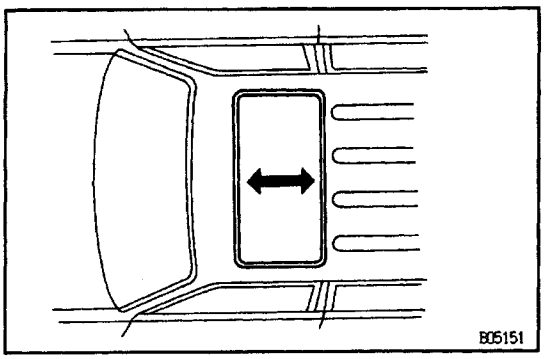
Before making adjustments, remove the left and right sliding roof garnishes.

HINT: After adjustment, reinstall the sliding roof garnishes.



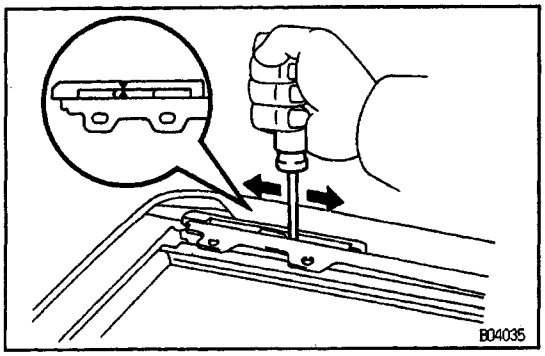
2. TO ADJUST LEVEL DIFFERENCE

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

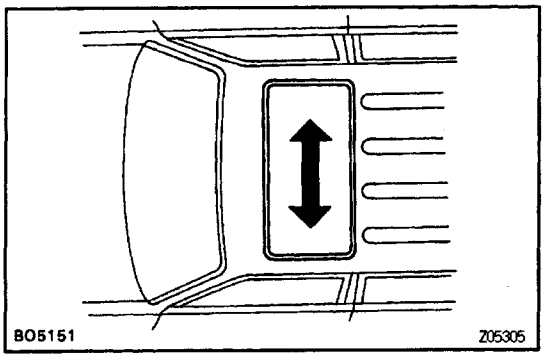


3. TO ADJUST FORWARD OR REARWARD

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

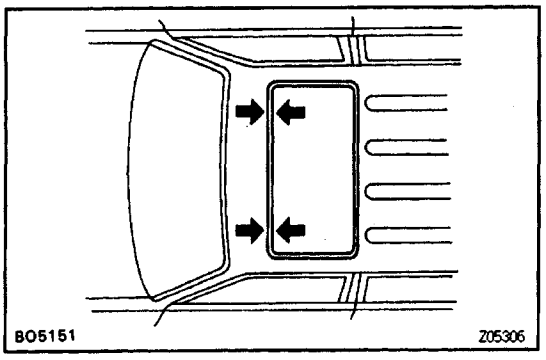


(b) When the front or rear alignment is not correct, remove the glass and adjust the drive rail.
(c) Using a screwdriver, slide the link forwards or backwards to align the 2 marks, as shown.
(d) Slide the bracket to the forefront with your hand.

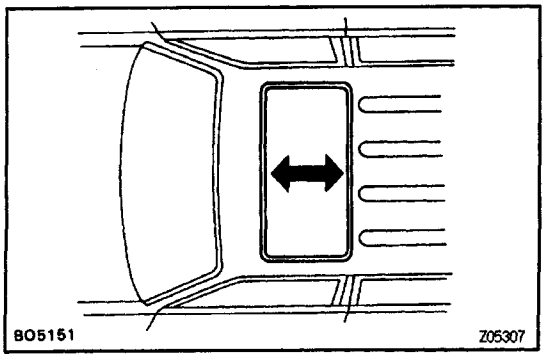


4. TO ADJUST RIGHT OR LEFT

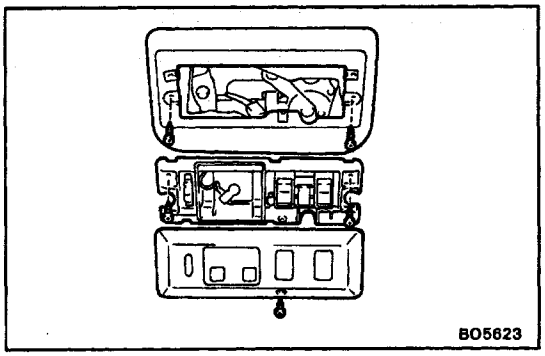
Adjust by loosening the sliding roof rear shoe installation nuts, and move the sliding roof to the right and left.



