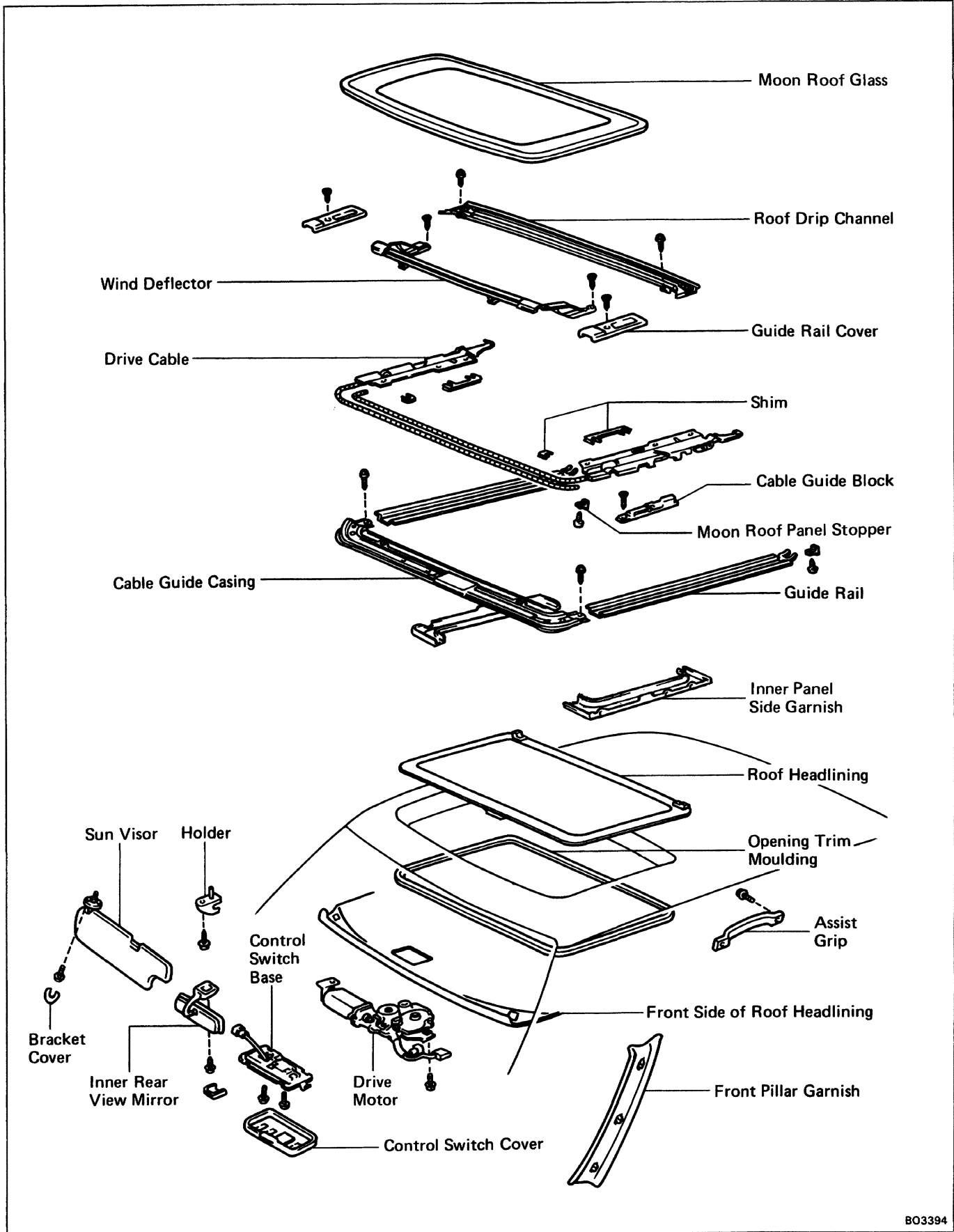
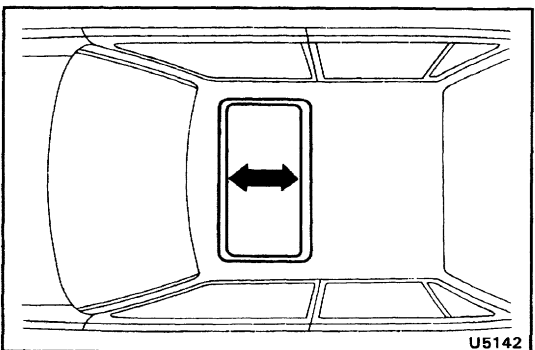
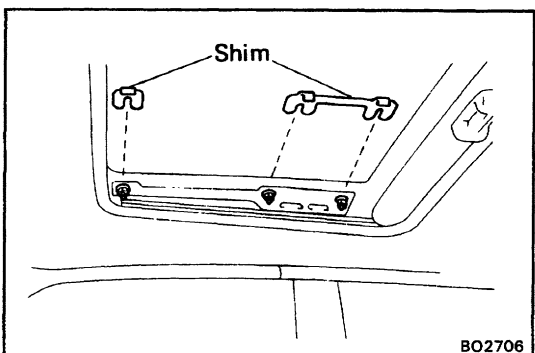
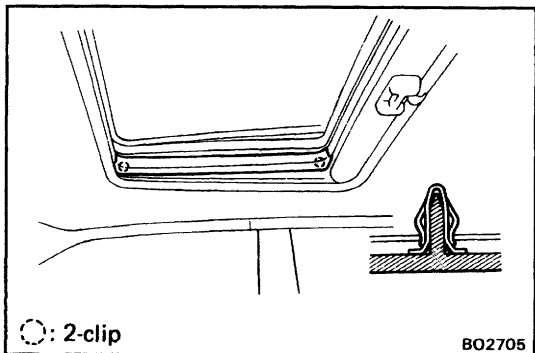
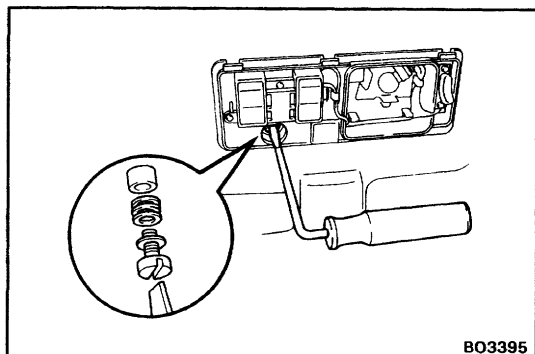
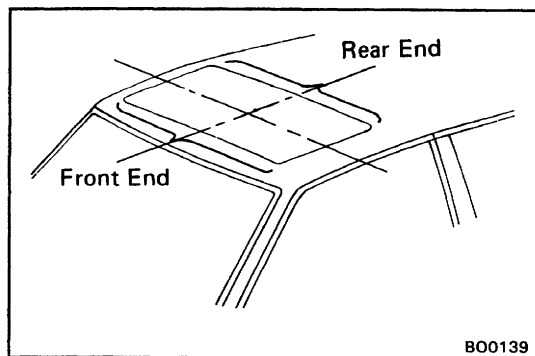


