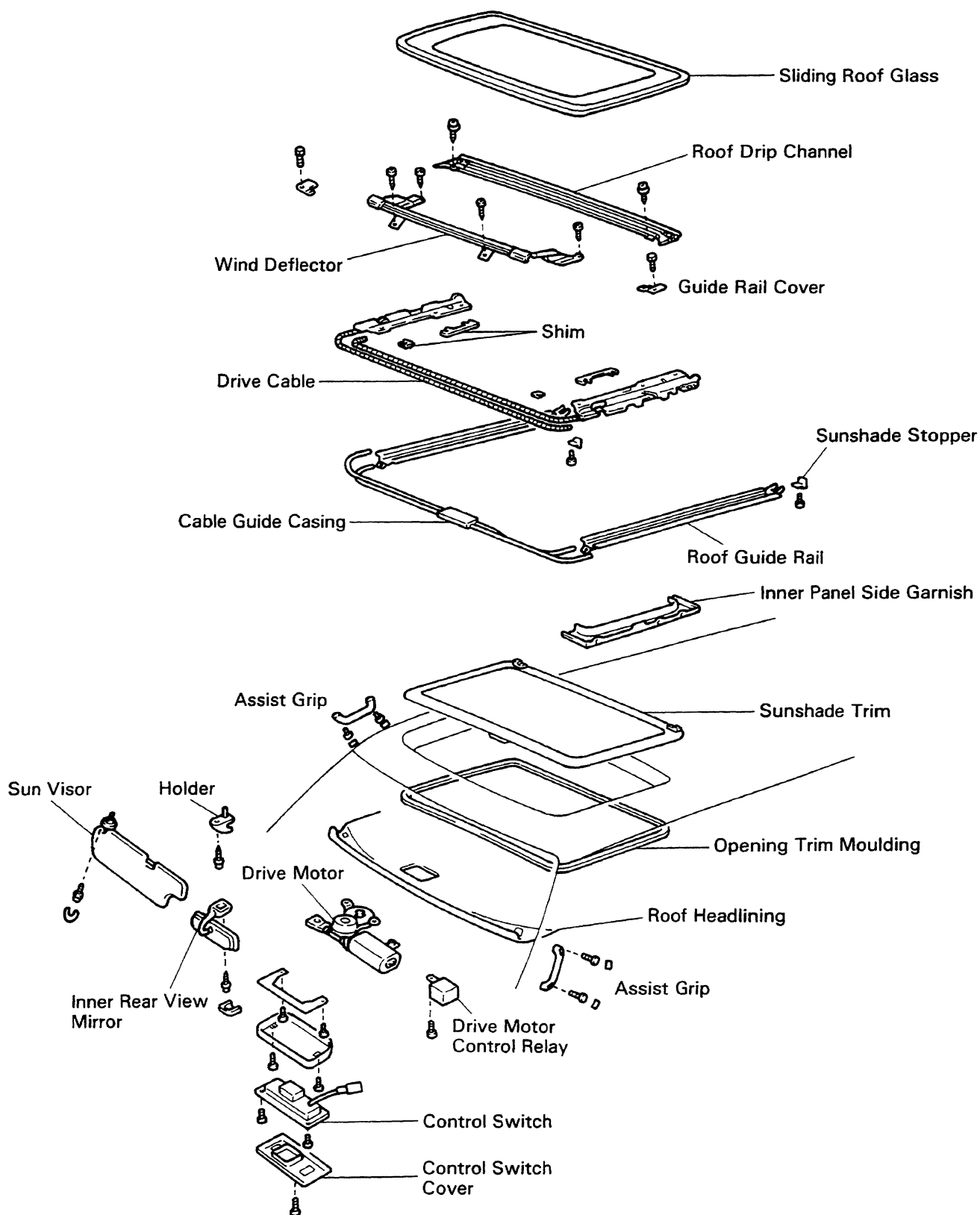
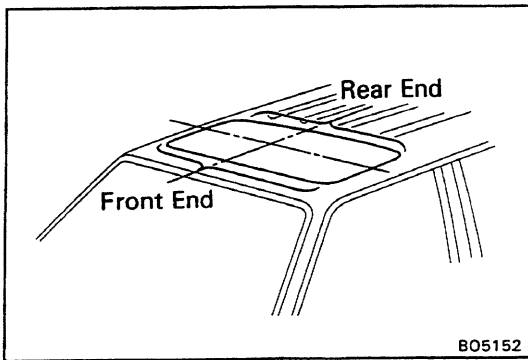


MOON ROOF COMPONENTS





ON-VEHICLE INSPECTION

INSPECT SLIDING ROOF PANEL 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 glass and roof panel.