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.



BO0UK–02

SLIDING ROOF REMOVAL

1. DISCONNECT BATTERY CABLE FROM NEGATIVE TERMINAL

2. REMOVE CONTROL SWITCH

(a) Remove the screw and the switch cover.

(b) Remove 2 screws and the switch body , then disconnect the connector.

(c) Remove 2 screws and the bracket.

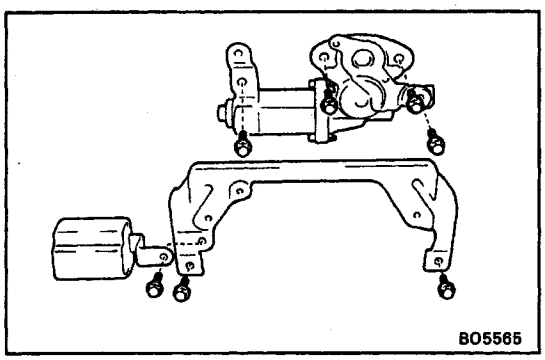
3. REMOVE FOLLOWING PARTS:

- Assist grip
- Sunvisors and holders
- Inner rear view mirror
- Opening trim moulding

4. PULL DOWN FRONT SLIDE OF ROOF HEADLINING

Pull down the headlining by hand.

NOTICE: Do not damage the roof headlining.

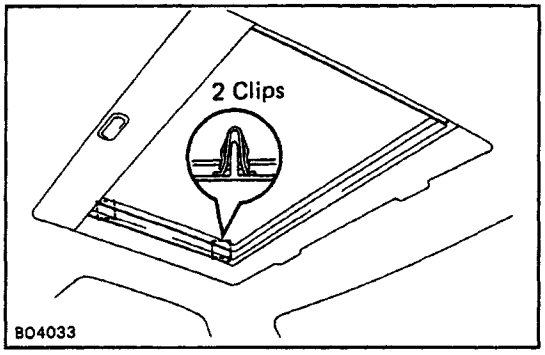


5. REMOVE DRIVE GEAR ASSEMBLY

(a) Remove the bolt and the sliding roof control relay, then disconnect the connector.

(b) Remove 2 bolts and the bracket.

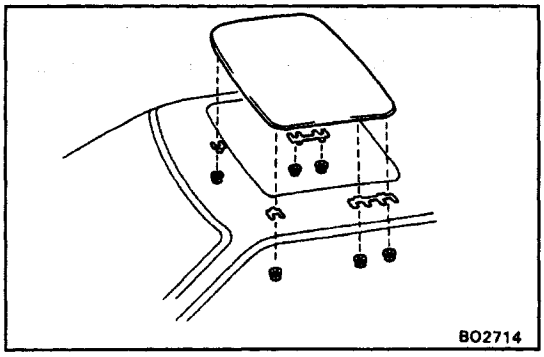
(c) Remove 4 bolts and the gear assembly, then disconnect the connector.



6. REMOVE SLIDING ROOF GARNISHES

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

HINT: Tape the screwdriver tip before use.

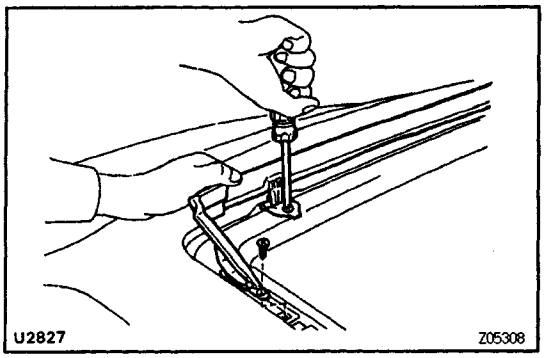


7. REMOVE SLIDING ROOF GLASS

(a) Remove 6 nuts and shims.