MOON ROOF COMPONENTS





ON-VEHICLE INSPECTION

INSPECT SLIDING ROOF GLASS ALIGNMENT

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

Operation time: Approx. 5 secs.

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

Front end: $-1 \pm 1 \text{ mm}$ ($-0.039 \pm 0.039 \text{ in.}$)

Rear end: $0 \pm 1 \text{ mm}$ ($0 \pm 0.039 \text{ in.}$)

If the moon roof does not operate:

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

ADJUSTMENT OF MOON ROOF

1. REMOVE INNER PANEL SIDE GARNISH

Before making adjustments, remove the inner panel side garnish.

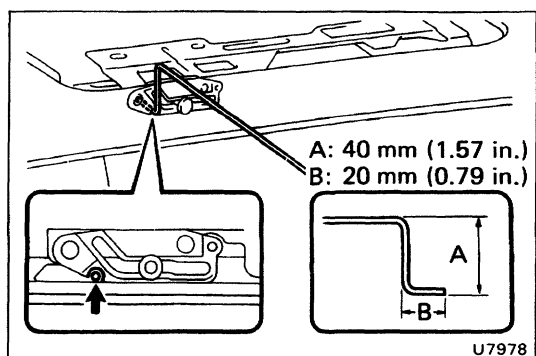
HINT: After adjustment, reinstall the inner panel side garnish.

