



HYUNDAI

Elantra

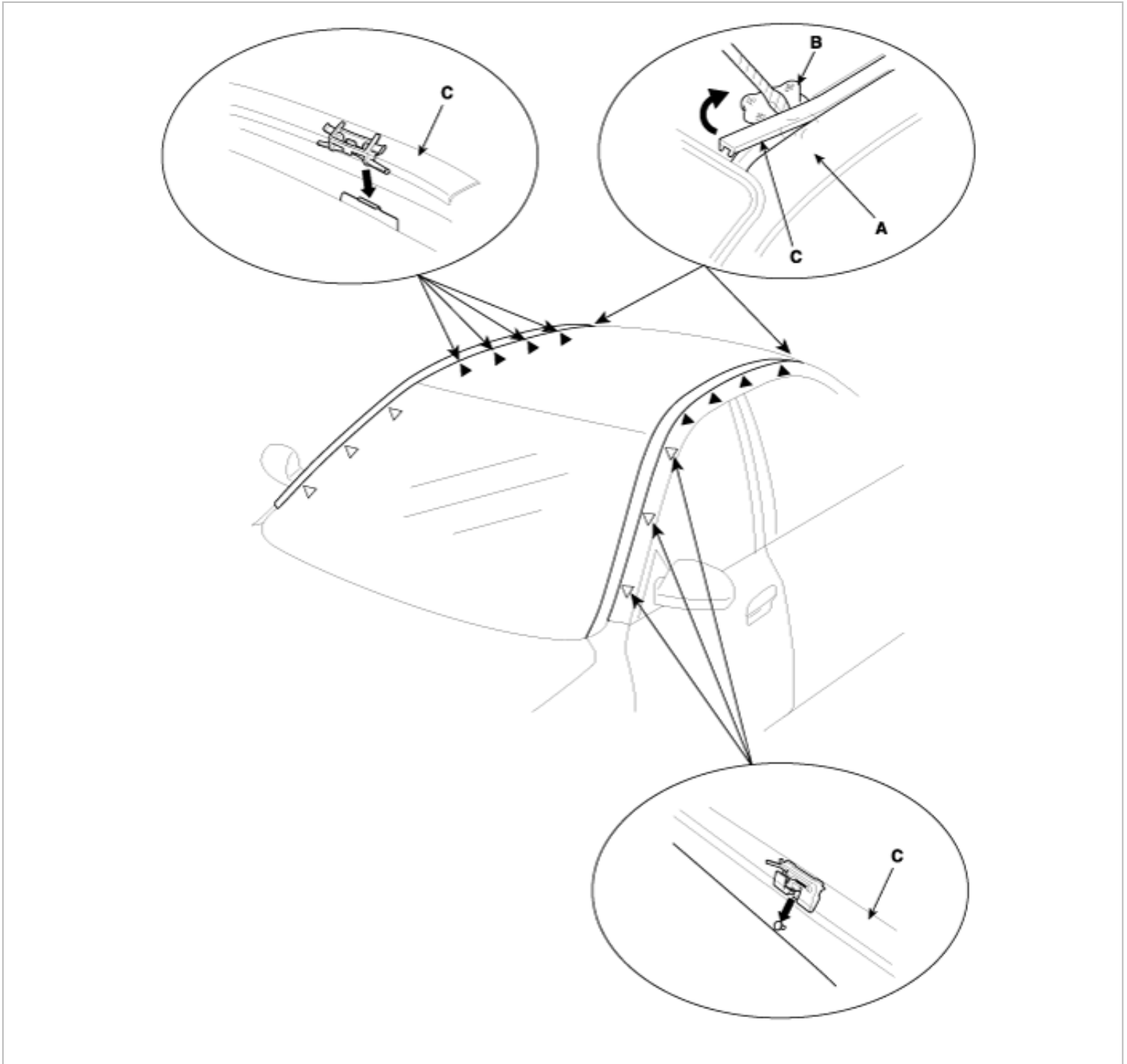


*Workshop Manual*  
*2001 - 2006*

## REPLACEMENT

### ROOF MOLDING REPLACEMENT

1. Apply protective tape to the body (A), using a flat-tip screwdriver wrapped with protective tape (B), pry up on the roof molding (C). Take care not to scratch the body.
2. Pull up the rear portion of roof molding.

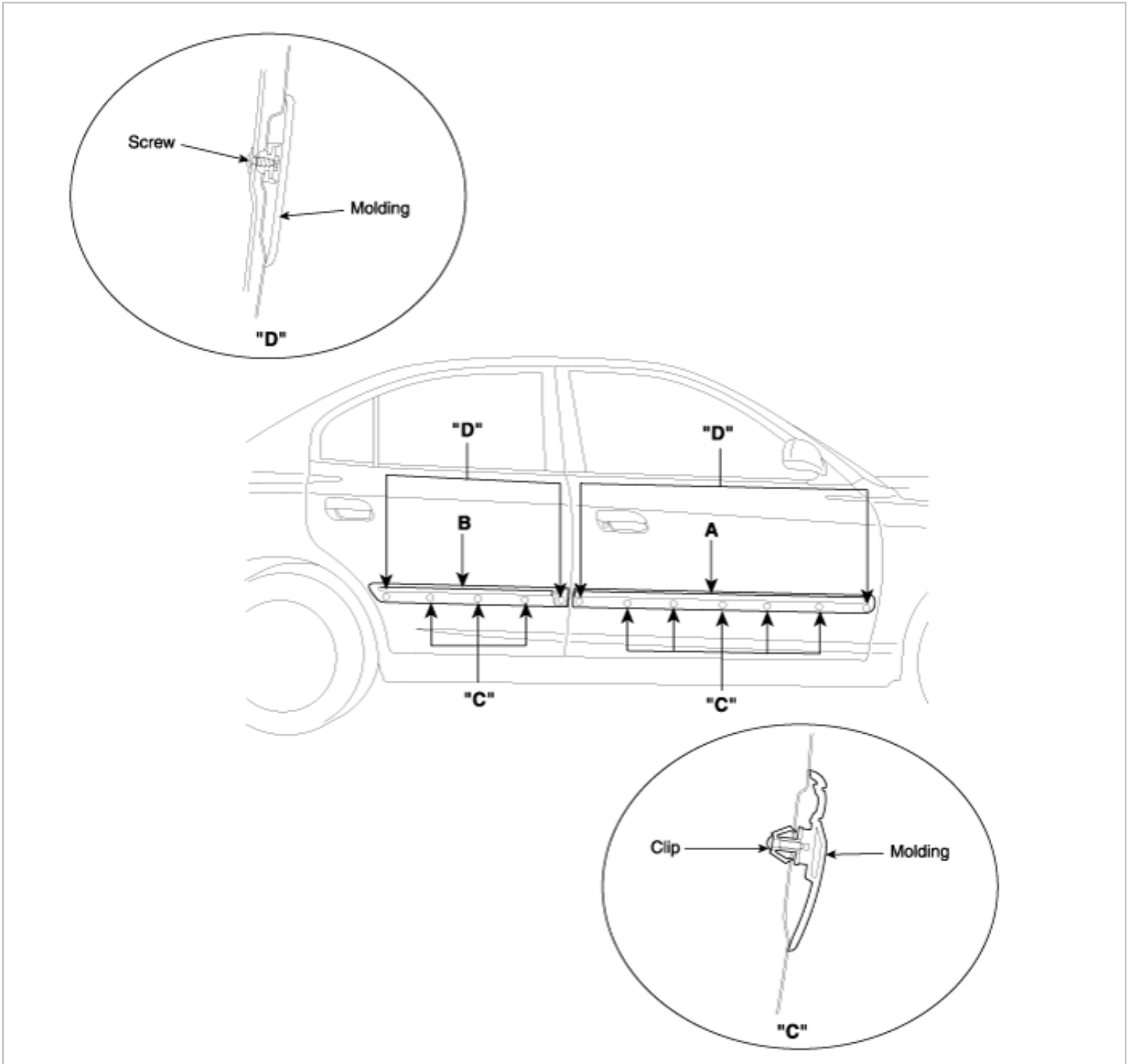


3. Install in the reverse order of removal, and note these items:
  - A. Take care not to damage the windshield and rear window moldings.
  - B. Make sure the roof molding is installed securely.

### DOOR MOLDINGS REPLACEMENT

- Wrap the blade of your putty knife or flat tip screwdriver with protective tape to prevent damage to the door.
- Be careful not to pry too far or you may bend the molding.
- Put on gloves to protect your hands.

1. Prepare to release the molding clips from inside the vehicle.
  - A. To remove the front door molding, remove the front door panel (see page BD- 25).
  - B. To remove the rear door molding, remove the rear door panel (see page BD- 33).
2. Release the clips, and gently pry the front door molding (A) or rear door molding (B) away from the door while removing the adhesive tape.

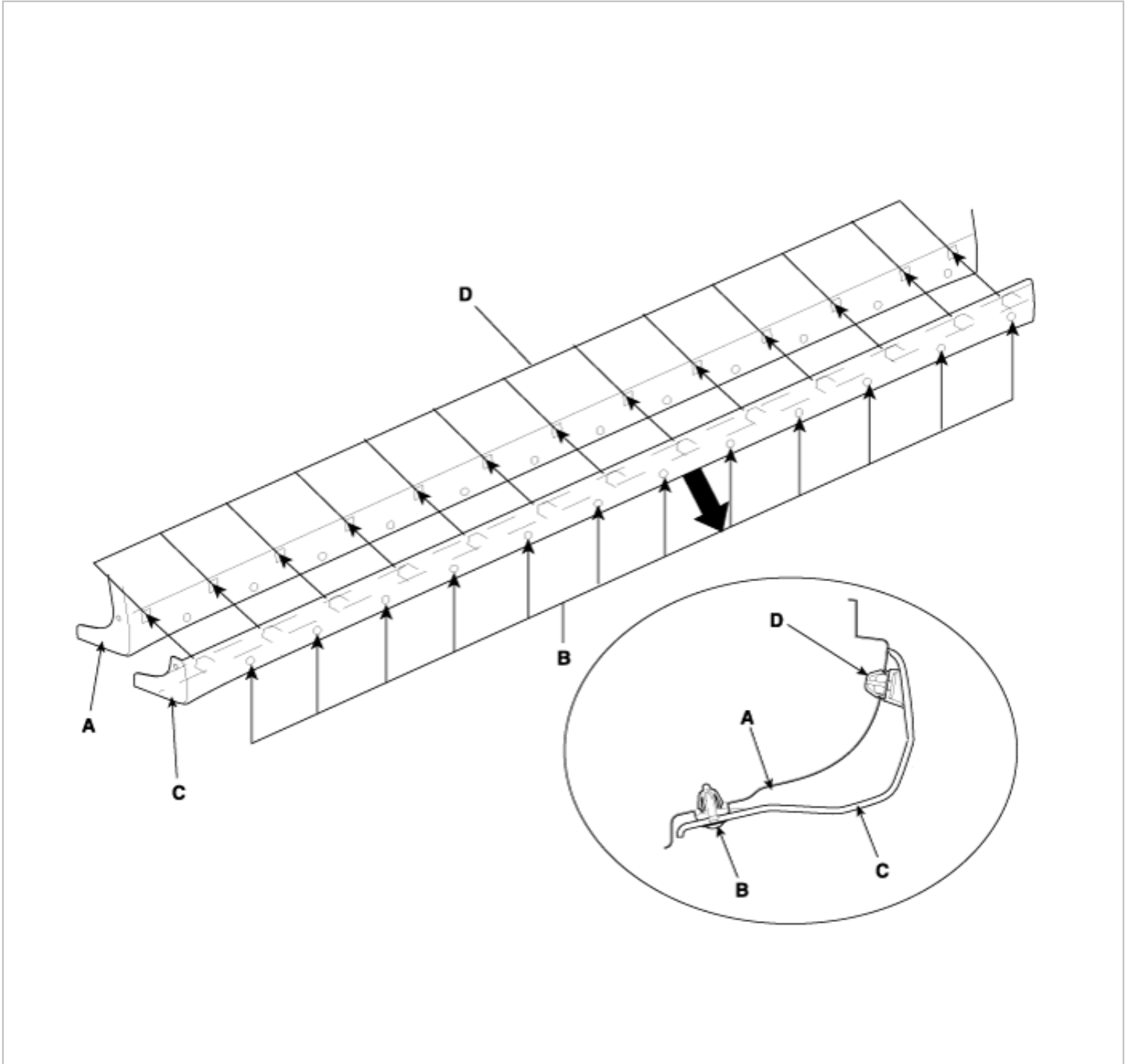


3. Installation is the reverse of removal.  
Replace any damaged clips and adhesive tape.

## SIDE SILL PANEL REPLACEMENT

Ebay User ID: reveleus1

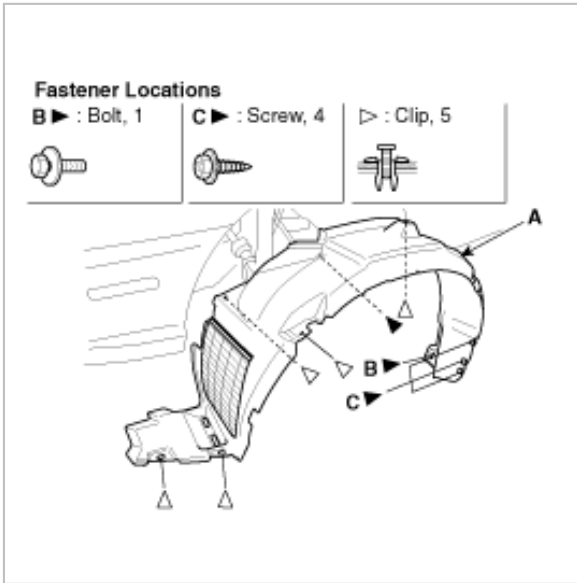
1. Pull the inner fender back as necessary, and remove the screws (A).
2. Remove the clips (B) from the body.
3. Slide the side sill panel (C) forward and remove it.



4. Replace any damaged clips.
5. Install the side sill panel.

## WHEEL GUARD REPLACEMENT

1. Remove the wheel guard (A) as shown. Take care not to scratch the body.  
Ebay User ID: reveleus1



2. Installation is the reverse of removal, and replace any damaged clips.

## REMOVAL AND INSTALLATION

1. Remove the console assembly.

### NOTE

- When prying with a flat-tip screwdriver, wrap it with protective tape to prevent damage.
- Take care not to crash the crash pad and other parts.
- Take care not to bend the parking brake cables.

2. Installation is the reverse of removal.

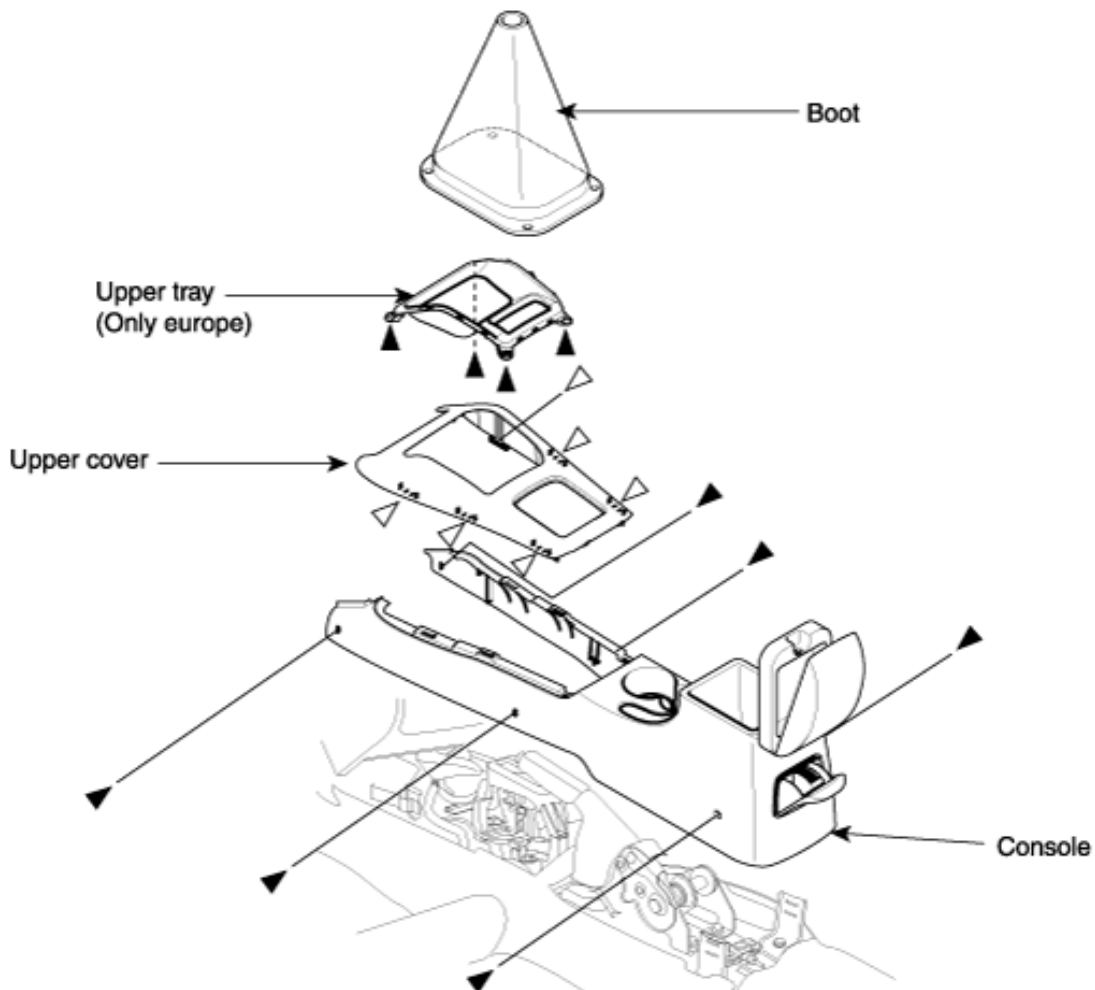
### NOTE

- Replace any damaged clips.
- Make sure the connectors are plugged in properly.
- Readjust the parking brake cable, if necessary (see page- TR group ).

### Fastener Locations

▶ : Screw, 10

▷ : Clip, 6



Ebay User ID: reveleus1

Email: [suzlever@gmail.com](mailto:suzlever@gmail.com)

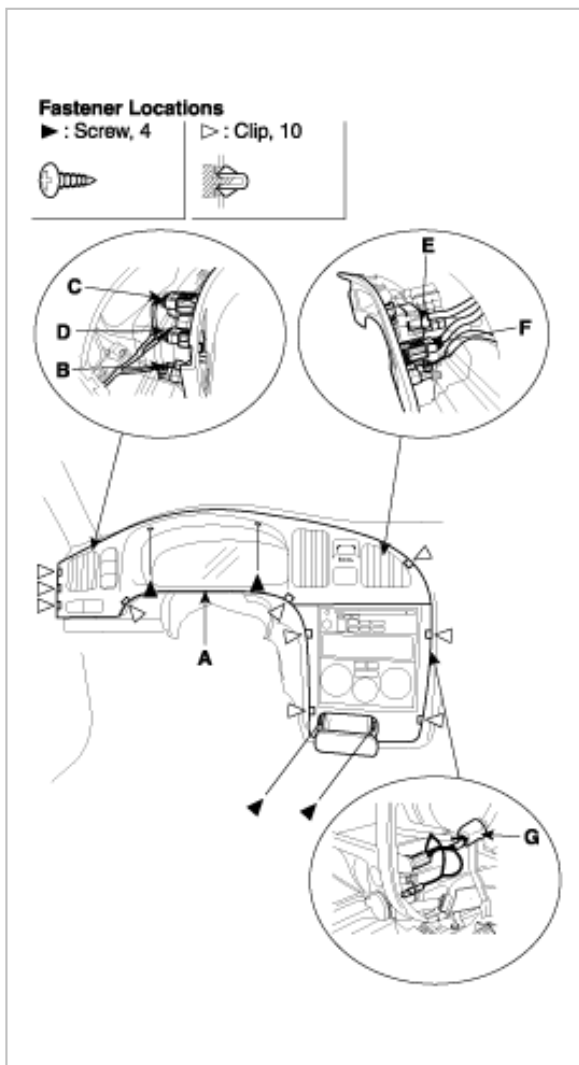
## REMOVAL AND INSTALLATION

### INSTRUMENT FACIA PANEL REMOVAL AND INSTALLATION

#### NOTE

- When prying with a flat-tip screwdriver, wrap it with protective tape, and apply protective tape around the related parts, to prevent damage.
- Take care not to scratch the dashboard and related parts.

1. Tilt the steering column down.
2. Remove the screws, and detach the clips.
3. Disconnect the following items to remove the instrument facia panel (A).
  - A. Rheostat connector (B).
  - B. TCS switch connector (C).
  - C. Trip computer switch connector (D).
  - D. Clock connector (E).
  - E. Hazard switch connector (F).
  - F. Gigar lighter connector (G).





**NOTE**

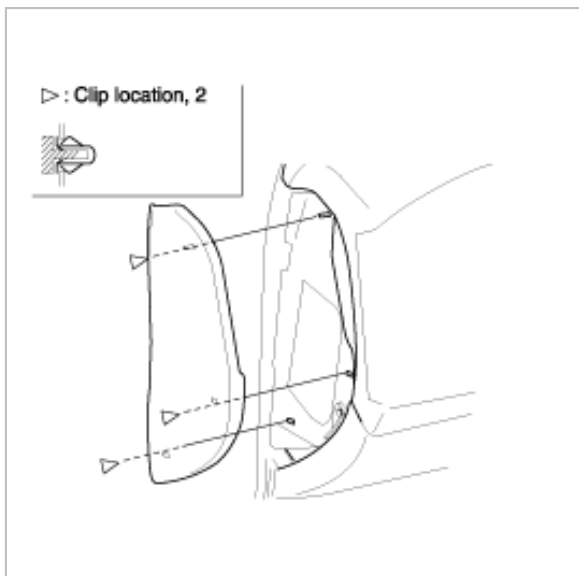
-Make sure the connector is plugged in properly.

## LOWER CRASH PAD PANEL REMOVAL AND INSTALLATION

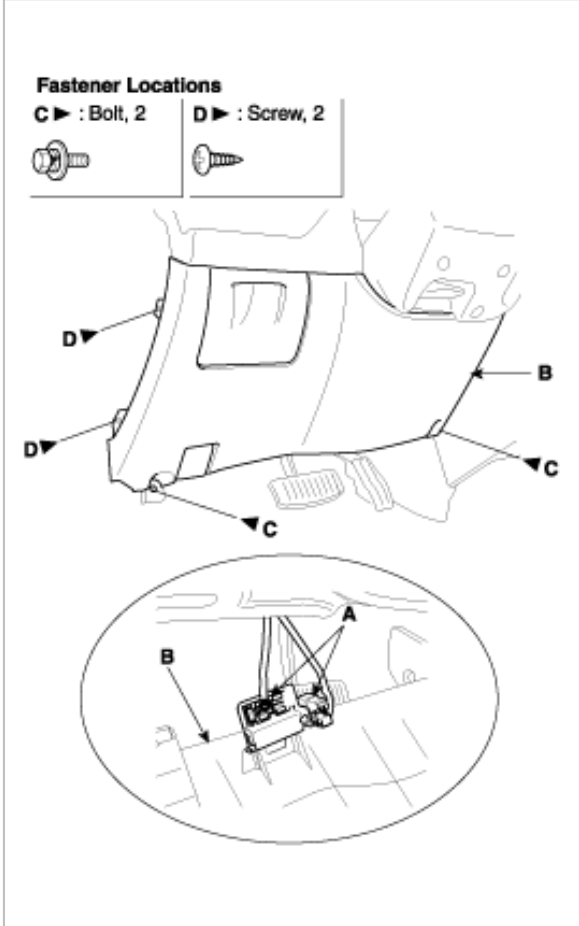
**NOTE**

- When prying with a flat-tip screwdriver, wrap it with protective tape, and apply protective tape around the related parts, to prevent damage.
- Take care not to scratch the dashboard and related parts.

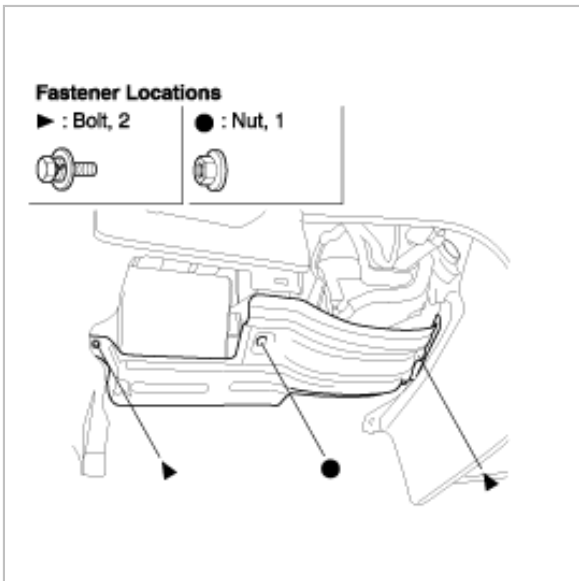
1. Tilt the steering column up.
2. Disconnect the hood release cable from the hood release handle (See page BD- 11).
3. Detach the clips, and release the tabs, then remove the left crash pad side trim.



4. Remove the screws, bolts and clips.
5. Disconnect the self-diagnosis connector (A), then remove the lower crash pad panel (B).



6. Remove the support panel.



7. Installation is the reverse of removal.

**NOTE**

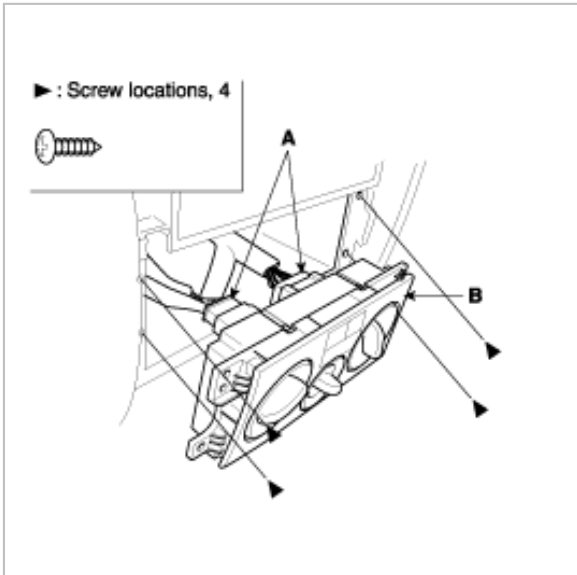
Make sure the hood opens properly.

**HEATER CONTROL UNIT REMOVAL AND INSTALLATION**

1. Remove the instrument facia panel (See page BD- 54).
2. Loosen the screws.

3. Disconnect the heater control unit connectors (A), then remove the heater control unit (B).

Ebay User ID: reveleus1



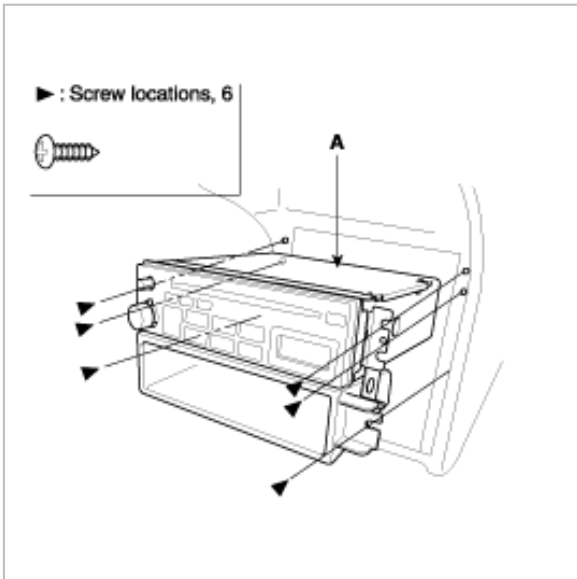
4. Installation is the reverse of removal.

#### NOTE

-Make sure the connector is plugged in properly.

### AUDIO ASSEMBLY REMOVAL AND INSTALLATION

1. Remove the instrument facia panel (See page BD- 54).
2. Loosen the screws.
3. Disconnect the audio connector and antenna cable, then remove the audio assembly (A).



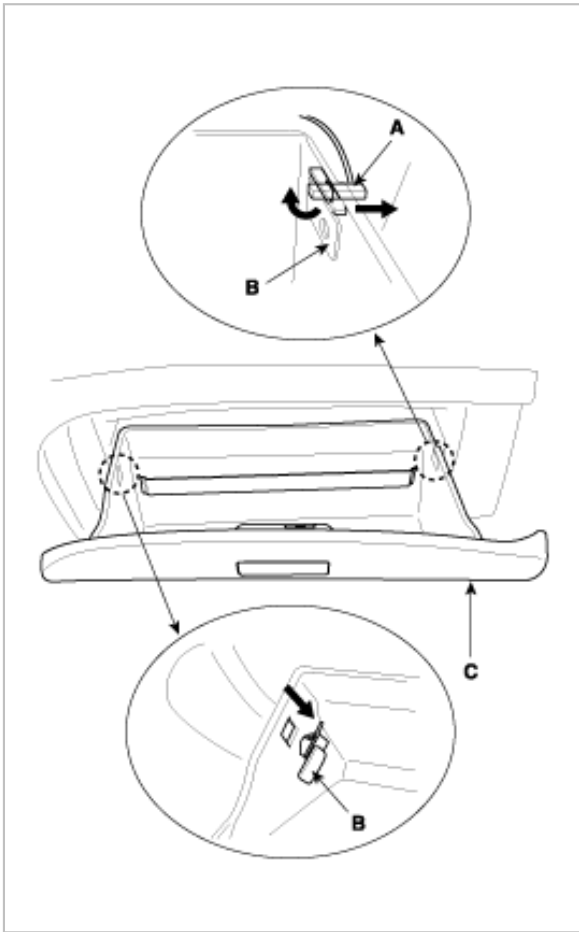
4. Installation is the reverse of removal.

#### NOTE

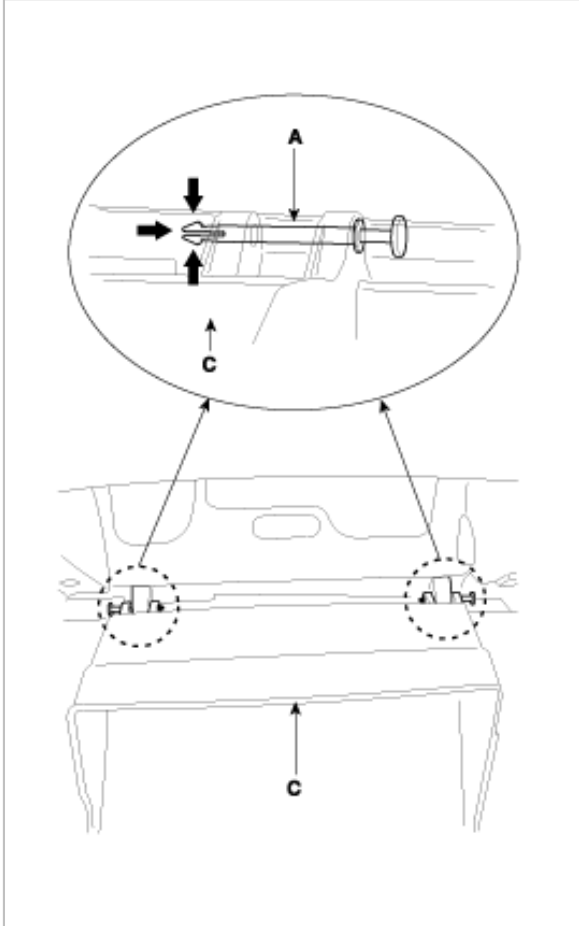
-Make sure the connector is plugged in properly.

### GLOVE BOX REMOVAL AND INSTALLATION

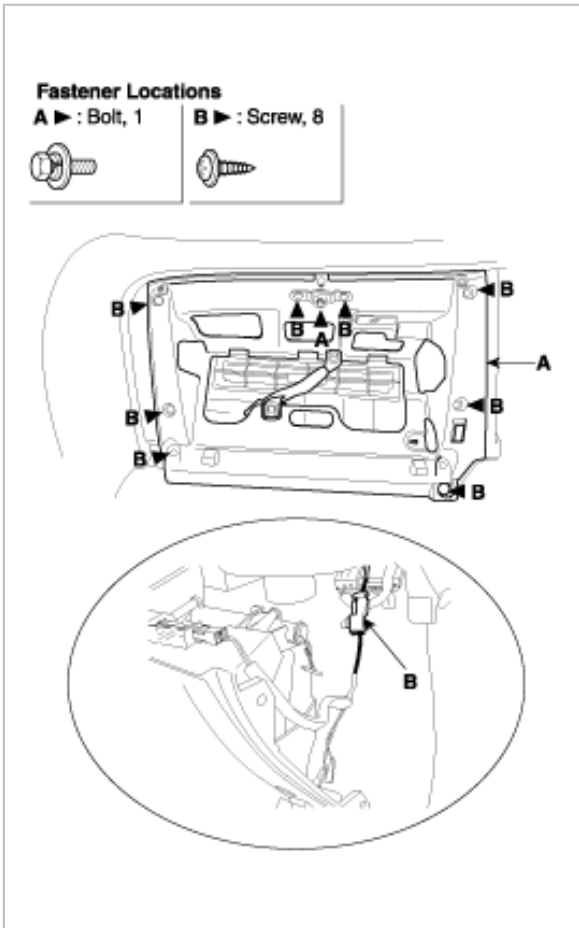
1. Disconnect the air damper wire (A) and guide (B) from the glove box (C).  
Ebay User ID: reveleus1



2. Disconnect the pin (A), then remove the glove box (C).



3. Remove the screws and bolt, then remove the glove box housing (A).  
Disconnect the glove box lamp connector (B).



4. Installation is the reverse of removal.

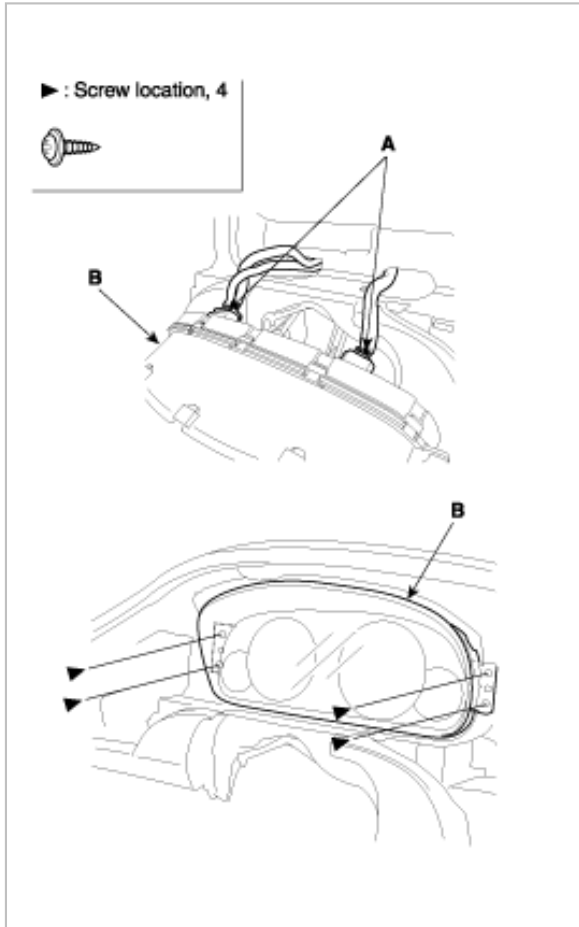
Ebay User ID: reveleus1

#### NOTE

-Make sure the connector is plugged in properly.

### CLUSTER REMOVAL AND INSTALLATION

1. Remove the instrument facia panel (See page BD- 54).
2. Loosen the screws.
3. Disconnect the cluster connector (A), then remove the cluster (B).



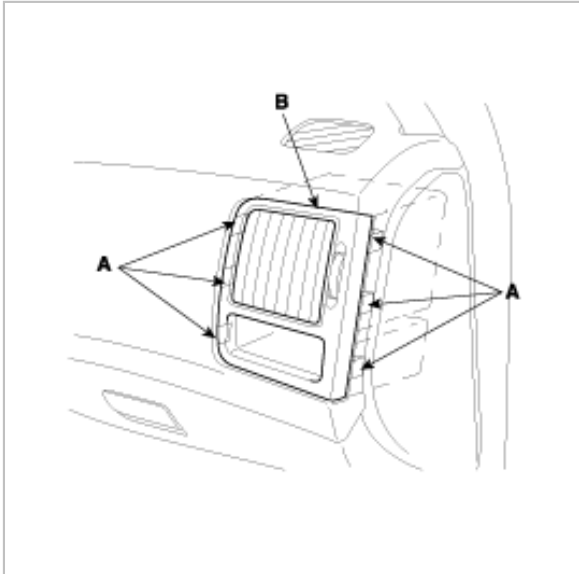
4. Installation is the reverse of removal.

#### NOTE

-Make sure the connector is plugged in properly.

### PASSENGER'S SIDE VENT REMOVAL AND INSTALLATION

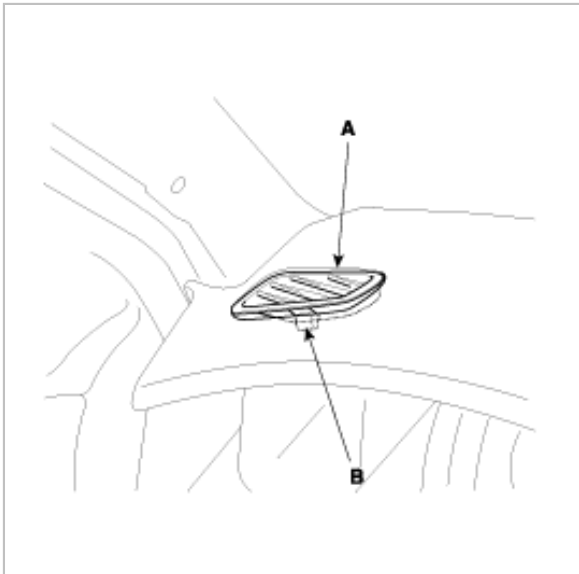
1. Wrap a flat-tip screwdriver with protective tape, and apply protective tape around the related parts to prevent damage. Carefully insert a flat-tip screwdriver next to the clip, and detach the clips (A) by prying on the passenger's side vent (B). Take care not to scratch the crash pad and related parts.



2. Remove the vent by detaching the clips.  
3. Reinstall the hook portions of the vent first, then push the clip portions into place securely.

## SIDE DEFROSTER NOZZLE REMOVAL AND INSTALLATION

1. Wrap a flat-tip screwdriver with protective tape, and apply protective tape around the related parts to prevent damage. Carefully insert a flat-tip screwdriver next to the clip, and detach the clip by prying on the side defroster nozzle (A). Take care not to scratch the crash pad and related parts.



2. Pull the vent trim out by releasing the hooks (B).  
3. Reinstall the hook portions of the vent trim first, then securely push the clips into place.

## CRASH PAD REMOVAL AND INSTALLATION

- When prying with a flat-tip screwdriver, wrap it with protective tape, and apply protective tape around the related parts to prevent damage.
- An assistant is helpful when removing and installing the dashboard.
- Take care not to scratch the dashboard, body and other related parts.
- Put in gloves to protect your hands.

1. Make sure you have the anti-theft code for the radio, then write down the frequencies for the radio's preset buttons.
2. Disconnect the negative cable from the battery.
3. Remove the following items.
  - A. Front seat, both sides (see page BD- 84).
  - B. Console (see page BD- 53).
  - C. Crash pad side trim, both sides (see page BD- 55).
  - D. Front pillar trim, both sides (see page BD- 63).
  - E. Instrument tacia panel (see page BD- 54).
  - F. Lower crash pad panel (see page BD- 55).
  - G. Heater control unit (see page BD- 56).
  - H. Clutster (see page BD- 59).
  - I. Audio (see page BD- 57).
  - J. Glove box (see page BD- 57).
  - K. Side defroster nozzle (see page BD- 60).
4. Disconnect the passenger's air bag connector (A), and auto light connector (B). Loosen the bolts and nut, then remove the crash pad (C).

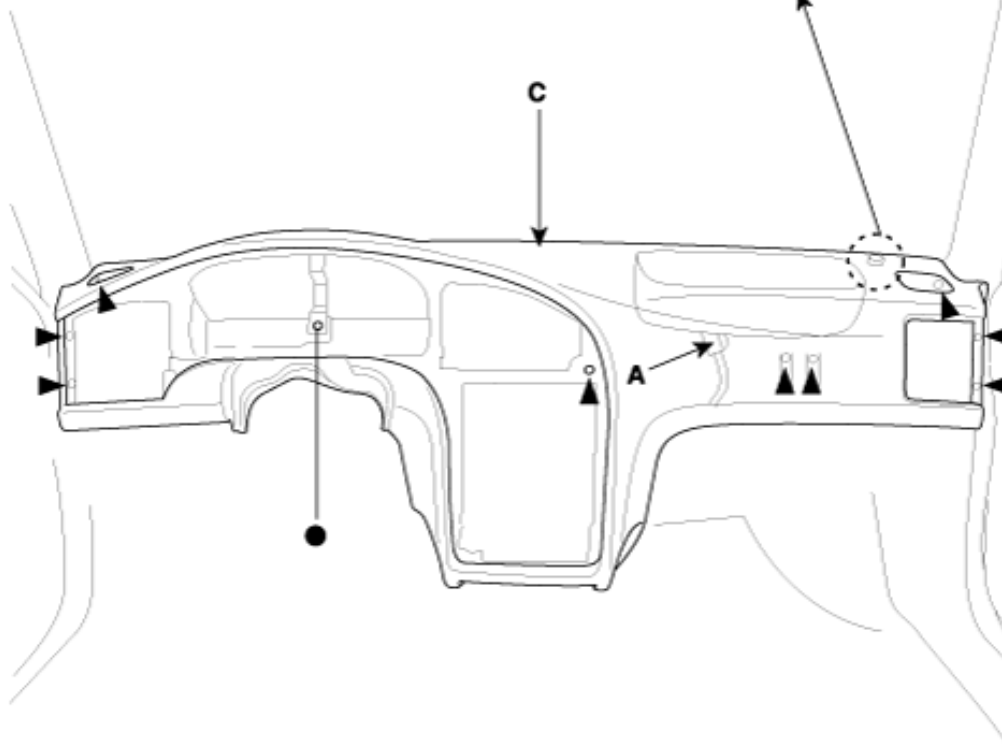
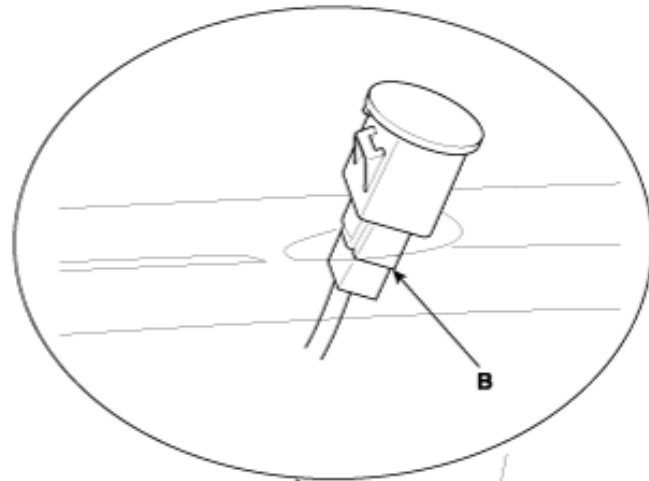


## Fastener Locations

Ebay User ID: reveleus1

▶ : Bolt, 9

● : Nut, 1



5. Carefully remove the crash pad through the front door opening.
6. Installation is the reverse of removal.

### NOTE

- Make sure the crash pad fits onto the guide pins correctly.
- Before tightening the bolts, make sure the crash pad wire harnesses are not pinched.
- Make sure the connectors are plugged in properly, and the antenna lead is connected properly.
- Enter the anti-theft code for the radio, then enter the customer's radio station presets.

## REMOVAL AND INSTALLATION

### NOTE

- When removal and installing the front bumper, an assistant is necessary.
- Take care not to damage the front bumper and body.
- Put on gloves to protect your hands.

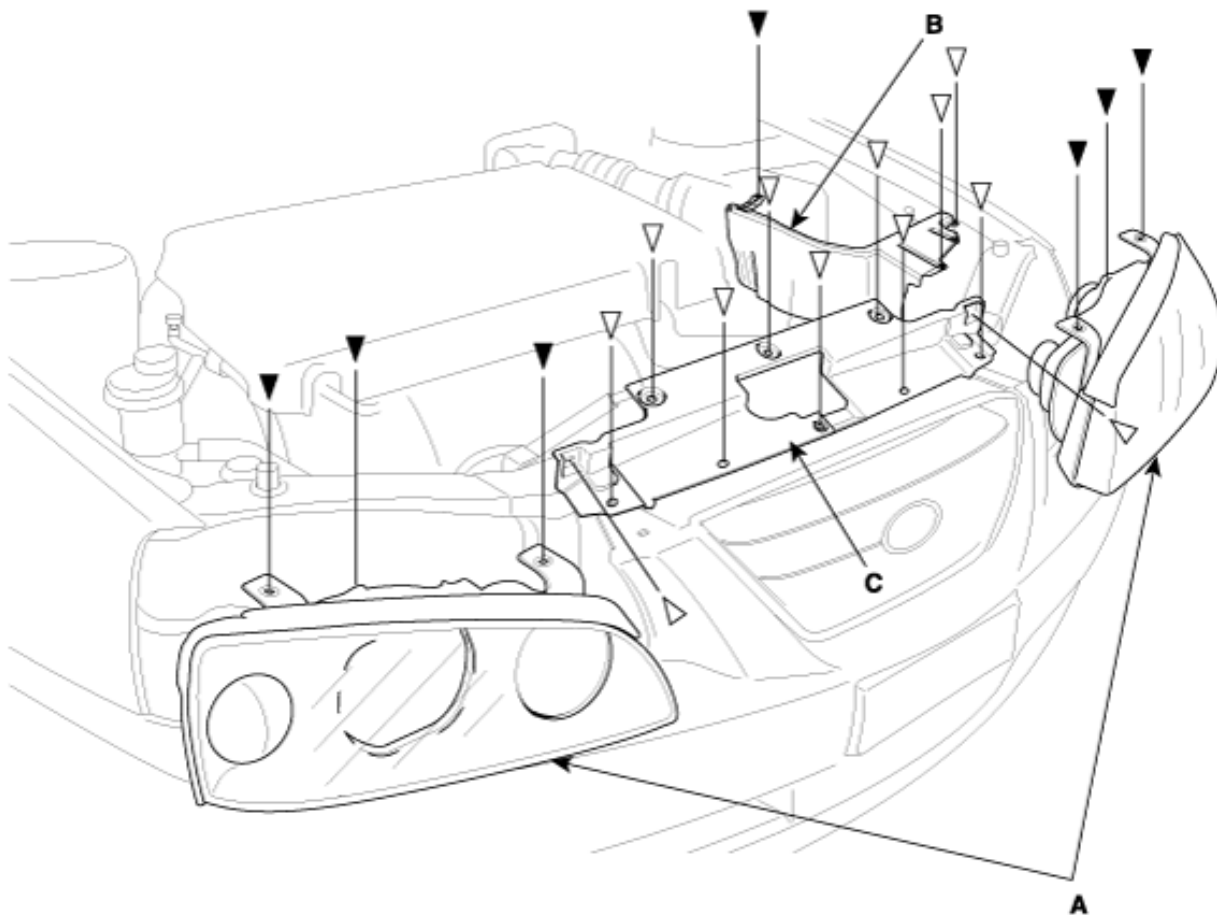
1. Remove the headlamp (A), battery cover (B) and radiator guard (C).