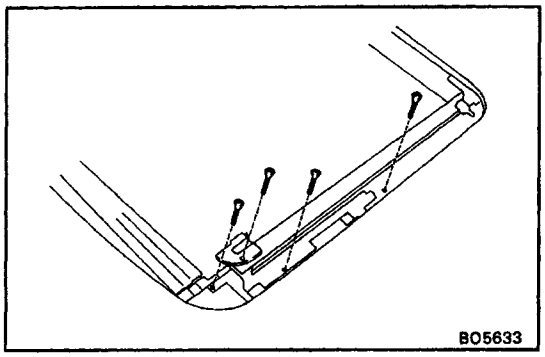
HINT: Make sure of the number of shims.

(b) Pull the glass upward to remove it.



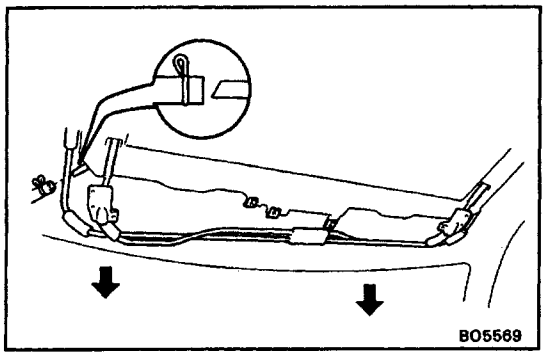
8. REMOVE WIND DEFLECTOR

Remove 4 screws and the wind deflector.

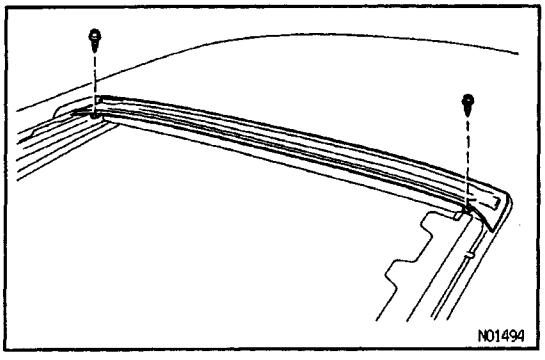


9. REMOVE CABLE GUIDE CASING

(a) Remove the screw and the guide rail cover.
(b) Remove 3 screws from the drive rail.
(c) Slide the drive cable forward.

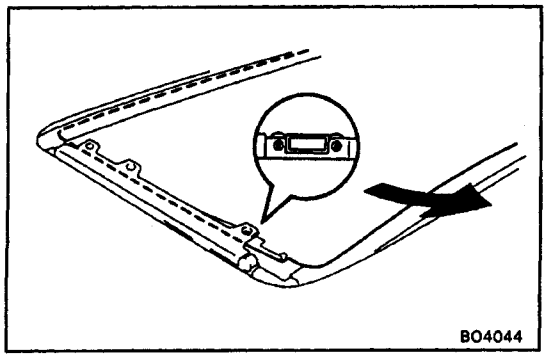


(d) Disconnect front side of the drain hose.
HINT: Disconnect the drain hose from the sliding roof housing side.
(e) Remove the cable guide casing gradually from both sides.
NOTICE: Be careful that the oily cable doesn't fall off.



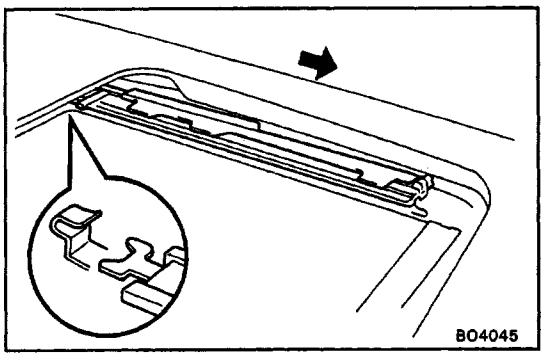
10. REMOVE ROOF DRIP CHANNEL

(a) Remove 2 screws.
(b) Pull the channel forwards to remove it.



11. REMOVE SUNSHADE TRIM

While raising the drive rail, pull the trim forward to remove it.



