



Body (Interior and Exterior)

General Information



Description and operation

Assist handles

There are three assist handles on CARENS. They can also be used to hand objects such as clothes on hangers. They are removable, replaceable items.



General

Bumper

Problem	Possible cause	Action
Front face damaged	Accident	Replace
Energy absorbing foam damaged or deteriorated	Accident or exposure	Replace
Reinforcement damaged	Accident	Replace
Brackets or stays damaged	Accident	Repair or replace
Missing attaching hardware	Accident or vibration	Replace

Seat belts

Problem	Possible cause	Action
Buckle release does not release reliably	Faulty spring or dirt in mechanism	Replace buckle assembly
Buckle release does not depress	Jammed mechanism	Replace buckle assembly
Buckle release button does not return to normal position	Jammed mechanism	Replace buckle assembly
Webbing is frayed	Caught in door	Replace retractor assembly
Stitching is loose	Wear or accident	Replace retractor assembly
Belt retracts part-way	Faulty spring	Replace retractor assembly
Belt does not extend completely	Faulty mechanism	Replace retractor assembly
Belt does not retract	Wear or accident	Replace retractor assembly
Belt does not extend	Faulty mechanism	Replace retractor assembly
Buckle assembly is loose	Vibration or accident	Tighten to specified torque
Retractor assembly is loose	Vibration or accident	Tighten to specified torque
Anchor assembly is loose	Vibration or accident	Tighten to specified torque
Driver's seat belt is fastened but reminder lamp and chime either do not actuate or fail to deactivate	Cable harness, computer module, or indicator light	Isolate fault with continuity tester. If test fails, repair or replace cable. If test does not fail, replace electronic time control module.



Tightening specifications

Description		Tightening torque
Item		
Bumper	Front bumper mounting bolts	23~34 lb-ft (31~46 N-m, 3.2~4.7 kg-m)
	Rear bumper mounting bolts	23~34 lb-ft (31~46 N-m, 3.2~4.7 kg-m)
Door	Door checker bolts (Door side)	7~9 lb-ft (9~13 N-m, 0.9~1.3 kg-m)
	Door checker mounting bolts (Body side)	16~20 lb-ft (22~27 N-m, 2.2~2.8 k-m)
	Door hinge mounting bolts (Door side)	7~14 lb-ft (10~20 N-m, 1.0~2.0 kg-m)
	Door hinge setting bolts (Body side)	13~22 lb-ft (18~29 N-m, 1.8~3.0 kg-m)
	Door lock assembly mounting screws	3~5 lb-ft (4~6 N-m, 0.43~0.63 kg-m)
	Door striker mounting screws	13~20 lb-ft (18~26 N-m, 1.8~2.7 kg-m)
	Glass guide mounting bolts	5~7 lb-ft (7~10 N-m, 0.7~1.0 kg-m)
	Glass guide mounting nuts	1~2 lb-ft (2~3 N-m, 0.2~0.3 kg-m)
	Regulator assembly mounting nuts/bolts	5~7 lb-ft (7~10 N-m, 0.7~1.0 kg-m)
Door (Rear hatch)	Door lock assembly mounting screws	12~16 lb-ft (16~22 N-m, 1.6~2.2 kg-m)
	Door striker mounting screws	12~16 lb-ft (16~22 N-m, 1.6~2.2 kg-m)
	Hinge mounting bolts	12~17 lb-ft (16~24 N-m, 1.6~2.4 kg-m)
	Stay damper mounting bolts	12~16 lb-ft (16~22 N-m, 1.6~2.2 kg-m)
Hood	Hinge mounting bolts	14~19 lb-ft (19~26 N-m, 1.9~2.6 kg-m)
	Hood lock assembly bolt/nut	6~8 lb-ft (8~11 N-m, 0.8~1.1 kg-m)
Instrument panel	Instrument panel mounting bolts (Center)	14~19 lb-ft (19~26 N-m, 1.9~2.6 kg-m)
	Instrument panel mounting bolts (LH/RH)	14~19 lb-ft (19~26 N-m, 1.9~2.6 kg-m)
Outside rearview mirror	Mirror mounting screws	2~3 lb-ft (2~4 N-m, 0.25~0.36 kg-m)
Seat	Seat mounting bolts/nuts	25~41 lb-ft (34~56 N-m, 3.5~5.7 kg-m)
Seat belt	Seatbelt mounting bolts	40~47 lb-ft (54~64 N-m, 5.5~6.5 kg-m)
Windshield wiper washer system	Washer tank mounting bolts	5~7 lb-ft (7~10 N-m, 0.7~1.0 kg-m)
	Wiper arm mounting nuts	17~20 lb-ft (23~26 N-m, 2.3~2.7 k-m)
	Wiper link mounting nuts	5~7 lb-ft (7~10 N-m, 0.7~1.0 kg-m)
	Wiper motor mounting bolts	5~7 lb-ft (7~10 N-m, 0.7~1.0 kg-m)