#### Fastener Locations

▶ : Bolt, 7



▷ : Clip, 12



2. Remove the side mark lamp (A).

3. Remove the front bumper (B).

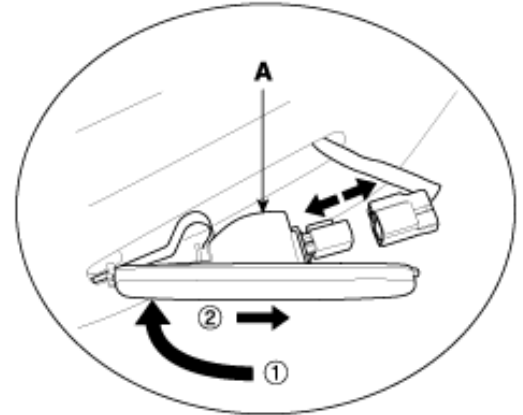
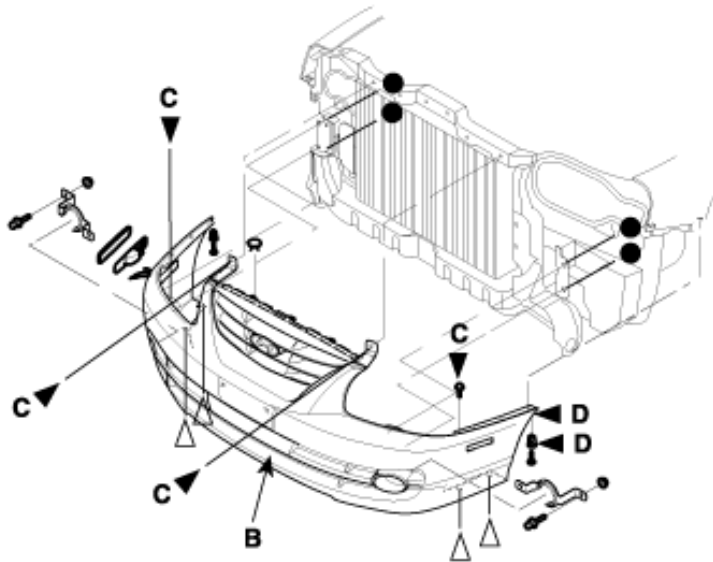
**Fastener Locations**

**C** ▶ : Bolt, 4

**D** ▶ : Screw, 4

● : Nut, 4

▷ : Clip, 4

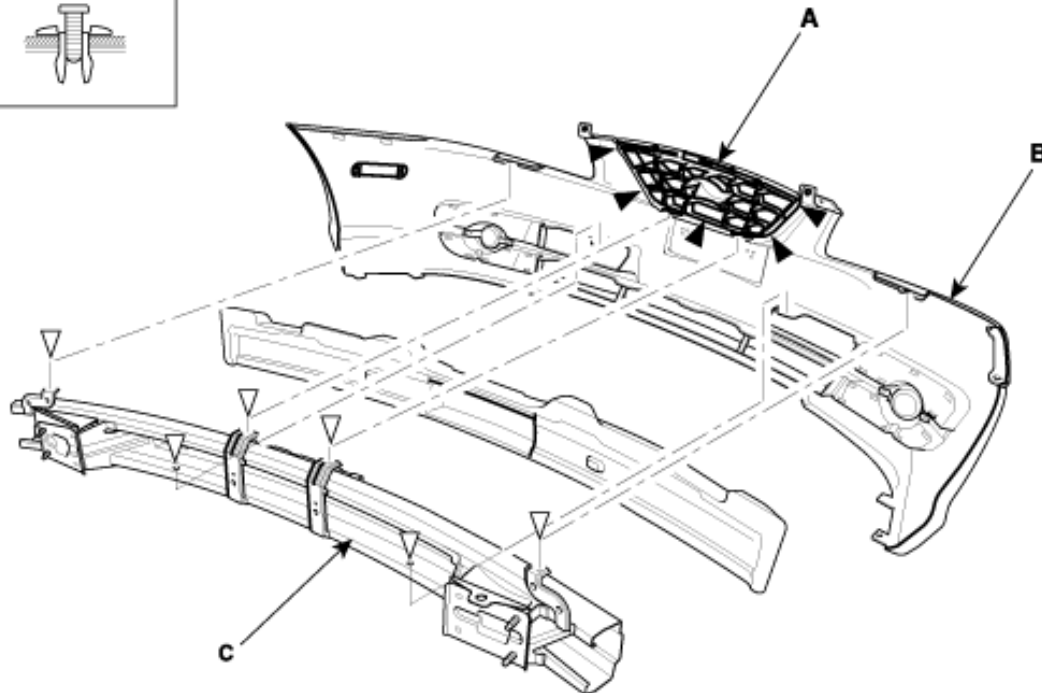


4. After removing the radiator grille (A), disconnect the cover (B) and rail (C).

**Fastener Locations**

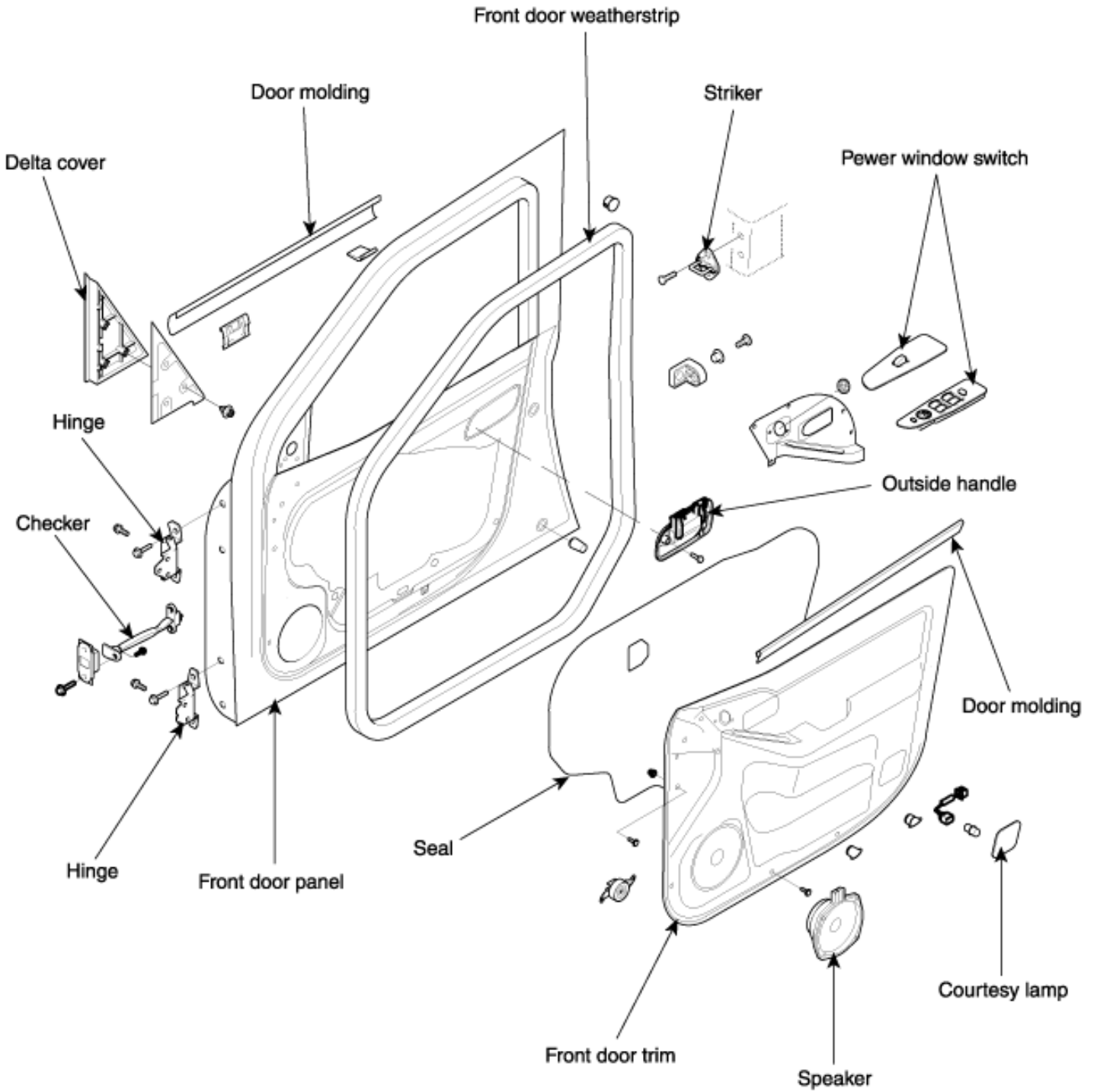
▶ : Screw, 5

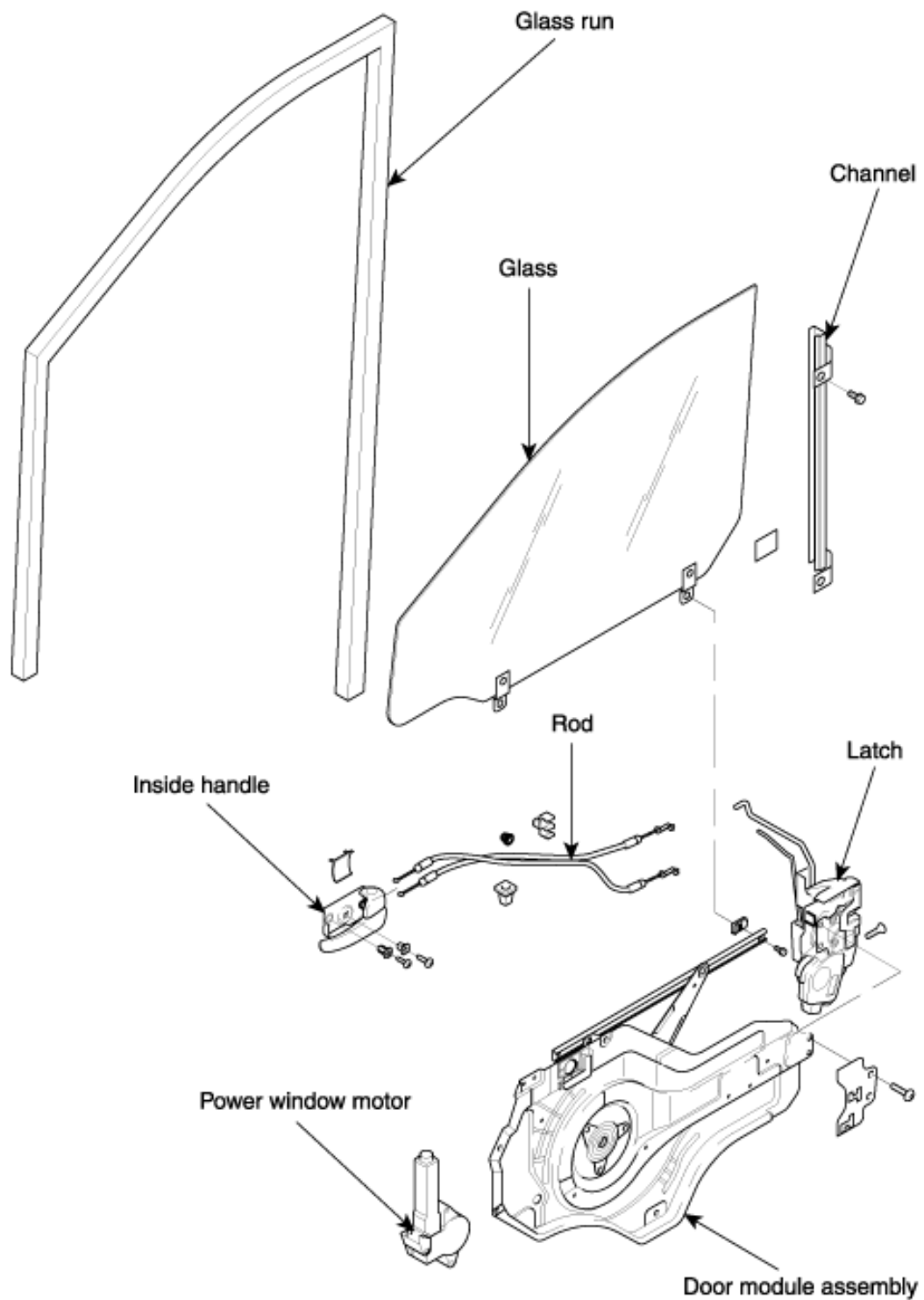
▷ : Clip, 6



5. Installation is the reverse of removal.

# COMPONENTS





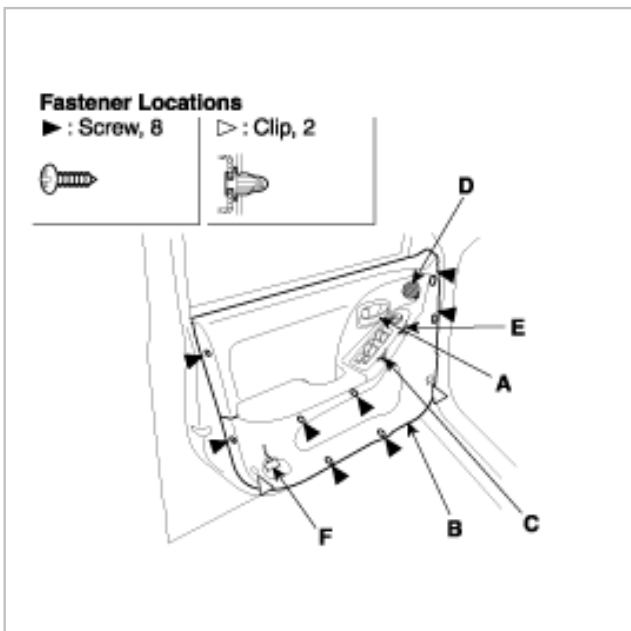
## REMOVAL AND INSTALLATION

### FRONT DOOR TRIM

#### NOTE

- Take care not to scratch the door trim and other parts.
- Put on gloves to protect your hands.

1. Remove the outside rearview mirror cover (see page BD- 51).
2. Remove the inside handle cover (A).
3. Loosen the door trim (B) mounting screws. Release the clips that hold the door trim, then remove the door trim by pulling it upward. Disconnect the power window switch connector (C), tweeter speaker connector (D), power mirror connector (E), and door courtesy lamp connector (F).



4. Remove the door trim seal.
5. Installation is the reverse of removal, make sure the connectors and the courtesy light bulb socket are plugged in properly.

## REPLACEMENT

### GLASS AND DOOR MODULE REPLACEMENT

#### NOTE

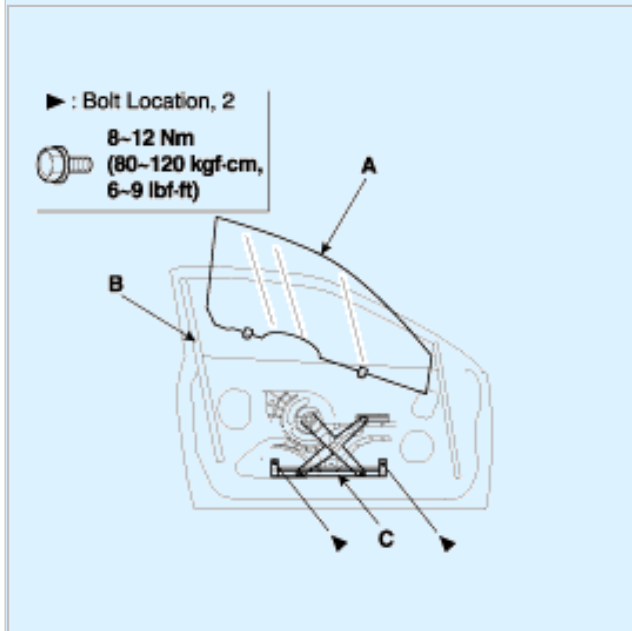
Put on gloves to protect our hands.

1. Remove the outside rearview mirror cover (see page BD- 51).
2. Remove the door trim (see page BD- 51).

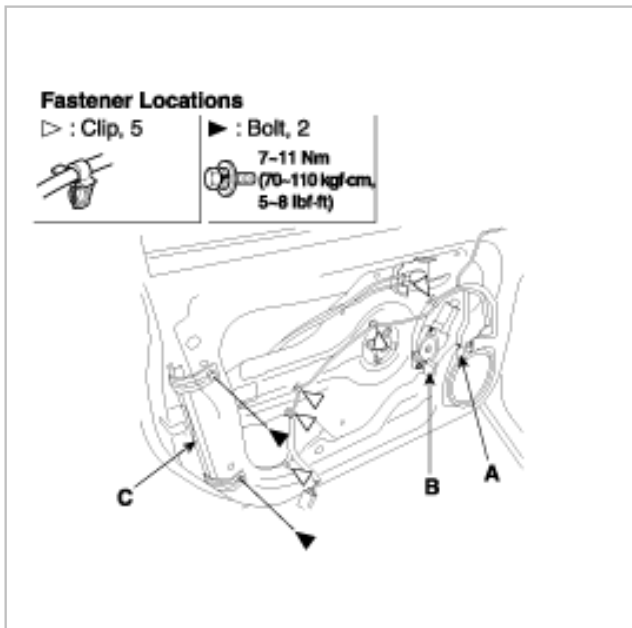
3. Carefully move the glass (A) until you can see the bolts, then loosen them. Separate the glass from the glass run (B) and carefully pull the glass out through the window slot (C).

### CAUTION

Take care not to drop the glass and scratch the glass surface.

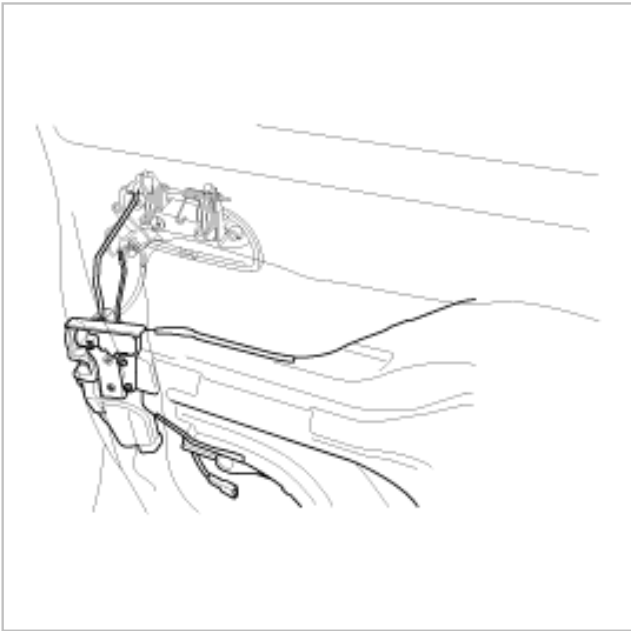


4. Disconnect the speaker connector (A) and power window motor connector (B). Detach the harness clip.
5. Remove the channel (C).

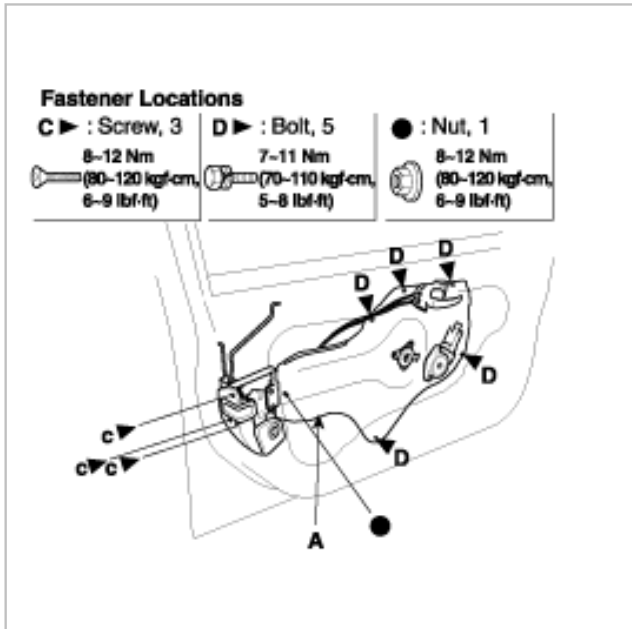


6. Disconnect the outside handle rod (A) and lock rod (B).

Ebay User ID: reveleus1



7. Remove the door module assembly (A).



8. Installation is the reverse of removal.

A. Roll the glass up and down to see if it moves freely without binding.

B. Make sure that there is no clearance between the glass and glass run channel when the glass is closed.

C. Adjust the position of the glass as necessary (see page BD- 29).

## OUTSIDE HANDLE REPLACEMENT

### NOTE

Put on gloves to protect your hands.

1. Remove the door trim (see page BD- 25).

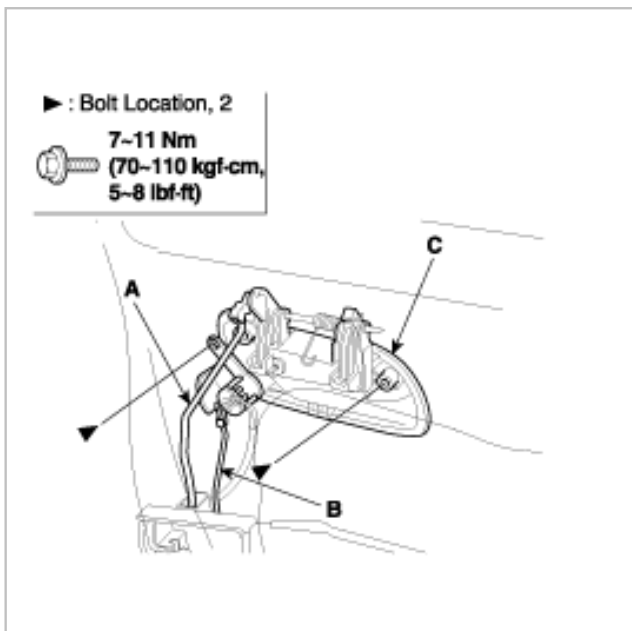
2. Remove the glass (see page BD- 25).

3. Disconnect the outside handle rod (A) and lock rod (B).



#### 4. Remove the outside handle (C).

Ebay User ID: reveleus1



#### 5. Installation is the reverse of removal.

A. Make sure the key cylinder switch harness is routed properly.

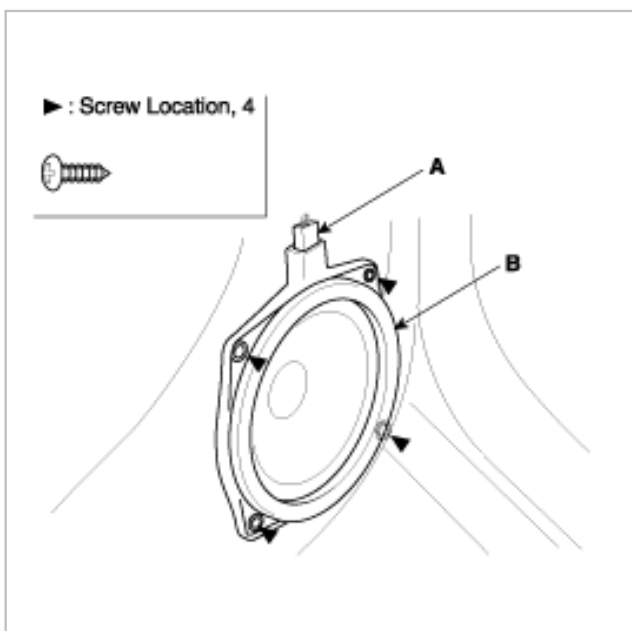
B. Make sure the connector is plugged in properly, and each rod is connected securely.

C. Make sure the door locks and opens properly.

## SPEAKER REPLACEMENT

1. Remove the door trim (see page BD- 25)

2. Disconnect the speaker connector (A), and remove the speaker (B).



3. Installation is the reverse of removal.

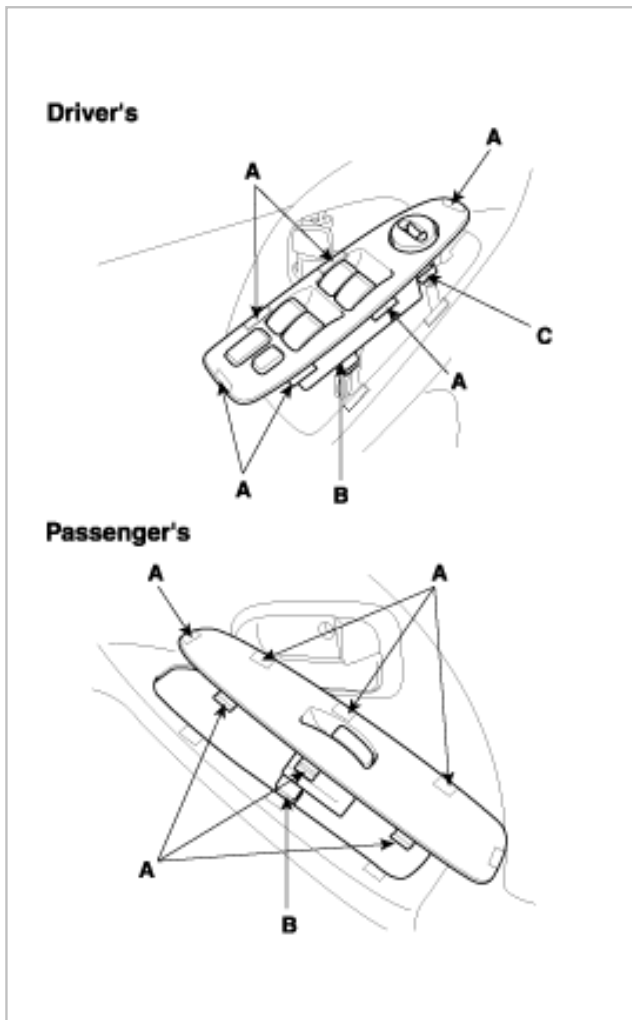
## POWER WINDOW SWITCH REPLACEMENT

### NOTE

Take care not to damage the door trim.

Release the hooks (A), disconnect the power window switch connector (B), and the power mirror connector (C).

Ebay User ID: reveleus1



## ADJUSTMENT

### GLASS ADJUSTMENT

#### NOTE

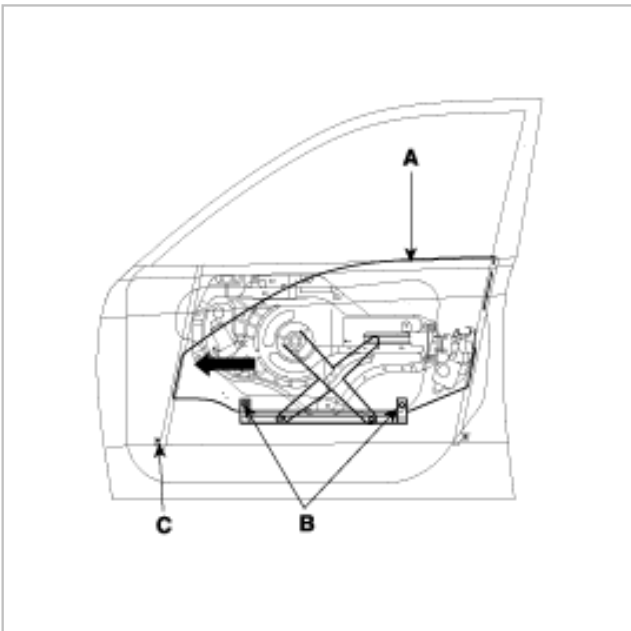
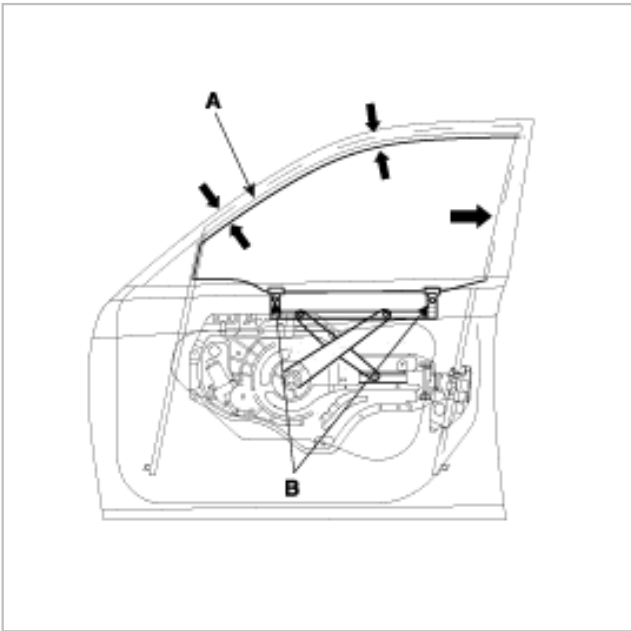
Check the weatherstrips and glass run channel for damage or deterioration, and replace them if necessary.

1. Remove the following parts:

- A. Outside rearview mirror cover (see page BD- 51)
- B. Door trim (see page BD- 25)

2. Carefully move the glass (A) until you can see the glass mounting bolts (B), then loosen them.

Ebay User ID: reveleus1



3. Push the glass (A) against the channel (C), then tighten the glass mounting bolts.

4. Check that the glass moves smoothly.

5. Raise the glass fully, and check for gaps. Check that the glass contacts the glass run channel evenly.

6. Check for water leaks. Run water over the roof and on the sealing area as shown, and note these items:

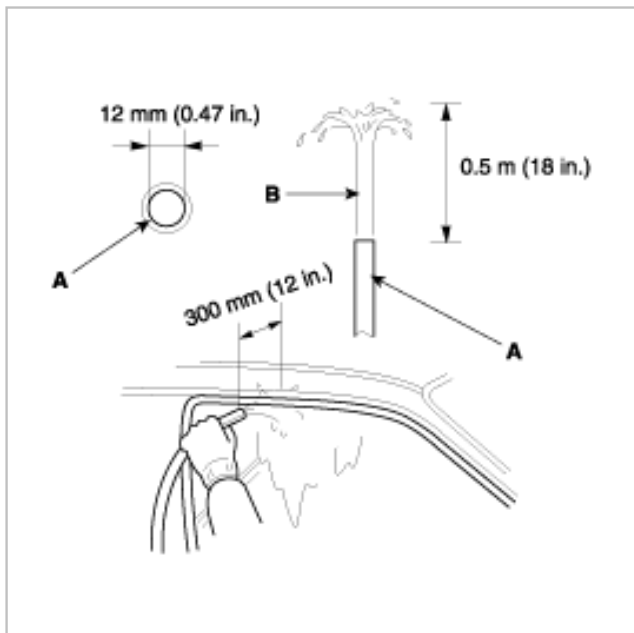
A. Use a 12mm (1/2in.) diameter hose (A).

B. Adjust the rate of water flow as shown (B).

C. Do not use a nozzle.

D. Hold the hose about 300mm (12in.) away from the door (C).

Ebay User ID: revereus1

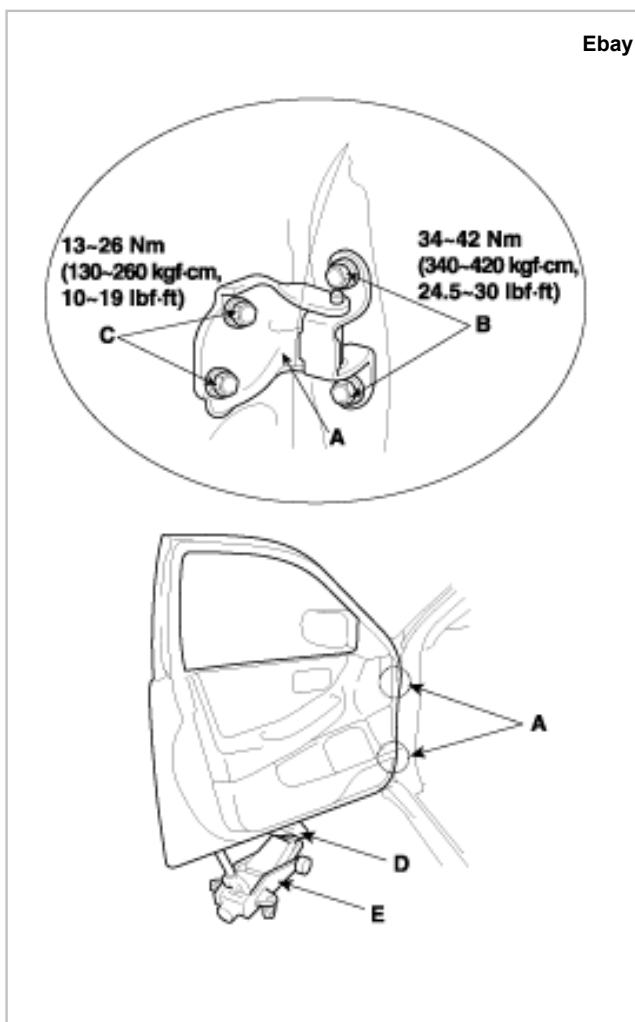


## DOOR POSITION ADJUSTMENT

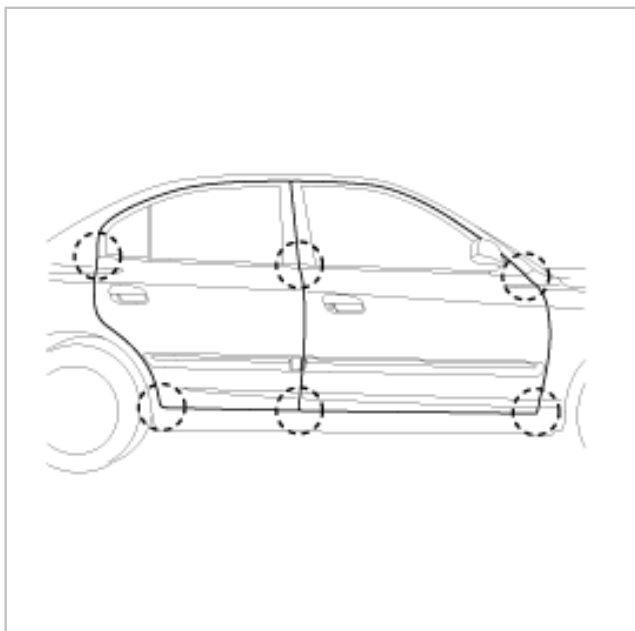
### NOTE

After installing the door, check for a flush fit with the body, then check for equal gaps between the front, rear, and bottom, door edges and the body. Check that the door and body edges are parallel. Before adjusting, replace the mounting bolts.

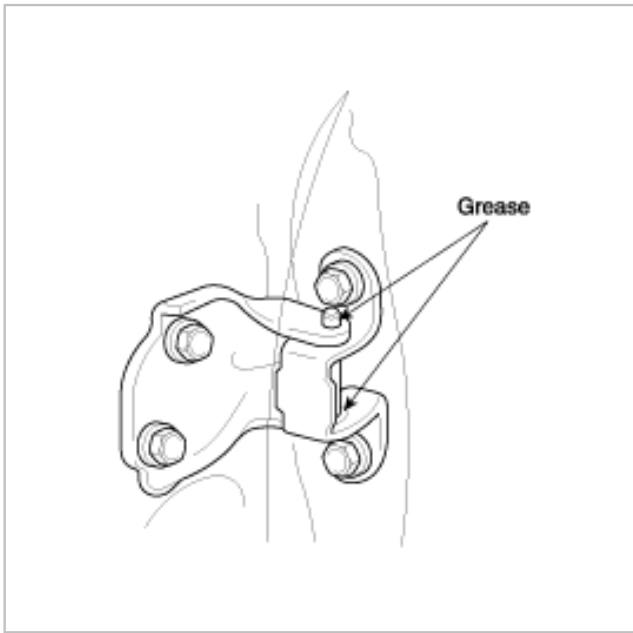
1. Place the vehicle on a firm, level surface when adjusting the doors.
2. Adjust at the hinges(A):
  - A. Loosen the door mounting bolts(B) slightly, and move the door IN or OUT until it's flush with the body.
  - B. Remove the inner fender (see page BD- ), loosen the hinge mounting bolts(C) slightly, and move the door BACKWARD or FORWARD, UP or DOWN as necessary to equalize the gaps.
  - C. Place a shop towel(D) on the jack(E) to prevent damage to the door when adjusting the door.



3. Check that the door and body edges are parallel.



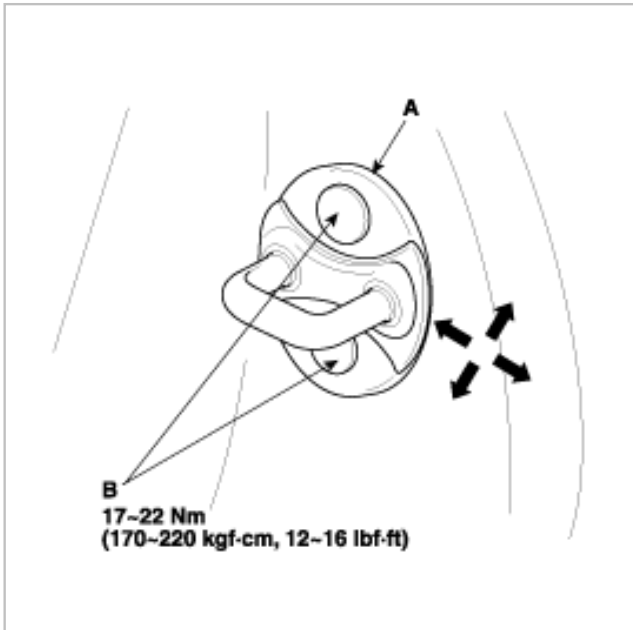
4. Grease the pivot portions of the hinges indicated by the arrows. Ebay User ID: revereus1



5. Check for water leaks (see page BD- 29)

## DOOR STRIKER ADJUSTMENT

1. Loosen the screws (B), then insert a shop towel between the body and striker.



2. Lightly tighten the screws.

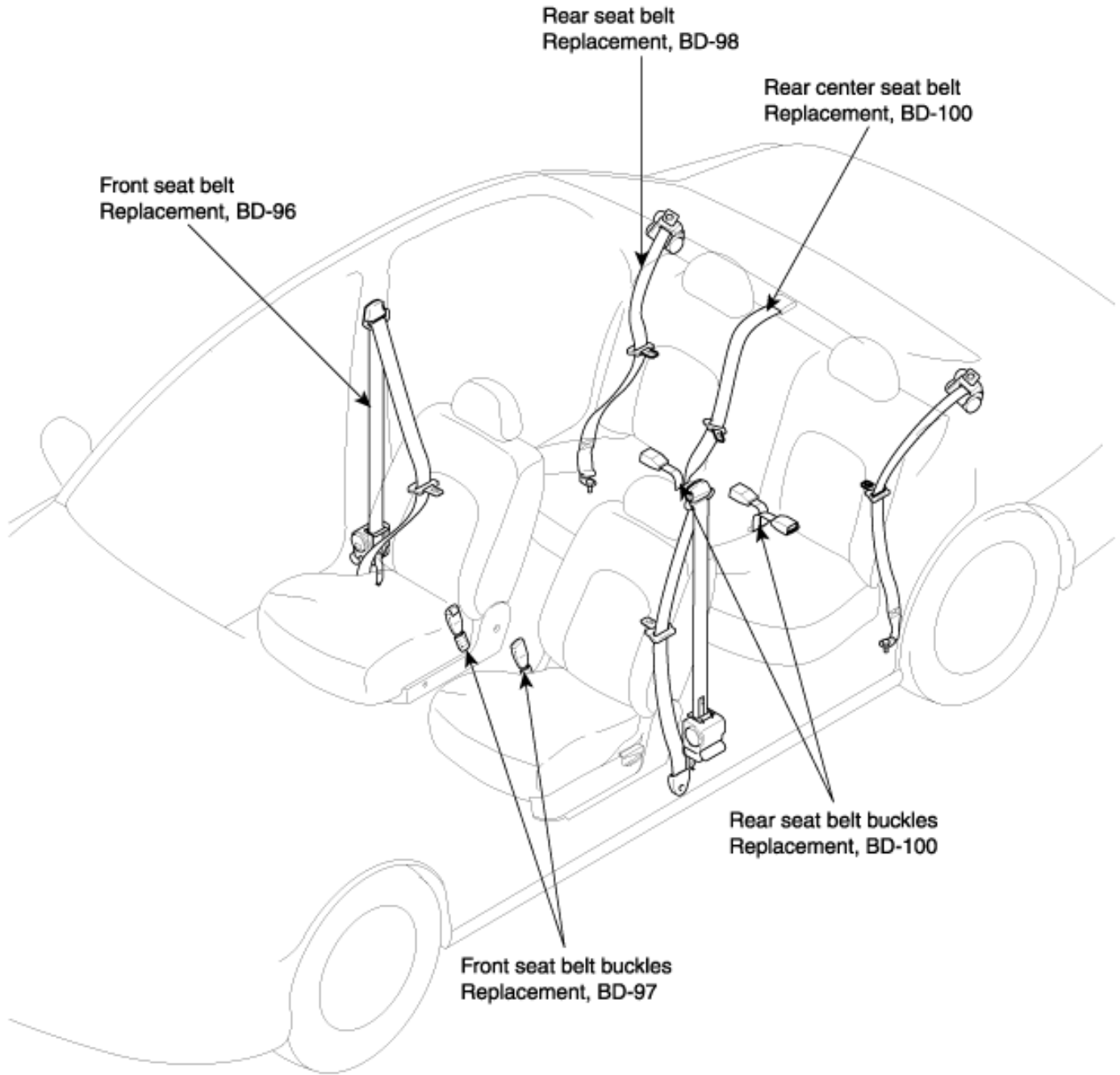
3. Wrap the striker with a shop towel, then adjust the striker by tapping it with a plastic hammer. Do not tap the striker too hard.

4. Loosen the screws and remove the shop towel.

5. Lightly tighten the screws.

6. Hold the outer handle out, and push the door against the body to be sure the striker allows a flush fit. If the door latches properly, tighten the screws and recheck.

# COMPONENT LOCATION



## REPLACEMENT

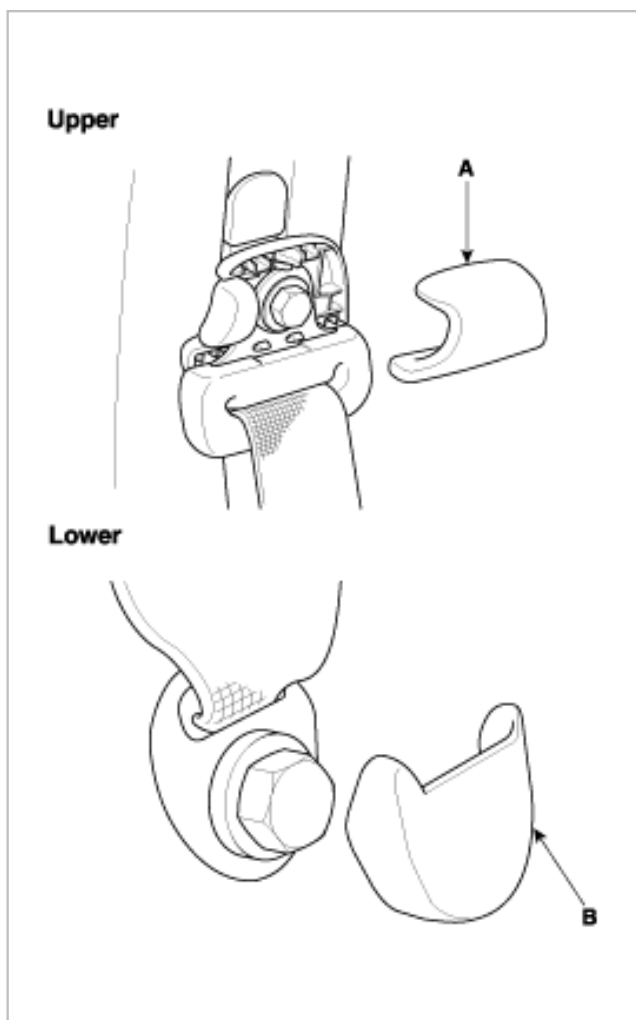
### FRONT SEAT BELT REPLACEMENT

#### NOTE

Check the front seat belts for damage, and replace them if necessary. Be careful not to damage them during removal and installation.