12. REMOVE DRIVE RAIL

(a) Slide the drive cable forwards.

(b) Slide the rail forward and disconnect the clamp, then remove it.

SLIDING ROOF INSTALLATION

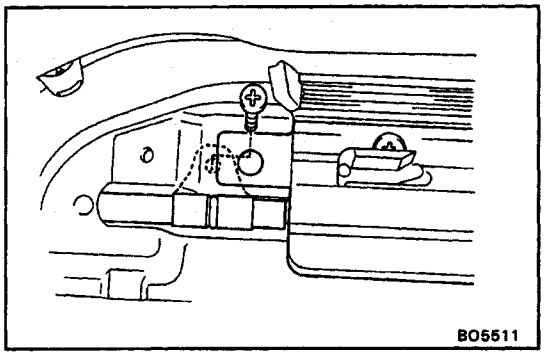
BO0UL-02

1. INSTALL FOLLOWING PARTS:

(a) Drive rail

(b) Sunshade trim

(c) Roof drip channel



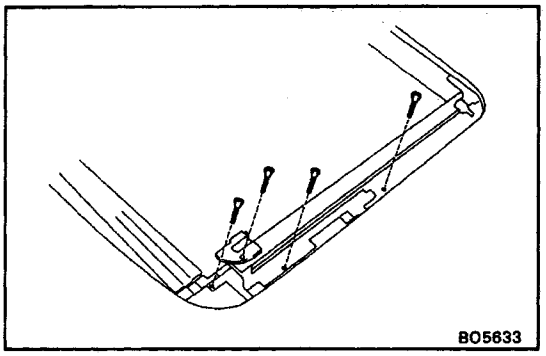
2. INSTALL CABLE GUIDE CASING

(a) Insert the cable to the casing and install the cable guide gradually to both sides.

(b) Insert the casing to the drive rail, as shown.

(c) Connect the front side of drain hose.

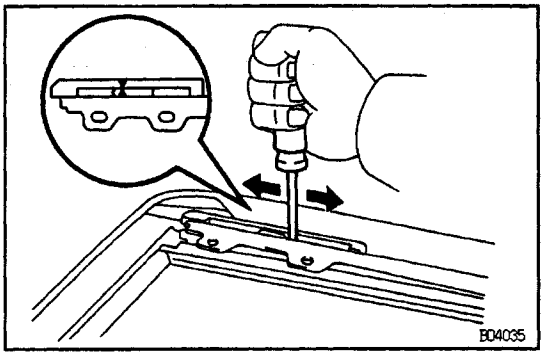
HINT: Place the knobs of clips to upper side.



(d) Install 3 screws to the drive rail.

(e) Install the screw to the guide rail cover.

3. INSTALL WIND DEFLECTOR

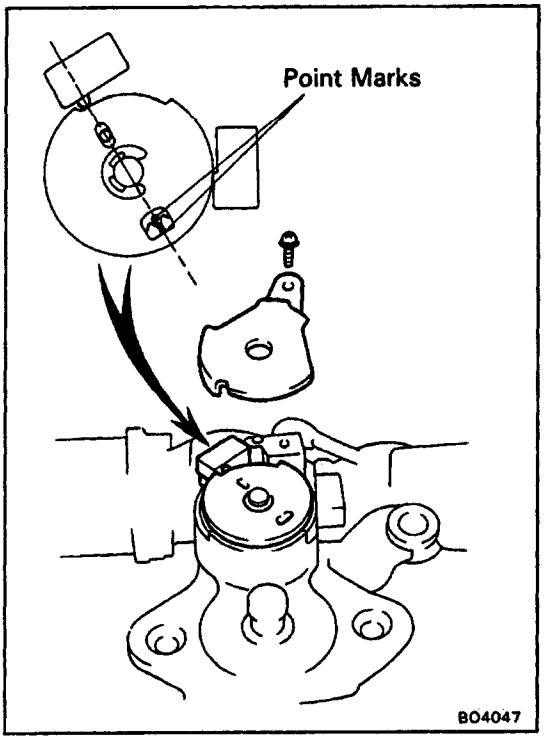


4. ADJUST DRIVE RAIL

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

(a) Using a screwdriver, slide the link forward or backward to align the 2 marks, as shown.