Front side: 1.9 + 2.0 mm (0.075 + 0.079 in.)

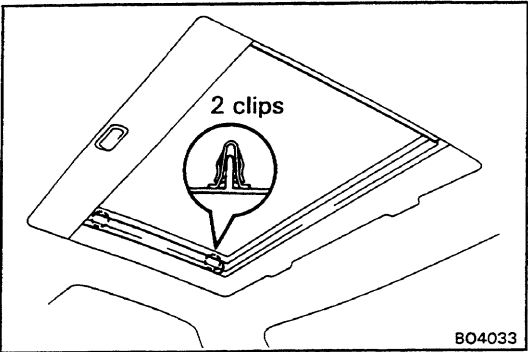
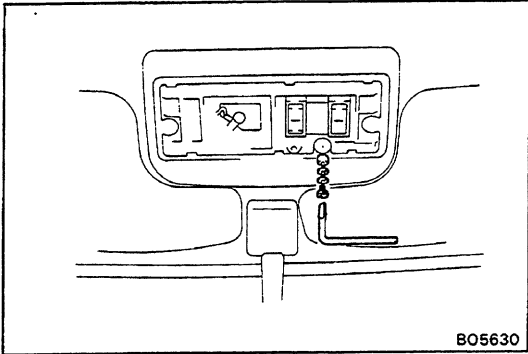
-1.0 -0.039

Rear side: 1.9 + 2.0 mm (0.075 + 0.079 in.)

-1.0 -0.039

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.



ADJUSTMENT OF SLIDING ROOF

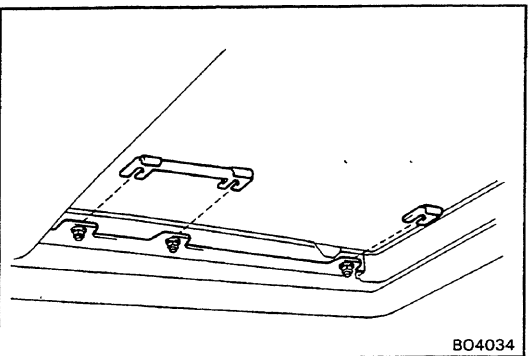
1. REMOVE SLIDING ROOF GARNISHES

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

HINT: After adjustment, reinstall the sliding roof garnishes.

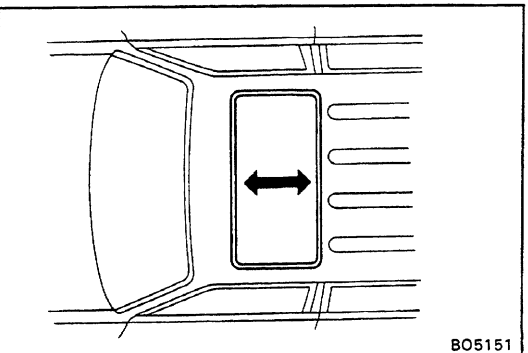
2. TO ADJUST LEVEL DIFFERENCE

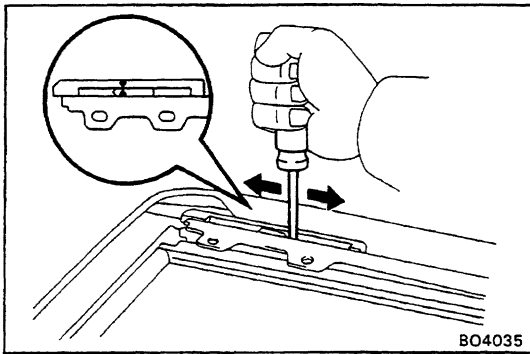
Adjust by increasing or decreasing the number of shims between the bracket and sliding roof.



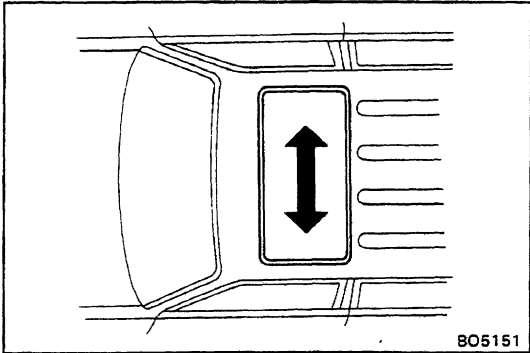
3. TO ADJUST FORWARD OR REARWARD

- (a) Adjust by loosening the sliding roof installation nuts, and move the sliding roof bracket forward and backward.