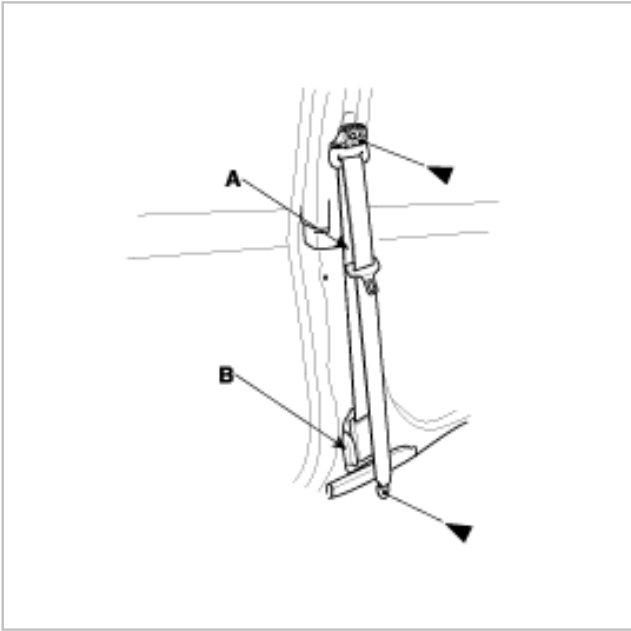
#### Front Seat Belt

1. Slide the front seat forward fully.
2. Remove the following items:
  - A. Front door scuff trim (see page BD- 63).
  - B. Rear door scuff trim (see page BD- 63).
  - C. Center pillar lower trim (see page BD- 63).
3. Remove the upper anchor cover (A), and pull the lower anchor cover (B) back.



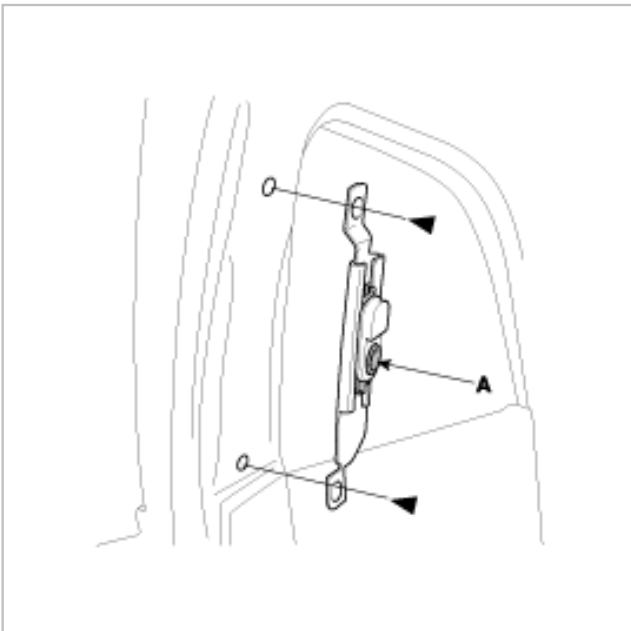


4. Remove the front seat belt (A) and retractor (B).  
Ebay User ID: reveleus1



5. Remove the center pillar upper trim (see page BD- 63).

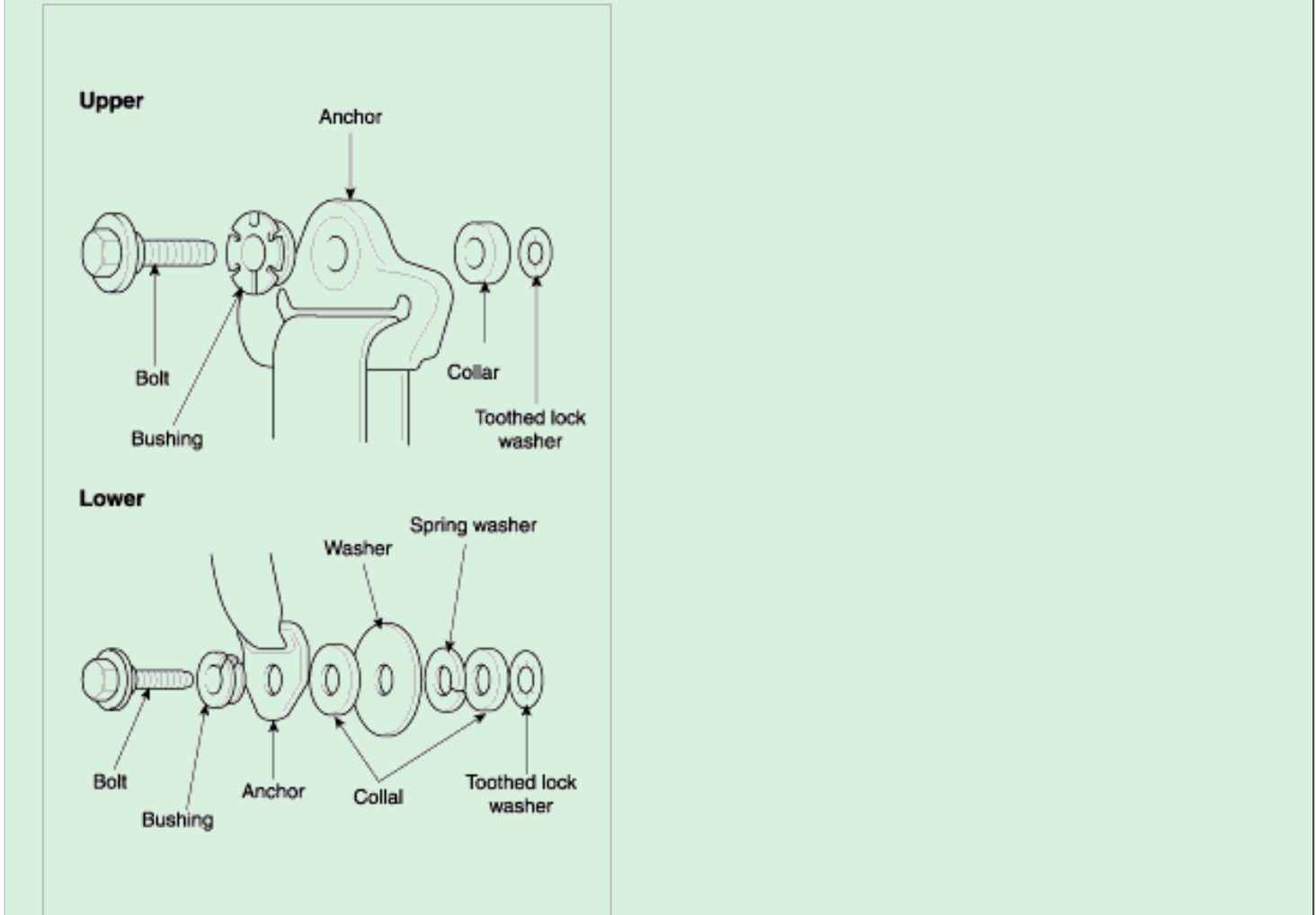
6. Remove the shoulder anchor adjuster (A).



7. Installation is the reverse of removal.

- Apply liquid thread lock to the upper anchor bolt before reinstallation.
- Check that the retractor locking mechanism functions as described (see page RT- ).
- Assemble the washers, collar and bushing on the upper and lower anchor bolts as shown.
- Before installing the anchor bolts, make sure there are no twists or kinks in the front seat belt.

## Upper and lower anchor bolt construction

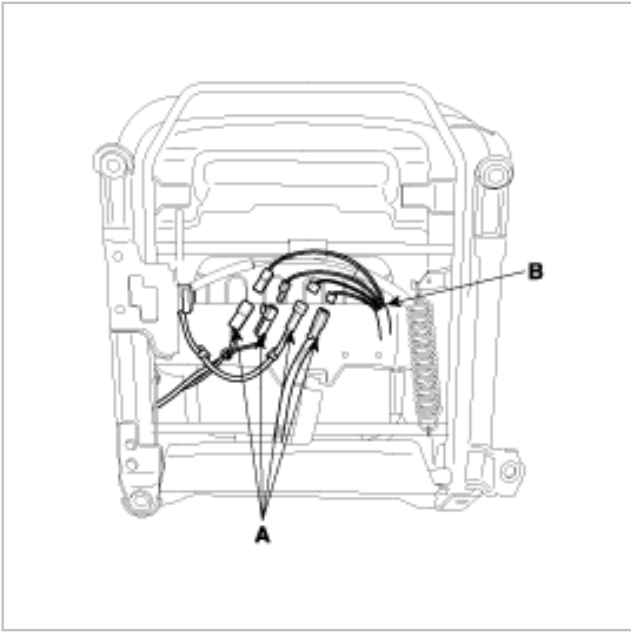


## Seat Belt Buckle

1. Remove the front seat (see page BD- 84).
2. Remove the recline cover (see page BD- 85).

3. On a driver's seat with side airbag, disconnect and/or detach the seat belt switch connector(A) and clip and harness clips (B).

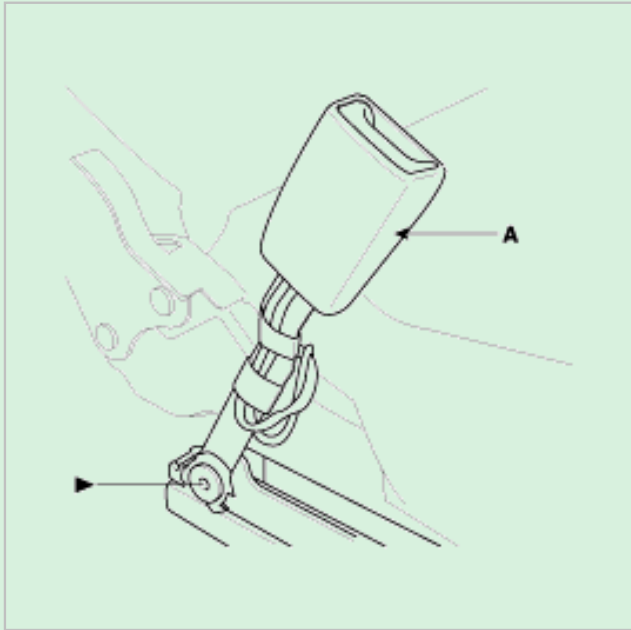
Ebay User ID: reveleus1



4. Remove the center anchor bolt, and remove the seat belt buckle (A).

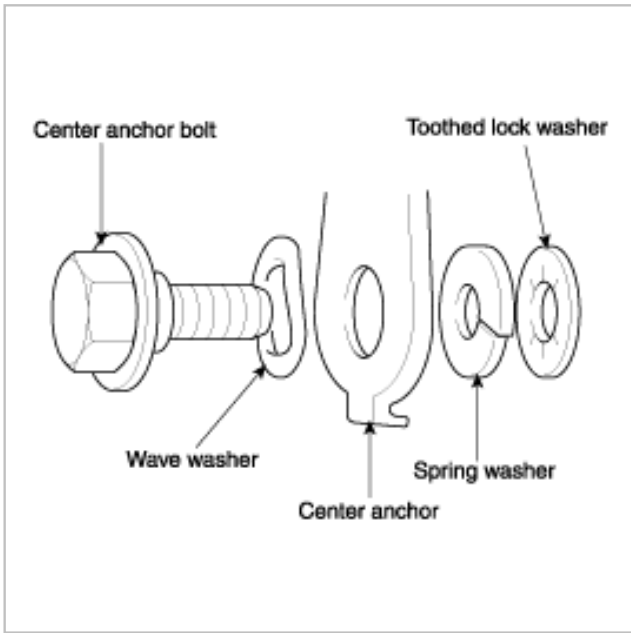
#### NOTE

-The power height adjustable seat is shown, the manual seat, and the manual height adjustable seat are similar.



5. Installation is the reverse of removal. Assemble the washers on the center anchor bolt as shown.

Ebay User ID: revereus1



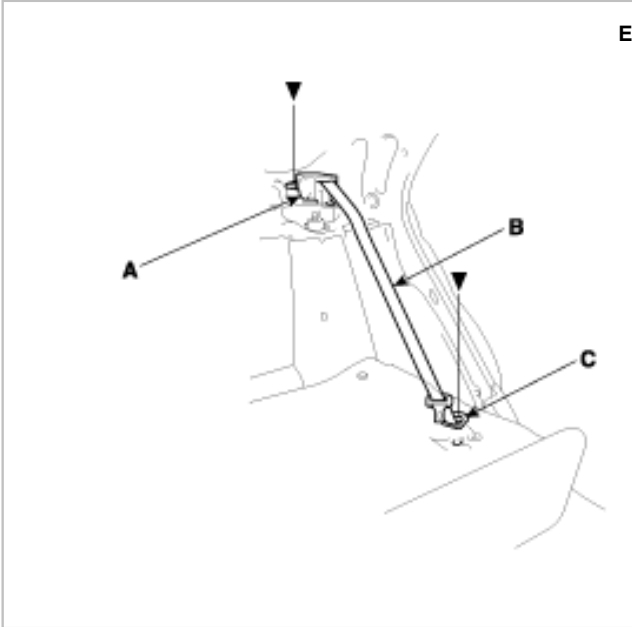
## REAR SEAT BELT REPLACEMENT

### NOTE

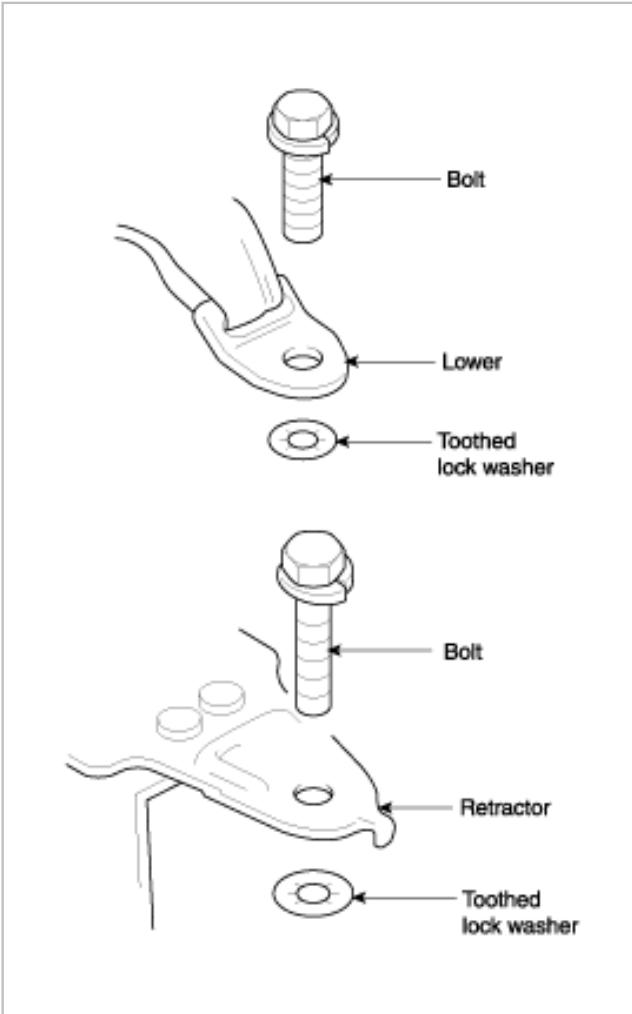
-Check the rear seat belts for damage, and replace them if necessary. Be careful not to damage them during removal and installation.

### Rear Seat Belt

1. Remove the following items:
  - A. Rear seat cushion (see page BD- 89).
  - B. Rear seat side pad, both sides (see page BD- 89).
  - C. Rear pillar trim, both sides (see page BD- 63).
  - D. Rear package tray (see page BD- 64).
2. Remove the center anchor bolt of the center belt.
3. Remove the lower anchor bolt (A), retractor bolt, and remove the rear seat belt (B), and retractor (C).



Retractor and lower anchor bolt construction.

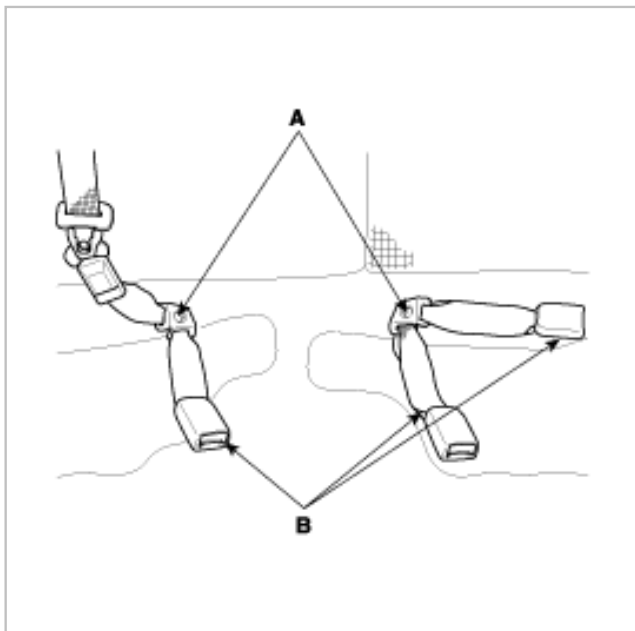


**NOTE**

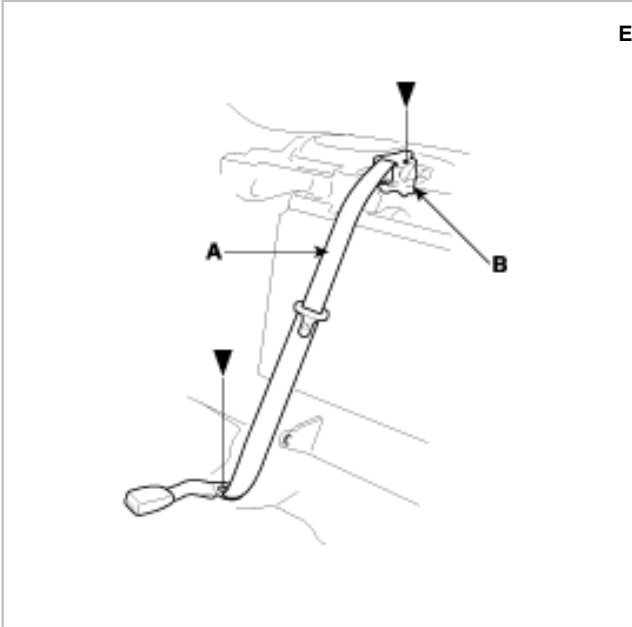
- If the threads on the retractor mounting ET screw are worn out, use an oversized ET screw made specifically for this application.
- Check that the retractor locking mechanism functions as described.
- Before installing the anchor bolt, make sure there are no twists or kinks in the rear seat belt.

### Center Belt and seat Belt Buckles

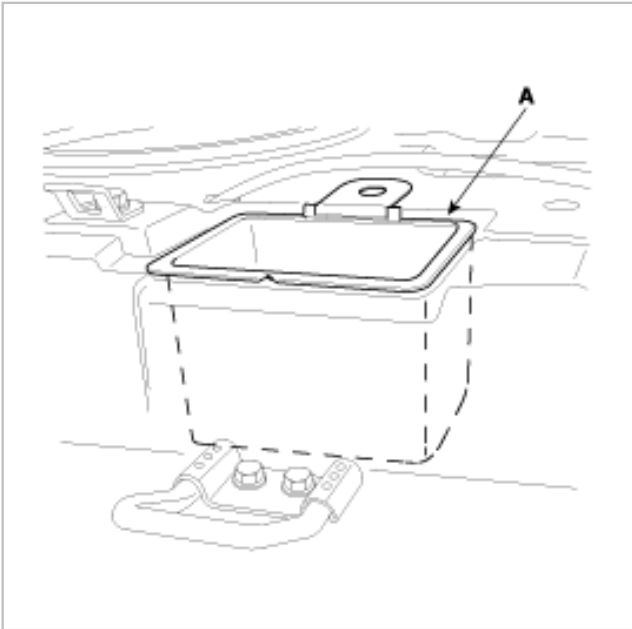
1. Remove the rear seat cushion and rear seat side pad, both sides (see page BD- 89).
2. Remove the center anchor bolts (A), and remove the seat belt buckles (B).



3. Remove the following items:
  - A. Rear pillar trim, both sides (see page BD- 63).
  - B. Real package tray (see page BD- 64).
4. Remove the retractor mounting bolt, and the retractor bolt, then remove center belt (A) and retractor (B).



5. Remove the protector (A).

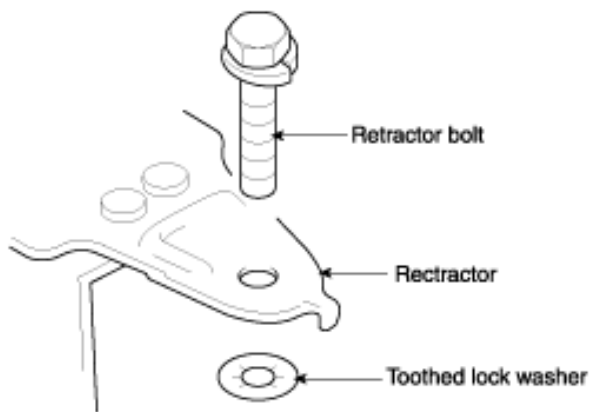
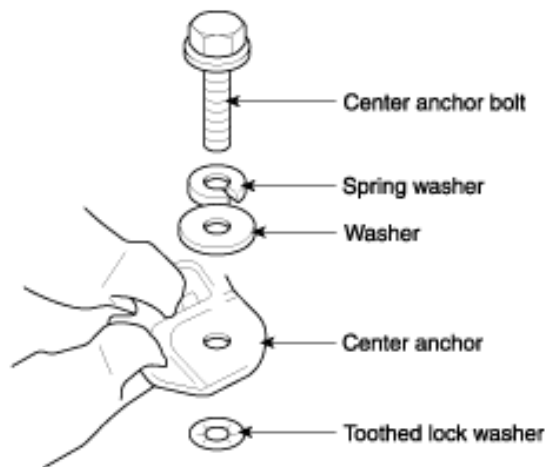


6. Installation is the reverse of removal.

#### NOTE

- If the threads on the retractor mounting ET screw are worn out, use an oversized ET screw made specifically for this application.
- Check that the retractor locking mechanism functions properly (see page BD- ).
- Assemble the washers on the center anchor bolt as shown.
- Before installing the center anchor bolt, make sure there are no twists or kinks in the center belt.

#### Retractor and center anchor bolt construction.



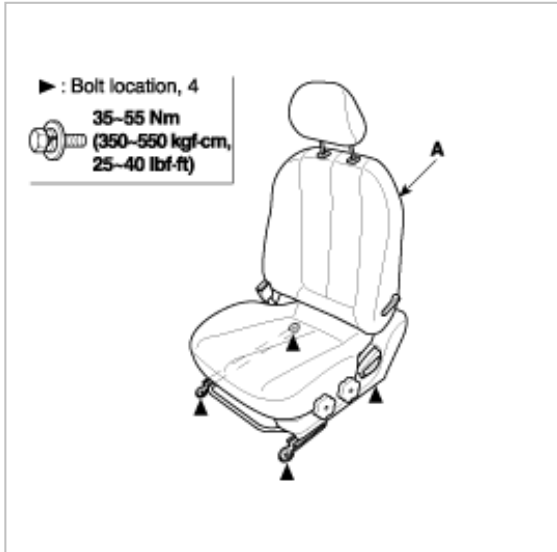


## REMOVAL AND INSTALLATION

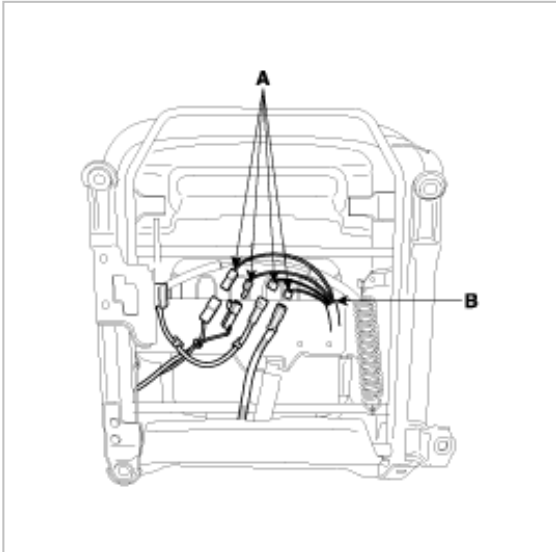
### CAUTION

SRS components are located in this area. Review the SRS component locations precautions, and procedures in the SRS section before performing repairs or service (see page RT group).

1. Remove the seat track end covers, and remove the bolts securing the front seat (A). when prying with a flat-tip screwdriver, wrap it with protective tape to prevent damage. Take care not to scratch toe body or tear the seat covers.



2. Lift up the front seat, then disconnect and detach the seat harness connector (A) and harness clip (B).



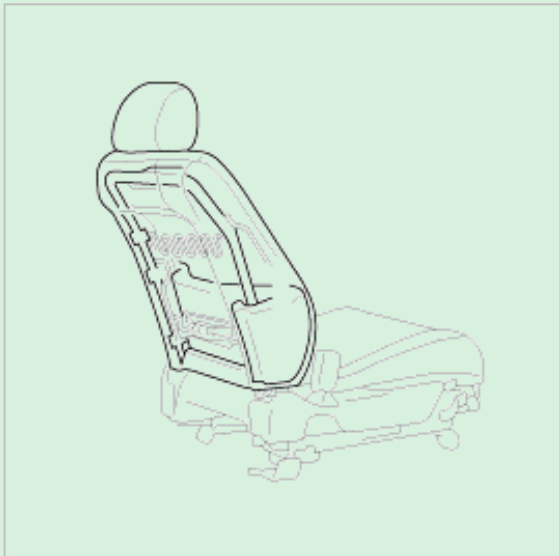
3. With the help of an assistant, carefully remove the front seat through the front door opening.
4. Installation is the reverse of removal, and make sure the seat harness connector is plugged in properly.

## REPLACEMENT

### CAUTION

SRS components are located in this area. Review the SRS component locations, precautions, and procedures in the SRS section before performing repairs or service (see page RT- ).

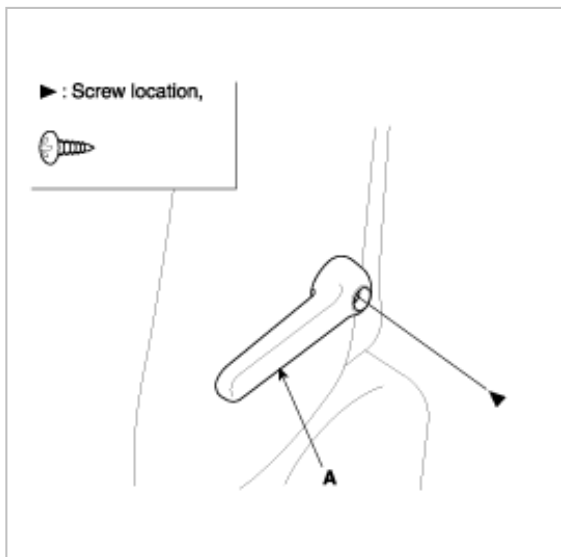
-The seat with a airbag is marked with a side airbag on the surface of the seatback. Because the component parts (seat back cover, cushion, etc.) of seats with and without airbags are different, make sure you install only the correct replacement parts.



- Do not repair any tears or frayed spots of the seat-back cover. If necessary, replace the seat-back cover.
- Take care not to tear the seams or damage the seat covers.
- Put on gloves to protect your hands.

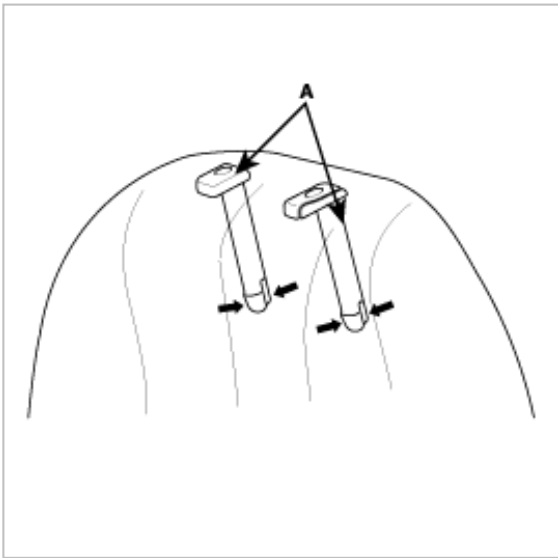
## SEAT BACK COVER

1. Remove the seat (see page BD- 84).
2. Remove the seat back (see page BD- 85).
3. Remove the screw, then remove the lumbar support knob (A).

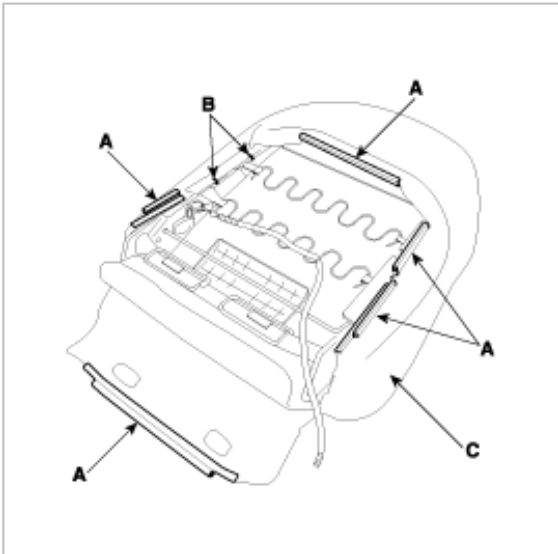


4. Remove the headrest and headrest guide.

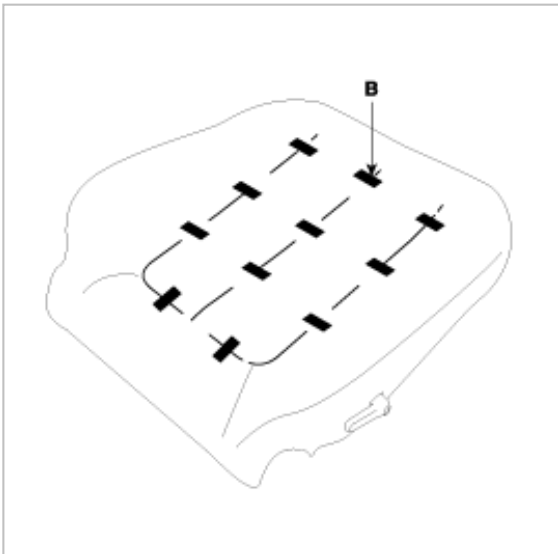
Ebay User ID: reveleus1



5. Release the hook (A) and clips (B) then fold back the seat back cover.



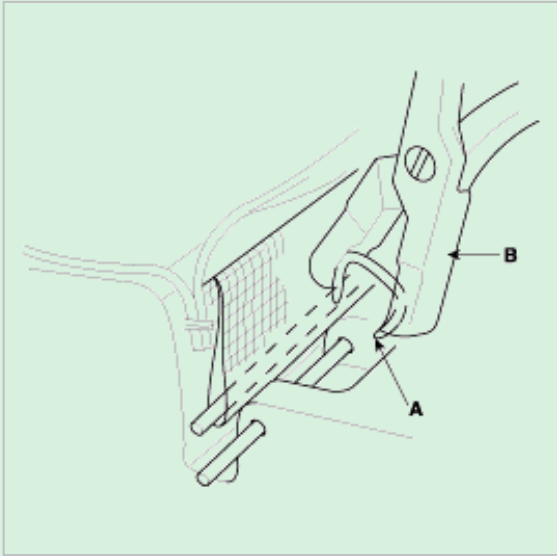
6. Pull back the edge of the seat-back cover all the way around, then release the clips (B).



7. Remove the seat-back cover.

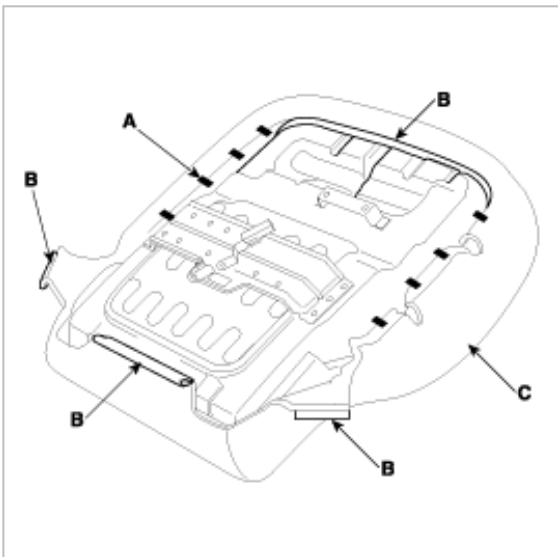
**NOTE**

- To prevent wrinkles when installing a seat-back cover, make sure the material is stretched evenly over the pad before securing the fastener, hook and inside springs.
- With side airbag, replace the clips (A) with new ones using commercially available upholstery ring pliers (B).



**SEAT CUSHION COVER**

1. Remove the front seat (see page BD- 84).
2. Remove the seat cushion (see page BD- 85).
3. Release the clips (A) and hooks (B) from under the seat cushion, then loosen the seat cushion cover (C).

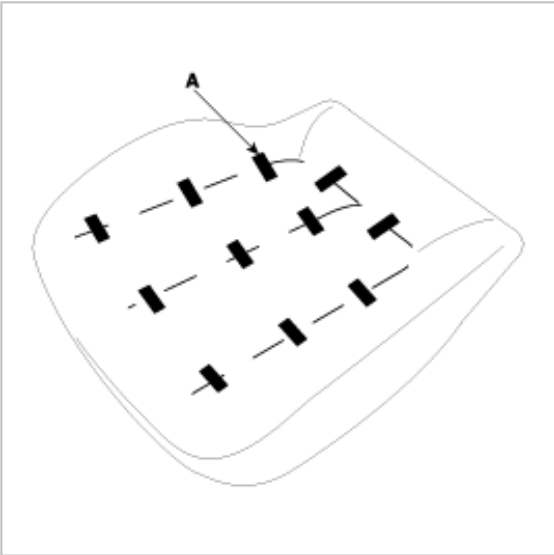


Purchased  
from Ebay seller  
Reveleus1

Thank-you for purchasing from me, it  
is much appreciated.

To contact me please email  
[suzlever@gmail.com](mailto:suzlever@gmail.com)

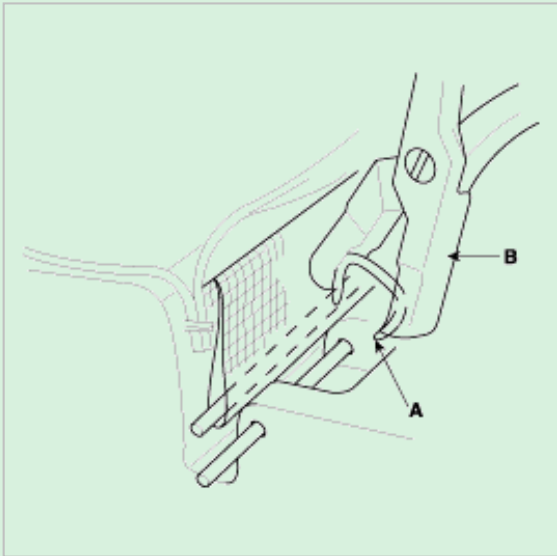
4. Pull back the edge of the seat cushion cover all the way around, and release the clips (A), then remove the seat cushion cover. Ebay User ID: reveleus1  
On a leather seat cover, there is no fastener to remove.



5. Installation is the reverse of removal.

#### NOTE

- To prevent wrinkles when installing the seat cushion cover, make sure the material is stretched evenly over the pad before securing the clips and hooks.
- Replace the released clips with new ones (A) using commercially available upholstery ring pliers (B).



## DISASSEMBLY AND REASSEMBLY

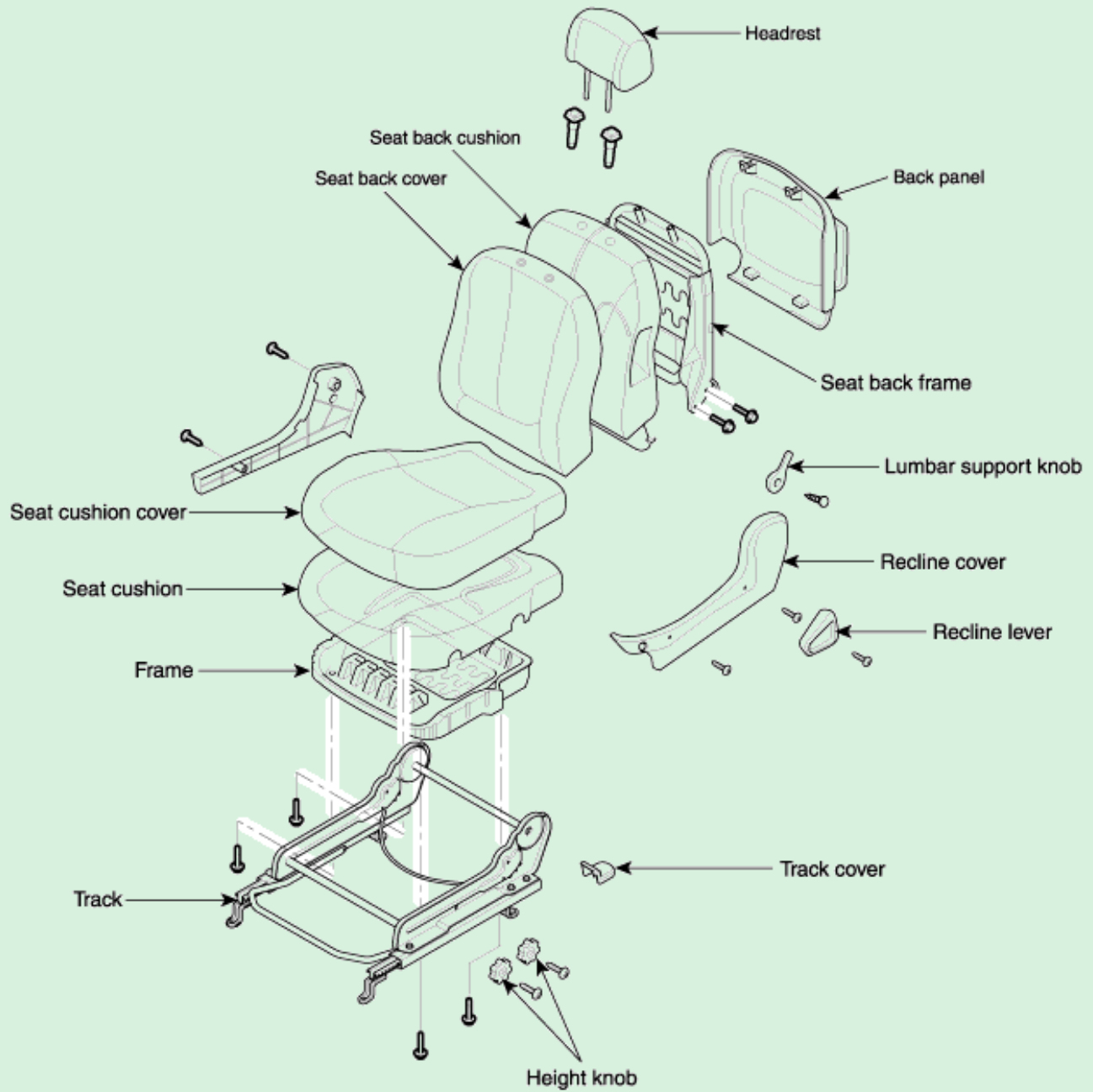
1. Disassembly the front seat.

#### CAUTION

SRS components are located in this area. Review the SRS component locations, precautions, and procedures in the SRS section before performing repairs or service (see page RT broup).

**NOTE**

- Route the seat wire harness and recline cable correctly (see page BD- 84).
- Make sure the bushing and pivot washer are installed correctly.
- Apply multipurpose grease to the moving portion of the seat track.
- To prevent wrinkles in the seat-back cover, stretch the material evenly over the pad.
- Replace the back panel clips with new ones.



## REPLACEMENT

### HOOD REPLACEMENT

#### NOTE


- When removing and installing the hood, an assistant is necessary.
- Take care not to damage the hood and body.
- When removing the clips, use a clip remover.

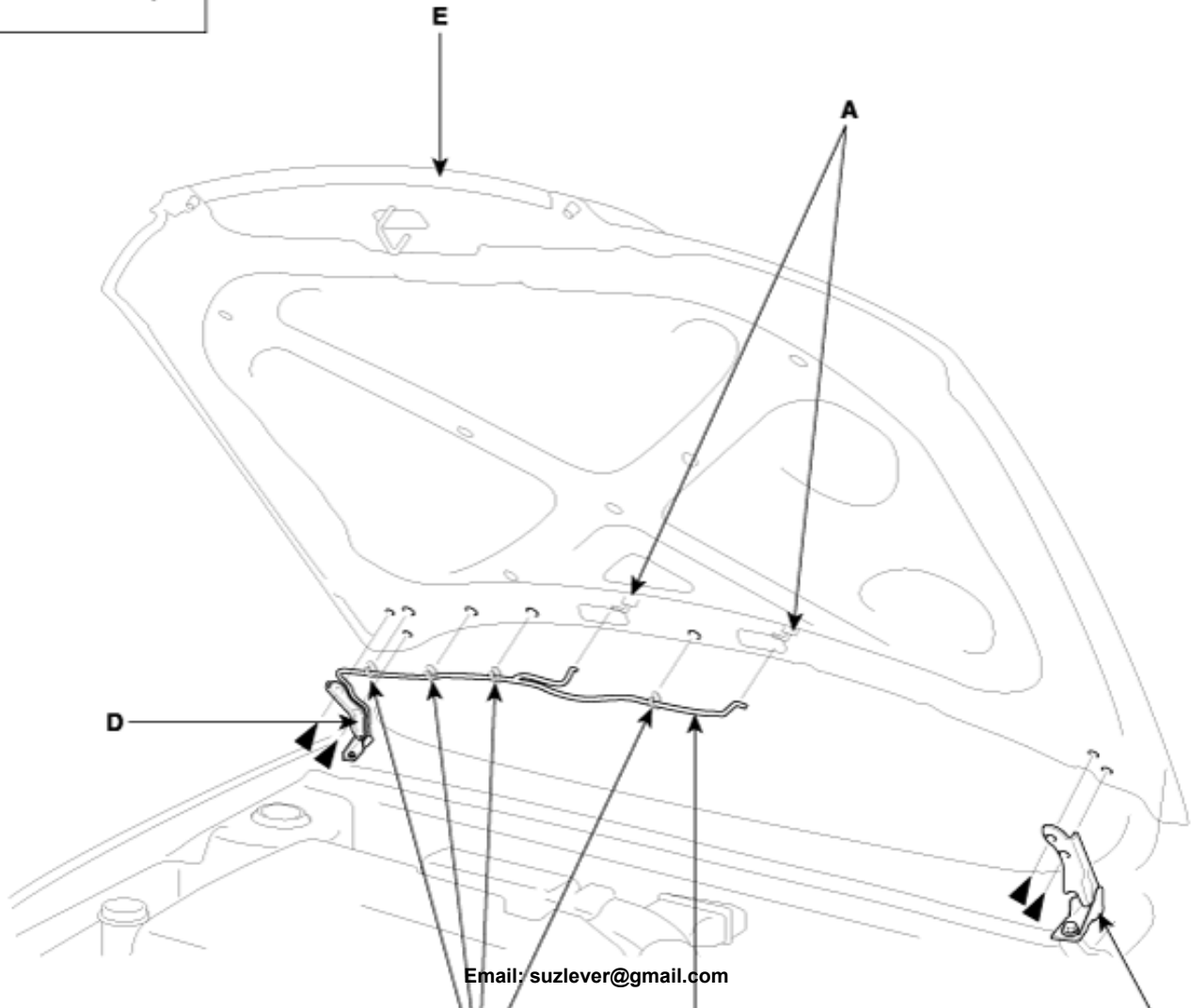
1. Disconnect the windshield washer nozzle (A) connecting tube (B) and clip (C).
2. After loosening the hood hinge (D) mounting bolts, remove the hood (E).
3. Installation is the reverse of removal.

#### NOTE

- Make sure the hood opens properly and locks securely.
- Adjust the hood alignment (See page BD - 12).

► : Bolt locations, 4

 **22~27 Nm**  
**(220~270 kgf-cm,**  
**16~19.5 lbf-ft)**





C

B

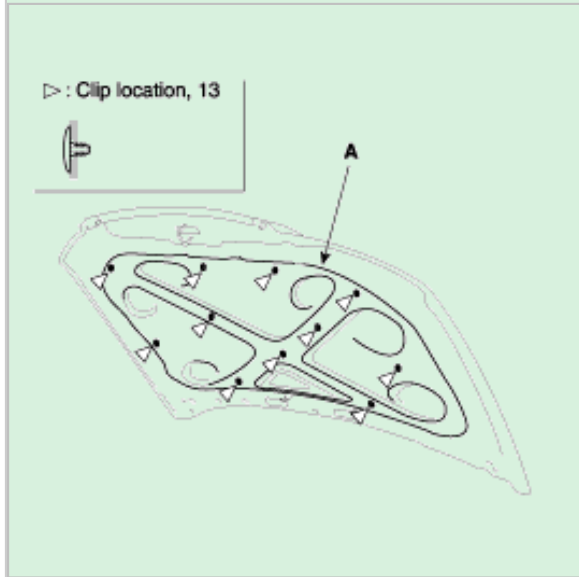
D

## HOOD INSULATOR REPLACEMENT

1. Using a clip remover, detach the clips, and remove the hood insulator (A).

### NOTE

Take care not to scratch the hood.



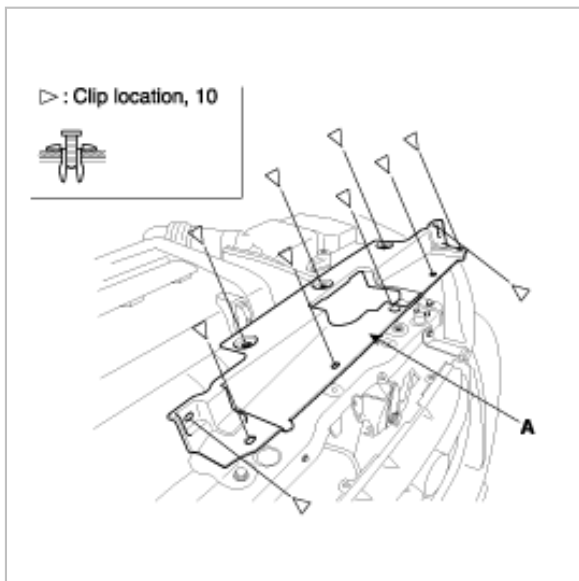
2. Installation is the reverse of removal.