General specifications

Description		Specification
Item		
Roof rack	Approved load	75 kgf



Body (Interior and Exterior)

Body Dimension



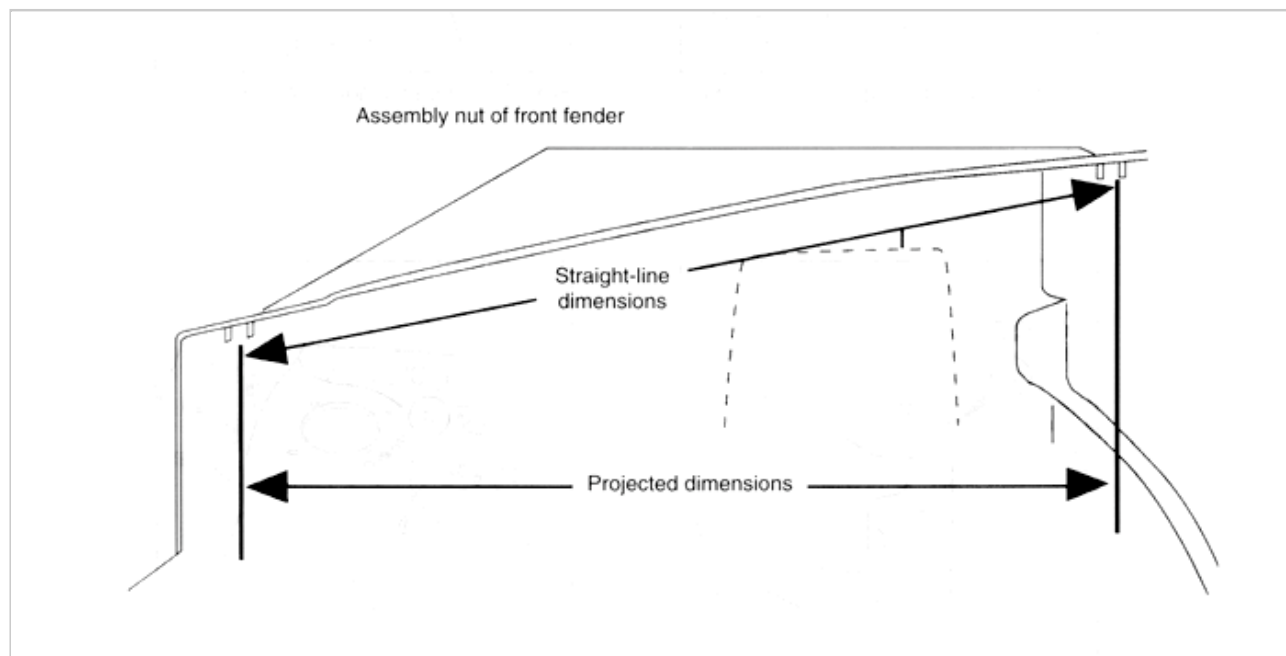
Body dimensions

Projected dimensions

The projected dimension indicates a dimension from a reference point on the body. (Height may be different in some cases)

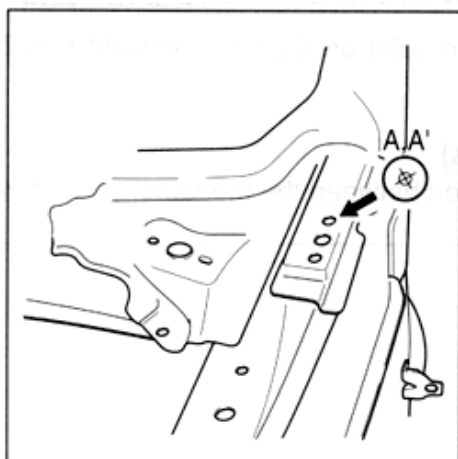
Straight-line dimensions (Actual measured dimensions)

The straight-line dimension indicates an actual measured dimension between the measurement reference points.