2. TO ADJUST LEVEL DIFFERENCE

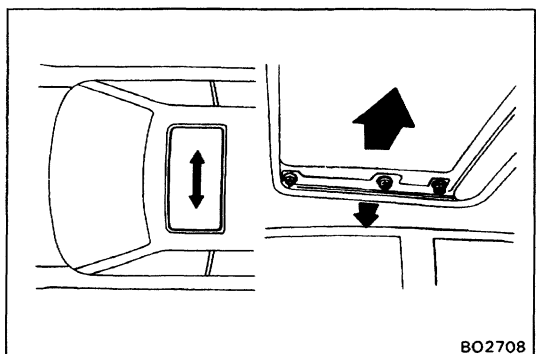
Adjust by increasing or decreasing the number of shims between the shoe and moon roof.

3. TO ADJUST FORWARD OR REARWARD

Adjust by loosening the moon roof installation nuts, and move the moon roof front shoe forward and rearward.

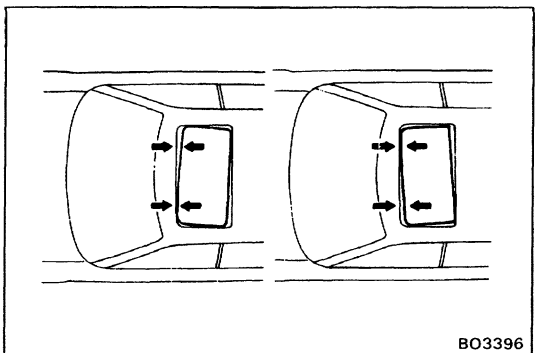


HINT: when the front or rear alignment is not correct, remove the glass and use a wire etc., to check that the standard holes are aligned as shown in the illustration.



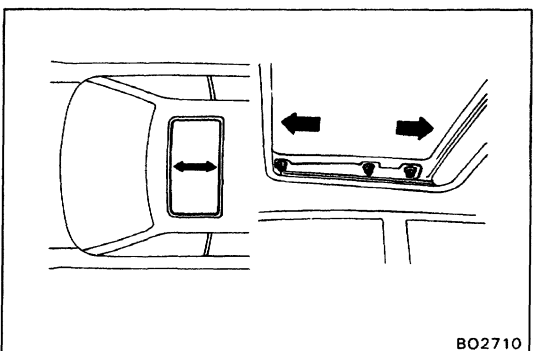
4. TO ADJUST RIGHT OR LEFT

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



5. TO ADJUST CLEARANCE

(Difference in left and right clearance)



Adjust by loosening the moon roof rear shoe installation nuts and readjust the moon roof to the proper position.

REMOVAL OF MOON ROOF

(See page BO-39)

1. DISCONNECT BATTERY CABLE FROM NEGATIVE TERMINAL

2. REMOVE CONTROL SWITCH

- Remove the control switch cover.
- Remove two screws and the control switch base.
- Disconnect the connector.

3. REMOVE FOLLOWING PARTS:

- Assist grip
- Front pillar garnish
- Sun visor and holder
- Inner rear view mirror
- Opening trim moulding

4. REMOVE FRONT SIDE OF ROOF HEADLINING

Pull down the headlining by hand.

HINT: Do not overpull down the headlining.

5. REMOVE DRIVE MOTOR

- Disconnect the drive motor connectors.
- Remove four bolts and the drive motor.

6. REMOVE INNER PANEL SIDE GARNISH

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

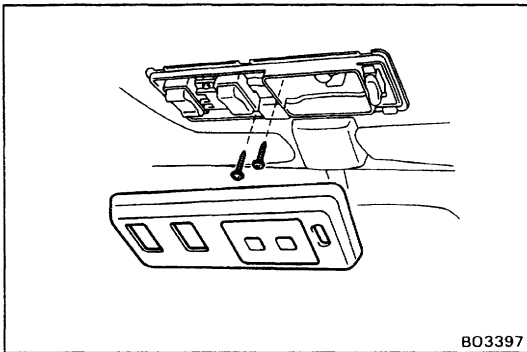
HINT: Tape the screwdriver tip before use.

7. REMOVE MOON ROOF GLASS

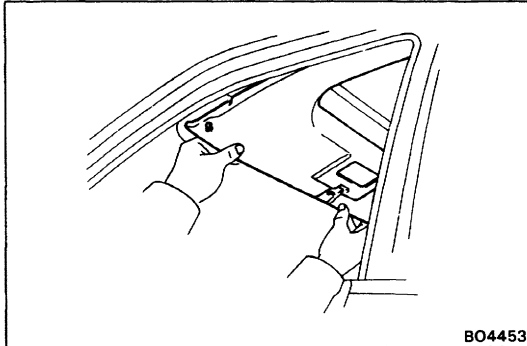
- Remove six nuts and shims.
- HINT: Be sure the number of shims.
- Pull the glass upward to remove it.