### NOTE

Replace any damaged clips.

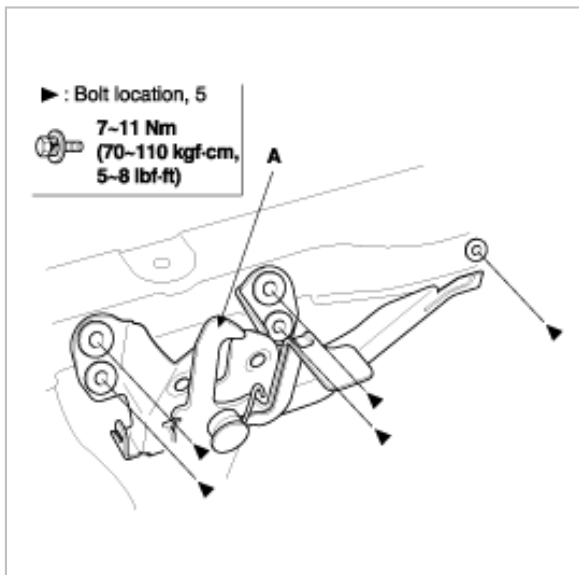
## HOOD LATCH REPLACEMENT

1. Remove the radiator guard (A).

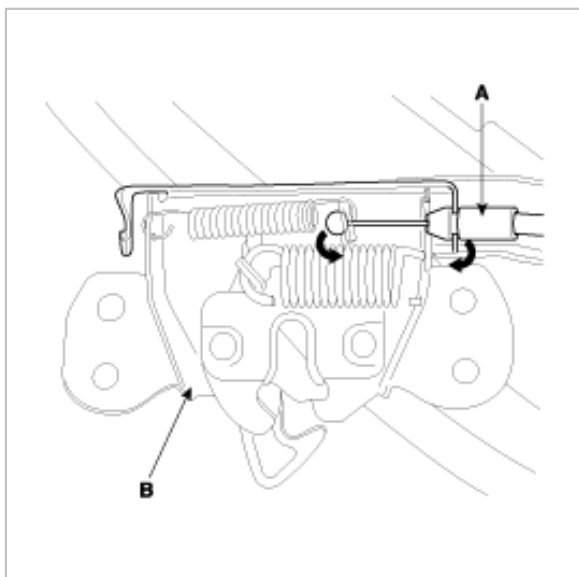


2. Remove the hood latch (A) mounting bolts.

Ebay User ID: reveleus1



3. Disconnect the hood latch cable (A) remove the hood latch (B).



4. Installation is the reverse of removal.

#### NOTE

- Make sure the hood latch cable is connected properly.
- Make sure the hood locks securely.

## HOOD LATCH CABLE REPLACEMENT

1. Remove the following items:

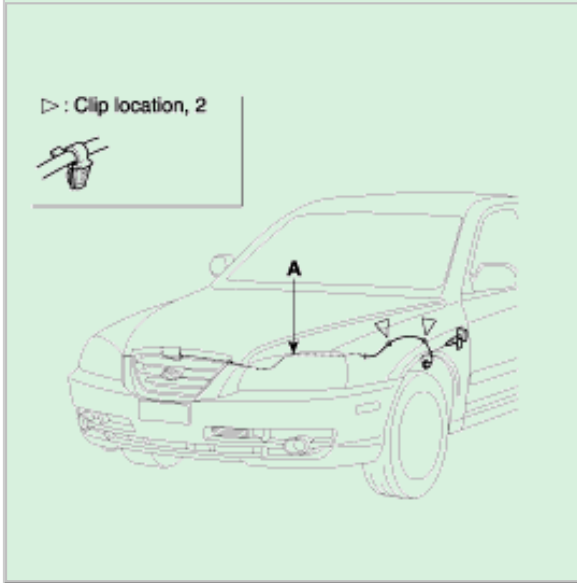
- A. Hood release handle (see page BD- 11).
- B. Radiator guard (see page BD- 9)
- C. Hood latch (see page BD- 9)
- D. Wheel guard (see page BD- 40)

- Using a clip remover, detach the clips from the body, then remove the hood latch cable (A) from the vehicle.

Ebay User ID: reveleus1

#### NOTE

Take care not to bend the cable.



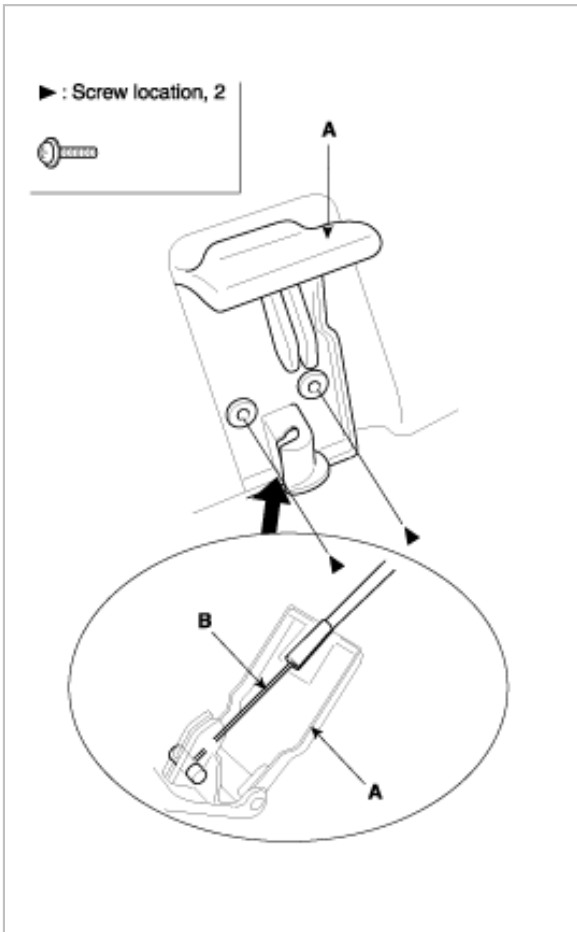
- Installation is the reverse of removal.

#### NOTE

- Make sure the hood latch cable is connected properly.
- Replace any damaged clips.

## HOOD RELEASE HANDLE REPLACEMENT

- Remove the screws, then remove the hood release handle (A).
- Disconnect the hood latch cable (B) from the hood release handle. Take care not to bend the cable.



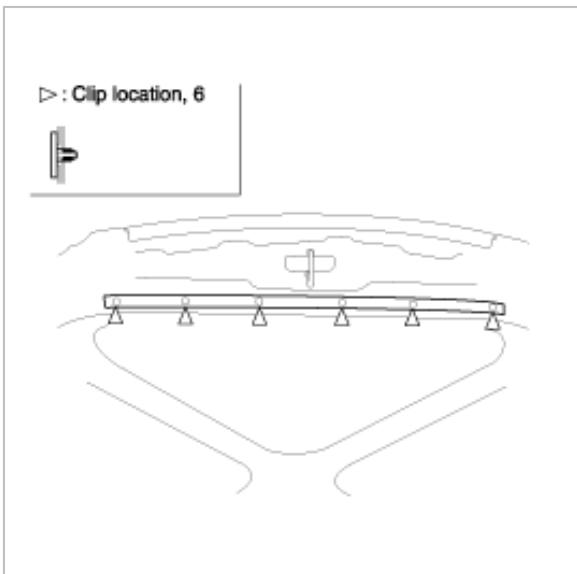
3. Installation is the reverse of removal.

#### NOTE

- Make sure the hood latch cable is connected properly.
- Make sure the hood opens properly.

## HOOD WEATHERSTRIP REPLACEMENT

1. Detach the clips, then remove the hood weathersrip (A). Take care not to scratch the hood.



2. Installation is the reverse of removal.

Ebay User ID: reveleus1

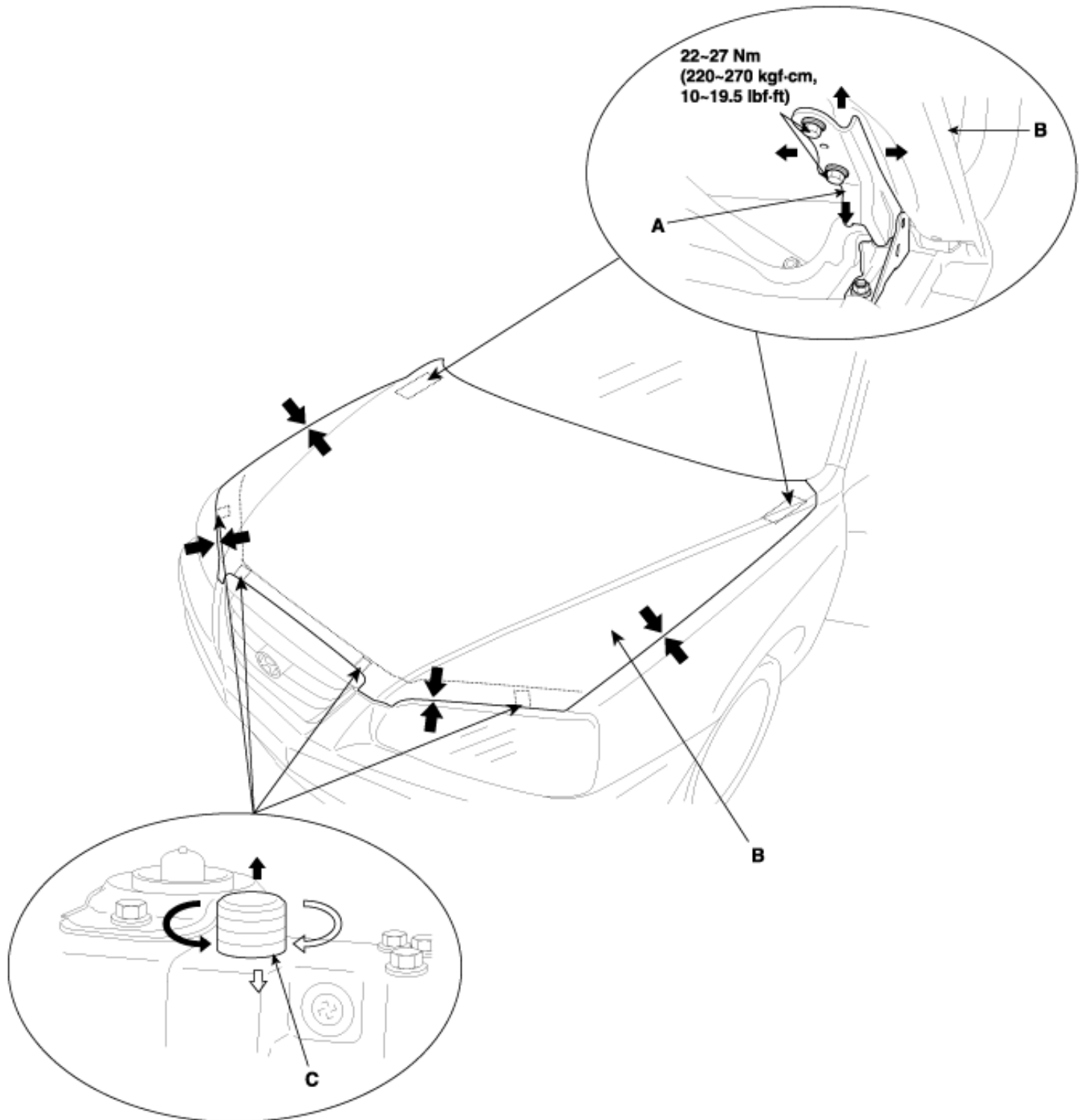
## NOTE

-Replace any damaged clips.

## ADJUSTMENT

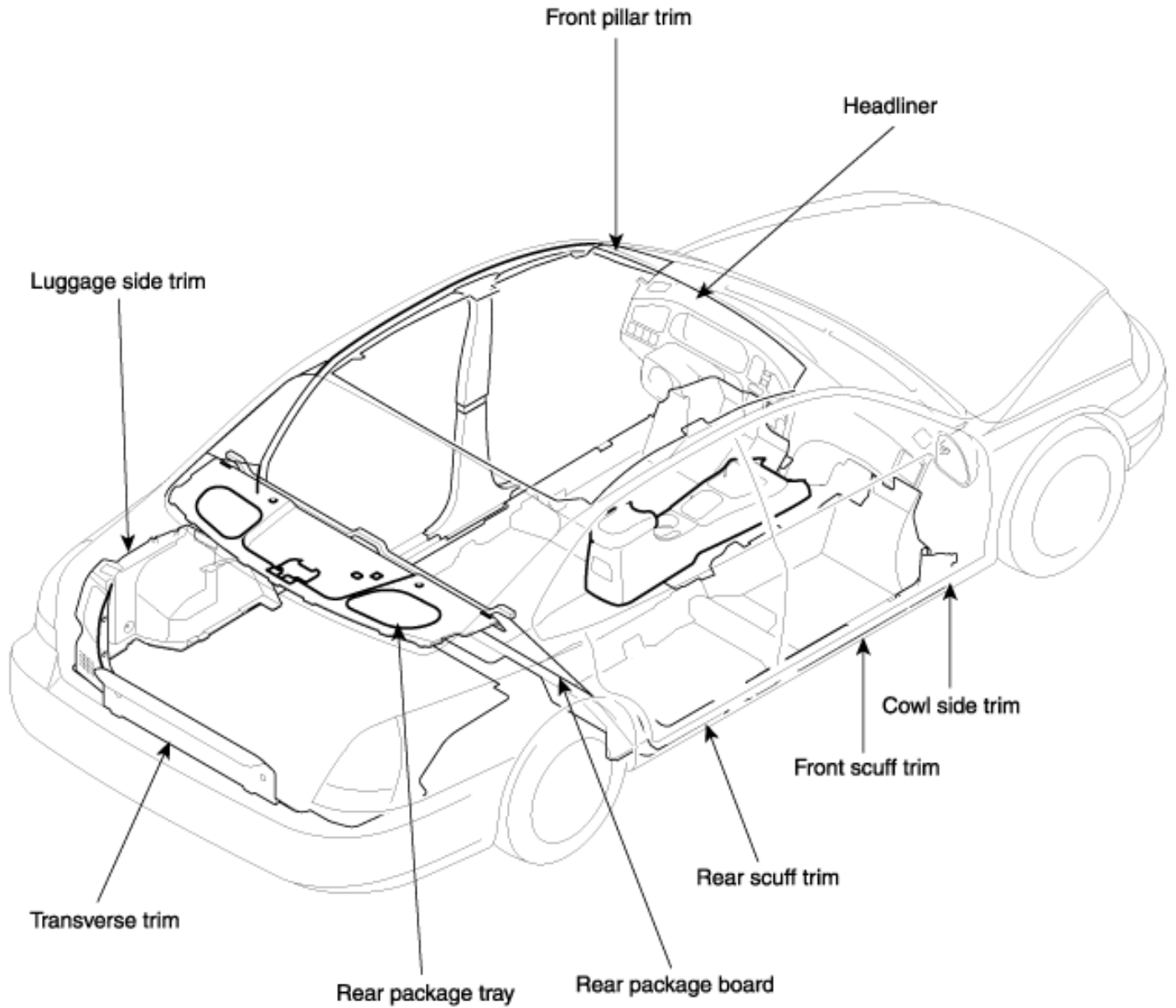
### ADJUST HOOD

1. After loosening the hood hinge mounting bolt (A), adjust the hood (B) by moving it up or down, or right or left.
2. Adjust the hood height by turning the hood overslam bumper (C).





# COMPONENT LOCATION



## REMOVAL AND INSTALLATION

### DOOR AREA

1. Remove the trims.

#### NOTE

- Put on gloves to protect your hands.
- When prying with a flat-tip screwdriver, wrap it with protective tape to prevent damage.
- Take care not to bend or scratch the trim and panels.

2. Installation is the reverse of removal.

#### NOTE

- Replace any damage clips.
- Apply liquid thread lock to the front seat belt upper anchor bolt before installation.
- Before installing the anchor bolts, make sure there are no twists or kinks in the belts.

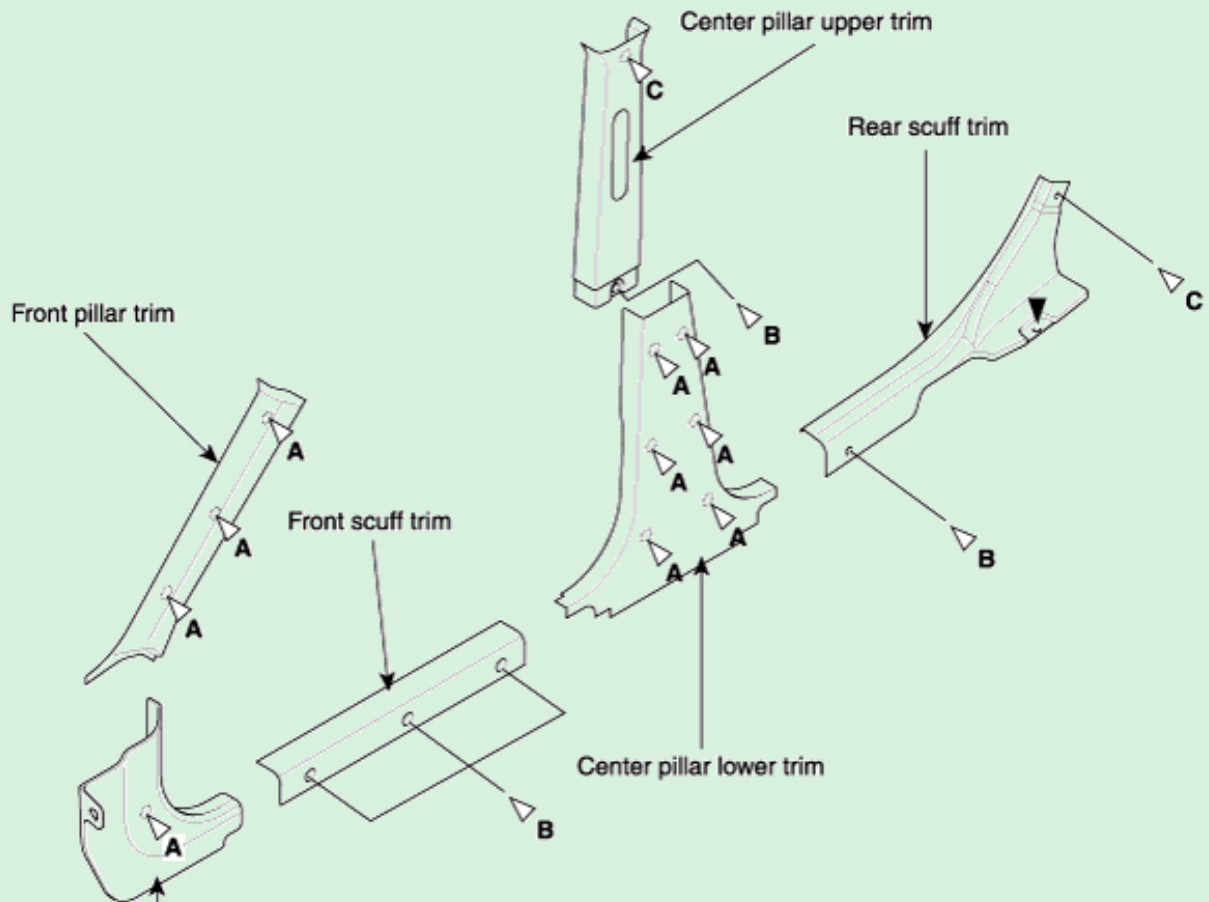
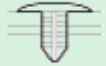
#### Fastener Locations

► : Screw, 1

A ▷ : Clip, 10

B ▷ : Clip, 5

C ▷ : Clip, 2





## REAR SHELF AREA

1. Remove the trims.

### NOTE

- Put on gloves to protect your hands.
- When prying with a flat-tip screwdriver, wrap it protective tape to prevent damage.
- Take care not to bend or scratch the trim and panels.

2. Installation is the reverse of removal.

### NOTE

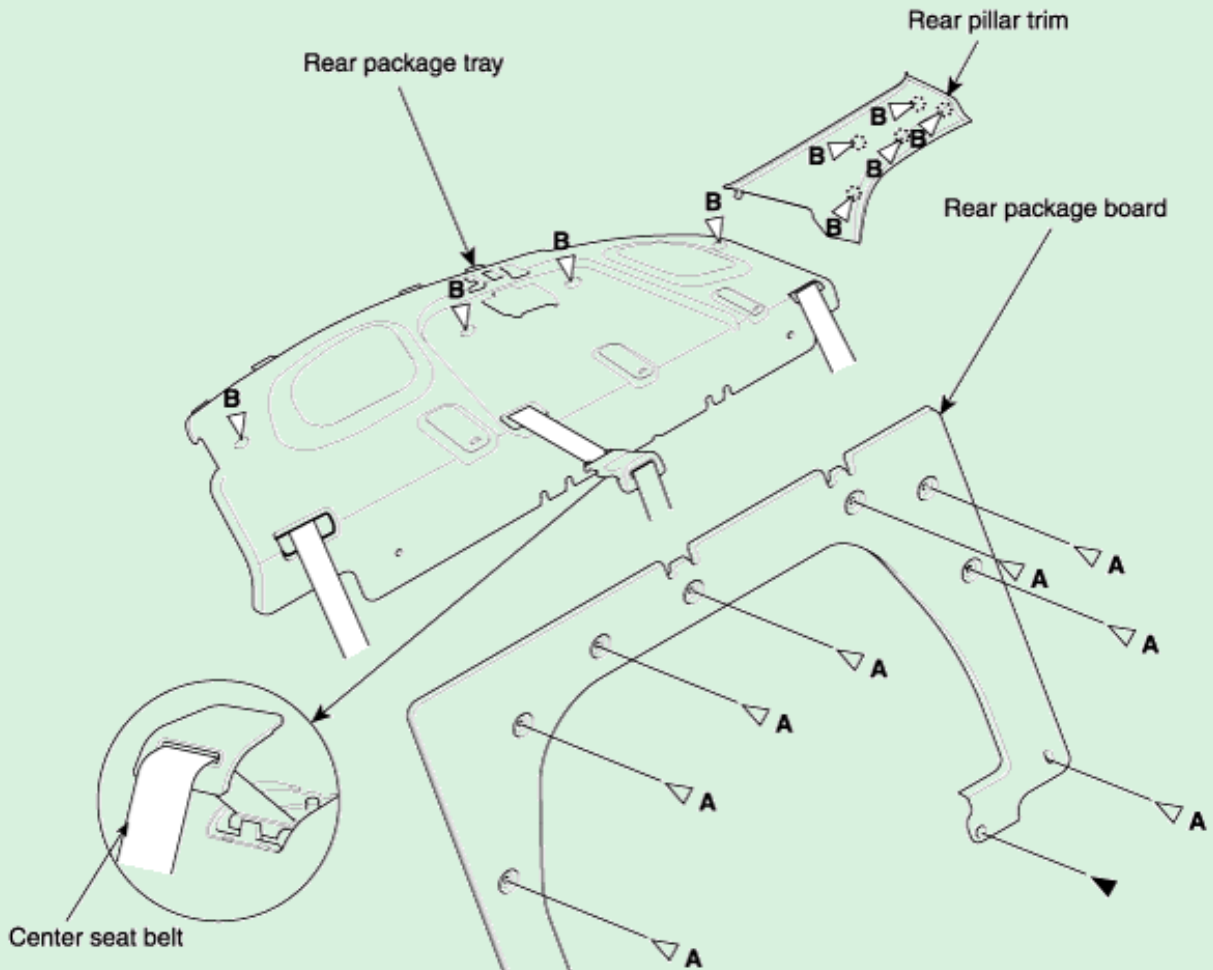
- Replace any damage clips.
- Apply liquid thread lock to the front seat belt upper anchor bolt before installation.
- Before installing the anchor bolts, make sure there are not twists or kinks in the belts.

### Fastener Locations

► : Screw, 2

A ▷ : Clip, 9

B ▷ : Clip, 9



## TRUNK AREA

1. Remove the trims.

### NOTE

- Put on gloves to protect your hands.
- When prying with a flat-tip screwdriver, wrap it protective tape to prevent damage.
- Take care not to bend or scratch the trim and panels.

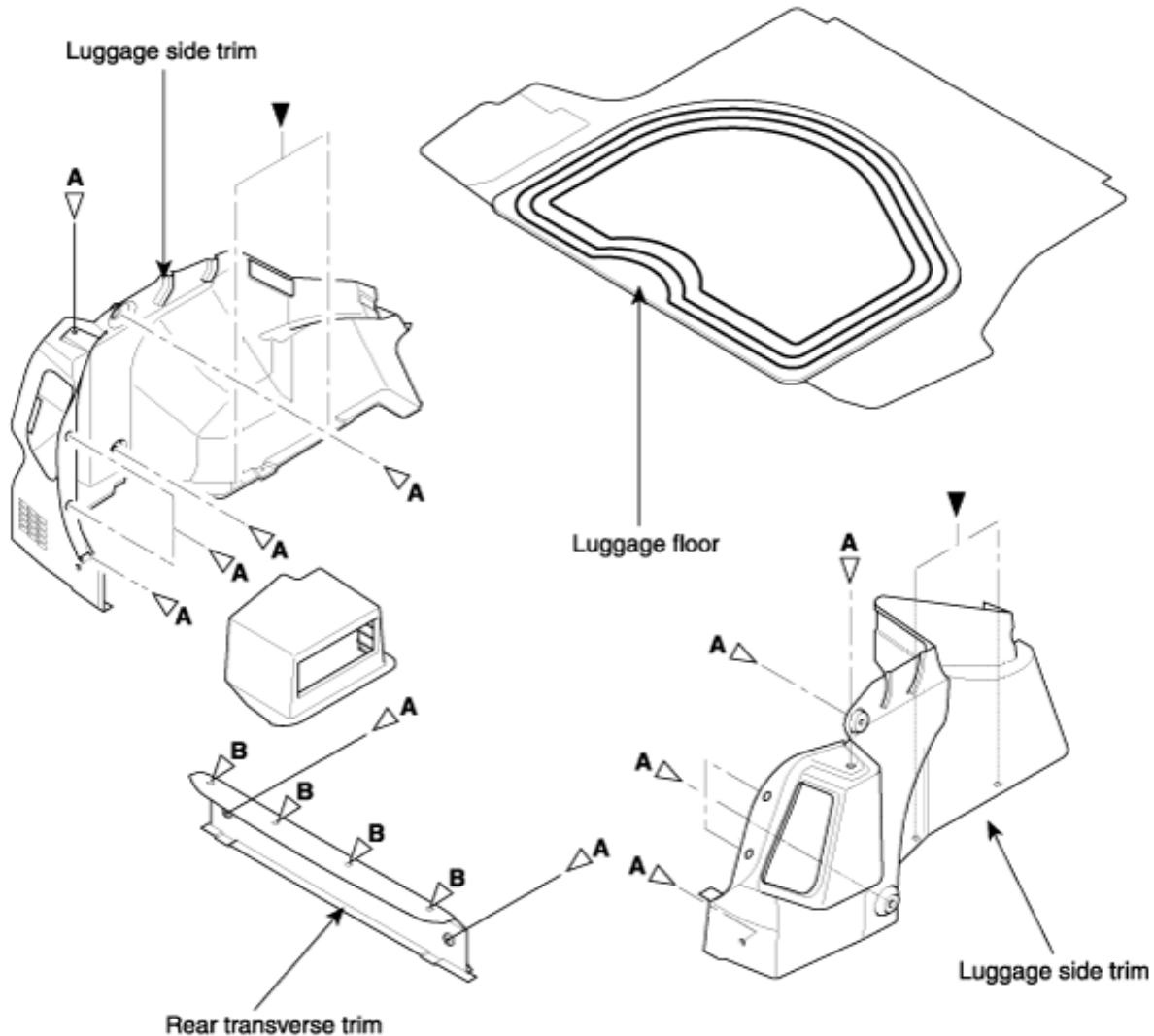
2. Installation is the reverse of removal, and replace any damaged clips.

### Fastener Locations

► : Screw, 4

A▷ : Clip, 14

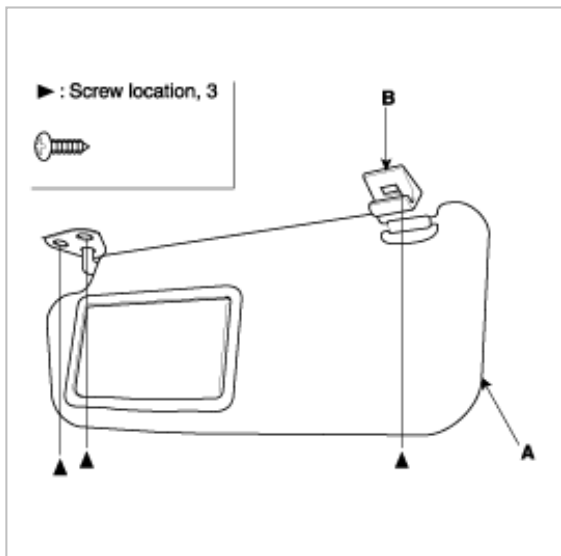
B▷ : Clip, 4



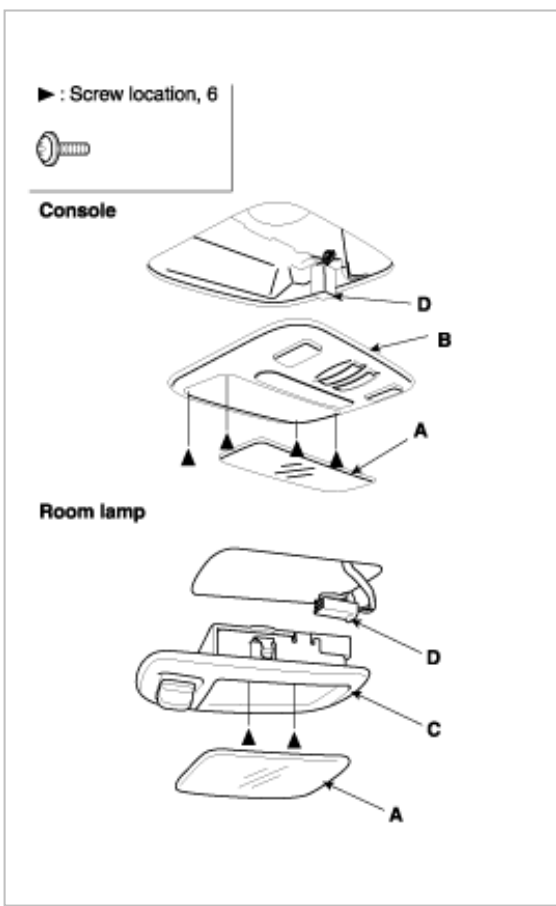
## HEADLINER REMOVAL AND INSTALLATION

- When prying with a flat-tip screwdriver, wrap it protective tape to prevent damage.
- Take care not to bend and scratch the headliner.
- Be careful not to damage the dashboard and other interior trim.

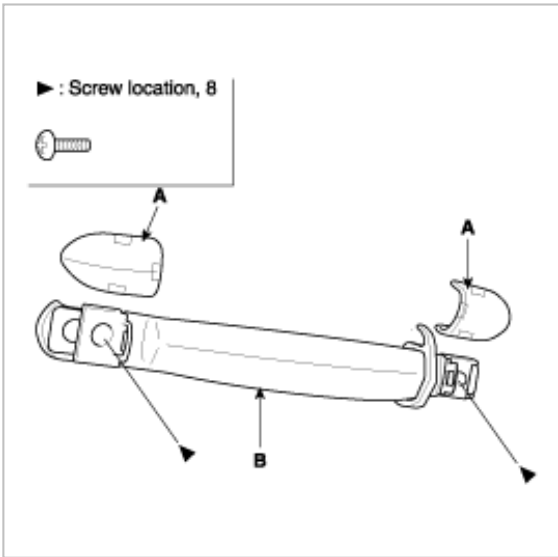
1. Remove the following items (see page BD- 63).
  - A. Front pillar trim (both sides)
  - B. Front seat belt upper anchor bolt (both sides)
  - C. Front and rear scuff trim (see page BD- ).
  - D. Center pillar lower and upper trim (see page BD- ).
  - E. Rear pillar trim (see page BD- ).
2. Remove the sunvisor (A) and holder (B) from each side.



3. Remove the overhead console and room lamp.
  - A. Remove the lens (A).
  - B. Remove the screws.
  - C. Pull out the roof console (B), and room lamp (C).
  - D. Disconnect the connector (D).



4. Remove the caps (A), and remove the screws and washers, then remove the grab handles (B) (drivers and each passengers)

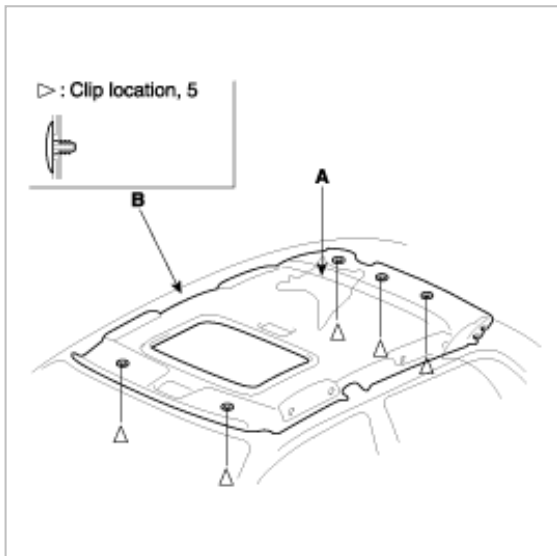


5. Remove the headliner.

- A. Remove the upper portion of the rear pillar trim (A) from each side.
- B. With help of an assistant, detach the clips, and lower the headliner (B).

C. Remove the headliner through the front passengers door opening

Ebay User ID: reveleus1



6. Installation is the reverse of removal.

#### NOTE

- When reinstalling the headliner through the door opening, be careful not to fold or bend it. Also, be careful not to scratch the body.
- If the threads on a visor or grab handle screws are worn out, use an oversized screw made specifically for this application.
- Check that both sides of the headliner are securely attached to the trim.

## CARPET REPLACEMENT

#### NOTE

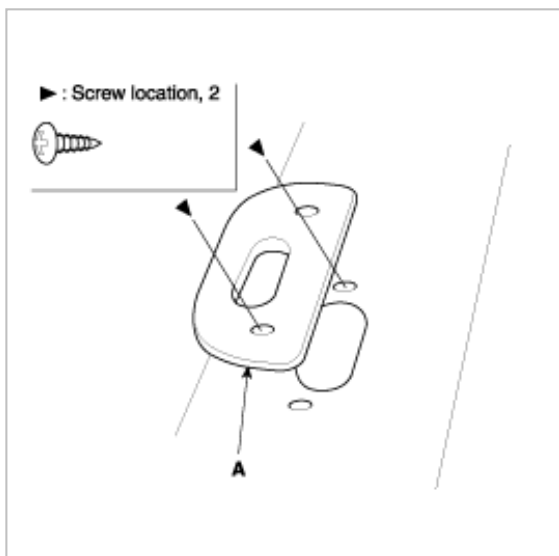
- Put on gloves to protect you hands.
- Take care not to damage, wrinkle or twist the carpet.
- Be careful not to damage the dashboard or other interior trim pieces.

1. Remove the following items:

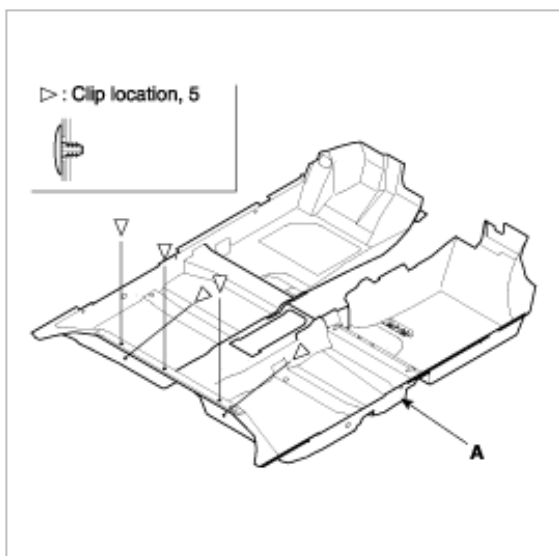
- A. Front seats, both sides (see page BD- 84).
- B. Console (see page BD- 53).
- C. Rear seat cushion (see page BD- 89).
- D. Front seat belt anchor bolt, both sides (see page BD- 96).
- E. Front door scuff trim (see page BD- 63).
- F. Rear door scuff trim (see page BD- 63).
- G. Center pillar lower trim panel (see page BD- 63).

2. Remove the footrest (A).

Ebay User ID: reveleus1



3. Remove the clips and fasteners, then remove the carpet (A). Put on gloves to protect your hands.



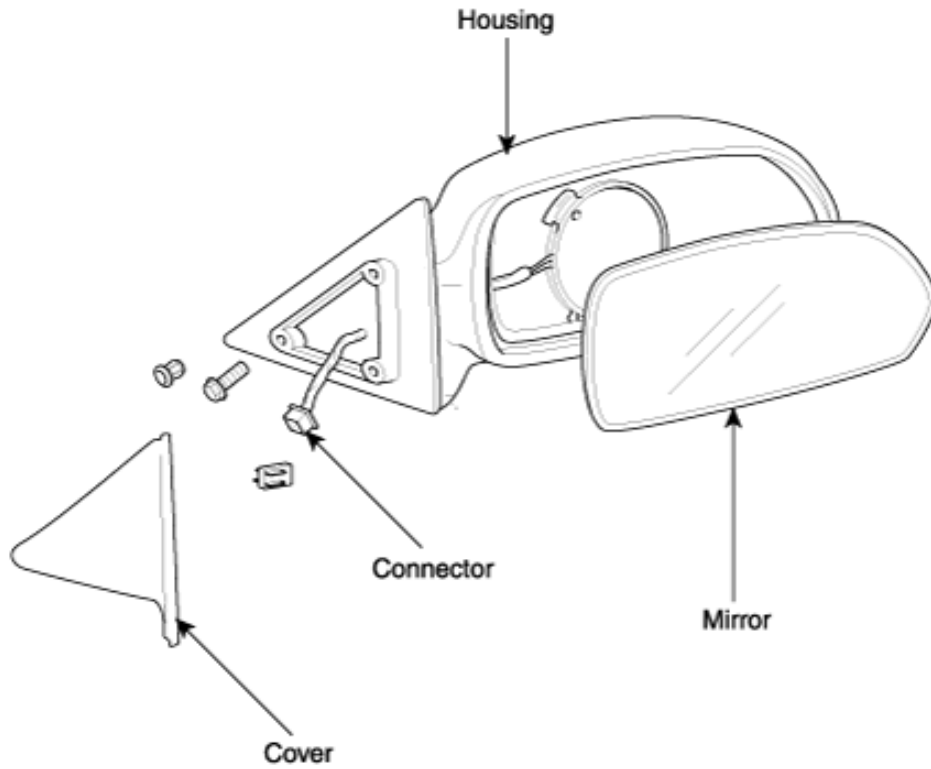
4. Installation is the reverse of removal.

#### NOTE

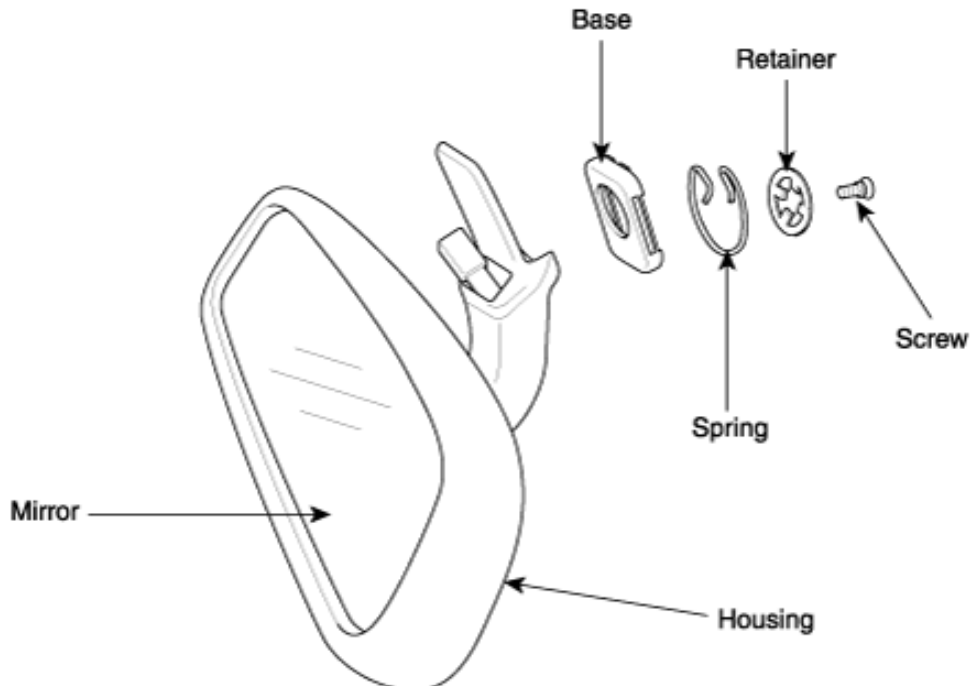
- Take care not to damage, wrinkle or twist the carpet.
- Make sure the seat harness is routed correctly.
- Replace any damaged clips.

# COMPONENTS

## Outside rearview mirror



## Inside rearview mirror



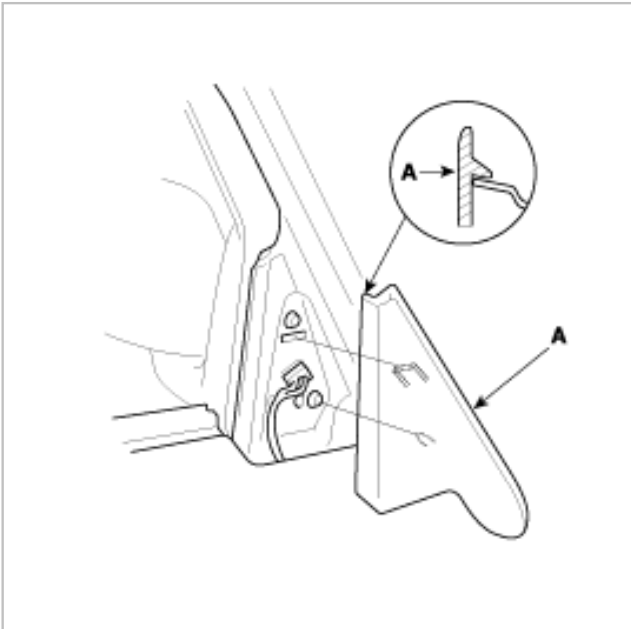
## REPLACEMENT

### OUTSIDE REARVIEW MIRROR REPLACEMENT

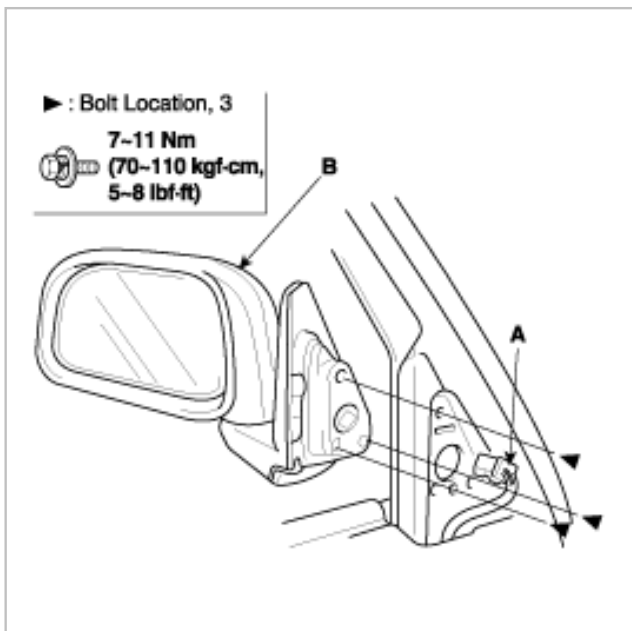
#### NOTE

Take care not to scratch the mirror and door.

1. Lower the door glass fully.
2. Carefully pry out the mirror cover (A) by hand.



3. Disconnect the connector (A), then remove the mirror mounting bolts while supporting the mirror (B).





4. Installation is the reverse of removal.

Ebay User ID: reveleus1

**NOTE**

Make sure the connector is connected properly.

## INSIDE REARVIEW MIRROR REPLACEMENT

**CAUTION**

When prying with a flat-tip screwdriver, wrap it with a shop towel to prevent damage.

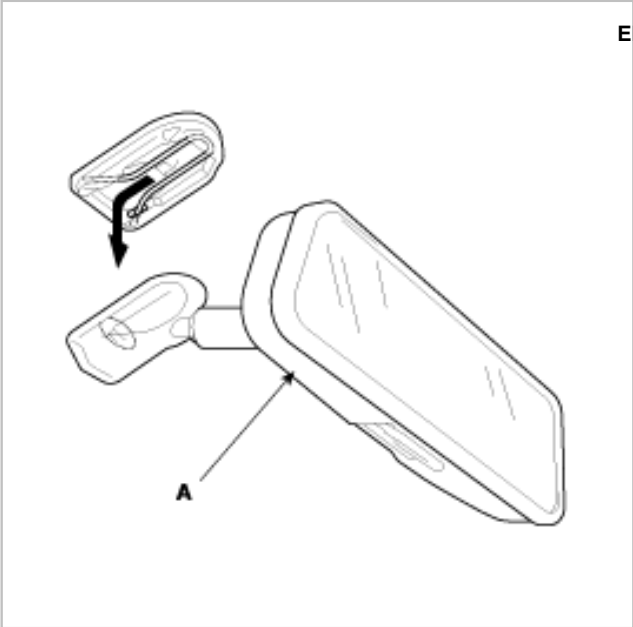
**NOTE**

Take care not to scratch the cover or tear the headliner.

1. Remove the cover using the end of a flat-tip screwdriver, and disconnect the connector (A) (If electronic mirror is installed).



2. Remove the rearview mirror (A).



3. Installation is the reverse of removal.

## REMOVAL AND INSTALLATION

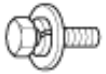
### NOTE

- When removing and installing the rear bumper, an assistant is necessary.
- Take care not to damage the front bumper and body.
- Put on gloves to protect your hands.