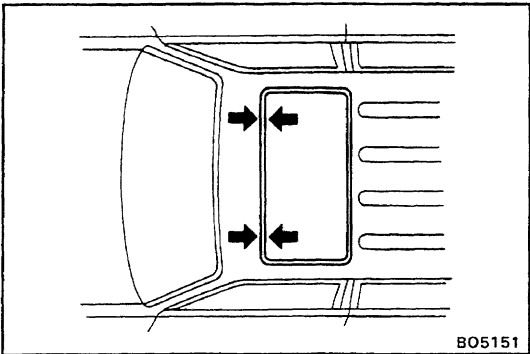


- (b) When the front or rear alignment is not correct, remove the glass and adjust the drive rail.
- (c) Using a screwdriver, slide the link forward or backward to align the two marks as shown.
- (d) Slide the bracket to the forefront with your hand.



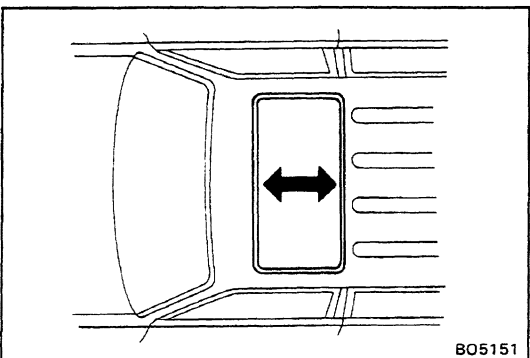
4. TO ADJUST RIGHT OR LEFT

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

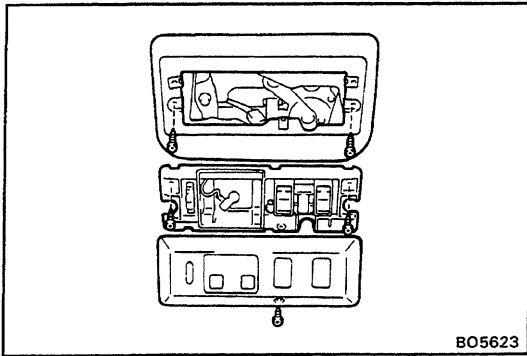


5. TO ADJUST CLEARANCE

(Difference in left and right clearance)



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



REMOVAL OF MOON ROOF

(See page [BO-54](#))

1. DISCONNECT BATTERY CABLE FROM NEGATIVE TERMINAL

2. REMOVE CONTROL SWITCH

- Remove the screw and the switch cover.
- Remove two screws and the switch body, then disconnect the connector.
- Remove two screws and the bracket.

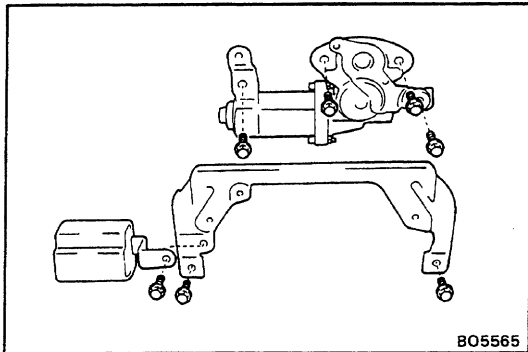
3. REMOVE FOLLOWING PARTS:

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

4. PULL DOWN FRONT SLIDE OF ROOF HEADLINING

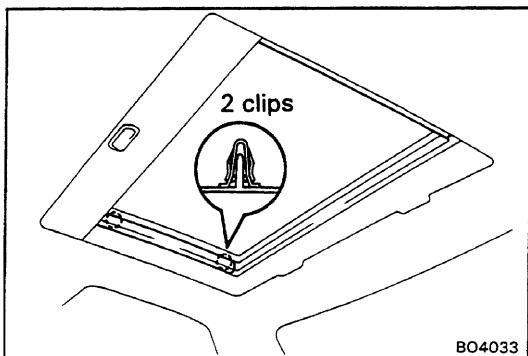
Pull down the headlining by hand

NOTICE: Do not damage the roof headlining



5. REMOVE DRIVE GEAR ASSEMBLY

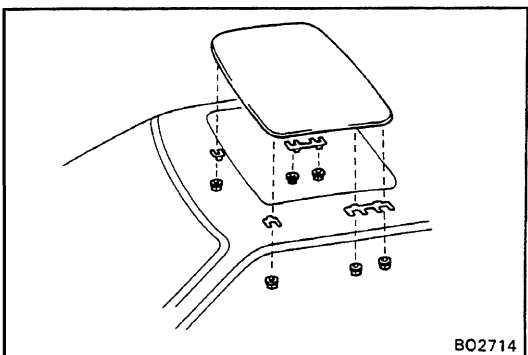
- Remove the bolt and the moon roof control relay, then disconnect the connector.
- Remove two bolts and the bracket.
- Remove four bolts and the gear assembly, then disconnect the connector.



6. REMOVE SLIDING ROOF GARNISHES

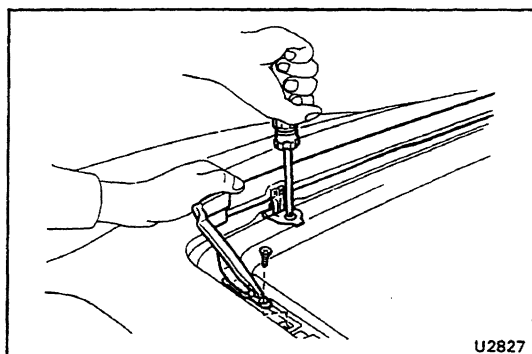
Using a screwdriver, pry loose two clips and remove the inner panel side garnish.

HINT: Tape the screwdriver tip before use.



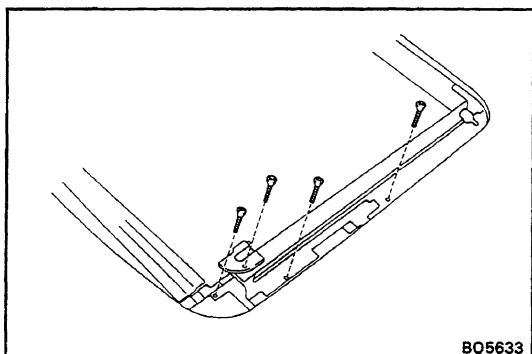
7. REMOVE SLIDING ROOF GLASS

- Remove six nuts and shims.
HINT: Make sure of the number of shims.
- Pull the glass upward to remove it.



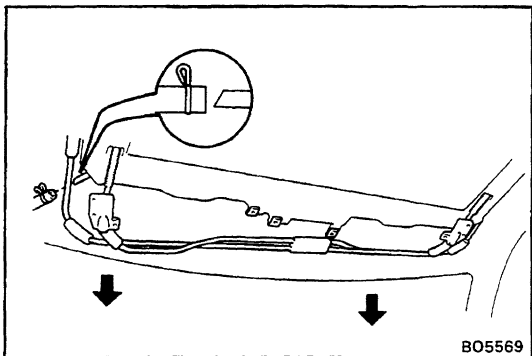
8. REMOVE WIND DEFLECTOR

Remove four screws and the wind deflector.



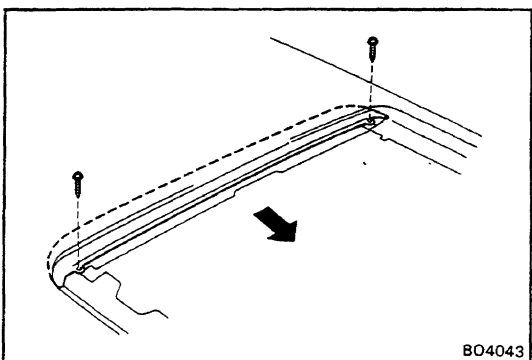
9. REMOVE CABLE GUIDE CASING

- Remove the screw and the guide rail cover.
- Remove three screws from the drive rail.
- Slide the drive cable forward.



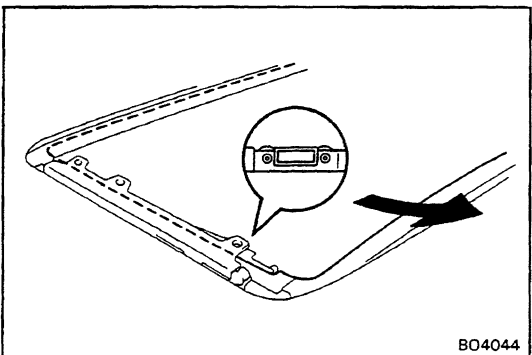
- Disconnect front side of the drain hose.
HINT: Disconnect the drain hose from the sliding roof housing side.
- Remove the cable guide casing gradually from both sides.