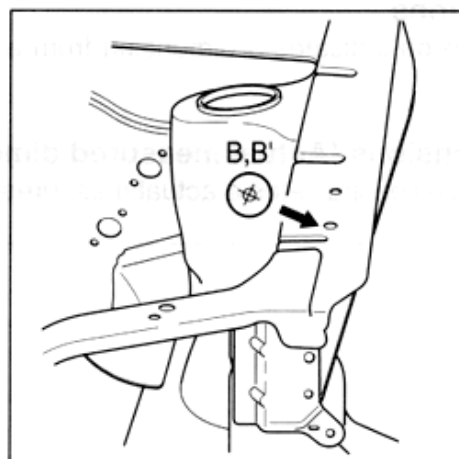


Straight-line dimensions

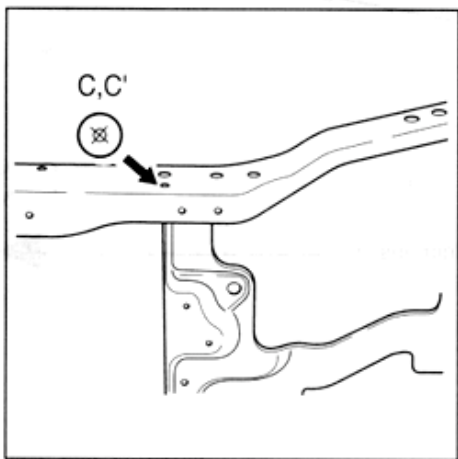
Front body



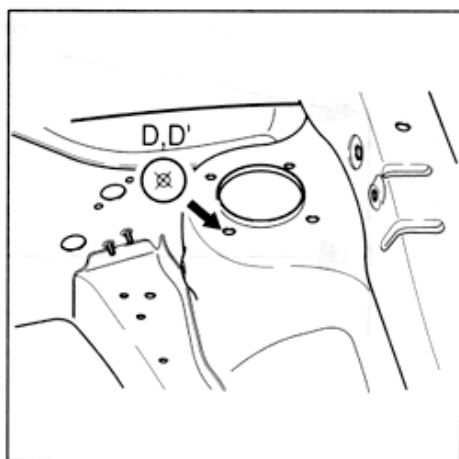
Hood hinge mounting hole $\phi 10$



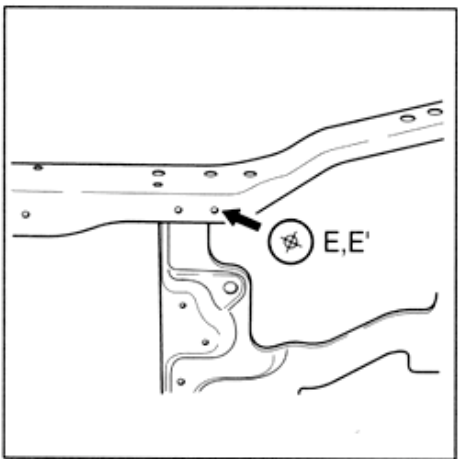
Front fender panel mounting hole $\phi 7$