1. Remove the following items:
  - A. Rear transverse trim (see page BD- 5).
  - B. Luggage side trim mounting clip (see page BD- 5).
  - C. Rear combination lamp (A).
2. Remove the rear bumper cover (B) and rail (C).
3. Installation is the reverse of removal.

### Fastener Locations

**D** ▶ : Bolt, 2



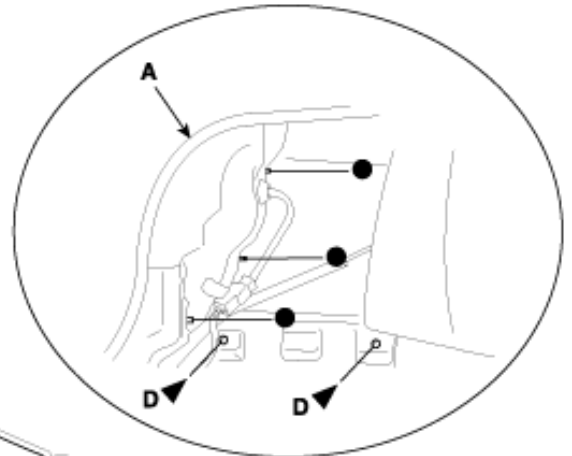
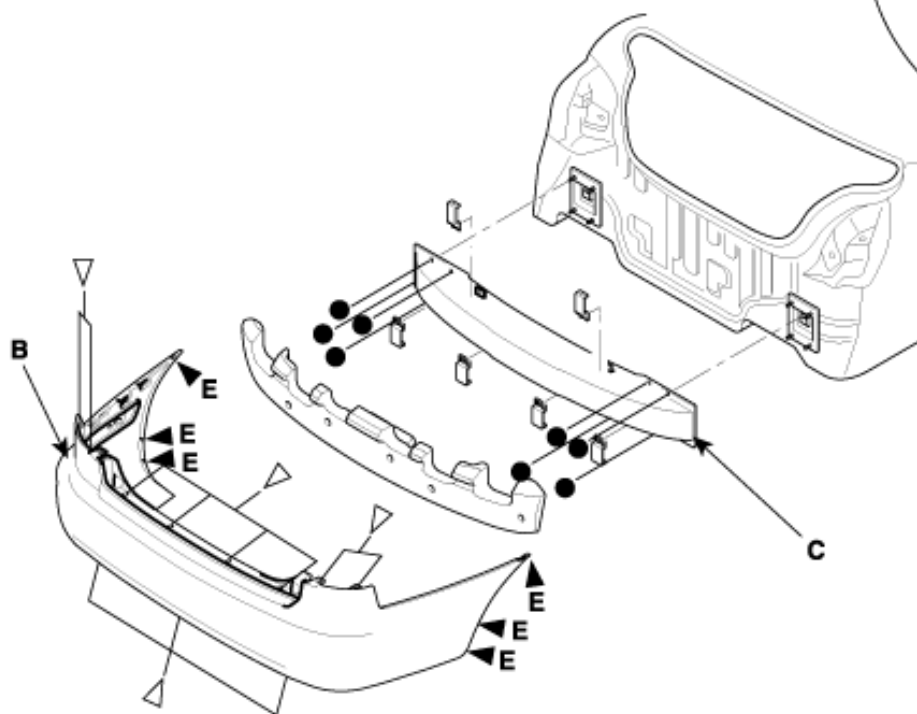
**E** ▶ : Screw, 6



▶ : Clip, 11

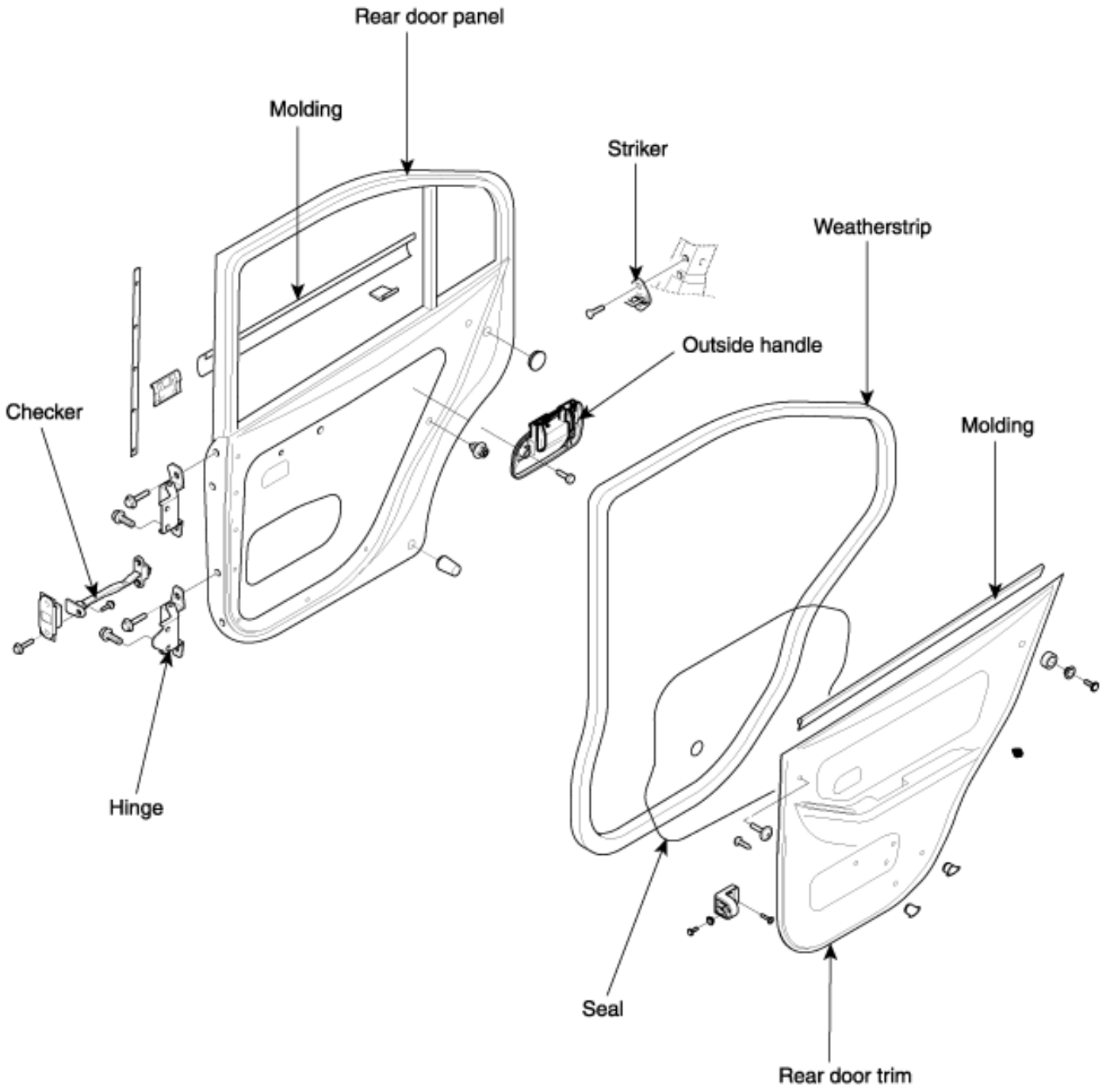


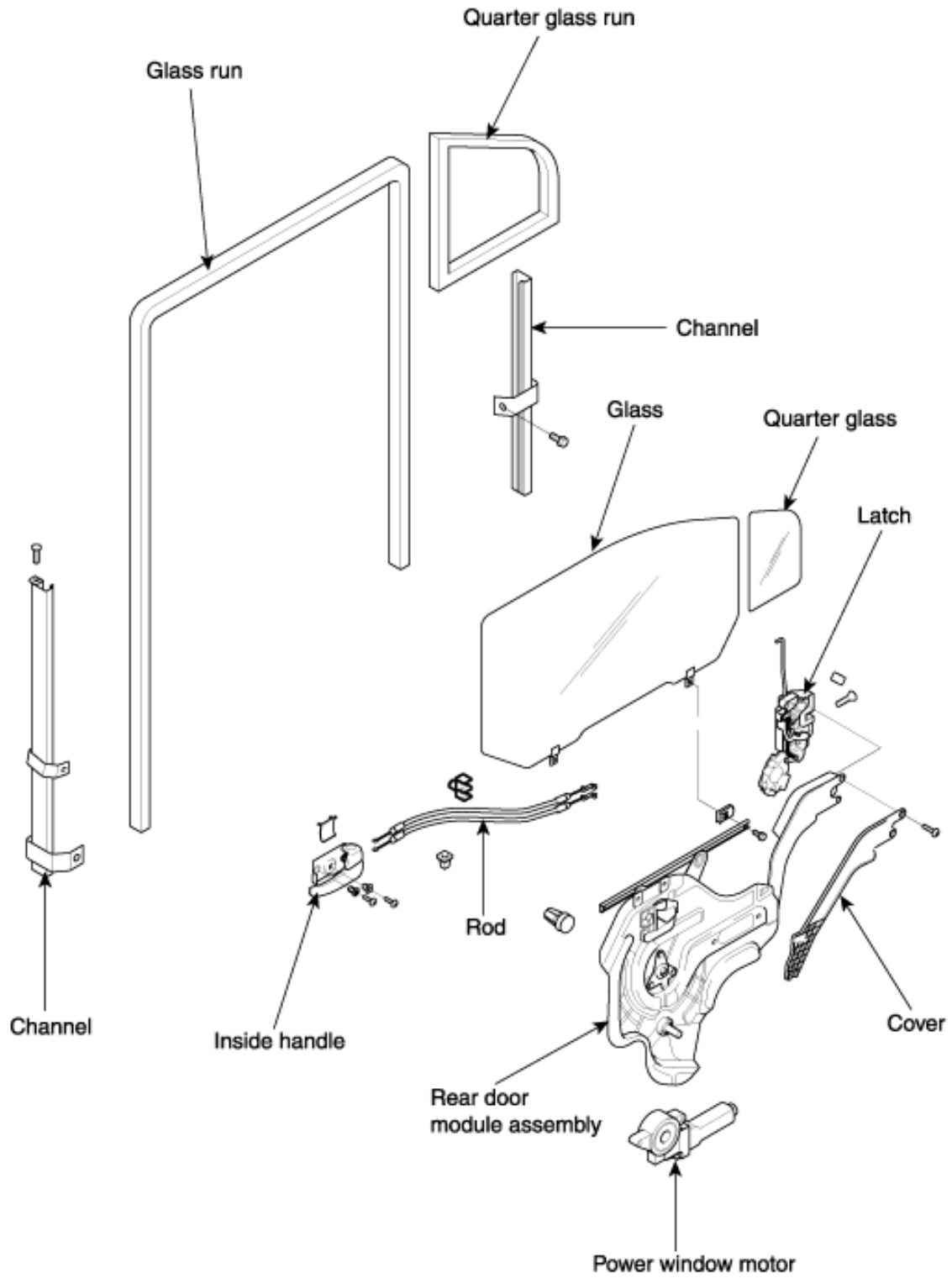
● : Nut, 11





# COMPONENTS





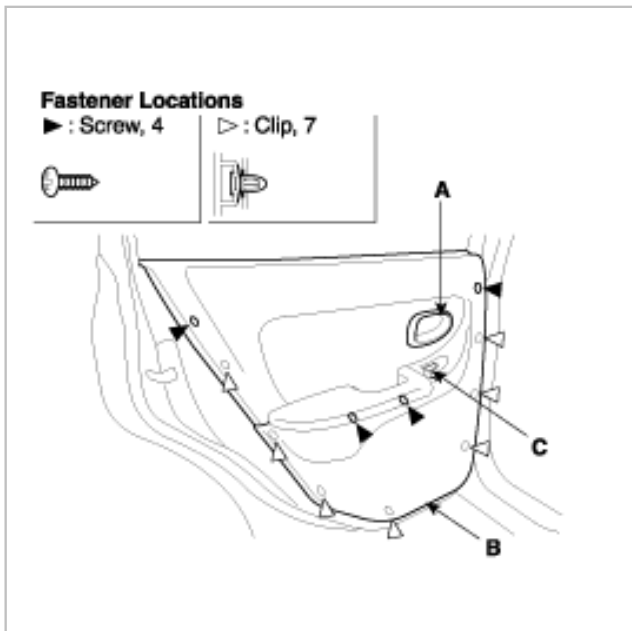
## REMOVAL AND INSTALLATION

### REMOVE REAR DOOR TRIM.

#### NOTE

- Take care not to scratch the door trim and other parts.
- Put on gloves to protect your hands.

1. Remove the inside handle cover (A).
2. Loosen the door trim (B) mounting screws. Release the clips that hold the door trim, then remove the door trim by pulling it upward. Disconnect the power window switch connector (C).



3. Remove the door trim seal.
4. Installation is the reverse of removal, make sure the connectors and courtesy light bulb socket are plugged in properly.

## REPLACEMENT

### GLASS AND QUARTER GLASS REPLACEMENT

#### NOTE

Put in gloves to protect your hands.

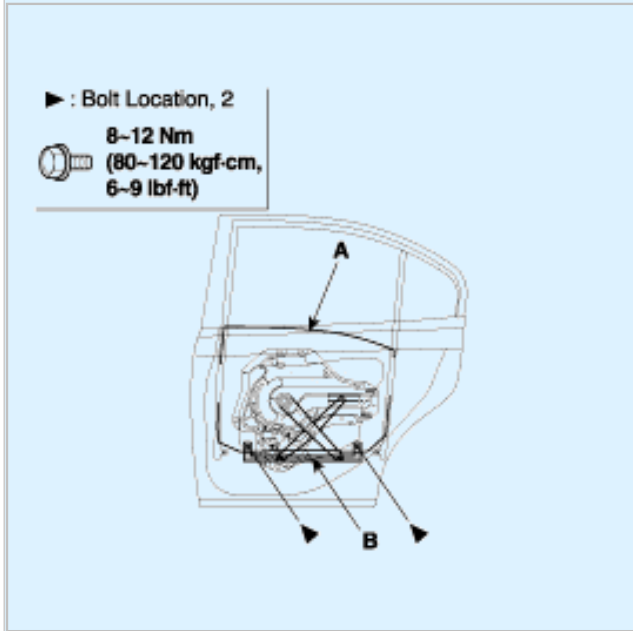
1. Remove the door trim (see page BD- 33).

2. Carefully move the glass (A) until you can see the bolts, then loosen them. Carefully pull the glass out through the window slot (B).

Ebay User ID: reveleus1

### CAUTION

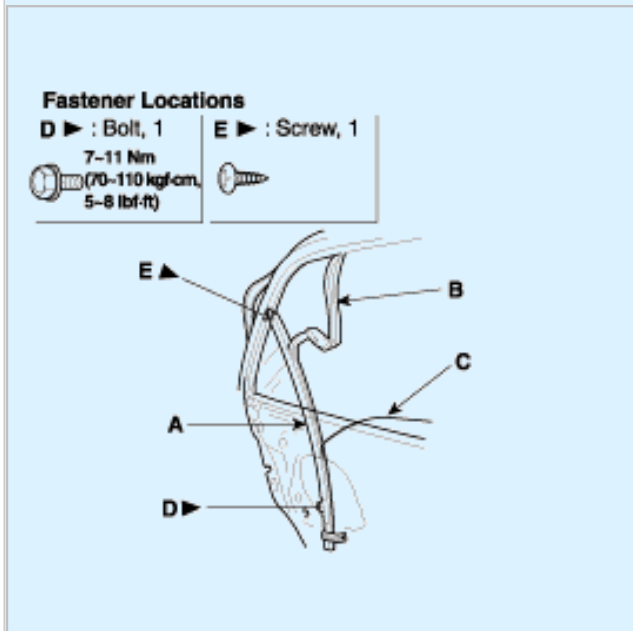
Take care not to drop the glass and scratch the glass surface.



3. Remove the bolts and screw from the rear channel (A), then pull the glass run (B) away as needed from the rear channel.
4. Carefully remove the glass (C) out through the window slot.

### CAUTION

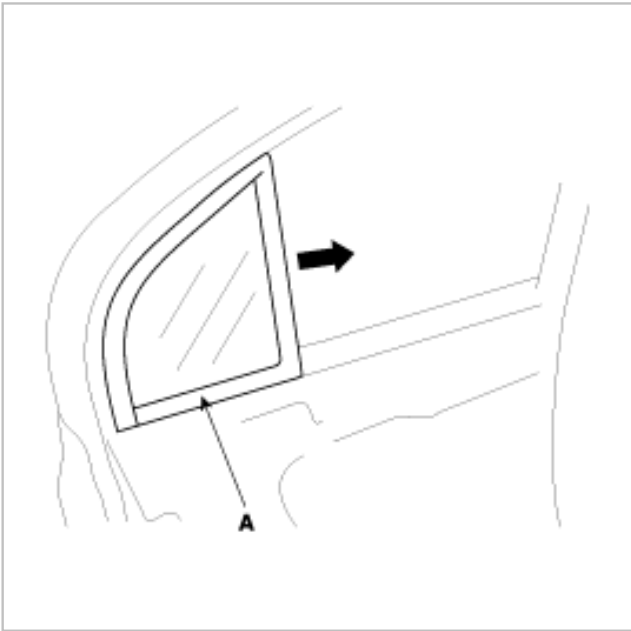
Take care not to drop the glass and scratch the glass surface.





5. Remove the quarter glass (A).

Ebay User ID: reveleus1



6. Installation is the reverse of removal.

A. Roll the glass up and down to see if it moves freely without binding.

B. Make sure that there is no clearance between the glass and glass run channel when the glass is closed.

C. Adjust the position of the glass as necessary (see page BD- 36).

## REAR DOOR MODULE REPLACEMENT

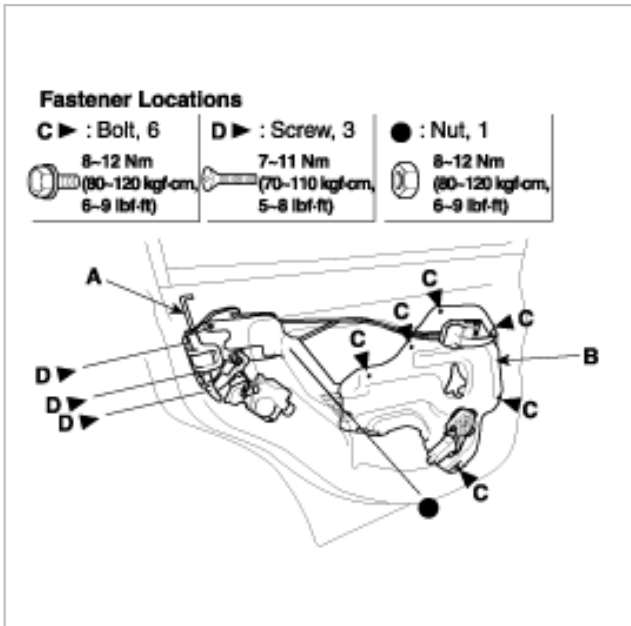
1. Remove the door trim (see page BD- ).

2. Remove the glass (see page BD- ).

3. Disconnect the power window motor connector. Detach the harness clip.

4. Disconnect the outside handle rod (A).

5. Remove the door module assembly (B).



6. Installation is the reverse of removal.

A. Adjust the position of the glass as necessary (see page BD- ).

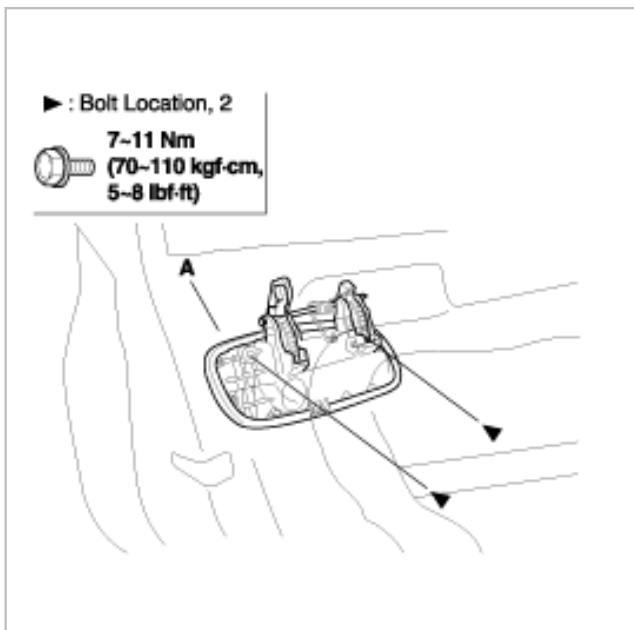
# OUTSIDE HANDLE REPLACEMENT

Ebay User ID: reveleus1

## NOTE

Put on gloves to protect your hands.

1. Remove the door trim (see page BD- 33).
2. Remove the glass (see page BD- 33).
3. Remove the rear door module (see page BD- 35).
4. Remove the outside handle (A).



5. Installation is the reverse of removal.
  - A. Make sure the key cylinder switch harness is routed properly.
  - B. Make sure the connector is plugged in properly, and each rod is connected securely.
  - C. Make sure the door locks and opens properly.

## ADJUSTMENT

### GLASS ADJUSTMENT

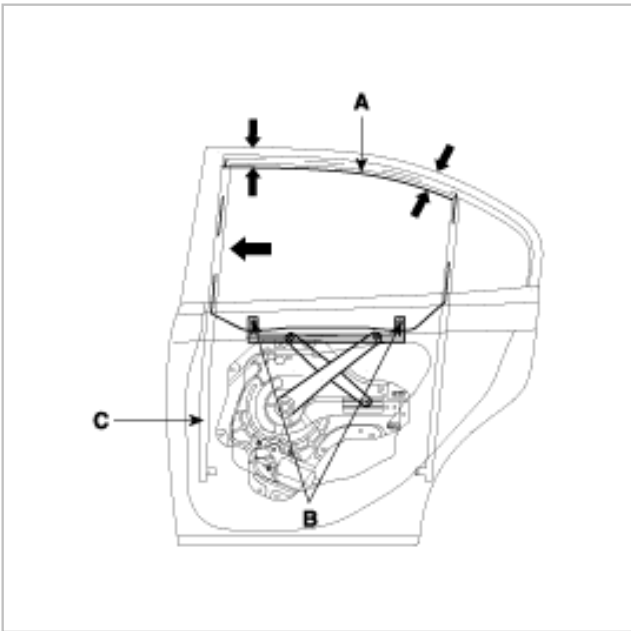
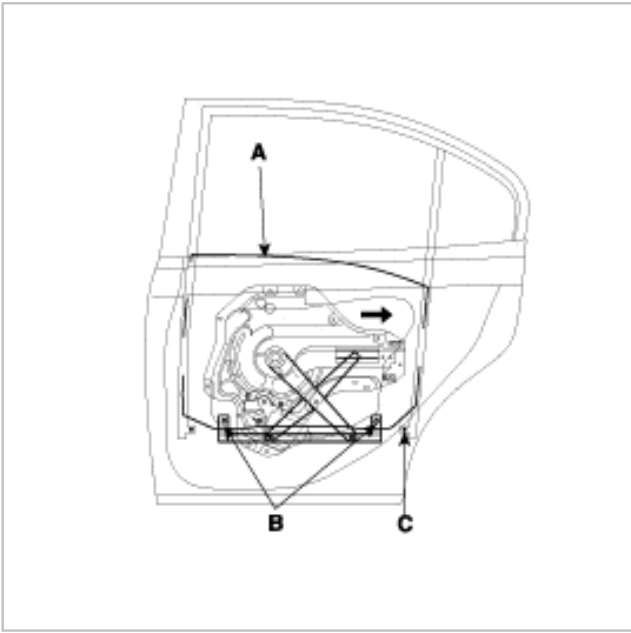
## NOTE

Check the weatherstrips and glass run channel for damage or deterioration, and replace them if necessary.

1. Remove the door trim (see page BD- 33).

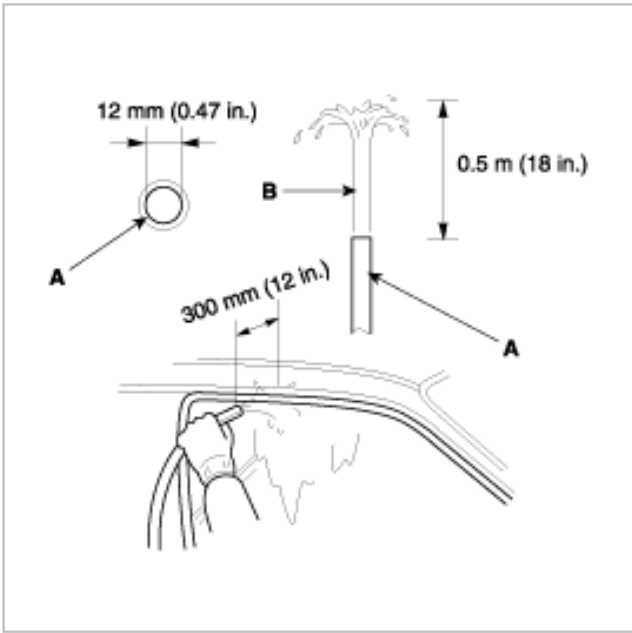
2. Carefully move the glass (A) until you can see the glass mounting bolts (B), then loosen them.

Buyer ID: reverus1



3. Push the glass (A) against the center channel (B), then tighten the glass mounting bolts (C).
4. Check that the glass moves smoothly.
5. Raise the glass fully, and check for gaps. Check that the glass contacts the glass run channel evenly.
6. Check for water. Run water over the roof and on the sealing area as shown, and note these items:
  - A. Use a 12mm (1/2in.) diameter hose (A).
  - B. Adjust the rate of water flow as shown (B).
  - C. Do not use a nozzle.

D. Hold the hose about 300mm(12in.) away from the door (C).  
Ebay User ID: revereus1



## DOOR POSITION AND STRIKER ADJUSTMENT

Adjust the door position and striker (see page BD- 29 ).

## REMOVAL AND INSTALLATION

1. Remove the rear seat.

### NOTE

Take care not to scratch the body or tear the seat covers.

2. Installation is the reverse of removal.

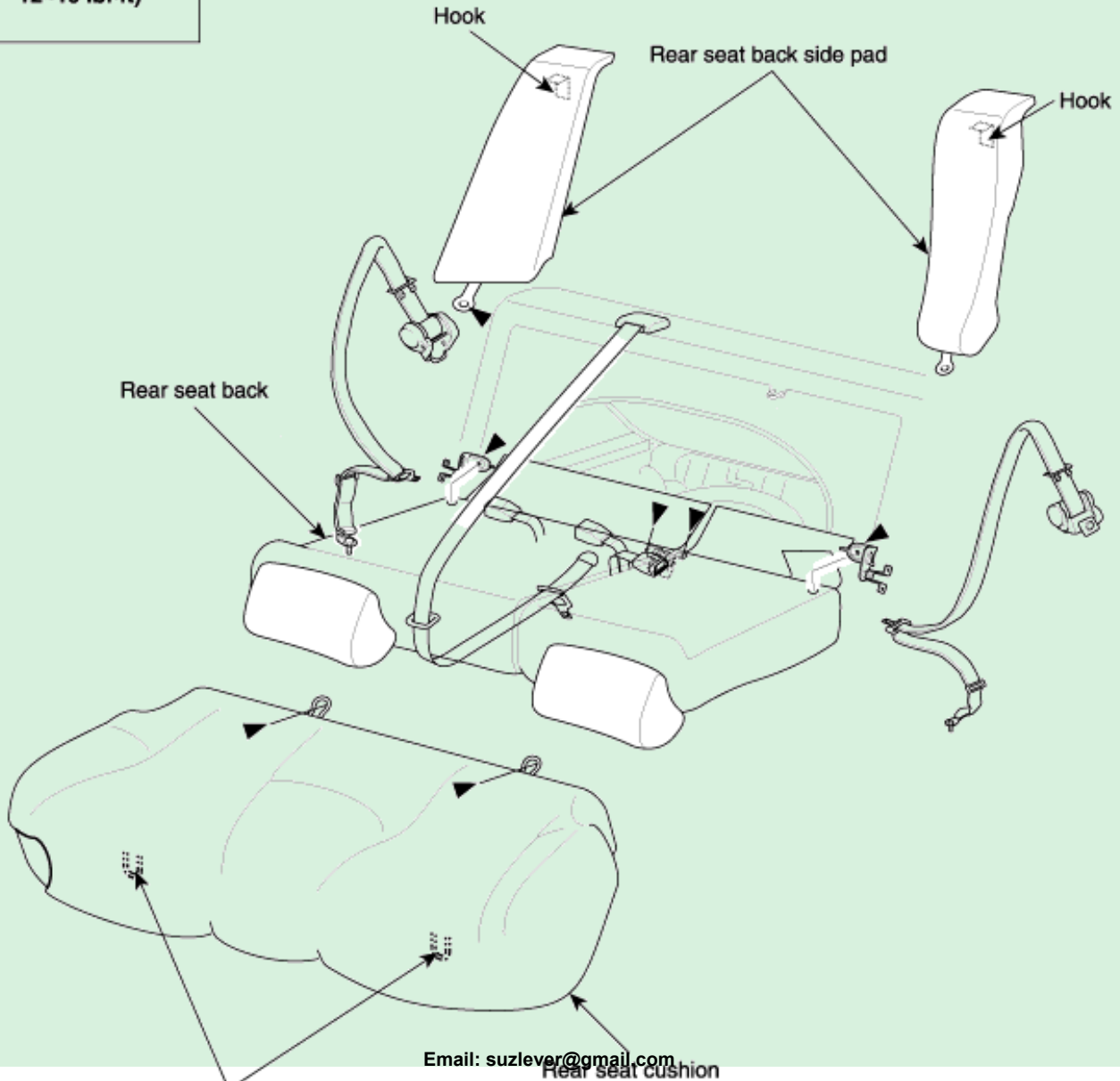
### NOTE

- Before attaching the rear seat-back and cushion, make sure there are no twists or kinks in the rear seat belts and center belt.
- When installing the seat cushion, slip the seat belt buckles through the slits in the seat cushion.
- Make sure the seat-back locks securely.

▶ : Bolt



17~26 Nm  
(170~260 kgf-cm,  
12~19 lbf-ft)



## REPLACEMENT

### REAR SEAT-BACK LATCH REPLACEMENT

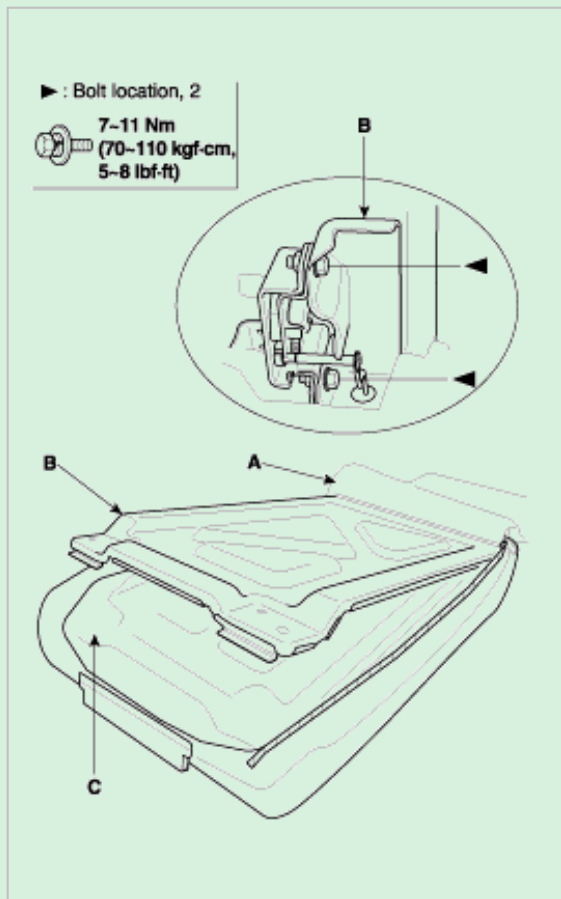
#### NOTE

- When prying with a flat-tip screwdriver, wrap it with protective tape to prevent damage.
- Take care not to bend or scratch the interior trim.

1. Remove these items:
  - A. Seat side bolster, both sides (see page BD- 89).
2. Keep the cover (A) open, then disconnect the frame (B) from the cushion (C).
3. Remove the bolts, then remove the seat-back latch (D).
4. Installation is the reverse of removal.

#### NOTE

- Make sure seat-back locks securely and opens properly.



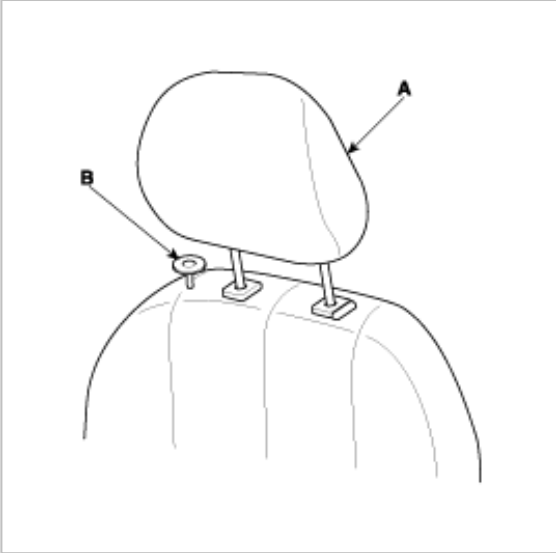
### REAR SEAT BACK COVER REPLACEMENT

#### NOTE

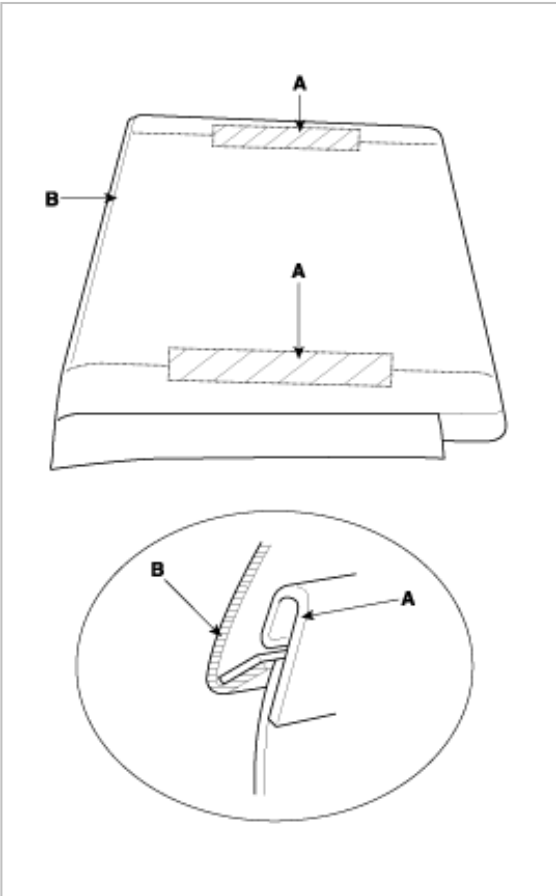
- Take care not to tear the seams or damage the seat covers.
- Put on gloves to protect your hands.

1. Remove the rear seat back (see page BD- 89).
2. Remove the headrest (A) and rear seat lock knob (B).

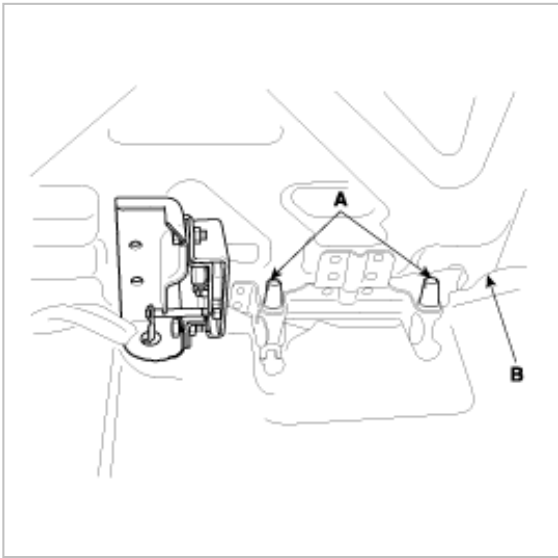
Ebay User ID: reveleus1



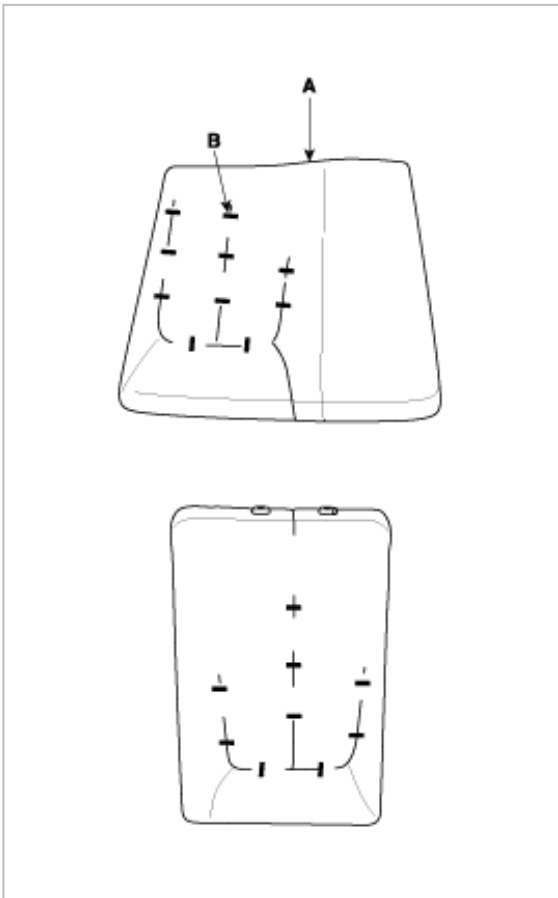
3. Release the hook strip (A) and fold back the seat back cover (B).



4. Disconnect the headrest guide (A), after raising the rear seat back frame (B).  
Ebay User ID: reveleus1



5. Pull back the edge of the seat-back cover (A) all the way around, and release the clips (B), then remove the seat-back cover.



6. Installation is the reverse of removal.

#### NOTE

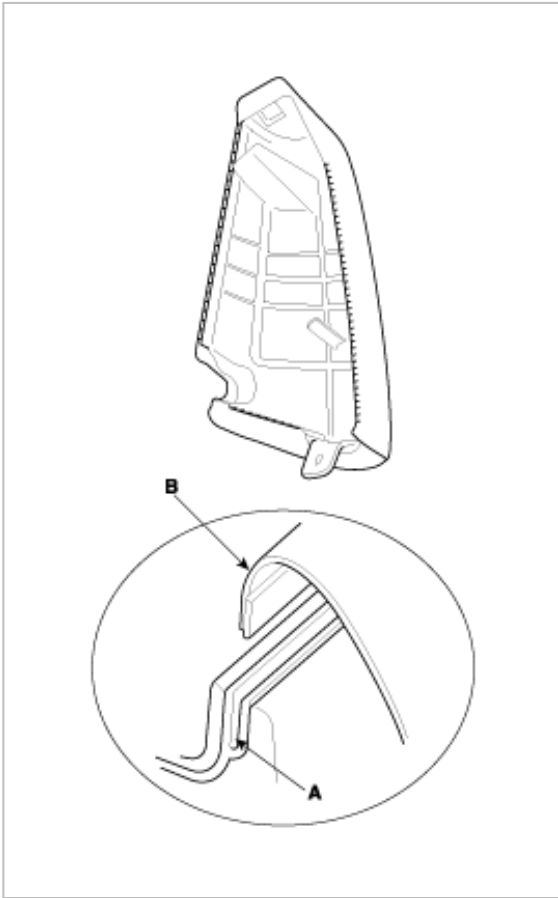
- To prevent wrinkles when installing a seat-back cover, make sure the material is stretched evenly over the pad before securing the fasteners, hooks and clips.
- Replace the released clips with new ones.

### REAR SEAT BACK SIDE PAD COVER REPLACEMENT

1. Remove the seat side bolster (see page BD- 89).



2. Release all the hook strips (A), fold back the seat side bolster cover (B), and remove it.  
Ebay User ID: reveleus1

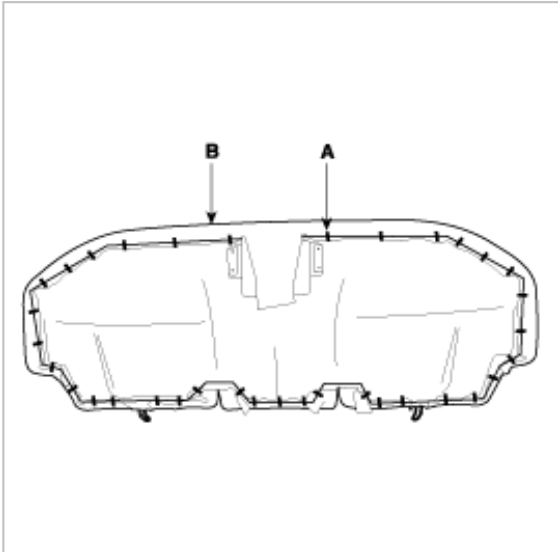


3. Installation is the reverse of removal.

To prevent wrinkles, make sure the material is stretched evenly over the pad before securing the hook strips.

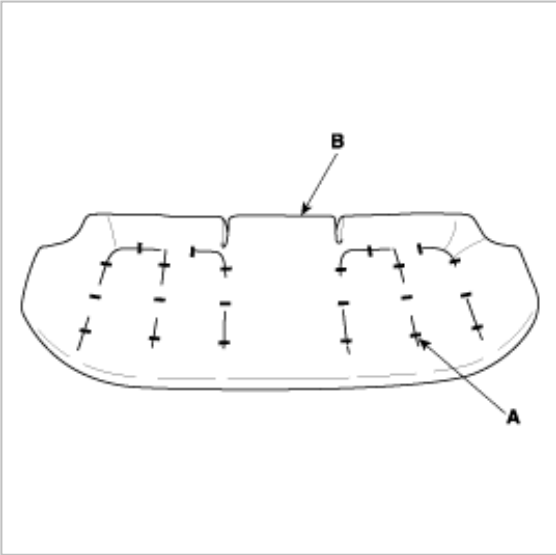
## REAR SEAT CUSHION COVER REPLACEMENT

1. Remove the seat cushion (see page BD- 89).
2. Release all the clips (A) from under the seat cushion, and fold back the seat cushion cover (B).



3. Pull back the edge of the seat cushion cover all the way around, and release the clips (A), then remove the seat cushion cover. On a leather seat cover (B), there are no fasteners.

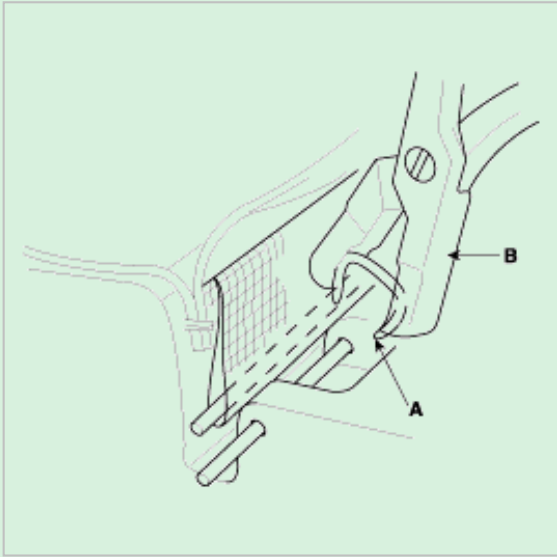
Ebay User ID: reveleus1



4. Installation is reverse of removal.

#### NOTE

- To prevent wrinkles, make sure the material is stretched evenly over the pad before securing the fasteners and clips.
- Replace the clips with new ones using commercially available upholstery ring pliers (B).

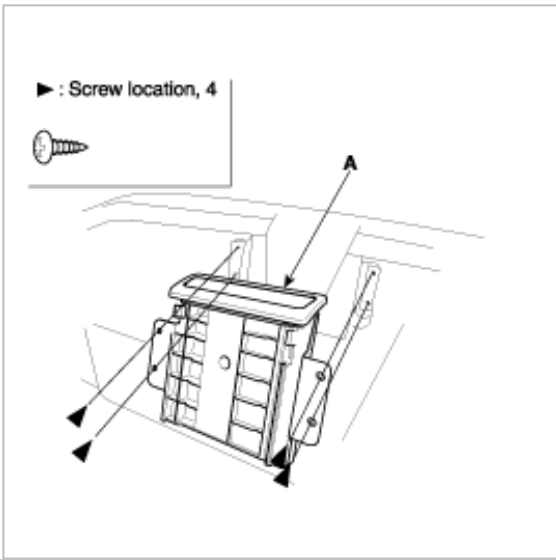


## REAR CUP HOLDER REPLACEMENT

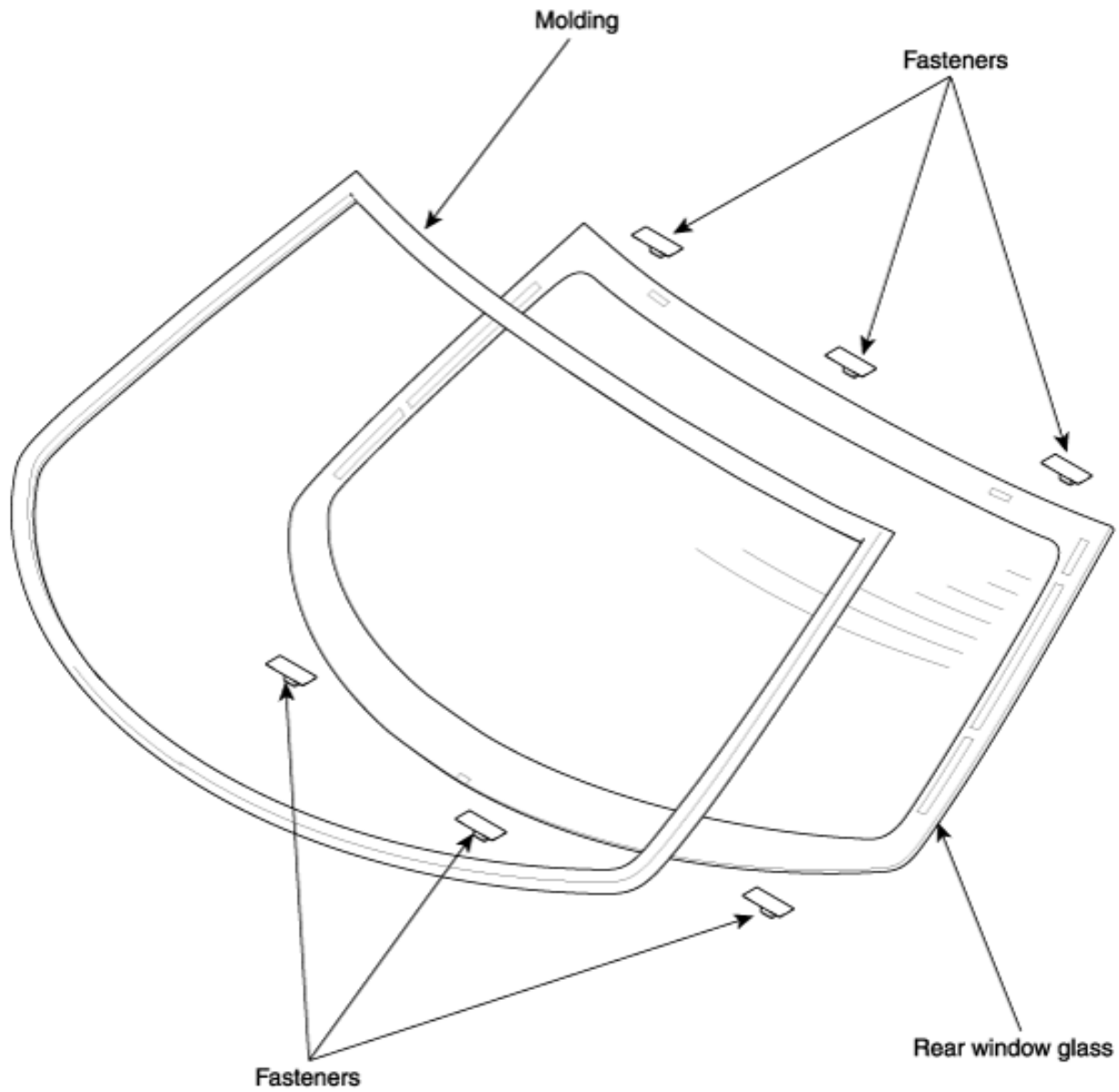
1. Remove the rear seat cushion (see page BD- 89).