\$. REMOVE ROOF DRIP CHANNEL

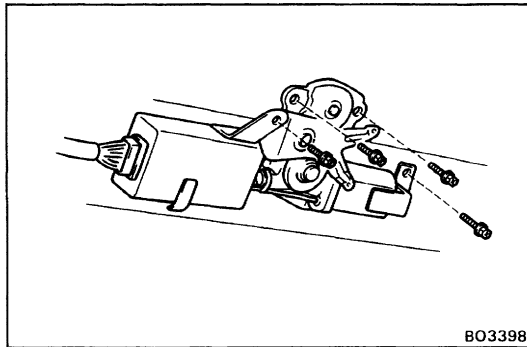
- Remove two screws.
- Pull the channel forward to remove it.



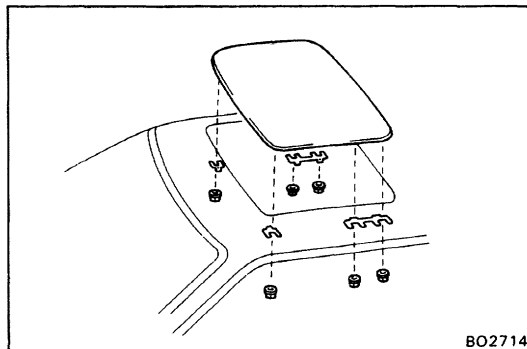
BO3397



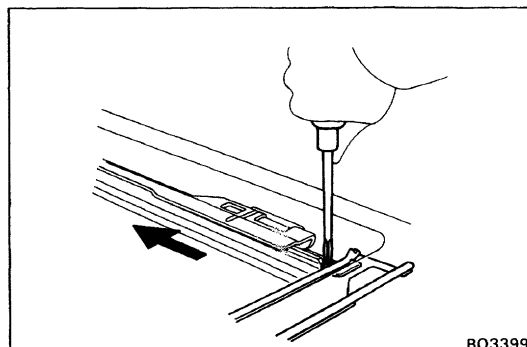
BO4453



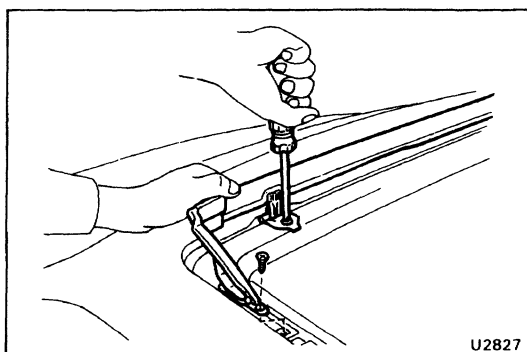
BO3398



BO2714

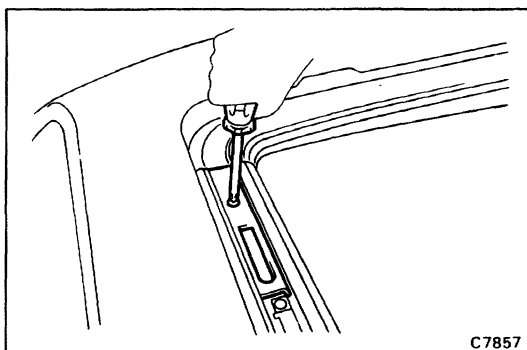


BO3399



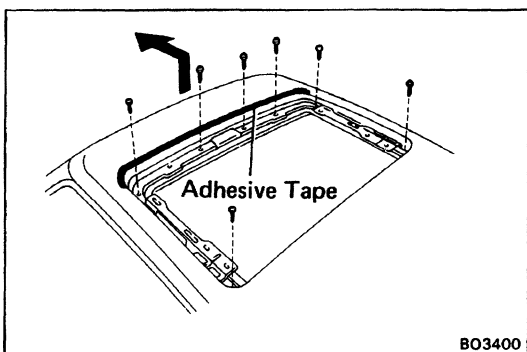
9. REMOVE WIND DEFLECTOR

- (a) Slide the drive cable rearward.
- (b) Remove four screws and the deflector.