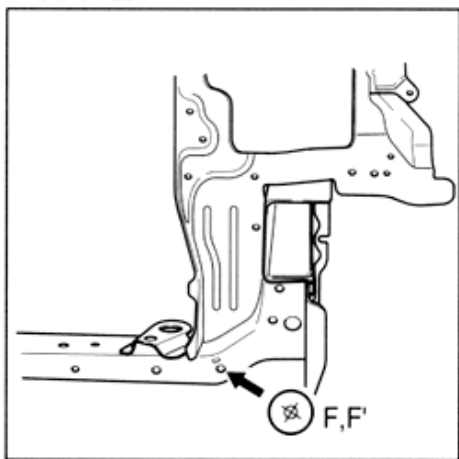
Radiator bracket mounting hole $\phi 6$



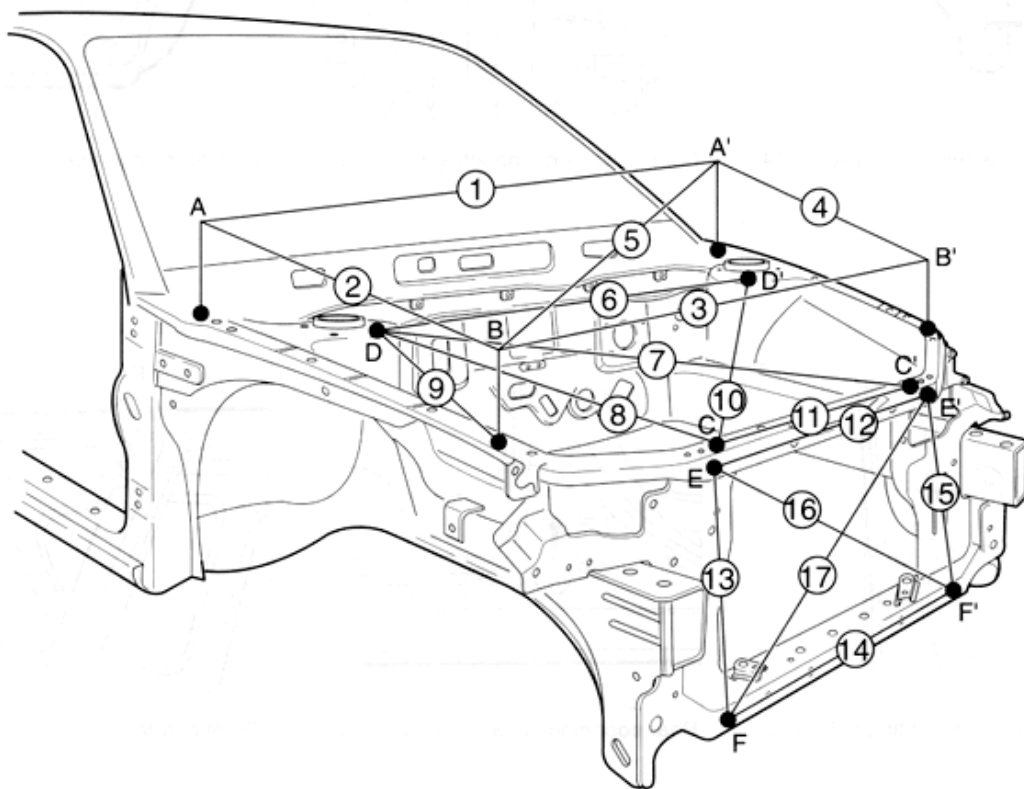
Front suspension mounting hole $\phi 11$



Headlight mounting hole $\phi 9.8$

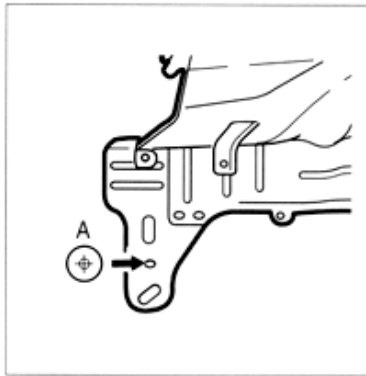


Front bumper bracket mounting hole $\phi 10$

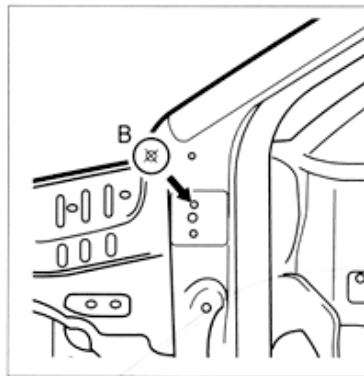


No.	1	2	3	4	5	6	7	8	9
Dimension (mm)	1445	655	1366	655	1554	1031	1043	644	424
No.	10	11	12	13	14	15	16	17	
Dimension (mm)	1043	653	750	504	800	504	924	924	

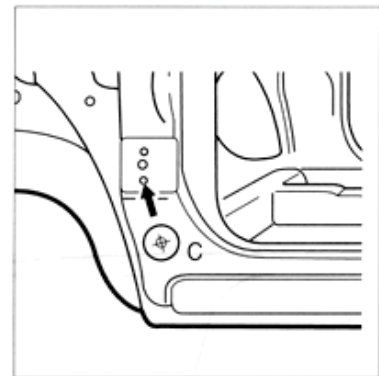
Side frame panel



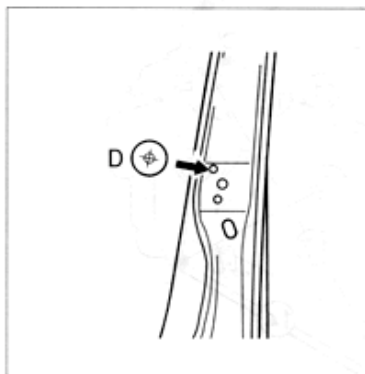
Tie-down hook reference hole $\varnothing 14$