2. Remove the cup holder (A).

Ebay User ID: reveleus1



# COMPONENTS



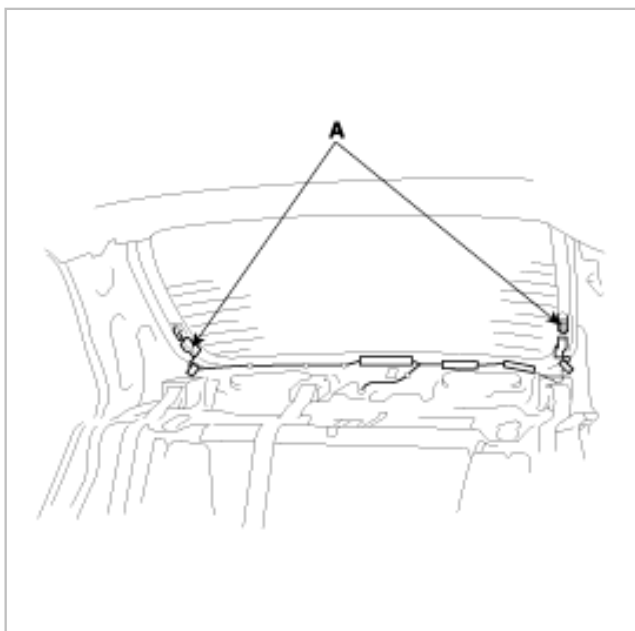
## REPLACEMENT

### REMOVAL

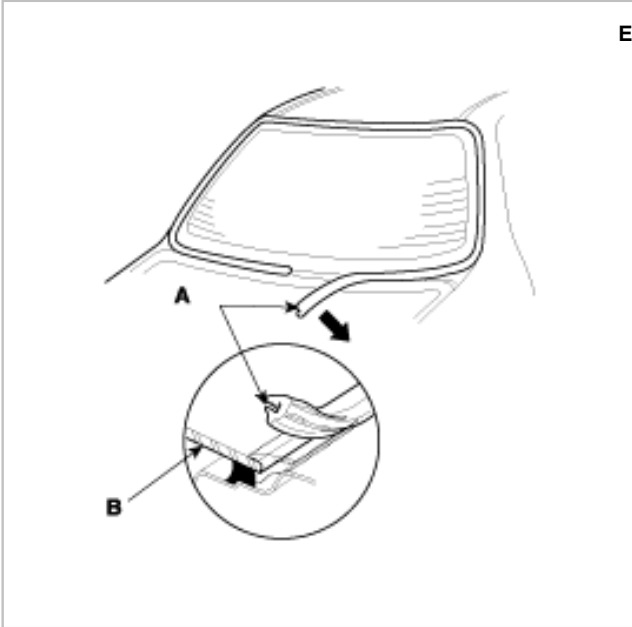
#### NOTE

- Put on gloves to protect your hands.
- Use seat covers to avoid damaging any surfaces.
- Do not damage the rear window defogger grid lines, window antenna grid lines, and terminals.

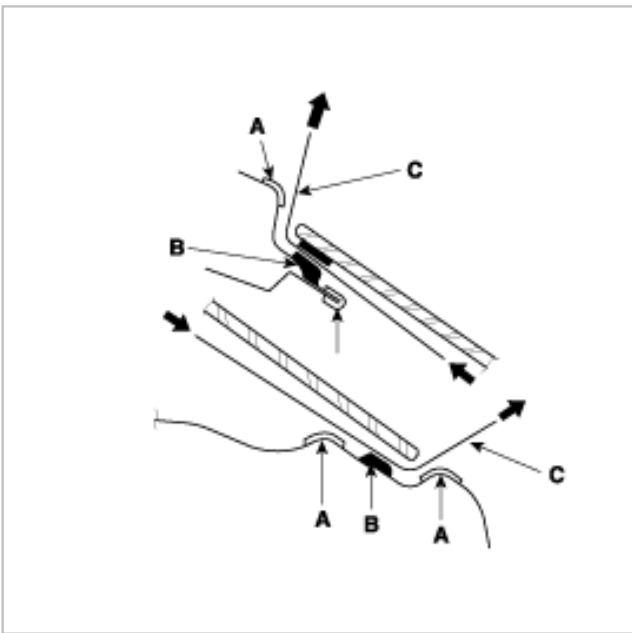
1. Remove the trunk lid (see page BD- 13).
2. Remove the following items:
  - A. Rear seat assembly (see page BD- 89).
  - B. Rear pillar trim both side (see page BD- 63).
  - C. Center anchor bolt of the center belt (see page BD- 100).
  - D. Rear package tray trim (see page BD- 64).
  - E. Rear seat belt lower anchor bolt (see page BD- 99).
3. Disconnect the rear window defogger connectors (A).



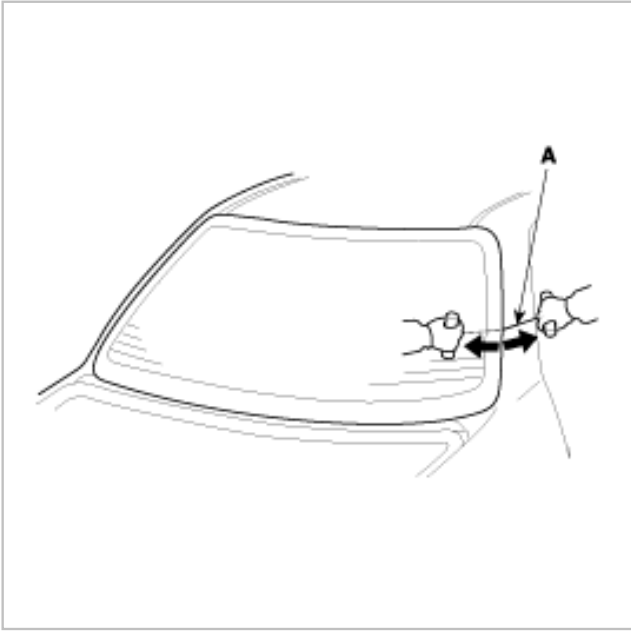
4. Remove the molding (A) from the edge of the rear window (B). If necessary, cut the molding with a utility knife.



5. Pull down the rear portion of the headliner (see page BD- ). Take care not to bend the headliner excessively, or you may crease or break it.
6. Apply protective tape (A) along the inside and outside edges of the body as shown. Using an awl, make a hole through the adhesive (B) from inside the vehicle. Push a piece of piano wire (C) through the hole, and wrap each end around a piece of wood.



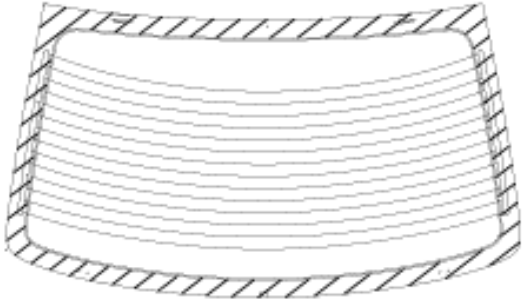
7. With a helper on the outside, pull the piano wire (A) back and forth in a sawing motion. Hold the piano wire as close to the rear window as possible to prevent damage to the body, and carefully cut through the adhesive around the entire rear window.



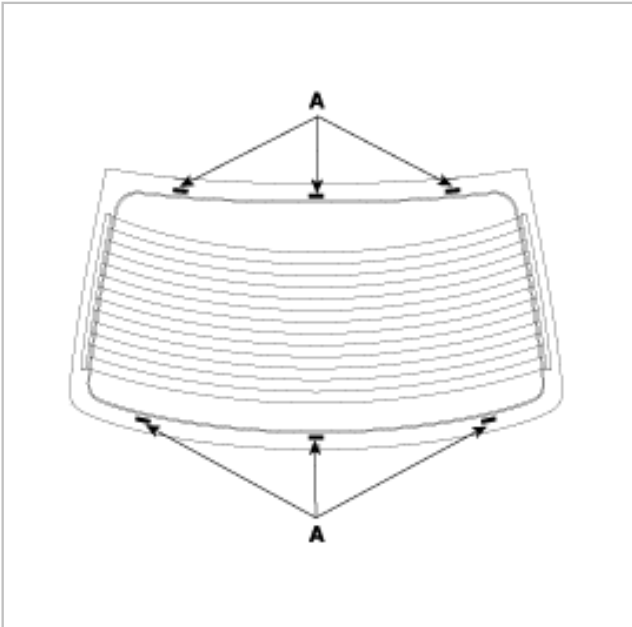
8. Carefully remove the rear window.

## INSTALLATION

1. With a putt knife, scrape the old adhesive smooth to a thickness of about 2mm (0.08 in.) on the bonding surface around the entire rear window opening flange.
  - A. Do not scrape down to the painted surface of the body; damaged paint will interfere with proper bonding.
  - B. Mask off surrounding surfaces before painting.
  - C. Remove the fasteners from the body.
2. Clean the body bonding surface with a sponge dampened in alcohol. After cleaning, keep oil, grease and water from getting on the surface.
3. If the old rear window is to be reinstalled, use a putty knife to scrape off all of the old adhesive, then clean the shaded portion of the rear window with alcohol where new adhesive is to be applied. Make sure the bonding surface is kept free of water, oil and grease.

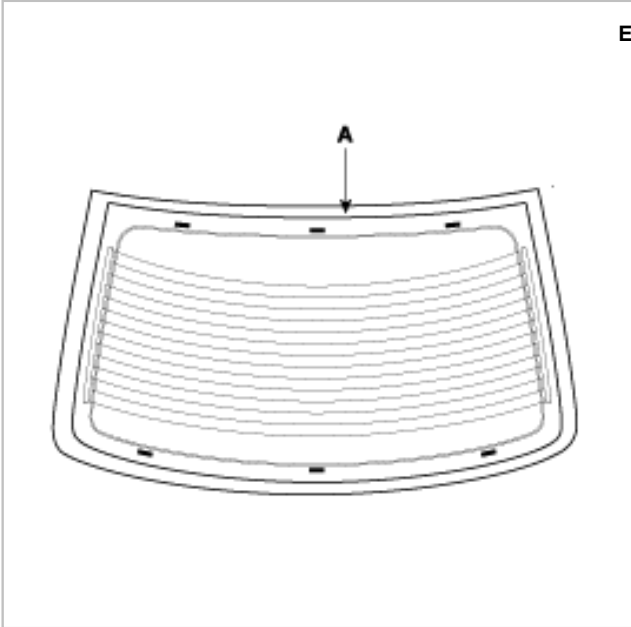


4. Glue the fasteners (A) to the inside face of the rear window as shown.

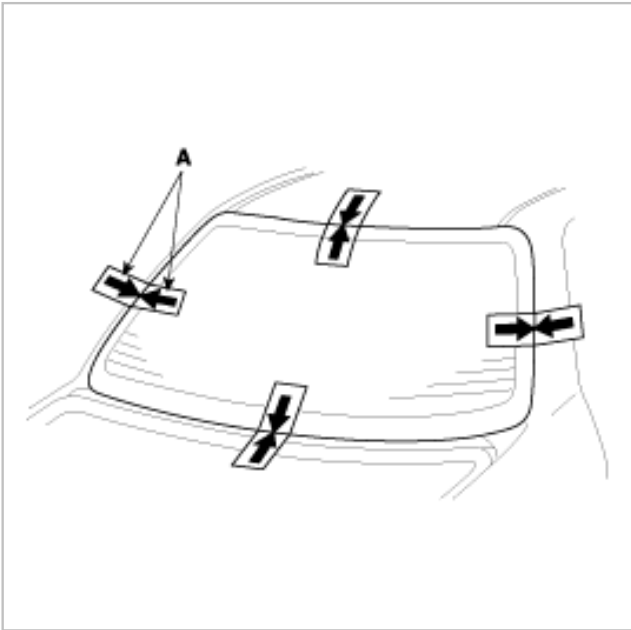


5. Install the rear window glass molding (A). Do not allow any gaps.





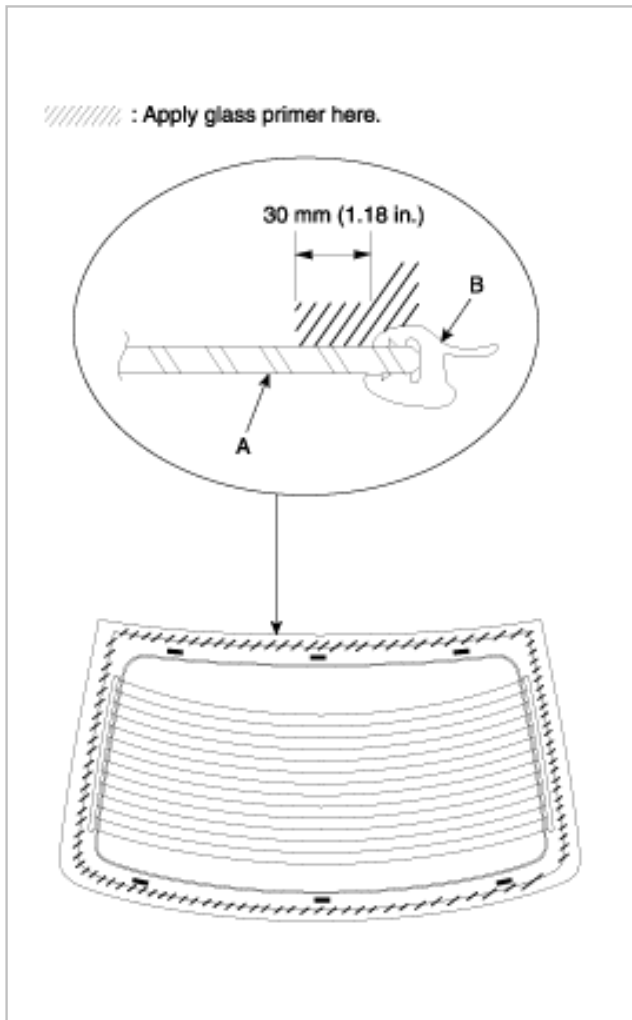
6. Set the rear window in the opening, and center it. Make alignment marks (A) cross the rear window and body with a grease pencil at the four points shown. Be careful not to touch the rear window where adhesive will be applied.



7. Remove the rear window.
8. With a sponge, apply a light coat of glass primer along the edge of the rear window (A) and molding (B) as shown, then lightly wipe it off with gauze or cheesecloth:
- A. Do not apply body primer to the rear window, and do not get body and glass primer sponges mixed up.
  - B. Never touch the primed surfaces with your hands. If you do, the adhesive may not bond to the rear window properly, causing a leak after the rear window is installed.

C. Keep water, dust, and abrasive materials away from the primed surface.

Ebay User ID: reverest

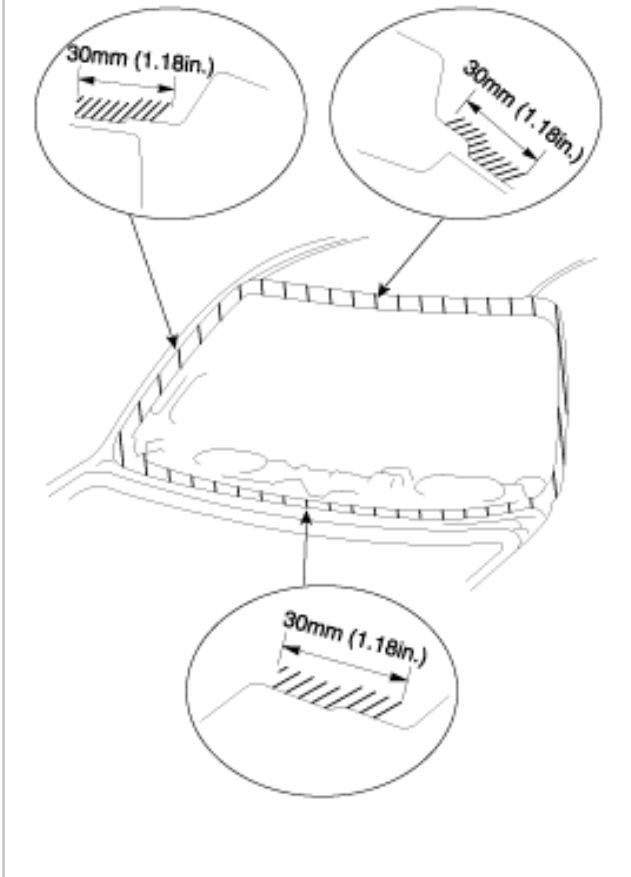


9. With a sponge, apply a light coat of body primer to the original adhesive remaining around the rear window opening flange. Let the body primer dry for at least 10 minutes.

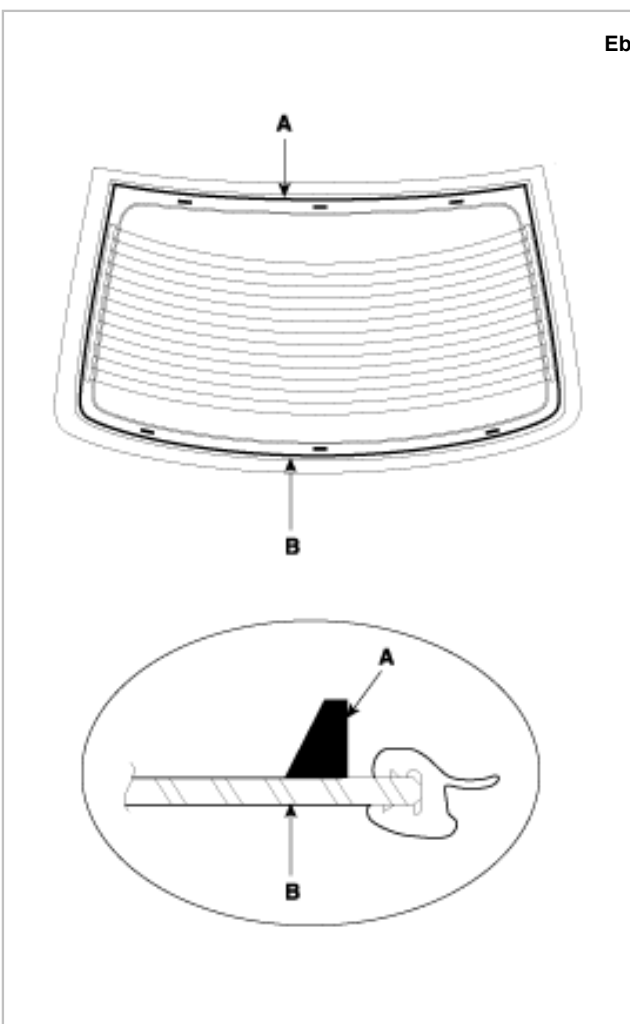
A. Do not apply glass primer to the body, and be careful not to mix up glass and body primer sponges.

B. Never touch the primed surfaces with your hands.

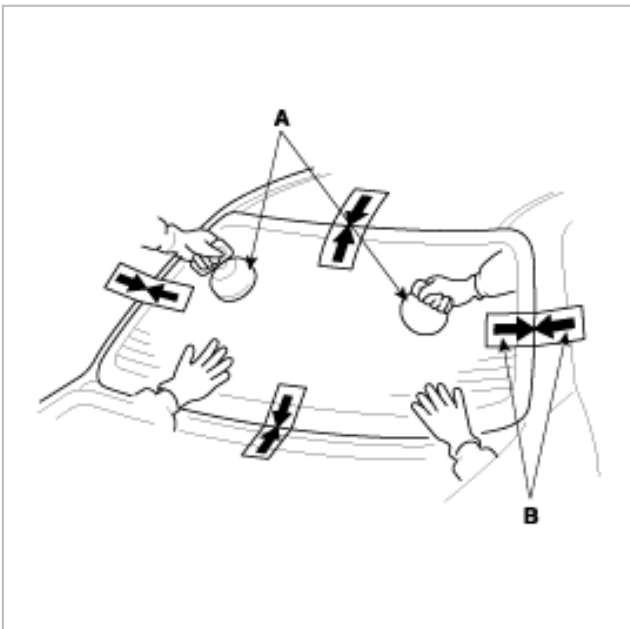
//// : Apply body primer here.



10. Pack adhesive into the cartridge without air pockets to ensure continuous delivery. Put the cartridge in a caulking gun, and run a bead of adhesive (A) around the edge of the rear window (B) as shown. Apply the adhesive within 30 minutes after applying the glass primer. Make a slightly thicker bead at each corner.




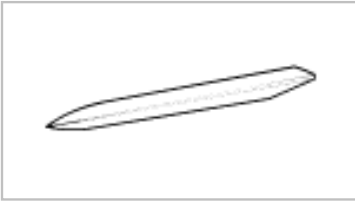
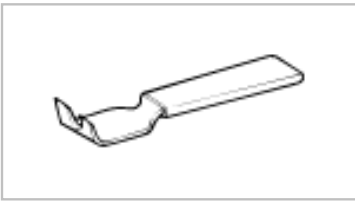
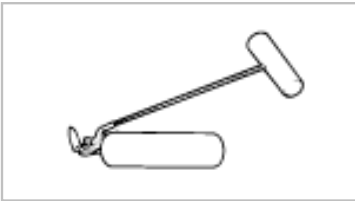
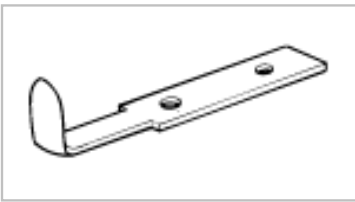
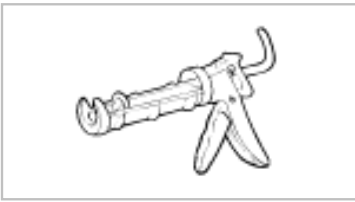

11. Use suction cups (A) to hold the rear window over the opening, align it with the alignment marks (B) you made in step 19, and set it down on the adhesive. Lightly push on the rear window until its edges are fully seated on the adhesive all the way around. Do not open or close the doors until the adhesive is dry.



12. Scrape or wipe the excess adhesive off with a putty knife or towel. To remove adhesive from a painted surface or the rear window, use a soft shop towel dampened with alcohol.

13. Let the adhesive dry for at least one hour, then spray water over the rear window and check for leaks. Mark the leaking areas, let the rear window dry, then seal with sealant. Let the vehicle stand for at least four hours after rear window installation. If the vehicle has to be used within the first four hours, it must be driven slowly.
14. Reinstall all remaining removed parts. Advise the customer not to do the following things for two to three days:
- A. Slam the door with all the windows rolled up.
  - B. Twist the body excessively (such as when going in and out of driveways at an angle or driving over rough, uneven roads.).

## SPECIAL TOOLS

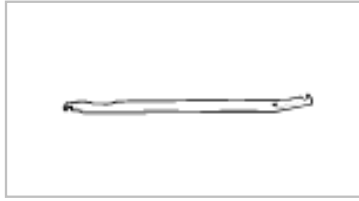
Tool (Number and name)	Illustration	Use
09793-21000 Door hinge adjusting wrench		Adjustment, removal and installation of the door hinge
09800-21000 Ornament remover		Trim removal
09853-31000 Headliner clip remover		Removal of the headliner clips
09861-31100 Sealant cut-out tool		Cutting the sealant of the windshield (use with 09861-31200)
09861-31200 Sealant cutting blade		Cutting the sealant of the windshield (use with 09861-31100)
09861-31300 Sealant gun		Application of the sealant to the windshield
09861-31400 Glass holder		Removal and installation of the windshield

09861-31000  
Windshield moulding remover



Removal of the windshield moulding

09861-22000  
Torsion bar wrench



Removal and installation of the  
torsion bar in the luggage  
compartment



## SPECIFICATIONS

<b>HOOD</b> <ul style="list-style-type: none"> <li>•Type</li> </ul>	Rear hinged, front opening type
<b>FRONT DOOR</b> <ul style="list-style-type: none"> <li>•Construction</li> <li>•Regulator system</li> <li>•Locking system</li> </ul>	Front hinged, full door construction X-arm type Pin-fork system
<b>REAR DOOR</b> <ul style="list-style-type: none"> <li>•Construction</li> <li>•Regulator system</li> <li>•Locking system</li> </ul>	Front hinged, full door construction X-arm type Pin-fork system
<b>TRUNK LID (4 doors)</b> <ul style="list-style-type: none"> <li>•Type</li> </ul>	Torsion bar type
<b>GLASS THICKNESS mm (in.)</b> <ul style="list-style-type: none"> <li>•Windshield glass</li> <li>•Front window glass</li> <li>•Rear fixed glass</li> <li>•Rear window glass</li> </ul>	Laminated clear, tinted 5 (0.20) 3.2 (0.13) 3.2 (0.13) 3.2 (0.13)
<b>SEAT BELTS</b> <ul style="list-style-type: none"> <li>•Type</li> </ul>	3 point type with E.L.R (Emergency Locking Retractor).

## TIGHTENING TORQUE

Items	Nm	kgf-cm	lbf-ft
<b>Front and rear doors</b>			
•Door hinge to body	34 ~ 42	340 ~ 420	24.5 ~ 30
•Door hinge to door	13 ~ 26	130 ~ 260	10 ~ 19
•Glass mounting bolt	8 ~ 12	80 ~ 120	6 ~ 9
•Door latch mounting screw	7 ~ 11	70 ~ 110	5 ~ 8
•Outside handle mounting bolt	7 ~ 11	70 ~ 110	5 ~ 8
•Door striker mounting bolt	17 ~ 22	170 ~ 220	12 ~ 16
•Door checker to door	7 ~ 11	70 ~ 110	5 ~ 8



**Trunk lid**

Ebay User ID: reveleus1

- Trunk lid hinge to body
- Trunk lid hinge to trunk lid
- Trunk lid latch mounting bolt
- Trunk lid straker mounting bolt
- Key cylinder mounting nut

7 ~ 9

70 ~ 90

5 ~ 6.5

7 ~ 9

70 ~ 90

5 ~ 6.5

7 ~ 11

70 ~ 110

5 ~ 8

7 ~ 11

70 ~ 110

5 ~ 8

7 ~ 11

70 ~ 110

5 ~ 8

**Hood**

- Hood hinge to body
- Hood hinge to hood
- Hood latch to body

22 ~ 27

220 ~ 270

16 ~ 19.5

22 ~ 27

220 ~ 270

16 ~ 19.5

7 ~ 11

70 ~ 110

5 ~ 8.0

**Seat**

- Front seat to floor bolt
- Rear seat back tilting bracket
- Rear seat cushion mounting bolts

35 ~ 55

350 ~ 550

25.3 ~ 40

17 ~ 26

170 ~ 260

12 ~ 19

17 ~ 26

170 ~ 260

12 ~ 19

**Seat belt**

- Front seat belt buckle
- Front seat belt upper anchor
- Front seat belt retractor to center pillar
- Front seat belt height adjuster
- Rear seat belt anchor attaching bolt
- Rear seat belt retractor mounting bolt

40 ~ 55

400 ~ 550

29 ~ 40

40 ~ 55

400 ~ 550

29 ~ 40

40 ~ 55

400 ~ 550

29 ~ 40

40 ~ 55

400 ~ 550

29 ~ 40

40 ~ 55

400 ~ 550

29 ~ 40

40 ~ 55

400 ~ 550

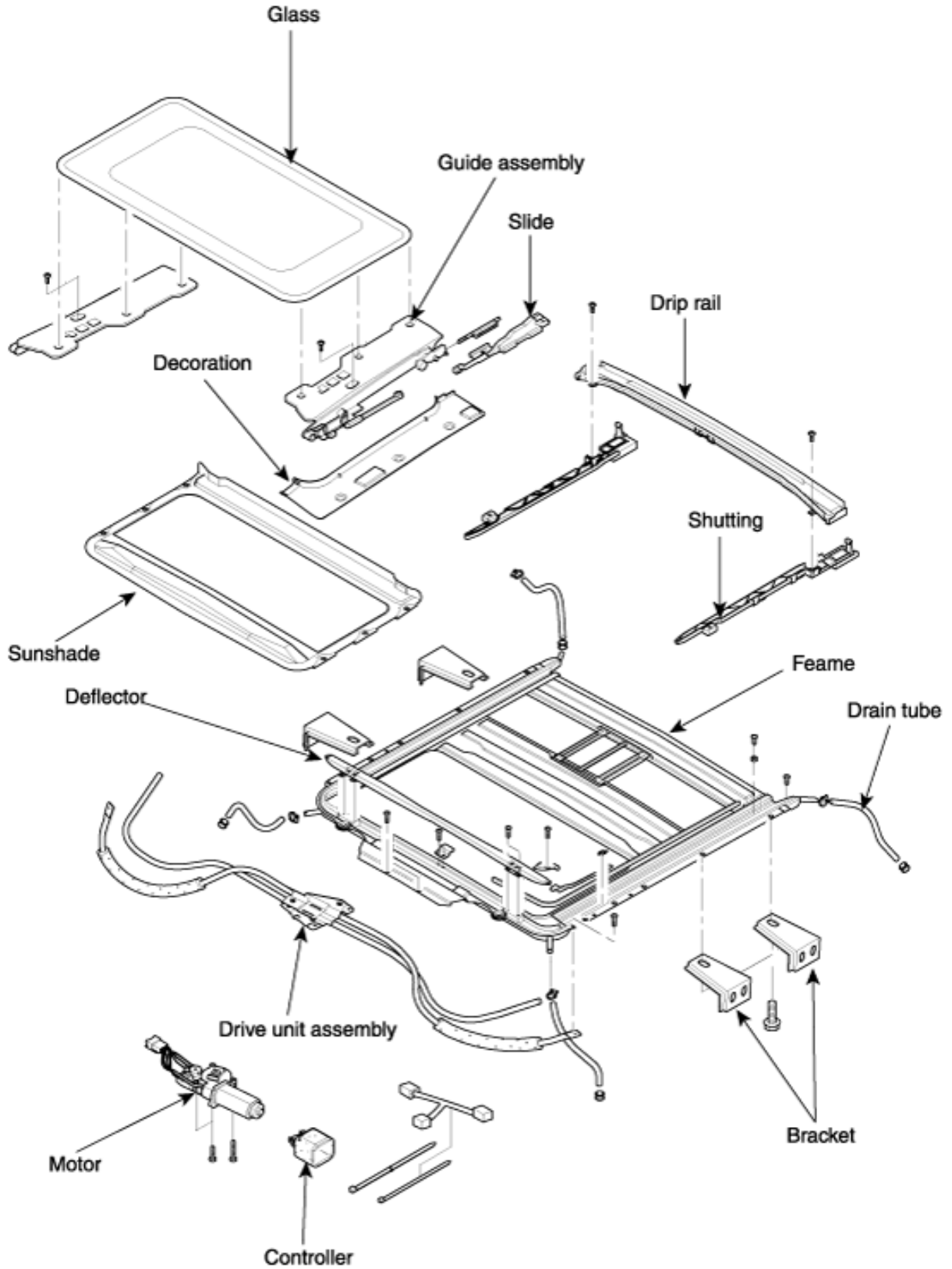
29 ~ 40

Purchased  
from Ebay seller  
Reveleus1

Thank-you for purchasing from me, it  
is much appreciated.

To contact me please email  
[suzlever@gmail.com](mailto:suzlever@gmail.com)

# COMPONENTS



## ON-VEHICLE INSPECTION

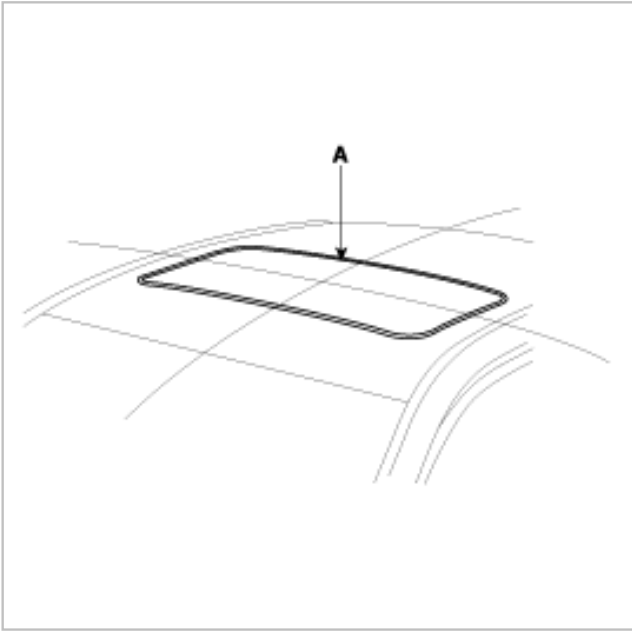
### INSPECT SUNROOF GLASS ALIGNMENT

1. Start the engine and check the operating time of the sunroof (A).

---

Operating time: Approx. 5 secs.

---

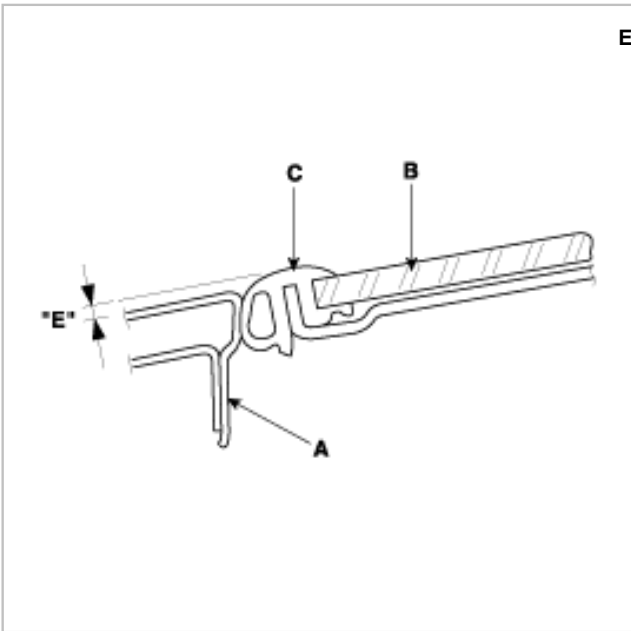


2. Check for abnormal noise or bending during operation.
3. With the sunroof fully closed, check for water leakage.
4. The roof panel (A) should be even with the glass (B) weatherstrip (C), to within the standard value "E" all the way around. If not, make the following adjustment.

Standard value "E"

Front edge:  $2+0/-1$ mm (0.08+0/-0.04in.)

Rear edge:  $2+1/-0$ mm (0.08+0.04/-0in.)

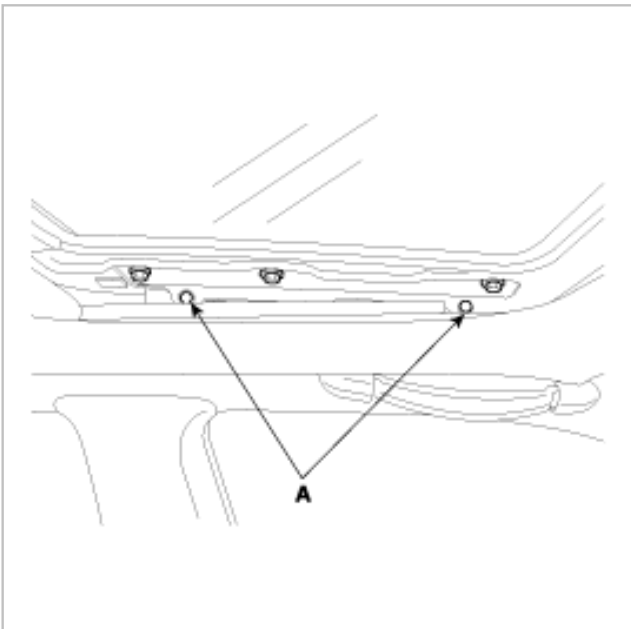


5. If the position is not as specified, lightly loosen the glass adjusting screw (A) to adjust the glass height and tighten it.

---

Tightening torque: 2~4Nm (20~40kgf·cm, 1.5~2.9 lbf·ft)

---

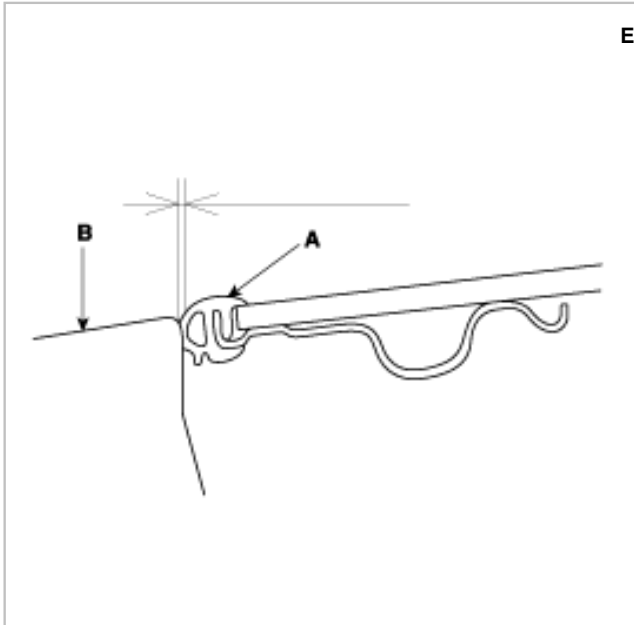


6. Check for overlap between the sunroof weatherstrip (A) and the roof panel (B).

---

Standard value: 1.1mm

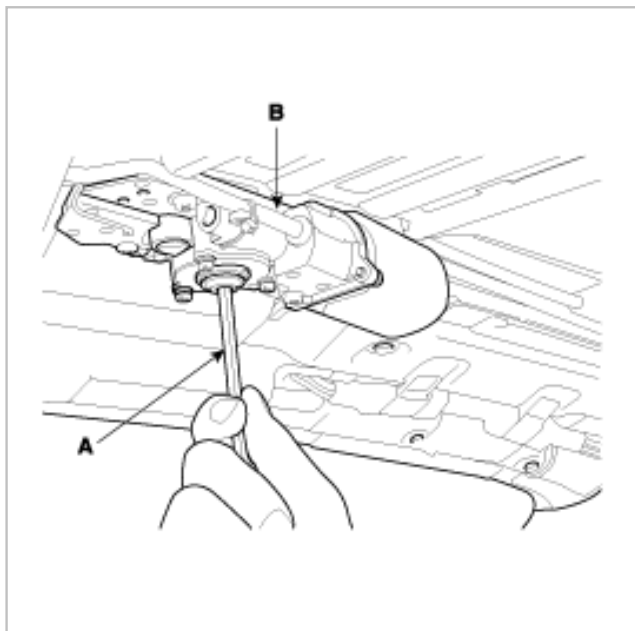
---



## ADJUSTMENT

### OPERATING THE SUNROOF EMERGENCY HANDLE

1. Use the sunroof emergency handle to close and open the sunroof manually for the following case only:
  - A. To close the sunroof before driving a vehicle in a rainy day or on the highway if the sunroof cannot be closed due to failure of the sunroof motor or controller.



## 2. Operating method

Ebay User ID: reveleus1

- A. Remove the overhead console.
- B. Push the emergency handle up into the hexagonal drive (A) of the sunroof motor (B). You must push hard enough to disengage the motor clutch; otherwise the emergency handle will slip due to uncompletely fit in the motor.
- C. Carefully turn the emergency handle clockwise to close the sunroof.
- D. After closing the sunroof, wiggle the handle back and forth as you remove the tool from the motor, to ensure the motor clutch reengages.
- E. A 5mm hex socket may be used in place of the emergency handle, with a "Speeder" type handle.

### CAUTION

Do not use power tools to operate the sunroof.  
Damage to the components may occur.

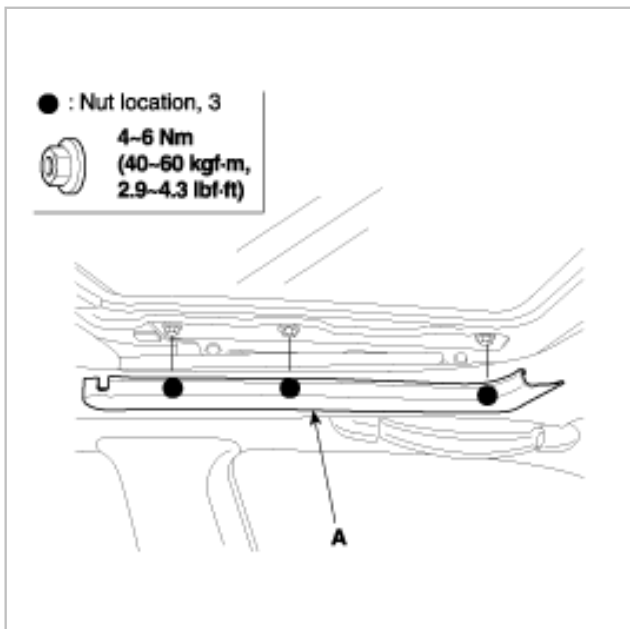
## REPLACEMENT

### NOTE

Put on gloves to protect your hands.

## GLASS REPLACEMENT

1. Close the glass fully and slide the sunshade all the way back.
2. Remove both decoration covers (A), then remove the glass mounting nuts.

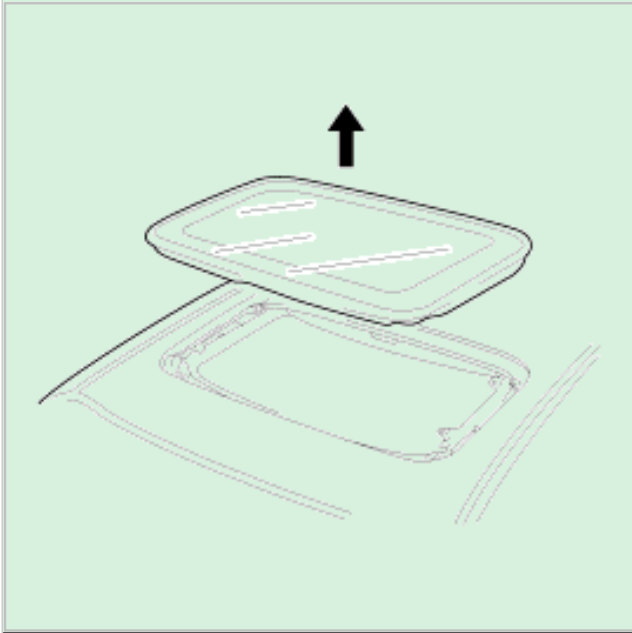


3. Remove the glass by lifting it up.

Ebay User ID: reveleus1

#### NOTE

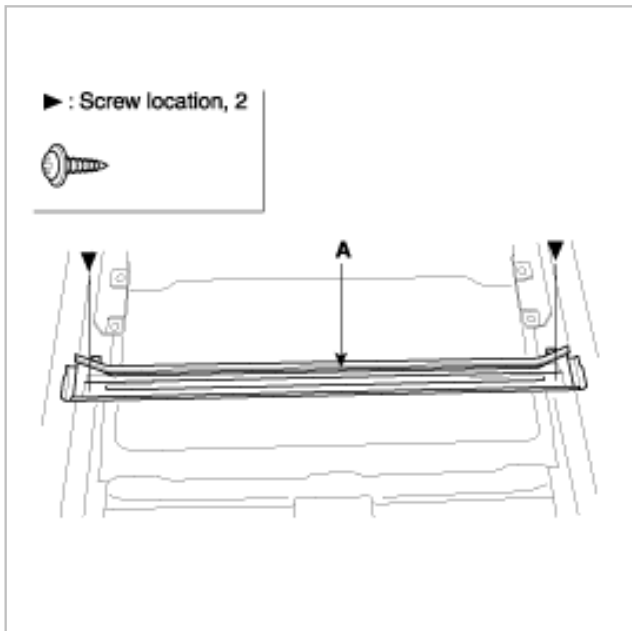
Do not damage the roof panel.



4. Installation is the reverse of removal, and adjust the glass height alignment. Check for water leaks. Do not use high-pressure water.

### DRIP RAIL REPLACEMENT

1. Remove the glass.
2. After loosen the drip rail mounting screws then remove the drip rail (A).
3. Installation is the reverse of removal.