NOTICE: Be careful that the oily cable doesn't fall off.



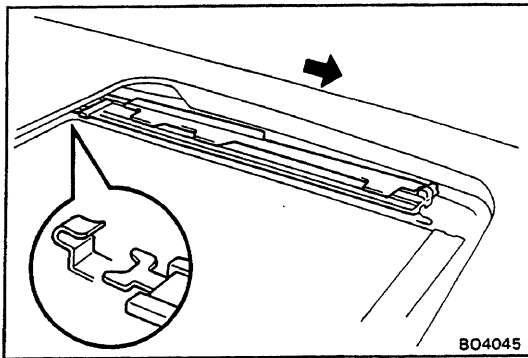
10. REMOVE ROOF DRIP CHANNEL

- Remove two screws.
- Pull the channel forward to remove it.



11. REMOVE SUNSHADE TRIM

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



12. REMOVE DRIVE RAIL

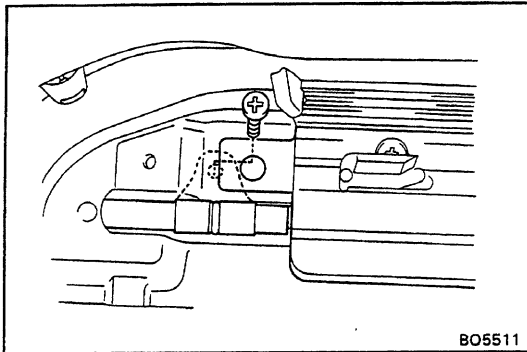
- (a) Slide the drive cable forward.
- 4by Slide the rail forward and disconnect the clamp, then remove it.

INSTALLATION OF MOON ROOF

(See page [BO-54](#))

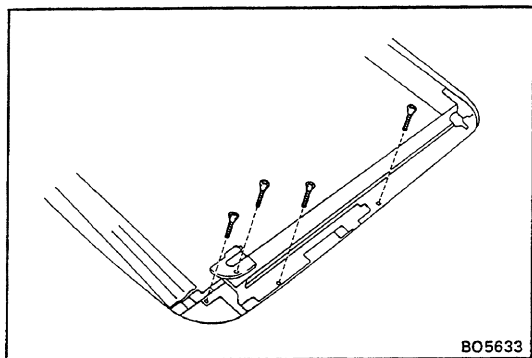
1. INSTALL FOLLOWING PARTS:

- (a) Drive rail
- (b) Sunshade trim
- (c) Roof drip channel



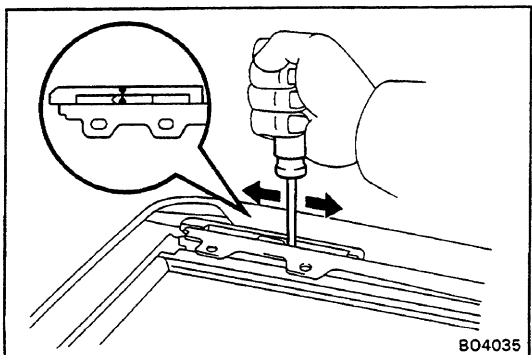
2. INSTALL CABLE GUIDE CASING

- (a) Insert the cable to the casing and install the cable guide casing 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 three screws to the drive rail.
- (e) Install the screw to the guide rail cover.

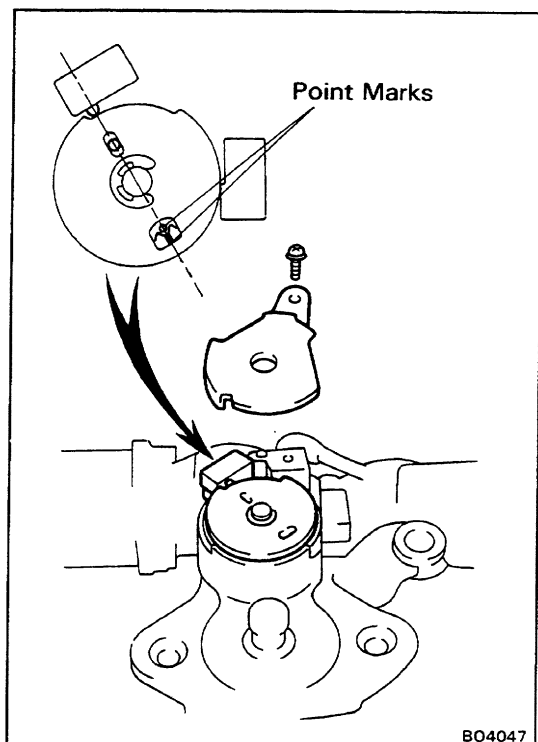
3. INSTALL WIND DEFLECTOR



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 two marks as shown.
- (b) Slide the bracket to the forefront with your hand.