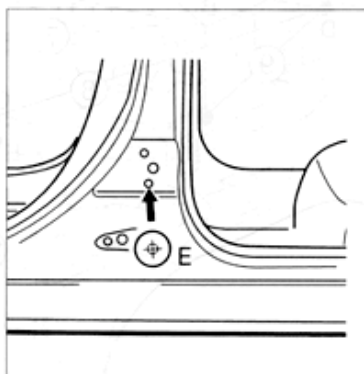
Front door hinge mounting hole $\varnothing 12$



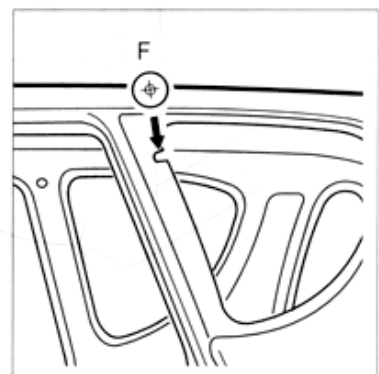
Front door hinge mounting hole $\varnothing 12$



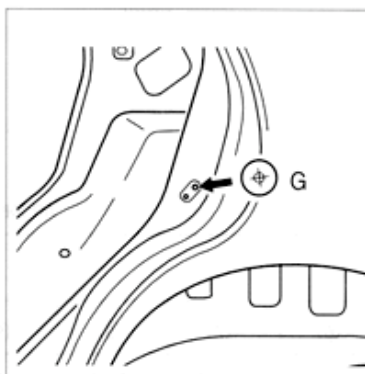
Rear door hinge mounting hole $\varnothing 12$



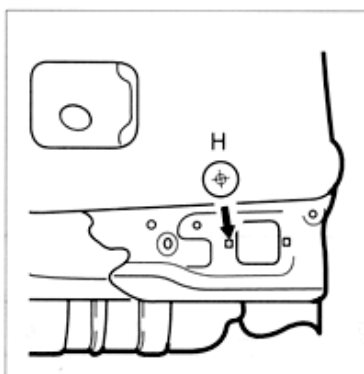
Rear door hinge mounting hole $\varnothing 12$



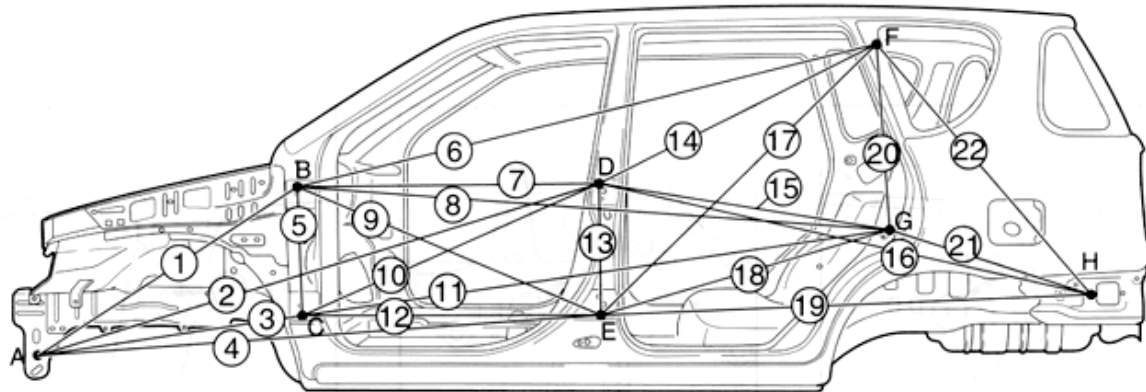
Front quarter glass mounting hole



Door switch mounting hole $\varnothing 14$

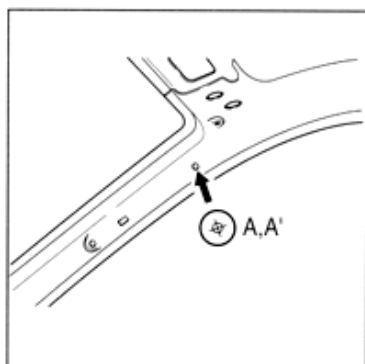


□ 6.7X6.7

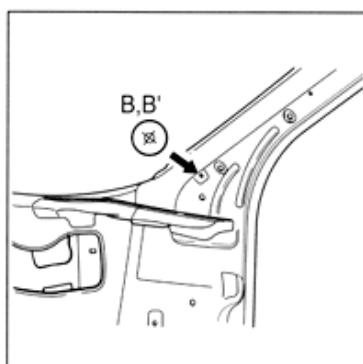


No.	1	2	3	4	5	6	7	8	9	10	11
Dimension (mm)	1200	2165	1081	2090	385	2055	1030	1999	1089	1112	2014
No.	12	13	14	15	16	17	18	19	20	21	22
Dimension (mm)	1026	400	1089	977	1674	1332	1003	1641	680	704	1131