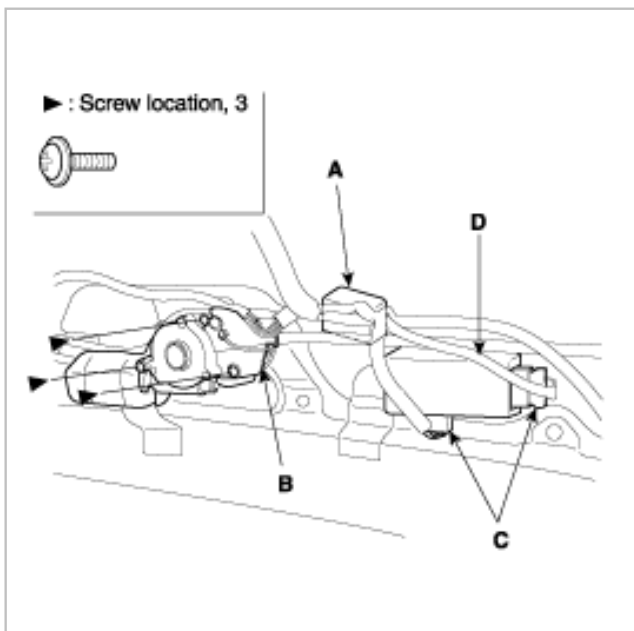
### MOTOR AND CONTROLLER REPLACEMENT

1. Remove the headliner (see page BD- 66).
2. Disconnect the motor connector (A), remove the screws and then remove the motor (B).



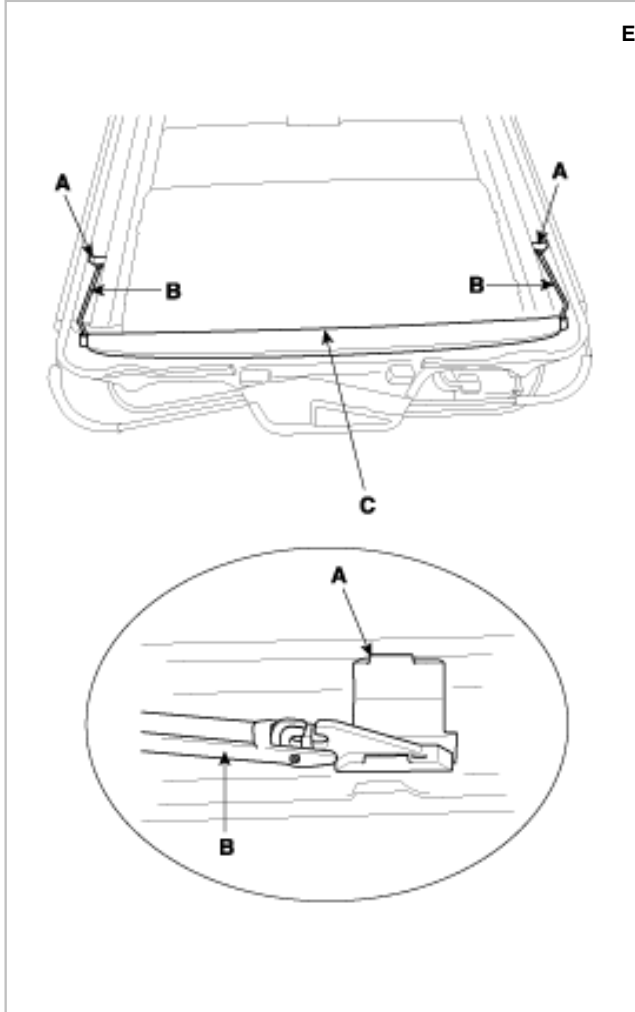
3. Disconnect the controller connector (C), and remove the controller (D).
4. Installation is the reverse of removal.

Ebay User ID: reveleus1



## DEFLECTOR REPLACEMENT

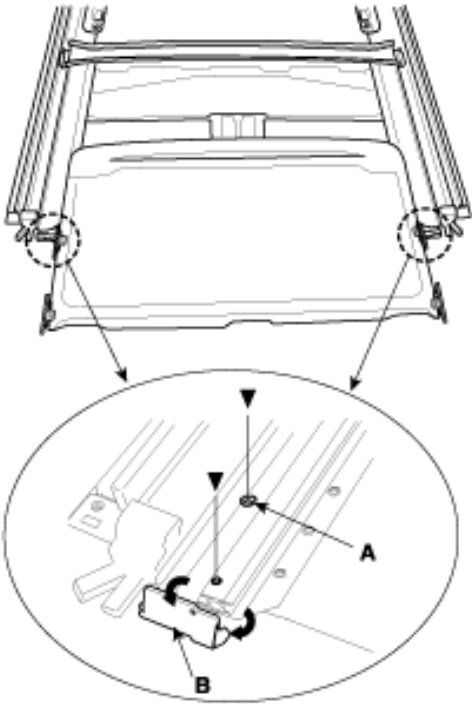
1. Open the glass fully.
2. Disconnect the deflector link (A) from the deflector link connector (B), remove the screws, and then remove the deflector (C).
3. Installation is the reverse of removal.



## SUNSHADE REPLACEMENT

1. Remove the sunroof assembly (see page BD- 48).
2. Remove the drip rail (see page BD- 44).
3. Removing a cushion (A) and a stopper (B) mounting screw, push out the stopper backward.
4. Remove the sunshade (C).
5. Installation is the reverse of removal.

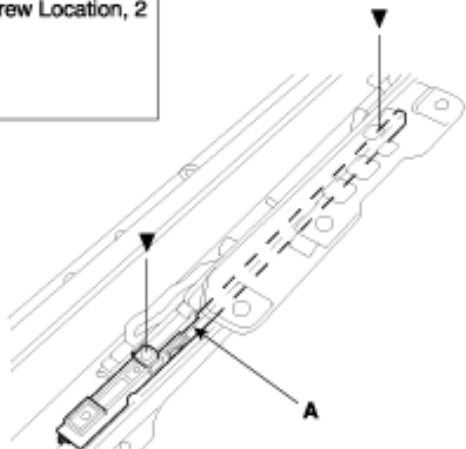
► : Screw location, 2



## GUIDE AND SLIDER REPLACEMENT REMOVE

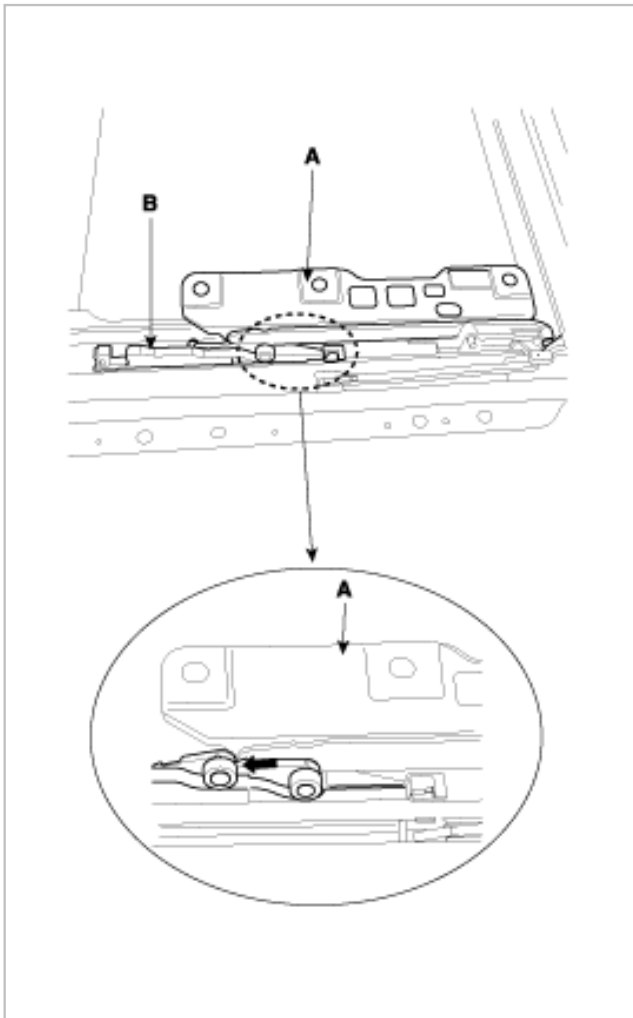
1. Remove the sunroof assembly (see page BD- 48).
2. Remove the drip rail. (see page BD- 44).
3. Remove the sunshade (see page BD- 46).
4. Remove the shutting (A).

► : Screw Location, 2



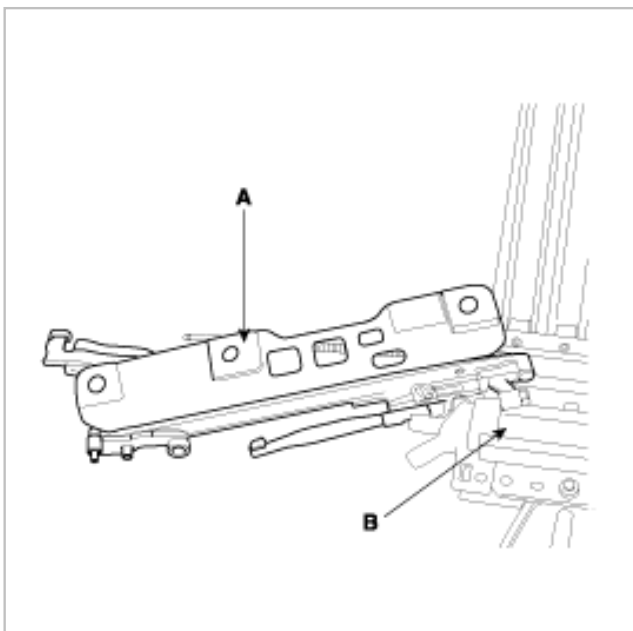
5. Remove a guide assembly (A) after lowering a guide thoroughly by pushing a slide (B) to rear.

Ebay User ID: revereus1



## GUIDE AND SLIDER REPLACEMENT INSTALL

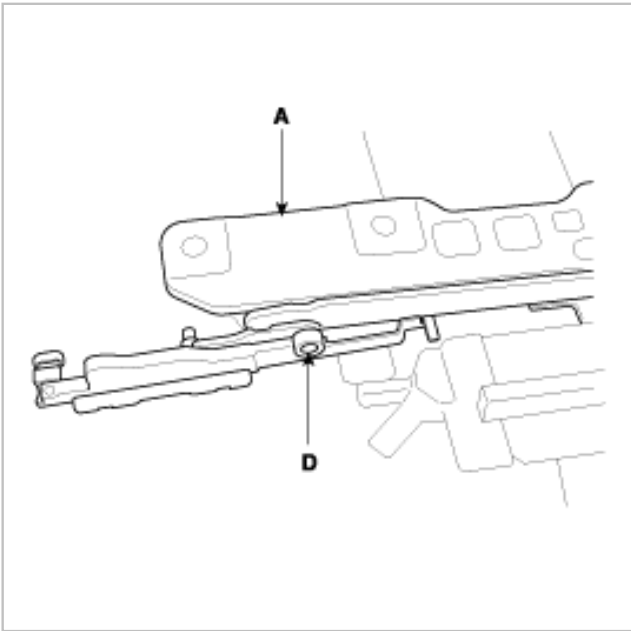
1. Turning a front guide assembly (A) part outward a little, insert it to rail (B).



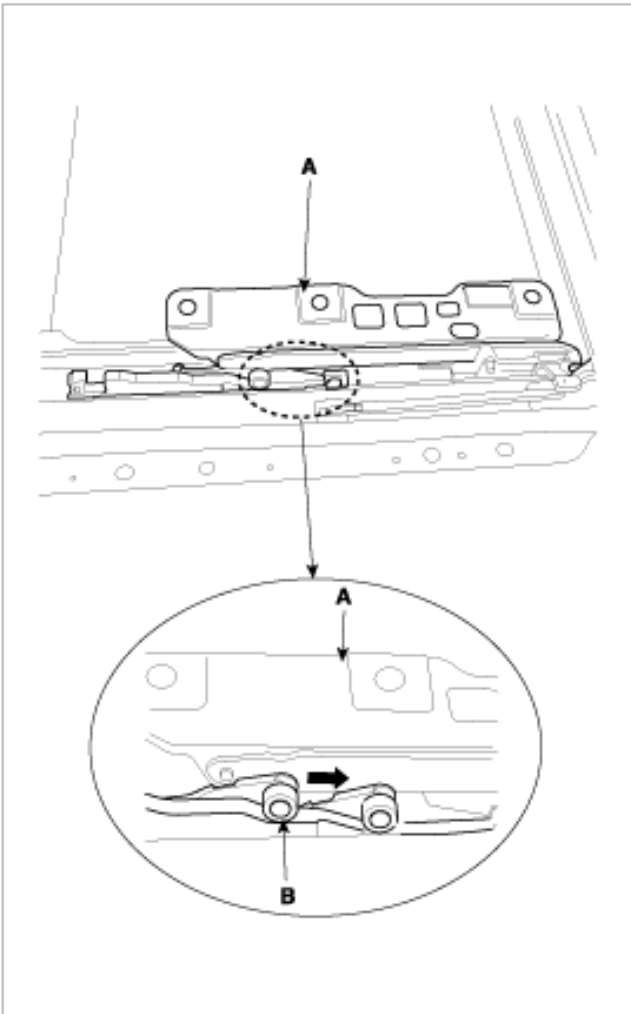
2. Connect the slide (B) to the drive cable.

3. Inserting the roller (D) of a guide assembly (A) in sliding area, install a guide assembly.

Ebay User ID: reveleus1

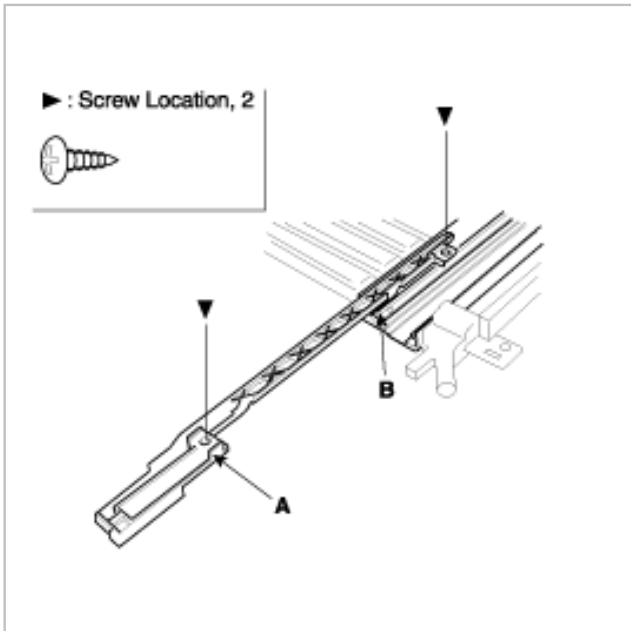


4. Install a guide assembly (A) pushing it to the end of rail and let the roller (D) of a guide assembly located in the middle of sliding area.



5. Inserting the shutting (A) into the sunroof rail (B), install the screws.

Ebay User ID: revereus1



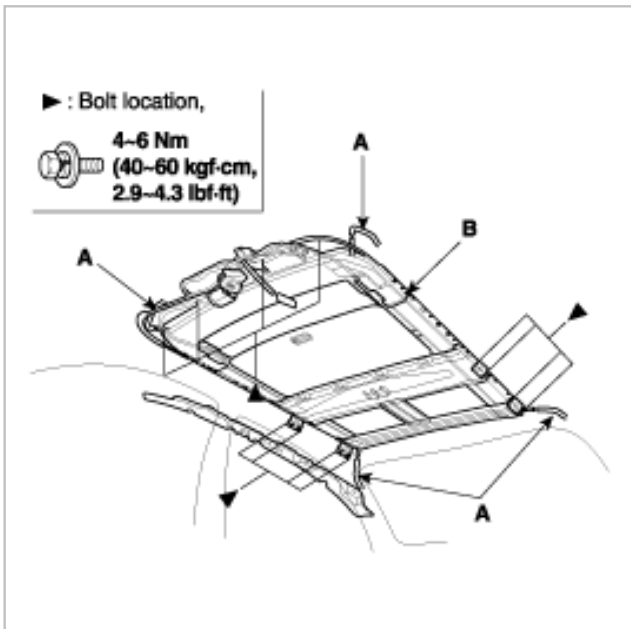
## SUNROOF ASSEMBLY REPLACEMENT

1. Remove the headliner (see page BD- 66).
2. Disconnect the motor connector, sunroof switch connector, and drain tubes (A).
3. With an assistant holding the sunroof assembly (B), remove mounting bolts, and sunroof assembly.

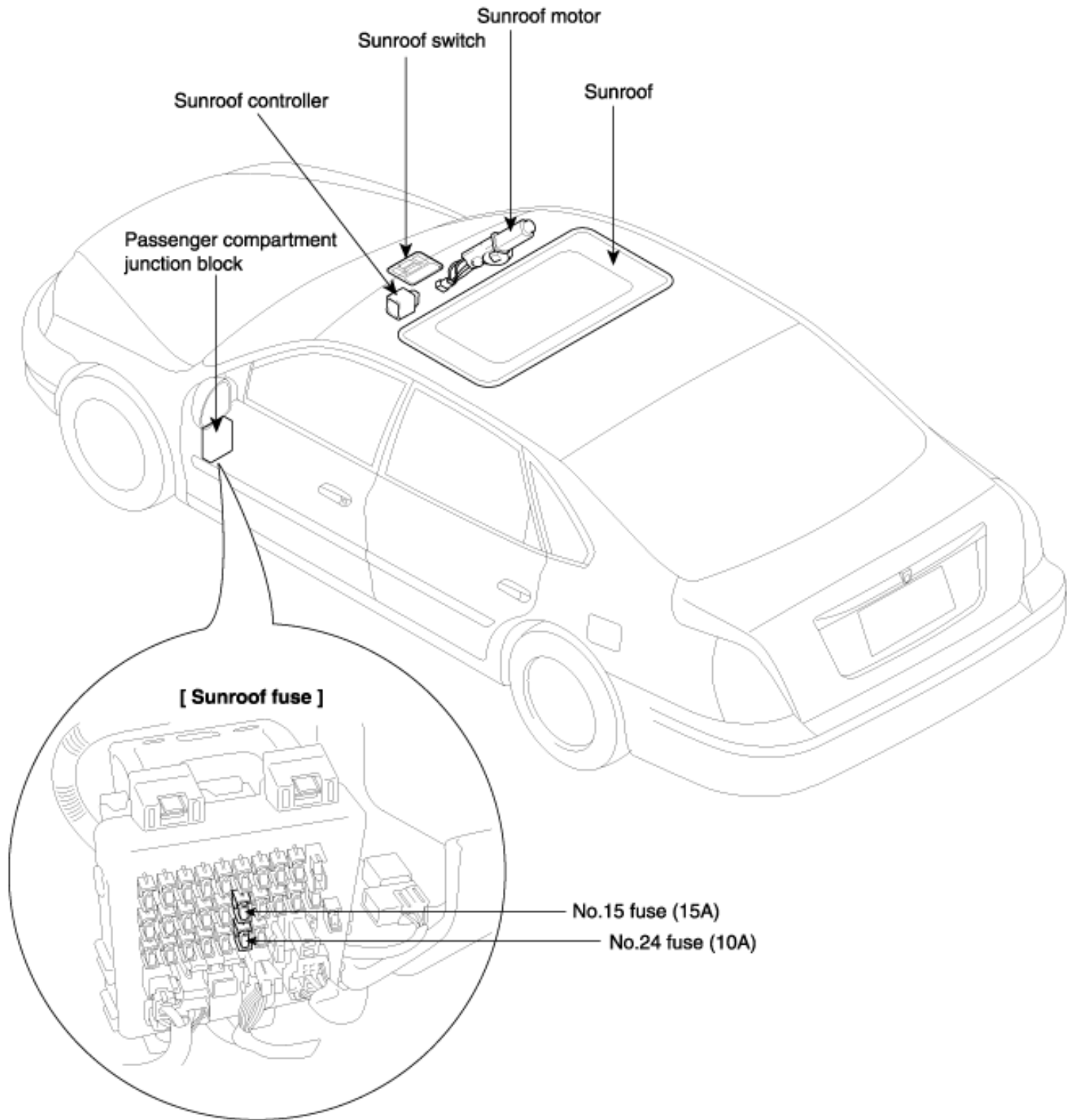
### NOTE

Take care not to scratch the interior trims and other parts.

4. Installation is the reverse of removal.

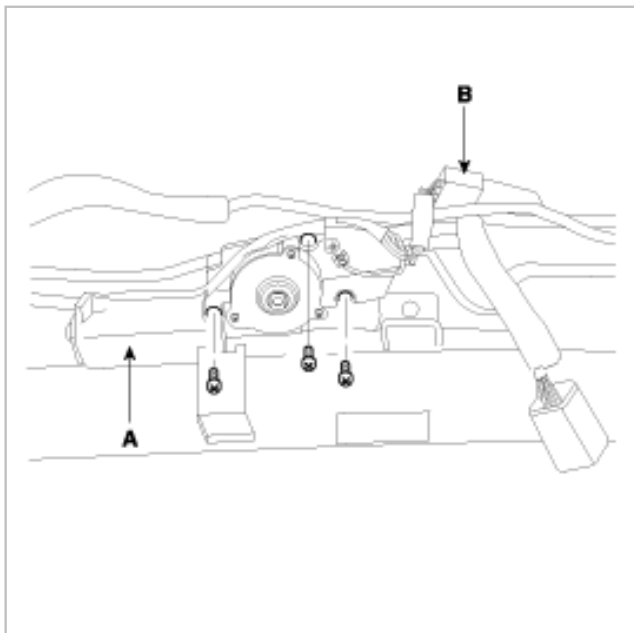


# COMPONENTS

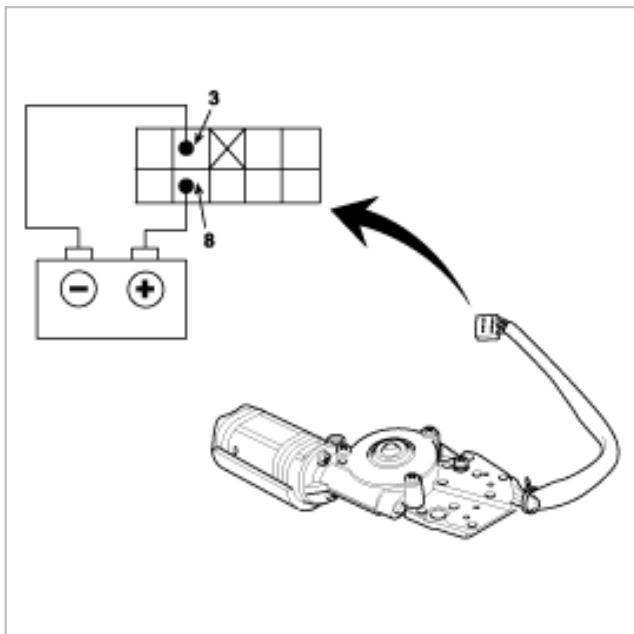


## INSPECTION

1. Remove the sunroof motor (A) after removing 3 screws and disconnect the 9P connector (B) from the sunroof motor.

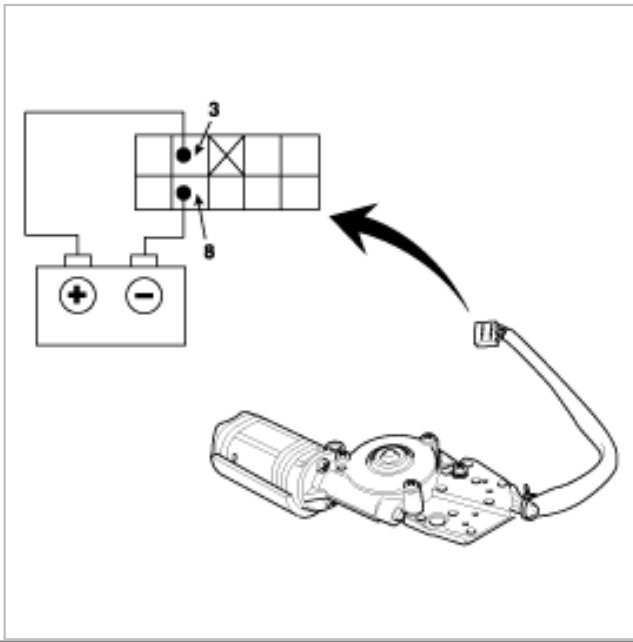


2. Connect the positive (+) lead from the battery to terminal 8 and the negative (-) lead to terminal 3. Check that the motor turns counter-clockwise.



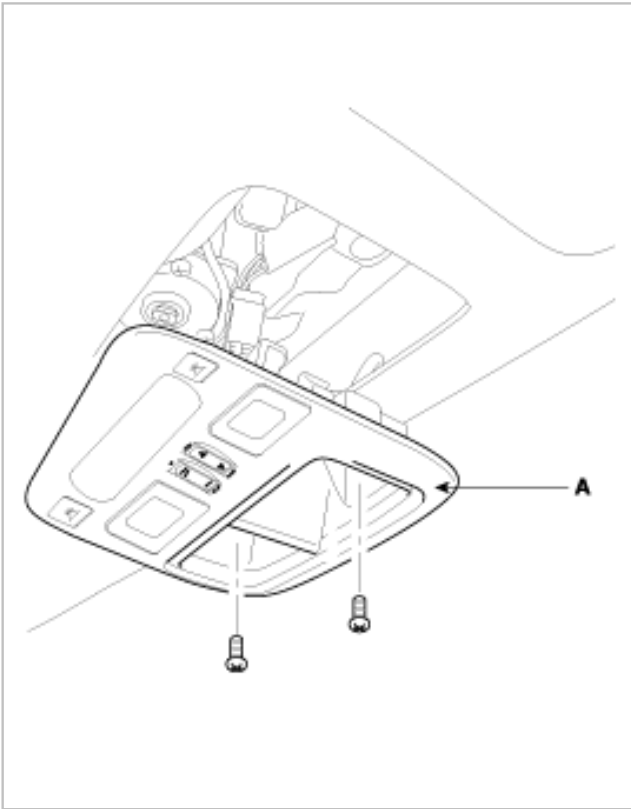


3. Reverse the polarity, check that the motor turns clockwise.  
Ebay User ID: reveleus1  
If operation is not as specified, replace the motor.

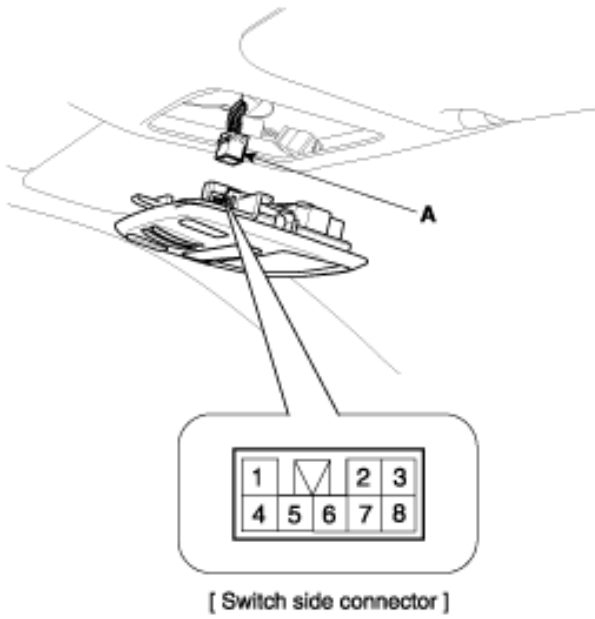


## INSPECTION

1. Disconnect the negative (-) battery terminal.
2. Open the sunglass case from the overhead console then remove the 2 screws holding the overhead console (A).



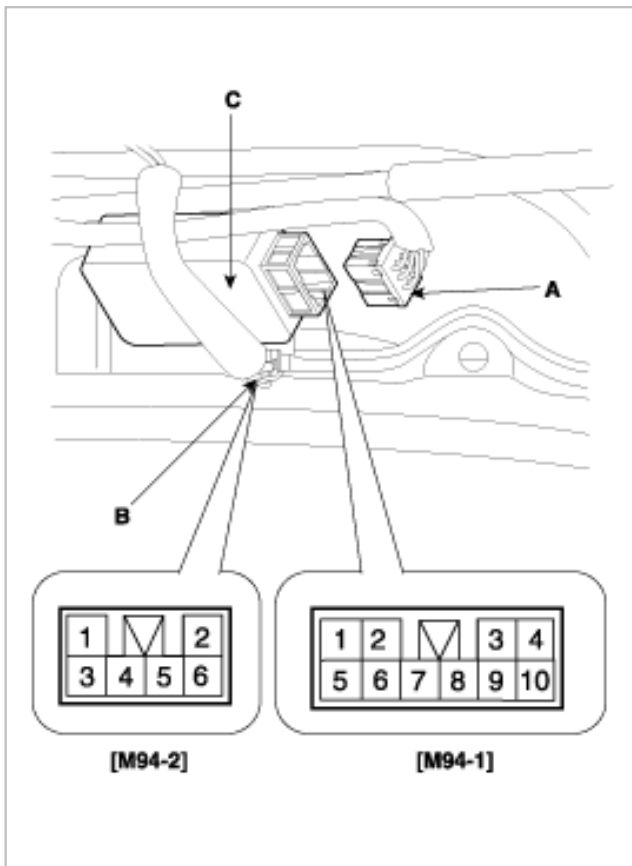
3. Disconnect the 8P connector (A) then remove the overhead console lamp assembly from the headliner. Check for continuity between the terminals. If the continuity is not as specified, replace the sunroof switch.



Position		Terminal	3	4	5	6	7
		Slide switch	OPEN	<input type="radio"/>	—————		
CLOSE	<input type="radio"/>					<input type="radio"/>	
Tilt switch	UP	<input type="radio"/>		<input type="radio"/>			
	DOWN	<input type="radio"/>	<input type="radio"/>				

## INSPECTION

1. Disconnect the 10P connector (A) and 6P connector (B) from the sunroof controller(C).



2. Inspect the connectors on the wire harness side, as shown in the chart.

Connector	Tester connection	Condition	Specified condition
M94-1	1-Ground	Constant	Continuity
	7-Ground	Sunroof switch position (slide) CLOSE	Continuity
	6-Ground	Sunroof switch position (slide) OPEN	Continuity
	4-Ground	Ignition switch position ON	Battery voltage
	5-Ground	Sunroof switch position (Tilt) UP	Continuity
	8-Ground	Sunroof switch position (Tilt) DOWN	Continuity
	2-10	No.1 limit switch OFF	No continuity
	2-10	No.1 limit switch ON	Continuity
	3-9	No.2 limit switch OFF	No continuity
	3-9	No.2 limit switch ON	Continuity
	5-Ground	Constant	Continuity

M94-2	6(+) - 4(-)	Battery connection between terminal 6(+) and 4(-)	Motor turns clockwise
	4(+) - 6(-)	Battery connection between terminal 4(+) and 6(-)	Motor turns counter-clockwise
	3-Ground	Constant	Battery voltage



## TROUBLESHOOTING

Symptom	Suspect Area	Remedy (See page)
Water leaks from sunroof	Dirt accumulated in drain tube	Clear dirt inside of drain
	Clogged drain tube	Blow air into drain to remove dirt
	Broken or dislocated drain tube, defective or cracked clip	Check tube installation and flange contact
	Deteriorated roof lid weatherstrip	Replace
	Excessive roof lid-to-body clearance and improperly fitted weatherstrip	Adjust
Wind noise around sunroof	Loose or deformed deflector, gaps in body work	Retighten adjust or replace
Sunroof lid makes a noise when moved	Foreign particles lodged in guide rail	Check drive cable and guide rails for foreign particles
	Loose guide rails and lid	Retighten
Motor runs but sunroof does not move or moves only partially	Foreign particles lodged in guide rail	Check drive cable and guide rails for foreign particles
	Incorrect engagement of motor pinion with drive cable	Check for loose motor installation and damaged pinion
	Decrease in motor's clutch slipping force	Adjust
	Increased sunroof sliding resistance or interference of sunroof with drive cables, weatherstrip, etc. due to maladjustment of sunroof	Adjust or replace
Noise in motor (clutch slipping noise from motor when sunroof is fully opened or closed is not an unusual noise.)	Incorrect engagement of motor pinion with drive cable	Check pinion installation and retighten motor
	Worn out or damaged motor pinion bearing	Replace motor assembly
	Worn out or deformed drive cable	Replace
Door glass fails to operate up and down	Incorrect window glass installation	Adjust position (see page BD-28)
	Damaged or faulty regulator arm or regulator	Correct or replace (see page BD-25)

Door does not open or close completely	Incorrect door installation	Adjust position (see page BD-28)
	Defective door check assembly	Correct or replace
	Door hinge requires grease	Apply grease
Hood does not open or close completely	Striker and latch not properly aligned	Adjust (see page BD-12)
	Incorrectly installed hood	Adjust (see page BD-12)
	Incorrect hood bumper height	Adjust (see page BD-12)
Water leak through windshield and rear window	Defective seal	Fill with sealant
	Defective flange	Correct
Wind noise around door	Weatherstrip not holding firmly	Adjust fit or door (see page BD-29)
	Improperly installed weatherstrip	Repair or replace (see page BD-29)
	Improperly closed door	Adjust (see page BD-29)
	Improperly fit door	Adjust (see page BD-29)
	Improperly clearance between door glass and division channel	Adjust (see page BD-29)
	Deformed door	Repair or replace

## REPLACEMENT

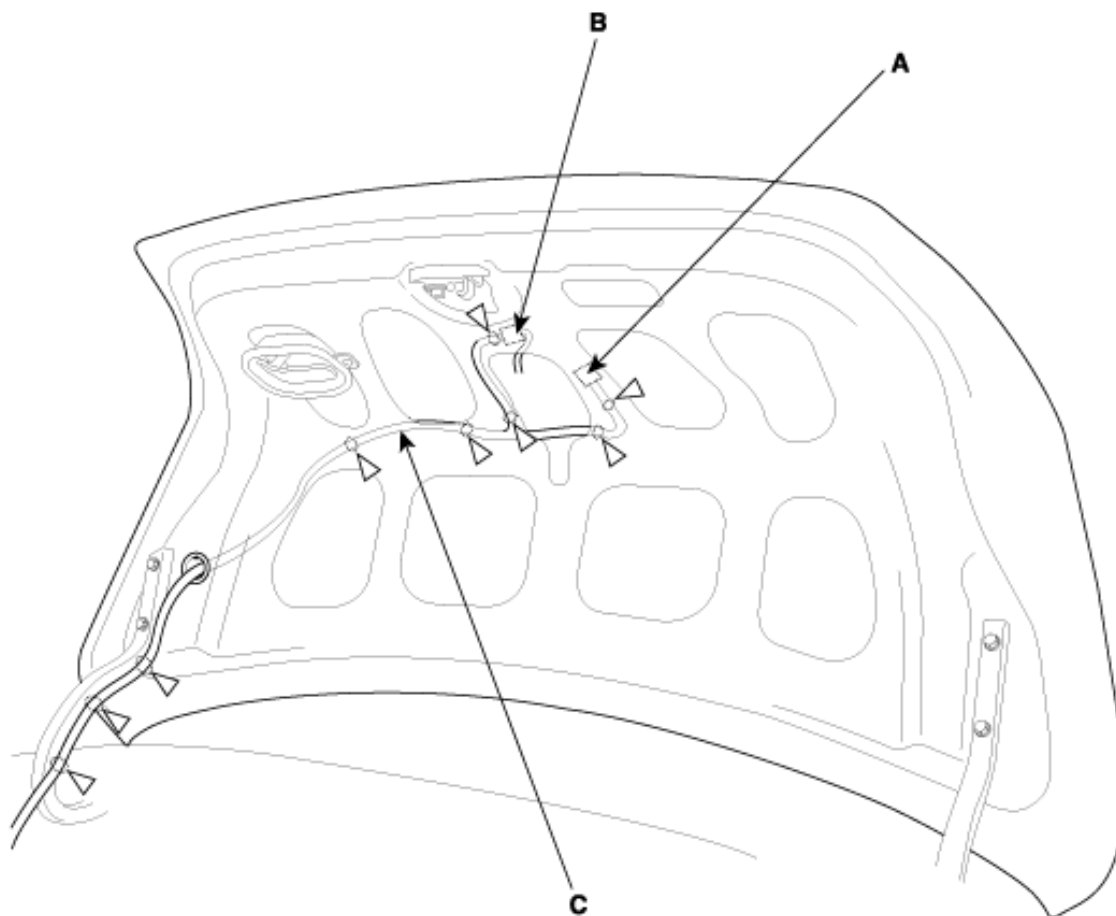
### TRUNK LID REPLACEMENT

#### NOTE

- When removing and installing the trunk lid, an assistant is necessary.
- Wear gloves to protect hands from injury.

1. Disconnect the key cylinder connector (A) and license lamp connector (B).
2. Disconnect the harness (C) wiring from the panel.

▷ : Clip locations, 9





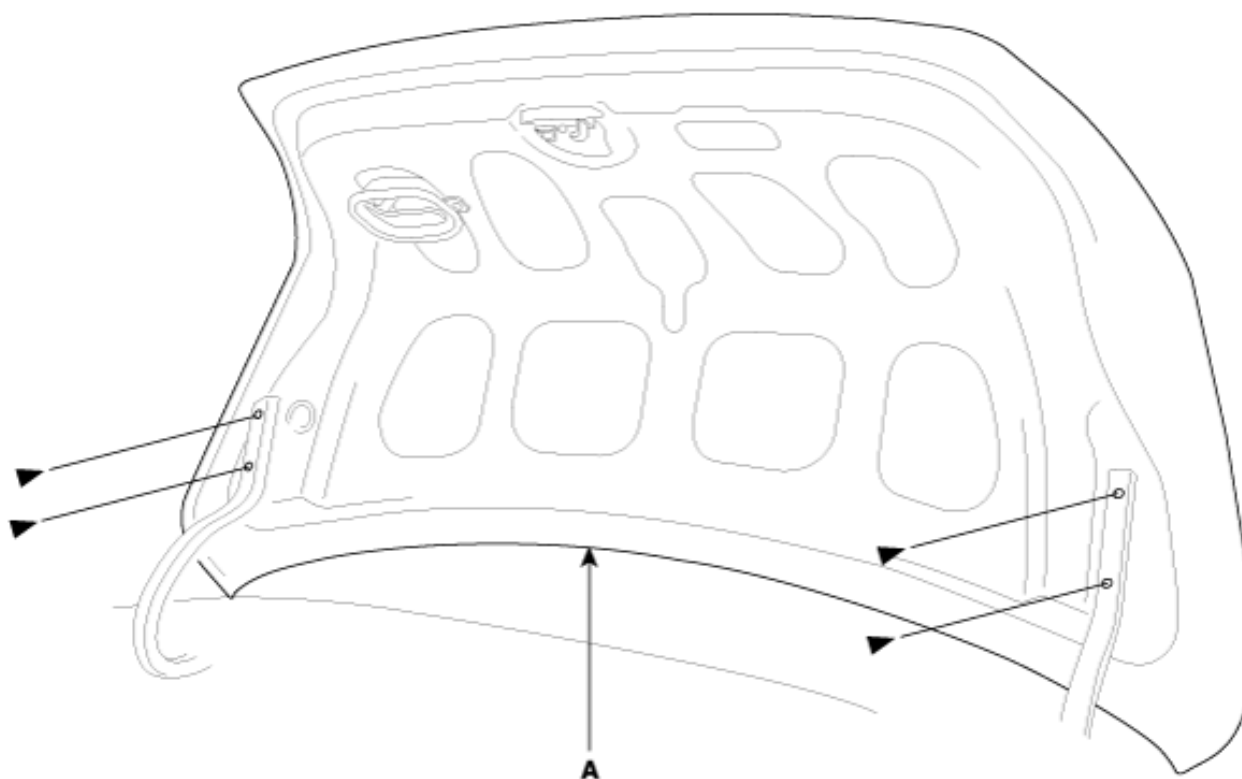
3. Loosen the bolts, then remove the trunk lid (A).

Ebay User ID: reveleus1

▶ : Bolt locations, 4



22~27 Nm  
(220~270 kgf-cm,  
16~19.5 lbf-ft)



4. Installation is the reverse of removal.

#### NOTE

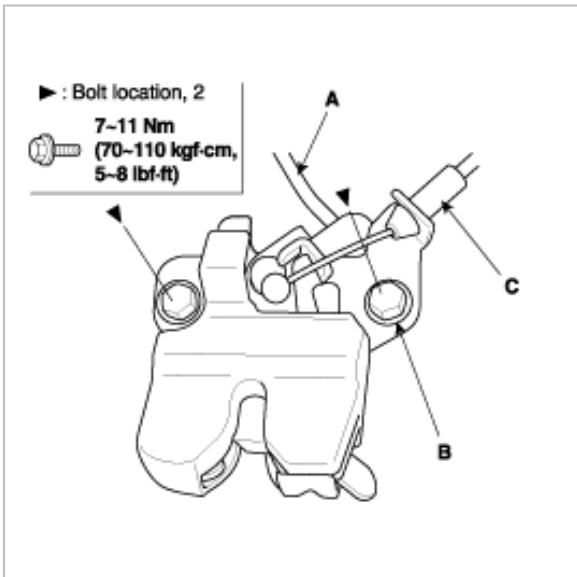
- Make sure the connectors are plugged in properly, and opener cable is connected properly, and the wire harness and opener are routed properly.
- Make sure the trunk lid opens properly and locks securely.
- Adjust the trunk lid alignment (see page BD- 19)

## TRUNK LID LATCH REPLACEMENT

1. Disconnect the key cylinder connecting rod (A).

2. Loosen the latch mounting bolts (B) and disconnect the inside handle cable (C).

Ebay User ID: reveleus1



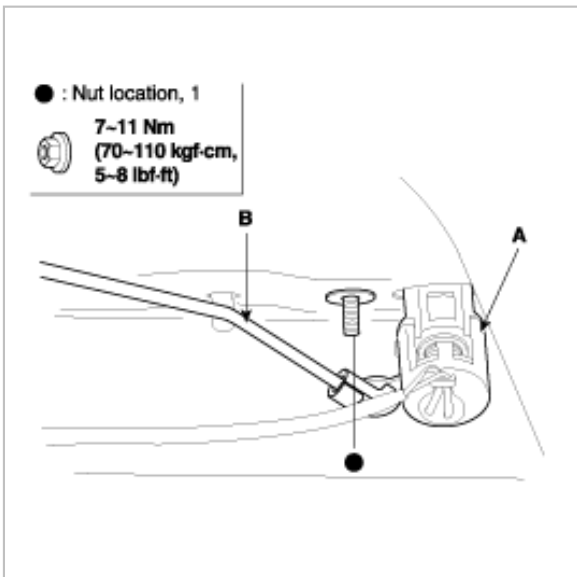
3. Installation is the reverse of removal.

#### NOTE

- Make sure the connector is connected properly and the key cylinder rod is connected properly.
- Make sure the trunk lid opens properly and locks securely.

## KEY CYLINDER REPLACEMENT

1. Remove the trunk lid garnish.
2. Disconnect the key cylinder (A) connecting rod (B), then loosen the key cylinder mounting nut and remove.



3. Installation is the reverse of removal.

#### NOTE

- Make sure the connector is connected properly and the key cylinder rod is connected properly.
- Make sure the trunk lid opens properly and locks securely.

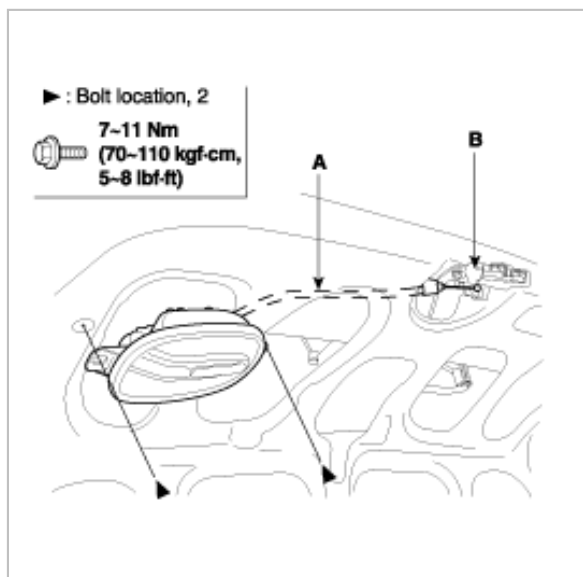
## INSIDE HANDLE REPLACEMENT

1. Disconnect the inside handle cable (A) from the latch (B).
2. Loosen the inside handle mounting bolts.

Email: [suzlever@gmail.com](mailto:suzlever@gmail.com)

3. Installation is the reverse of removal.

Ebay User ID: reveleus1

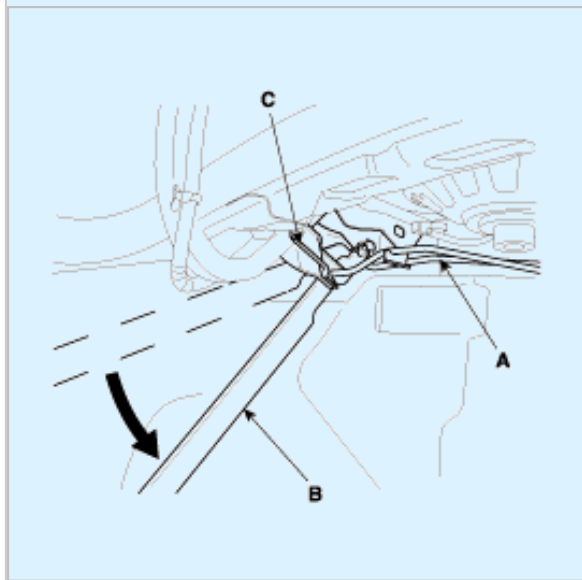


## TORSION BAR REPLACEMENT

1. Remove the torsion bars (A) with the torsion bar wrench (B) from both trunk lid hinge (C).

### CAUTION

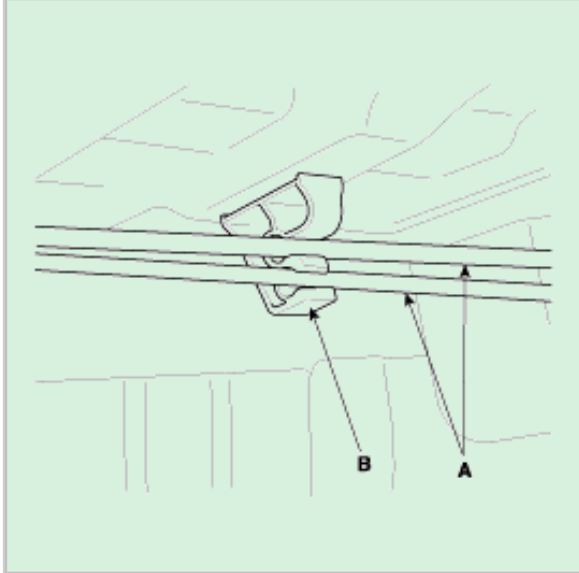
Be careful for the torsion bars not to bound because of its elasticity.