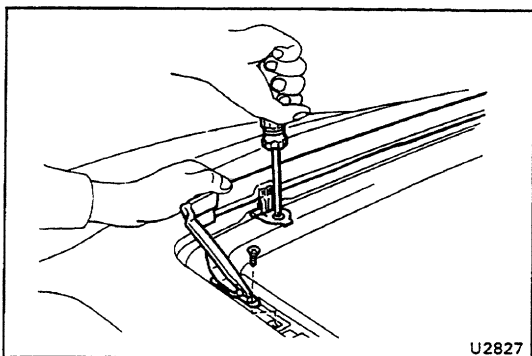


5. ADJUST AND INSTALL DRIVE GEAR ASSEMBLY

- Remove the screw and cam plate cover.
- Remove the large screw, washers and shims.
- Turn the drive shaft by screwdriver to align the housing and gear point mark as shown.
- Install cam plate cover with the screw.
- Install the drive gear assembly with four bolts.
- Connect the connectors.

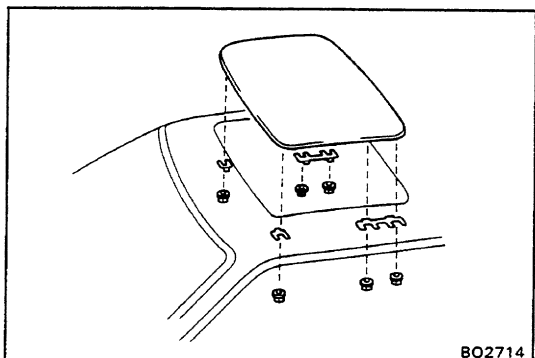
6. INSTALL THE MOON ROOF CONTROL RELAY AND BRACKET

- Install the bracket with two bolts.
- Install the moon roof control relay with the bolt, then connect the connector.



7. INSTALL WIND DEFLECTOR

Install the wind deflector with four screws.



8. INSTALL SLIDING GLASS

HINT:

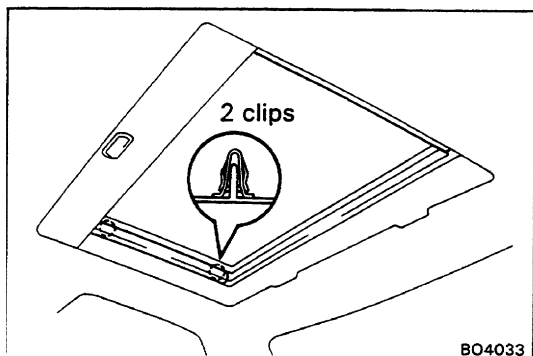
- Confirm that the lip part of the weatherstrip housing is not twisted.
 - Confirm that the clearance between the left and right of the sliding roof glass and roof panel are equal.
- Install six nuts and shims.

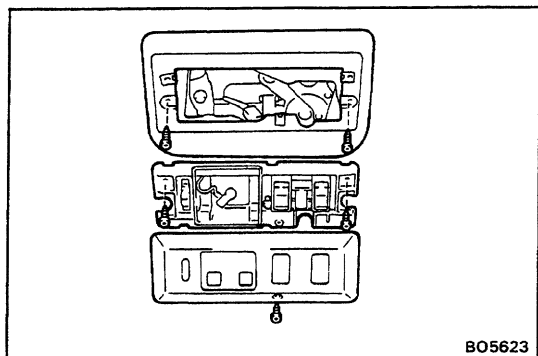
9. INSPECT SLIDING ROOF GLASS ALIGNMENT

(See page [BO-55](#))

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 two screws.
- (b) Install the switch body with two screws, then connect the connector.
- (c) Install the switch cover with the screw.

12. INSTALL FOLLOWING PARTS:

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

13. CONNECT BATTERY CABLE TO NEGATIVE TERMINAL**14. CHECK OPERATION TO THE MOON ROOF**