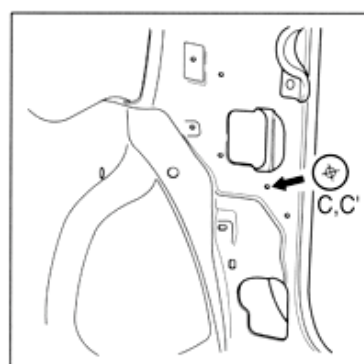
Interior A



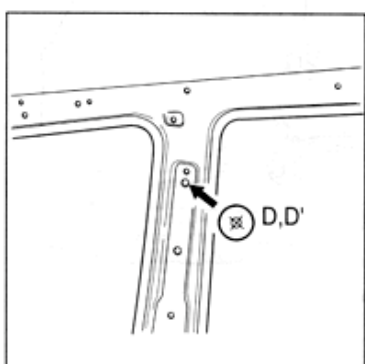
A pillar trim mounting hole ø8.4



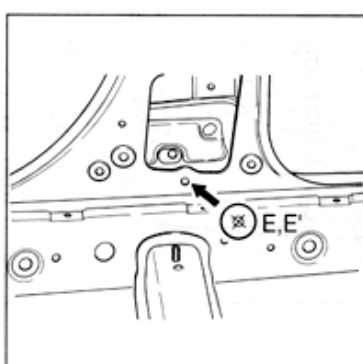
Wiring harness mounting hole ø4.7



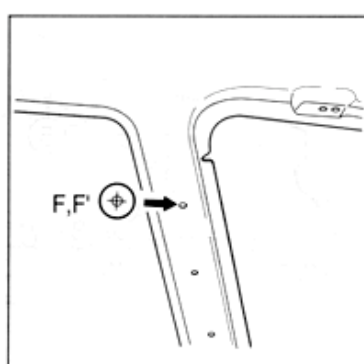
Wiring harness mounting hole ø7



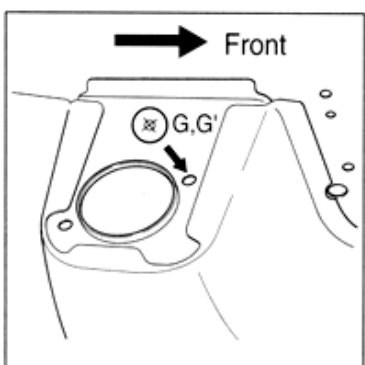
Seat belt anchor mounting hole ø18



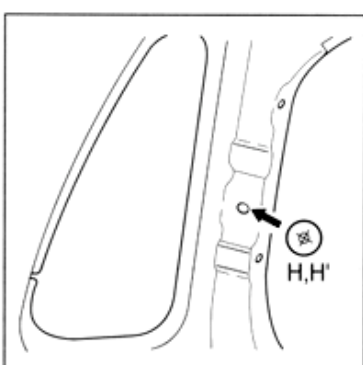
Seat belt retractor mounting hole ø16



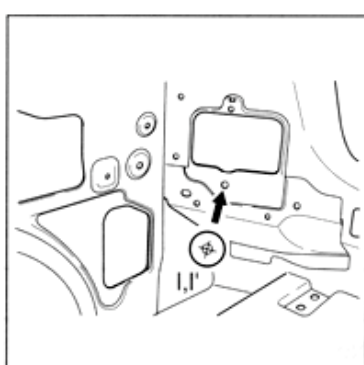
Seat belt anchor mounting hole ø16



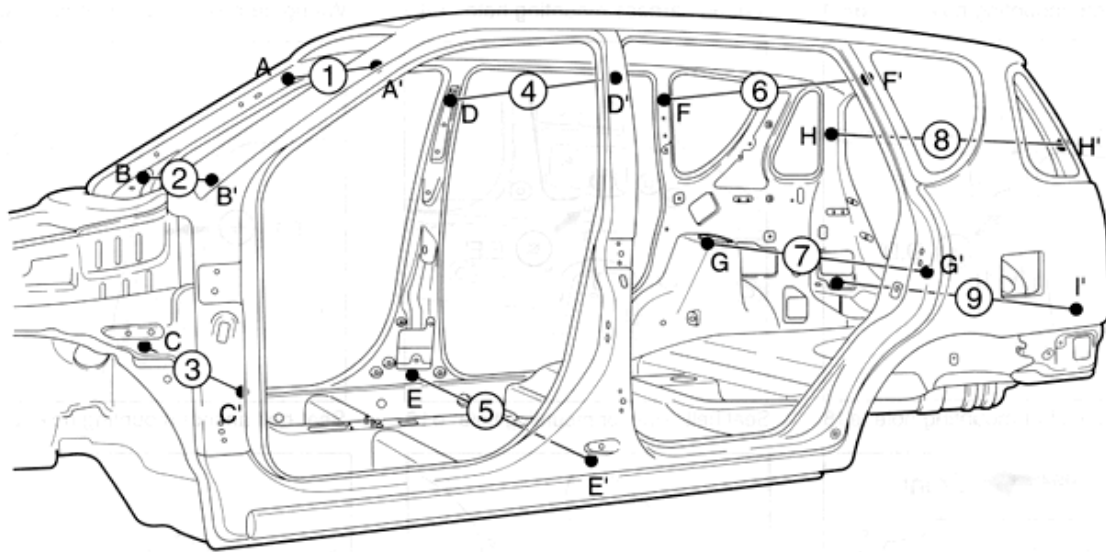
Rear suspension mounting hole ø12