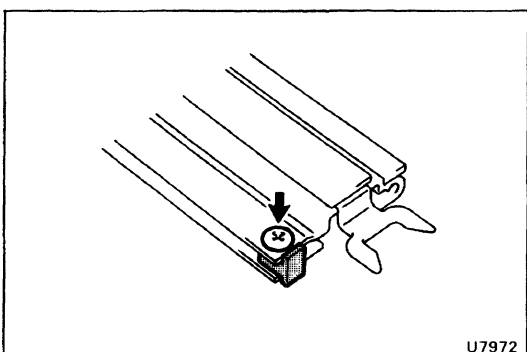
10. REMOVE GUIDE RAIL COVER

- Remove two screws and the covers.



11. REMOVE CABLE GUIDE CASING ASSEMBLY

- (a) Slide the drive cable forward and remove the seven set screws.
- (b) Apply adhesive tape to protect the body.
- (e) Pull the cable guide casing assembly off in forward direction to remove two hooks, then remove the assembly.

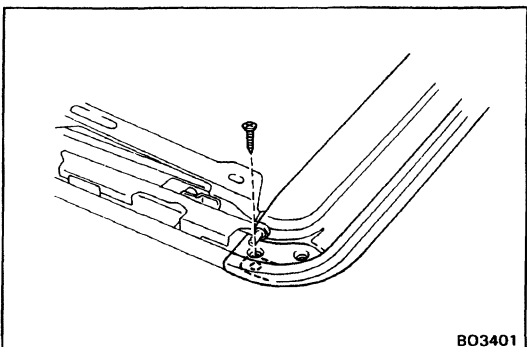


DISASSEMBLY OF MOON ROOF

(See page [BO-39](#))

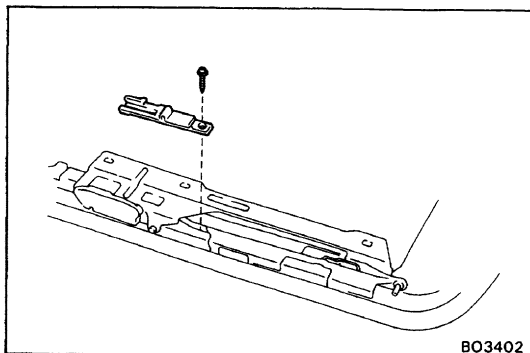
1. REMOVE ROOF HEADLINING

- (a) Remove two screws and the moon roof panel stoppers.
- (b) Pull out the roof headlining rearward.



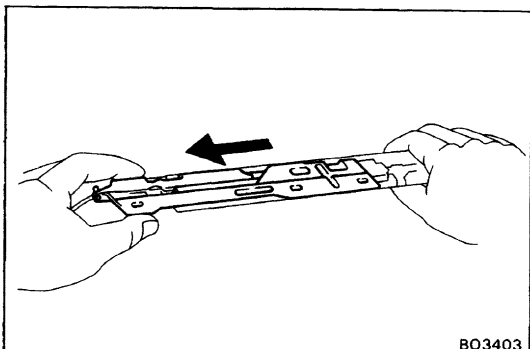
2. REMOVE CABLE GUIDE CASING

- Remove two set screws and the casing.



BO3402

3. REMOVE CABLE GUIDE BLOCK



BO3403

4. REMOVE DRIVE CABLES FROM GUIDE RAIL

Pull the drive cable from the guide rail.

ASSEMBLY OF MOON ROOF

(See page [BO-39](#))

1. APPLY MP GREASE TO DRIVE CABLE

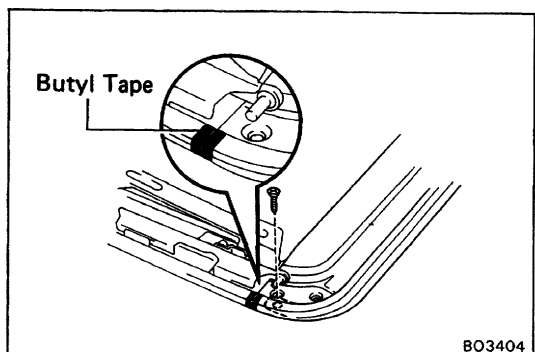
2. PLACE DRIVE CABLES INTO GUIDE RAIL

3. INSTALL FOLLOWING PARTS:

- Cable guide block
- Roof headlining

4. INSTALL CABLE GUIDE CASING

- (a) Install two set screws and the casing.
- (b) Use butyl tape to cover the cut portion of the weatherstrip at the connection between the guide casing and guide rail.