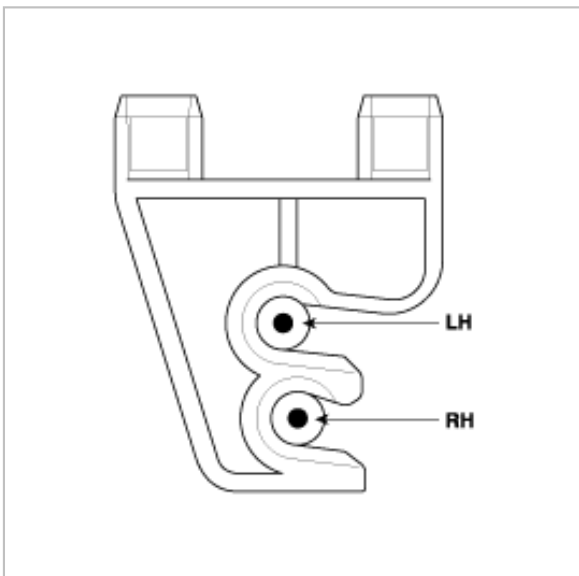
2. Remove the torsion bar (A) from the torsion bar holder (B).

### NOTE

When removing and installing the torsion bar, an assistant is necessary.



3. Installation is the reverse of removal.



#### NOTE

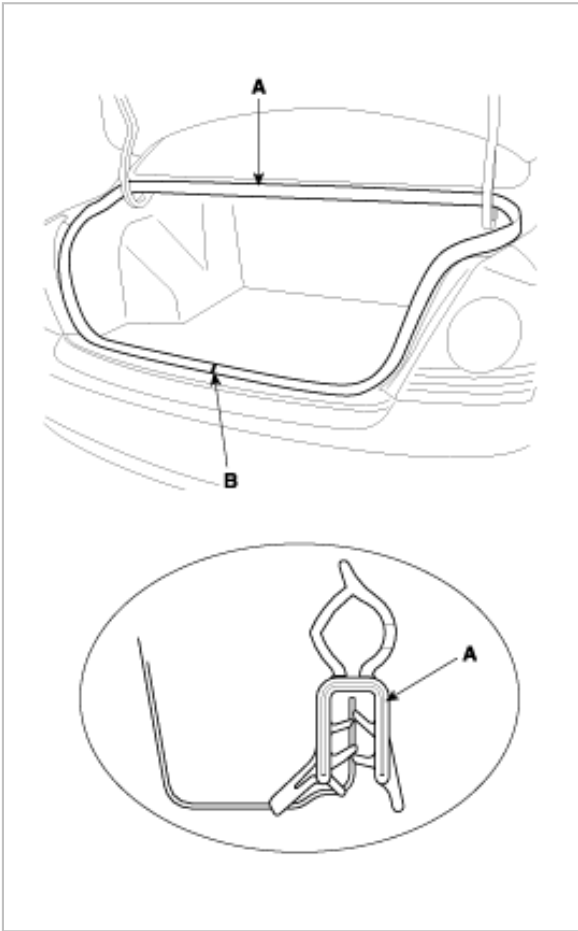
- RH torsion bar should be installed below the LH Torsion bar in the torsion bar holder.
- Adjust the torsion bars forward or rearward with the torsion bar assembly tool.
- Make sure the trunk lid opens properly and locks securely.

## TRUNK LID WEATHERSTRIP REPLACEMENT

1. Remove the trunk lid weatherstrip (A) by pulling it off.

2. Locate the alignment mark (B) in the trunk lid weatherstrip. Align the mark with the alignment tab in the center of the trunk, and install the weatherstrip all the way around facing in the direction shown. Make sure there are no wrinkles in the weatherstrip.

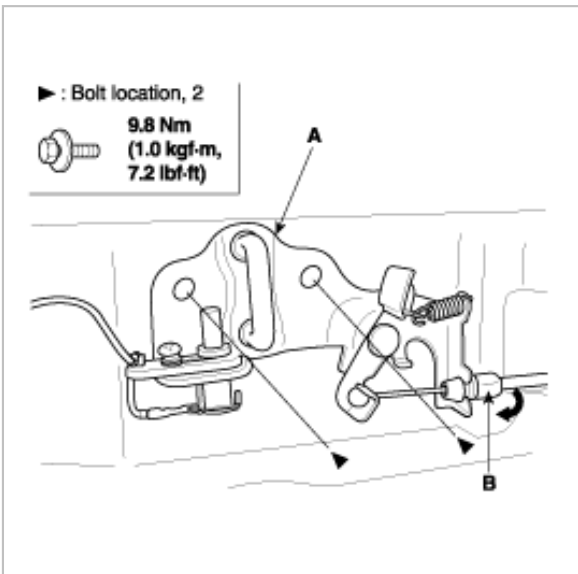
Ebay User ID: Teveleus1



3. Check for water leaks.

## STRIKER REPLACEMENT

1. Remove the transverse trim (see page BD- 65).
2. Remove the striker (A).

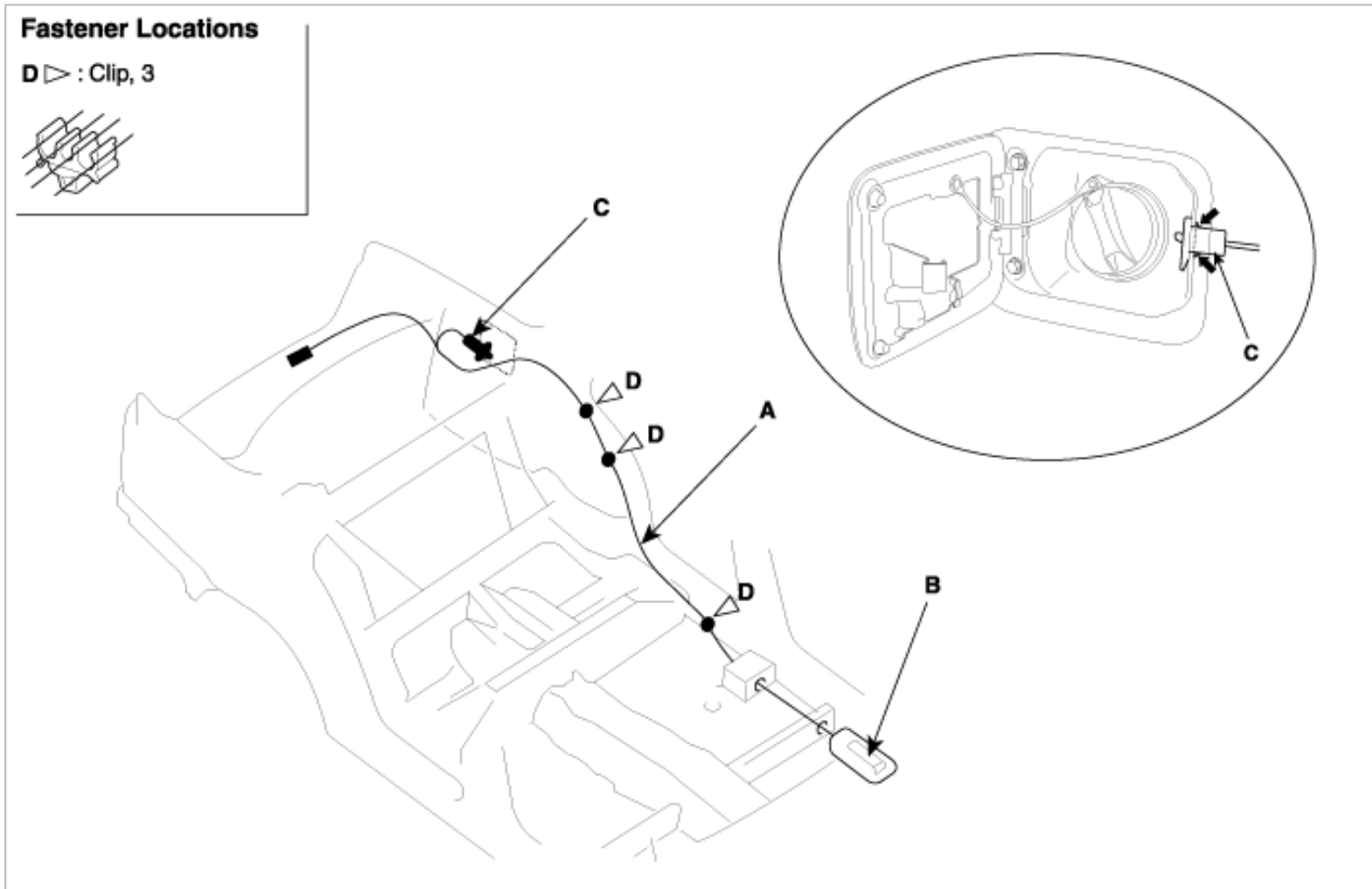


**NOTE**

- Make sure trunk release cable (B) is connected properly.
- Make sure the trunk lid opens properly and locks securely.

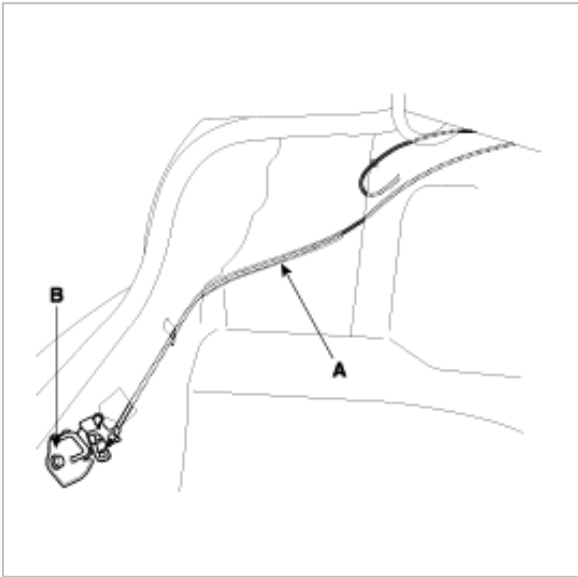
## TRUNK LID FUEL FILLER DOOR RELEASE CABLE REPLACEMENT

1. Remove the following items.
  - A. Rear seat cushion (see page BD- 89).
  - B. Rear seat side pad (see page BD- 89).
  - C. Front door scuff trim LH (see page BD- 63).
  - D. Rear door scuff trim LH (see page BD- 63).
  - E. Center pillar lower trim (see page BD- 63).
  - F. Luggage trim, left side (see page BD- 65).
  - G. Straker (see page BD- 18).
2. Pull the carpet back as necessary (see page BD- 64).
3. Disconnect the trunk lid fuel filler door release cable (A) from the release handle (B) (see page BD- 21).



4. Remove the release cable (A) from the clip, and disconnect the fuel filler door catch (C), then remove the fuel filler door cable from the vehicle.

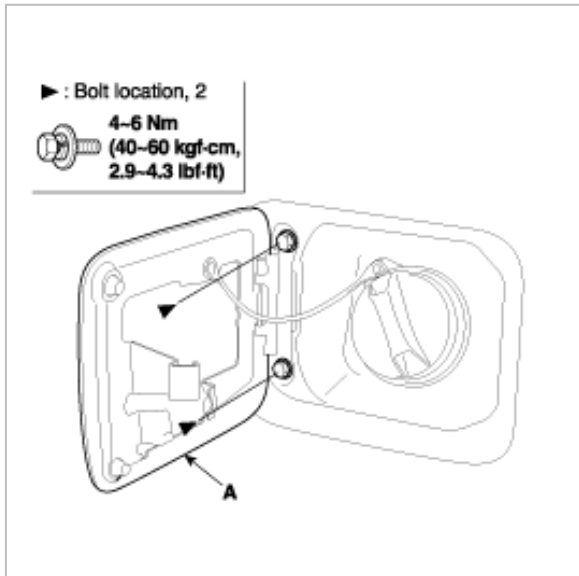
5. Disconnect the trunk lid release cable (A) from the trunk lid striker (B). (see page BD- 18).  
Ebay User ID: reveleus1



6. Installation is the reverse of removal, and replace any damaged clips.

## FUEL FILL DOOR REPLACEMENT

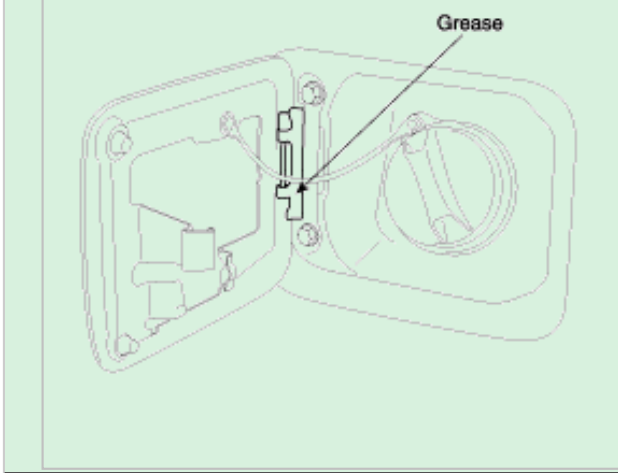
1. Loosen the bolts, then remove the fuel filler door (A).



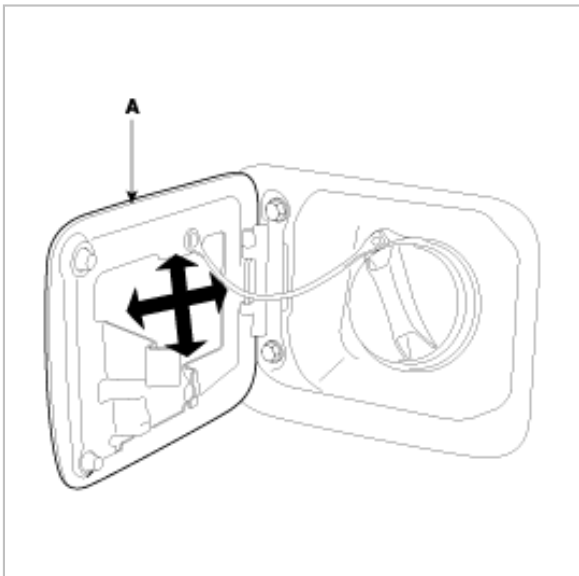
2. Installation is the reverse of removal.

### NOTE

- Grease each location indicated by the arrows.
- Make sure the fuel fill door opens properly and locks securely.

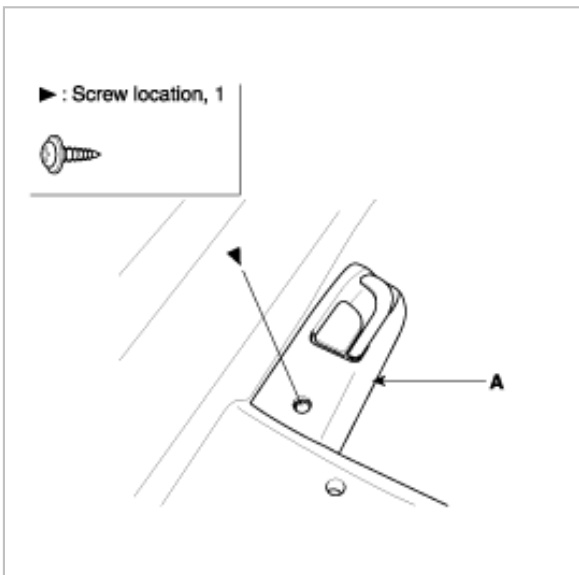


3. Check that the fuel fill door (A) fits flush against the body. If necessary, adjust it.



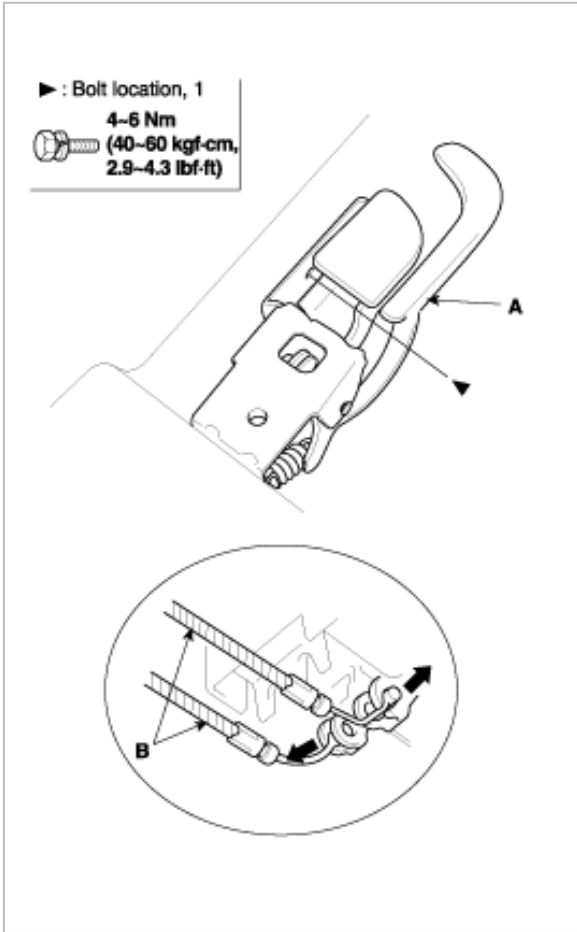
### RELEASE HANDLE REPLACEMENT

1. Remove the cover (A).





2. Loosen the release handle (A), mounting bolt. Ebay User ID: reveleus1  
Disconnect the release cable (B), then remove the release handle.



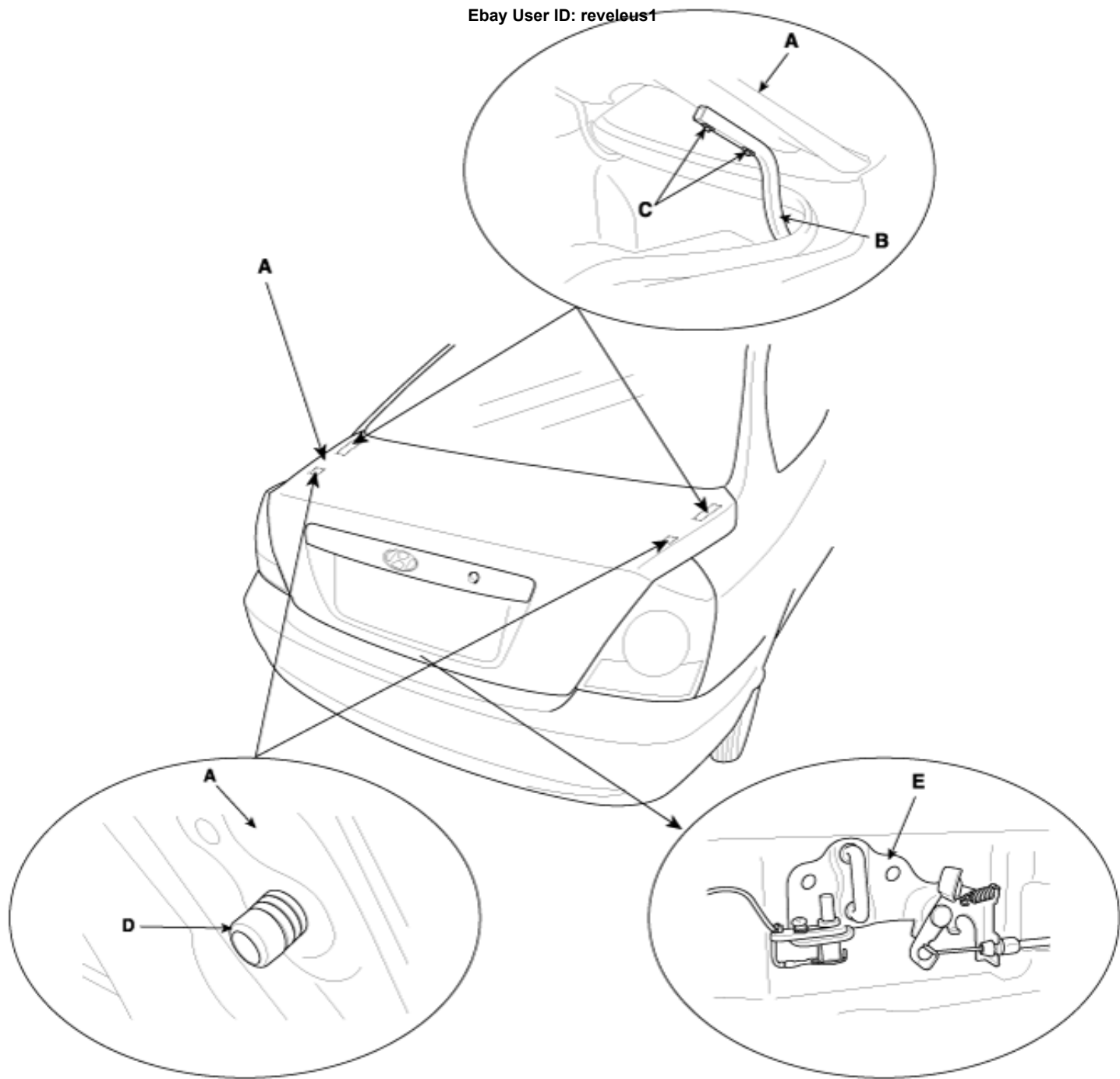
3. Installation is the reverse of removal.

#### NOTE

- Make sure the release cable is connected properly.
- Make sure the fuel filler door/trunk lid open properly.

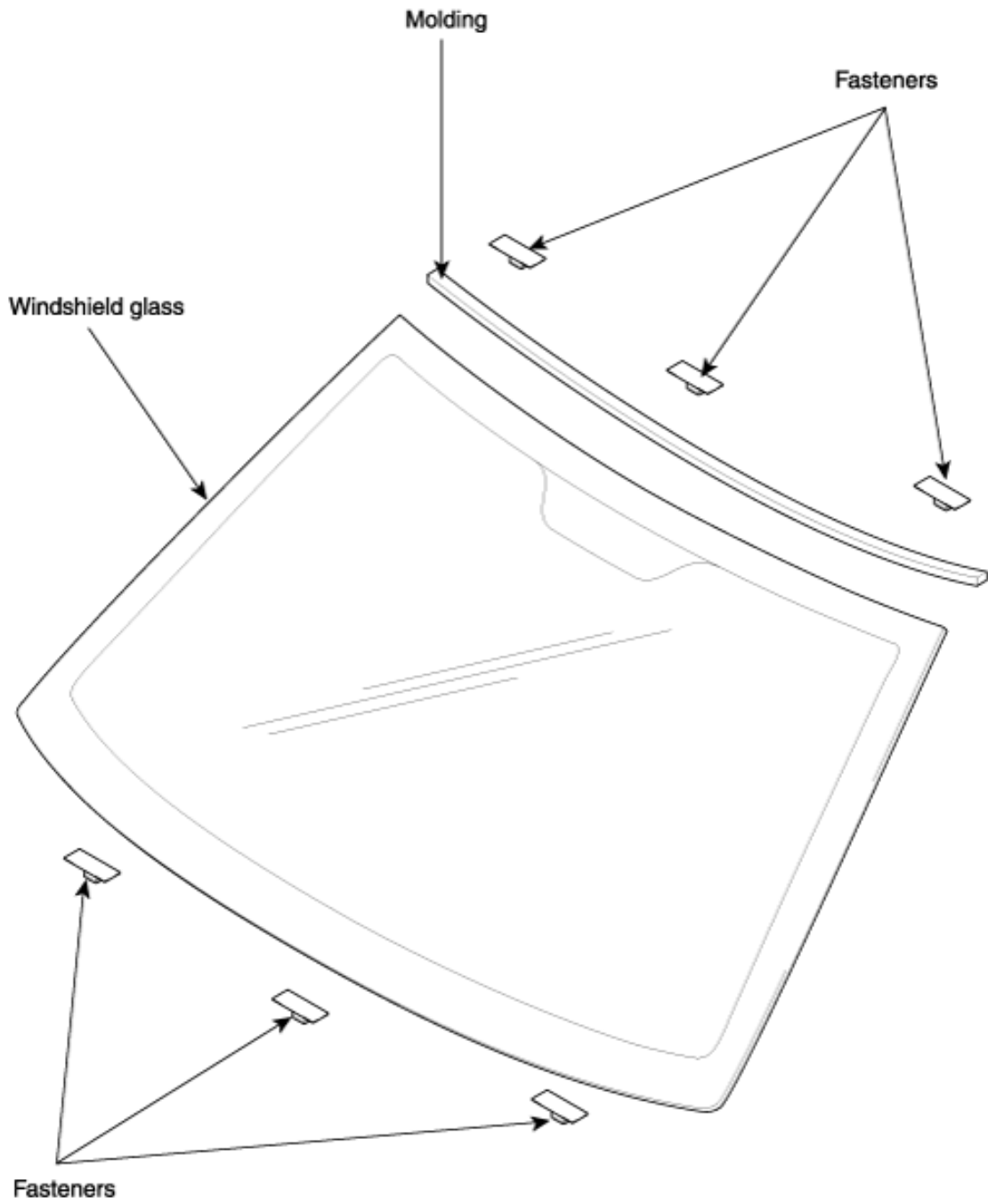
## ADJUSTMENT

1. Adjust the trunk lid (A) alignment.
  - A. After loosening the trunk lid hinge (B) mounting bolt (C), adjust the trunk lid by moving it up or down, or right or left.
  - B. Adjust the trunk lid fit by turning the trunk lid over slam bumper (D).
  - C. Adjust the striker (E) by moving it up or down, or right or left.



1. Tighten each bolt securely.
2. Make sure the trunk lid opens and locks securely.

# COMPONENTS



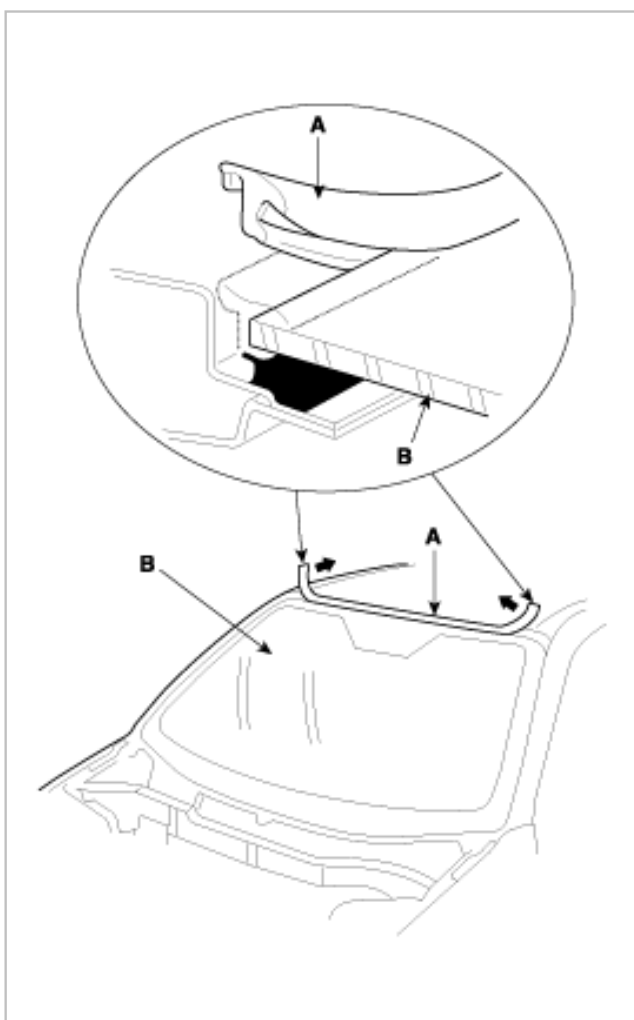
## REPLACEMENT

### REMOVAL

#### NOTE

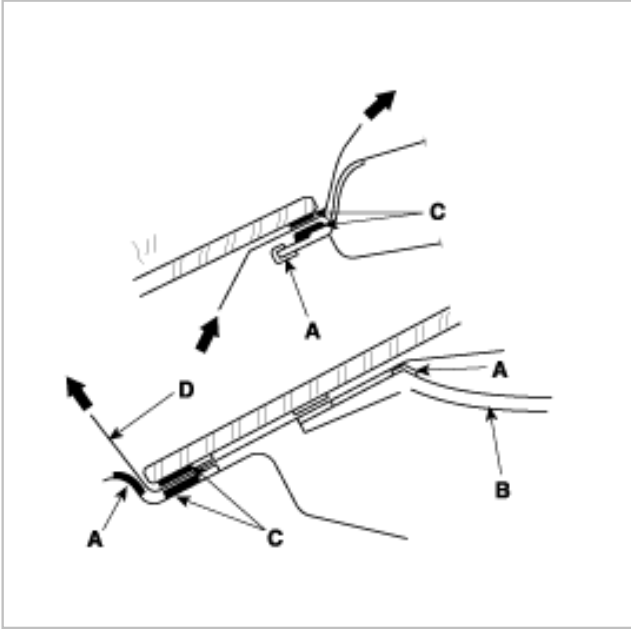
- Put on gloves to protect your hands.
- Use seat covers to avoid damaging any surfaces.

1. Remove the following items:
  - A. Rearview mirror (see page BD- 52).
  - B. Sunvisors and holders, both sides, Roof console, Grab handles, both sides (see page INTERIOR TRIM).
  - C. Front pillar trim, both sides (see page BD- 63).
  - D. Windshield wiper arms and cowl cover (see page BE group).
2. Remove the molding (A) from the edge of the windshield (B). If necessary, cut the molding with a utility knife.

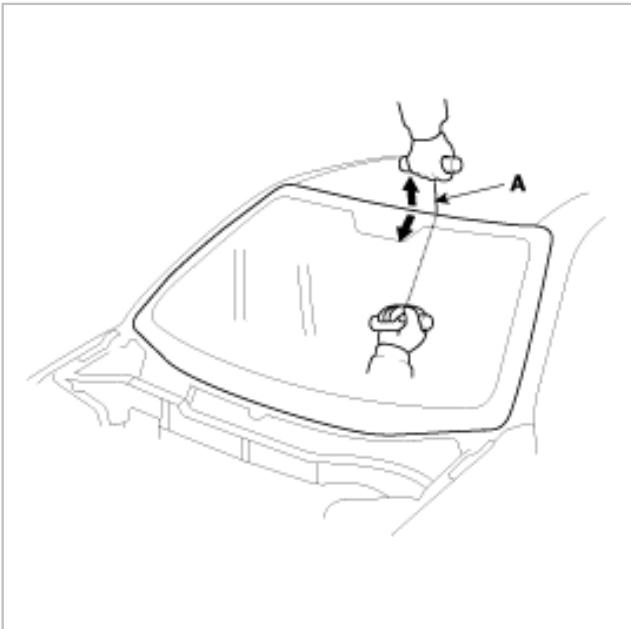


3. Pull down the front portion of the headliner (see page BD- ). Take care not to bend the headliner excessively, or you may crease or break it.

4. Apply protective tape (A) along the edge of the crash pad (B) and body as shown. Using an awl, make a hole through the sealant (C) from inside the vehicle. Push a piece of piano wire (D) through the hole, and wrap each end around a piece of wood.



5. With a helper on the outside, pull the piano wire (A) back and forth in a sawing motion. Hold the piano wire as close to the windshield as possible to prevent damage to the body and dashboard. Carefully cut through the rubber dam and adhesive around the entire windshield.

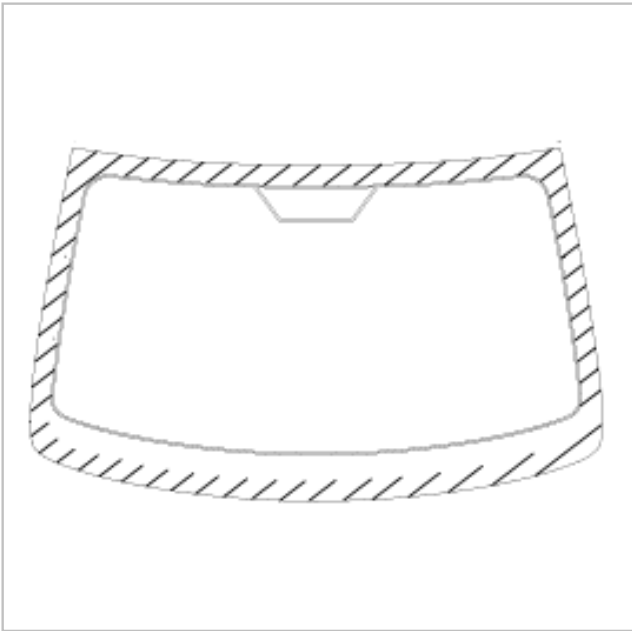


6. Carefully remove the windshield.

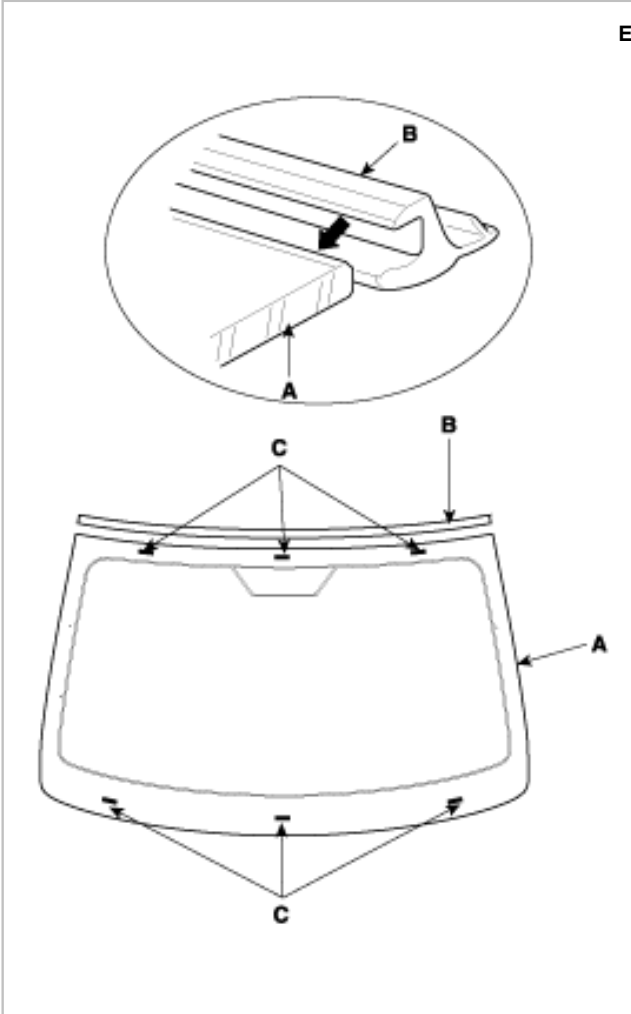
## INSTALLTION

1. With a knife, scrape the old adhesive smooth to a thickness of about 2mm (0.08 in.) on the bonding surface around the entire windshield opening flange:
  - A. Do not scrape down to the painted surface of the body; damaged paint will interfere with proper bonding.
  - B. Remove the rubber dam and fasteners from the body.
  - C. Mask off surrounding surfaces before painting.

2. Clean the body bonding surface with a sponge dampened in alcohol. After cleaning, keep oil, grease and water from getting on the clean surface.
3. If the old windshield is to be reinstalled, use a putty knife to scrape off all of the old adhesive, the fastener, the rubber dam, and the dashboard seal from the windshield. Clean the shaded portion of the windshield with alcohol where new adhesive is to be applied. Make sure the bonding surface is kept free of water, oil and grease.



4. Install the windshield (A) upper molding (B) and fasteners (C). Do not allow any gaps.

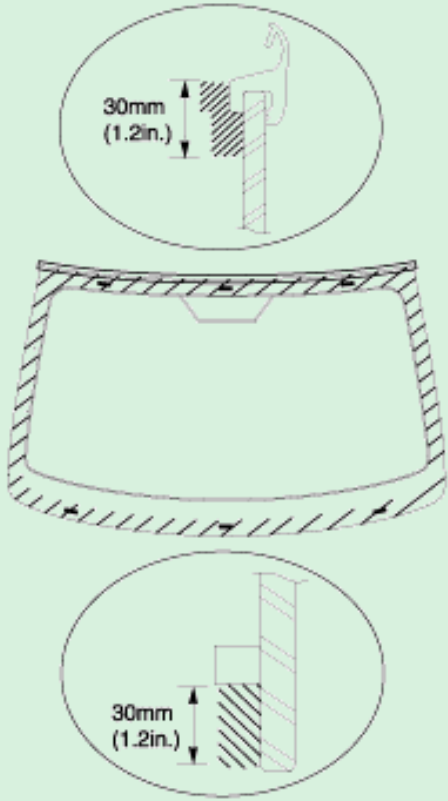


5. Apply a light coat of glass primer to the outside of the fasteners.

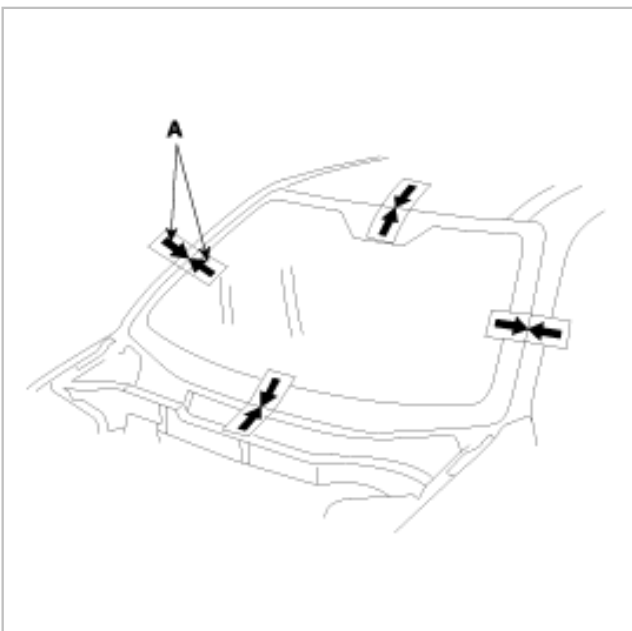
#### NOTE

- Never touch the primed surface with your hand. If you do, the adhesive may not bond to the glass properly, causing a leak after the windshield glass is installed.
- Do not apply body primer to the glass.
- Keep water, dust, and abrasive materials away from the primer.

//// : Apply body primer here.

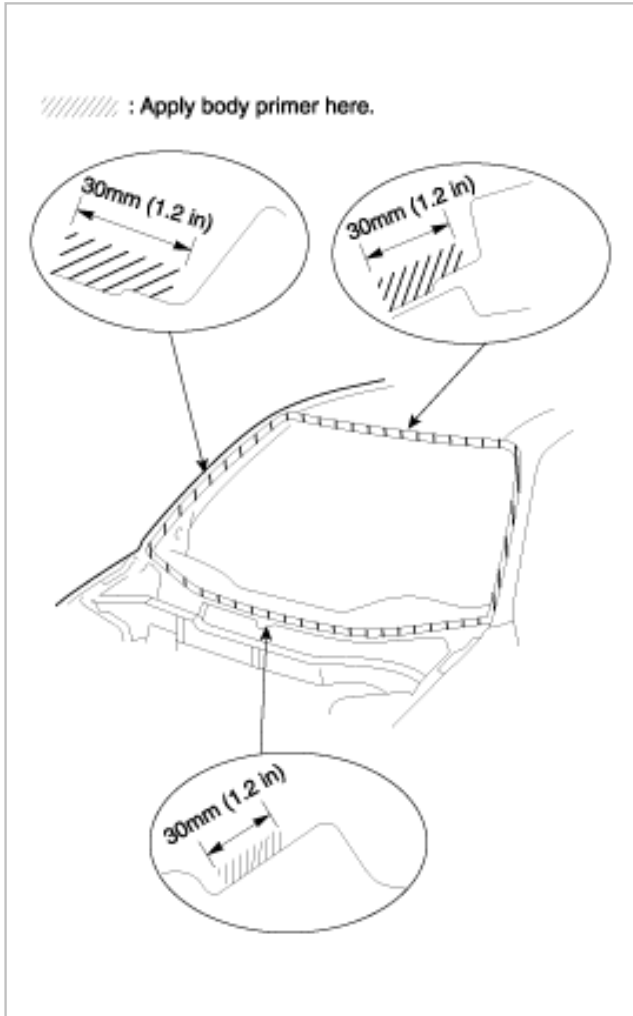


6. Set the windshield in the opening, and center it. Make alignment marks (A) across the windshield and body with a grease pencil at the four points shown. Be careful not to touch the windshield where adhesive will be applied.
7. Remove the windshield.

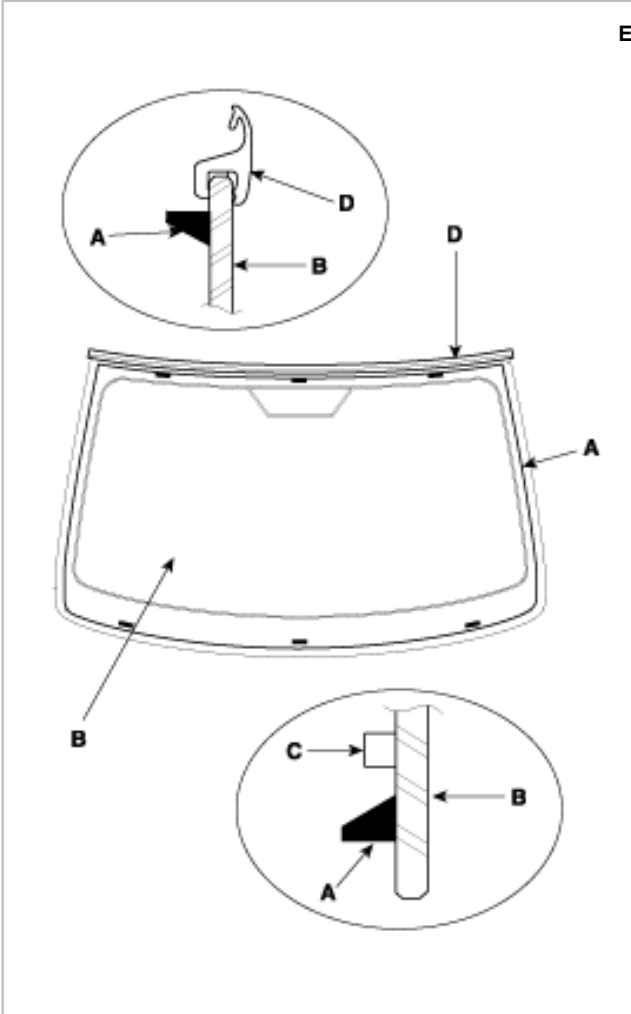




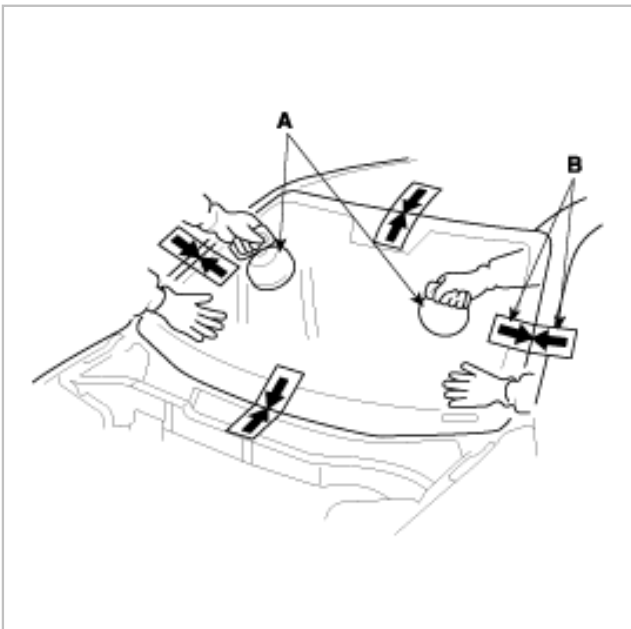
8. With a sponge, apply a light coat of body primer to the original adhesive remaining around the windshield opening flange. Let the body primer dry for at least 10 minutes:
- A. Do not apply glass primer to the body, and be careful not to mix up glass and body primer sponges.
  - B. Never touch the primed surfaces with your hands.
  - C. Mask off the dashboard before painting the flange.



9. Pack adhesive into the cartridge without air pockets to ensure continuous delivery. Put the cartridge in a caulking gun, and run a bead of adhesive (A) around the edge of the windshield (B) between the fastener (C) and molding (D) as shown. Apply the adhesive within 30 minutes after applying the glass primer. Make a slightly thicker bead at each corner



10. Use suction cups (A) to hold the windshield over the opening, align it with the alignment marks (B) made in step 15, and set it down on the adhesive. Lightly push on the windshield until its edges are fully seated on the adhesive all the way around. Do not open or close the doors until the adhesive is dry.



11. Scrape or wipe the excess adhesive off with a putty knife or towel. To remove adhesive from a painted surface or the windshield, wipe with a soft shop towel dampened with alcohol.

12. Let the adhesive dry for at least one hour, then spray water over the windshield and check for leaks. Make leaking areas, and let the windshield dry, then seal with sealant:

A. Let the vehicle stand for at least four hours after windshield installation. If the vehicle has to be used within the first four, it must be driven slowly.

B. Keep the windshield dry for the first hour after installation.

13. Reinstall all remaining removed parts. Install the rearview mirror after the adhesive has dried thoroughly.

Advise the customer not to do the following things for two the three days:

A. Slam the door with all the windows rolled up.

B. Twist the body excessively (such as when going in and out of driveways at an angle or driving over rough, uneven roads).