(b) Slide the bracket to the forefront with your hand.

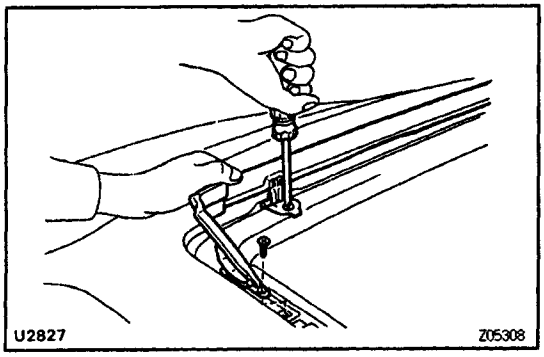


5. ADJUST AND INSTALL DRIVE GEAR ASSEMBLY

(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 cam plate cover with the screw.
(e) Install the drive gear assembly with 4 bolts.
(f) Connect the connectors.

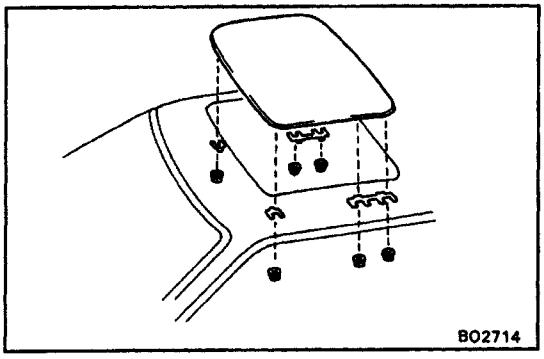
6. INSTALL SLIDING ROOF CONTROL RELAY AND BRACKET

(a) Install the bracket with 2 bolts.
(b) Install the sliding roof control relay with the bolt, then connect the connector.



7. INSTALL WIND DEFLECTOR

Install the wind deflector with 4 screws.



8. INSTALL SLIDING GLASS

HINT:

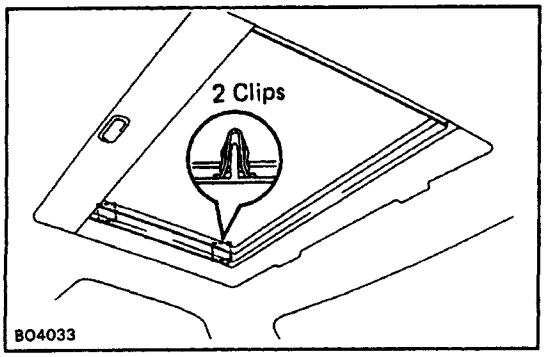
- Confirm that the lip part of the weatherstrip housing is not twisted.
- Confirm that the clearance between the left and right of the sliding roof glass and roof panel are equal.

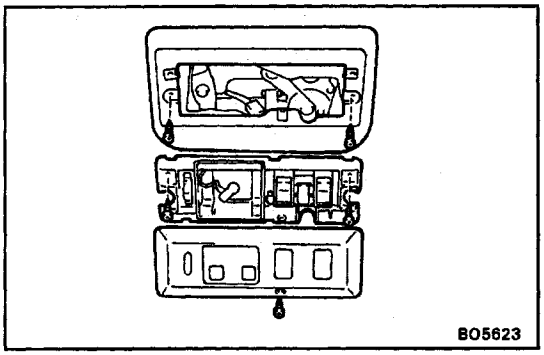
  Install6 nuts and shims.

9. INSPECT SLIDING ROOF GLASS ALIGNMENT

10. INSTALL SLIDING ROOF GARNISHES

Install the inner panel side garnish with retainers to the sliding roof glass by tapping.





11. INSTALL CONTROL SWITCH

(a) Install the bracket with 2 screws.
(b) Install the switch body with 2 screws, then connect the connectors.
(c) Install the switch cover with the screw.

12. INSTALL FOLLOWING PARTS:

- Assist grip
- Sunvisors and holders
- Inner rear view mirror
- Opening trim moulding

13. CONNECT BATTERY CABLE TO NEGATIVE TERMINAL

14. CHECK OPERATION TO THE SLIDING ROOF