Seat belt anchor mounting hole ø16

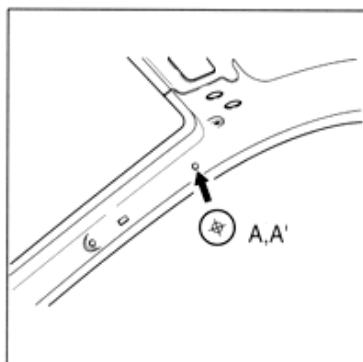


Seat belt retractor mounting hole ø20

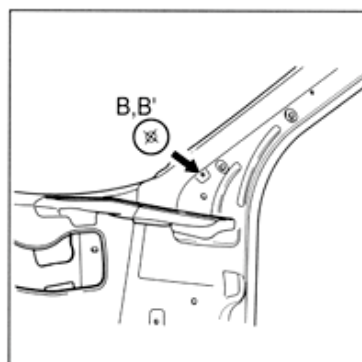


No.	1	2	3	4	5	6	7	8	9
Dimension (mm)	1162	1376	1375	1182	1385	1178	1182	1131	1207

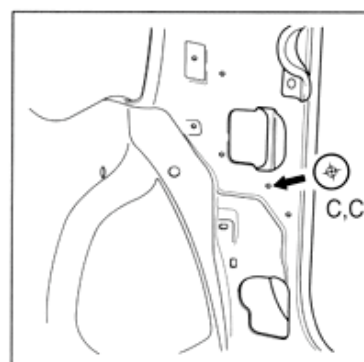
Interior B (RH)



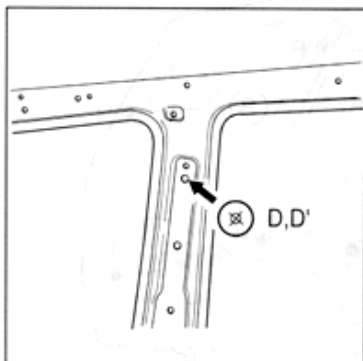
A pillar trim mounting hole $\varnothing 8.4$



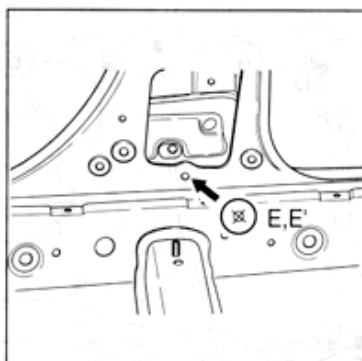
Wiring harness mounting hole $\varnothing 4.7$



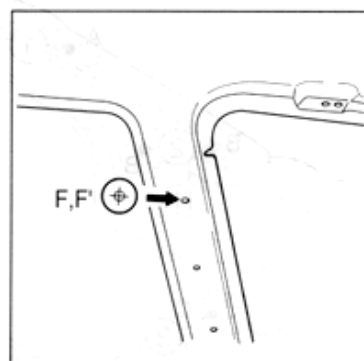
Wiring harness mounting hole $\varnothing 7$