BO3404

INSTALLATION OF MOON ROOF

(See page [BO-39](#))

1. INSTALL CABLE GUIDE CASING ASSEMBLY ONTO ROOF

- (a) Use a wire or such to check that the standard holes are aligned, when the roof glass is tilted fully closed, as shown in the illustration.
- (b) While pushing down on the center of the casing, insert the cable guide casing assembly from the front of the roof.

HINT: Connect the rear stopper to the hook on the body.

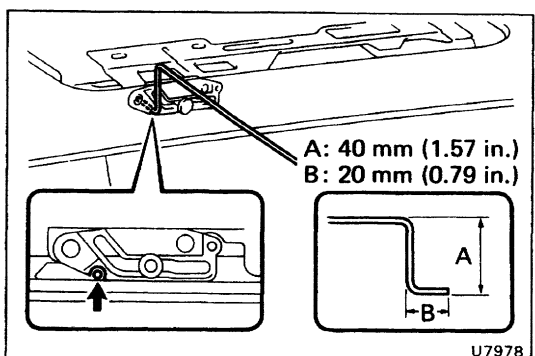
- (c) Install seven screws.

2. INSTALL FOLLOWING PARTS:

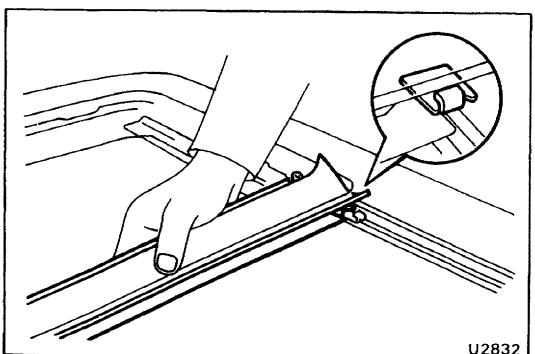
- (a) Roof drip channel
- (b) Guide rail cover
- (c) Wind deflector

3. INSTALL SLIDING ROOF GLASS

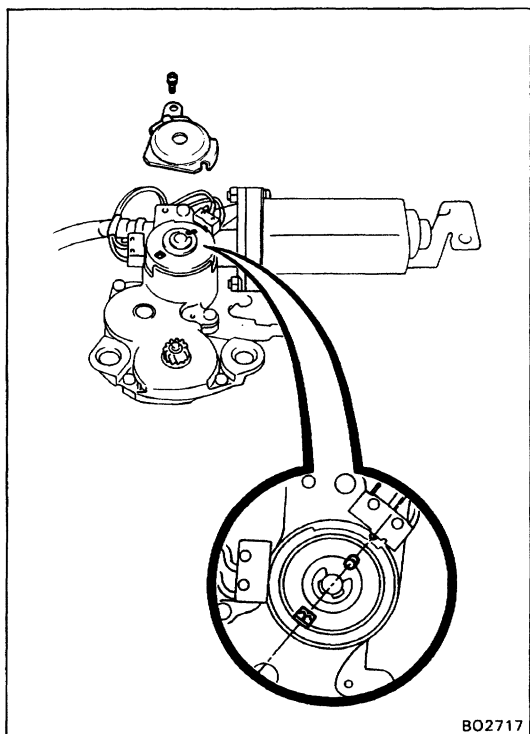
HINT: Confirm that the lip part of the weatherstrip housing is not twisted.



U7978



U2832



B02717

4. INSTALL DRIVE MOTOR

- (a) Remove the screw and cam plate cover.
- (b) Loosen the large screw at the back side of drive shaft, then turn the drive shaft by hand to align the housing and gear point mark as shown in the illustration.
- (c) Install the cam plate cover with the screw.
- (d) Set the moon roof glass is closed and tilted down position by hand.

HINT: Be sure that the clearance between the left and right of the moon roof glass and roof panel are equal.

- (e) Install the drive motor with four bolts.
- (f) Connect the drive motor connectors.

5. INSTALL FOLLOWING PARTS:

- Inner panel side garnish
- Opening trim moulding
- Front pillar garnish
- Inner rear view mirror
- Sun visor and holder
- Assist grip

6. INSTALL CONTROL SWITCH

- (a) Connect the connector.
- (b) Install the control switch base with two screws.
- (c) Install the control switch cover.

7. CONNECT BATTERY CABLE TO NEGATIVE TERMINAL

8. INSPECT AND ADJUST MOON ROOF

(See pages [BO-40](#) and [41](#))