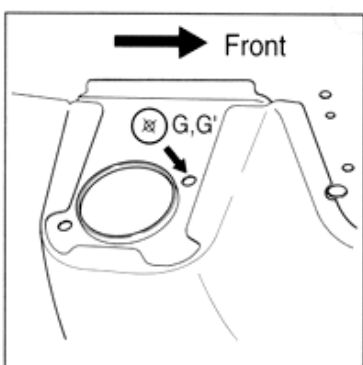
Seat belt anchor mounting hole $\varnothing 18$



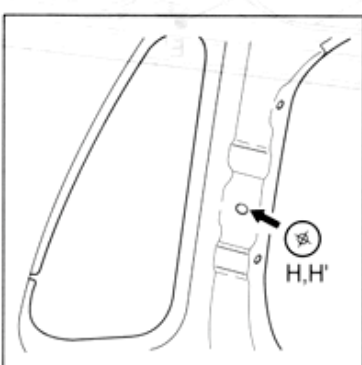
Seat belt retractor mounting hole $\varnothing 16$



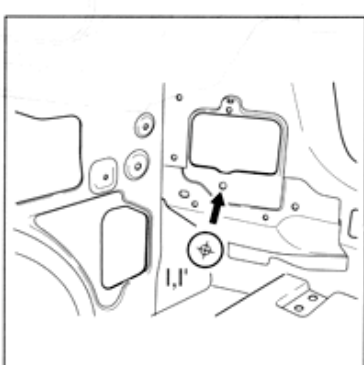
Seat belt anchor mounting hole $\varnothing 16$



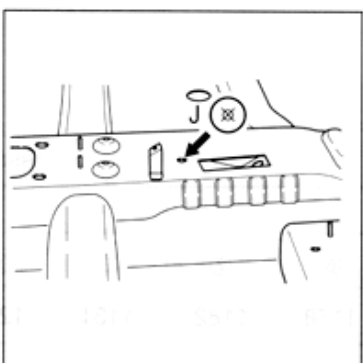
Rear suspension mounting hole $\varnothing 12$



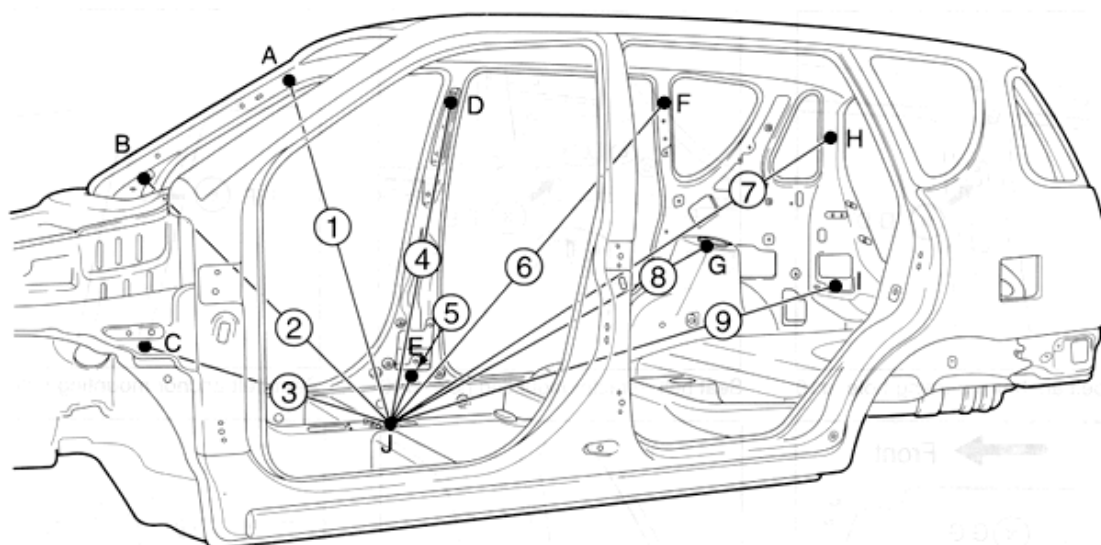
Seat belt anchor mounting hole $\varnothing 16$



Seat belt retractor mounting hole $\varnothing 20$

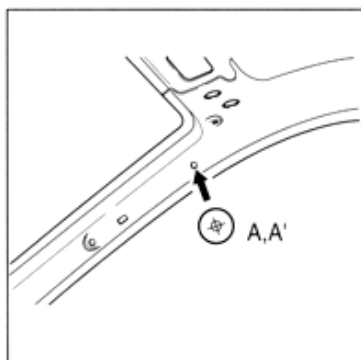


Parking brake lever mounting hole $\varnothing 12$

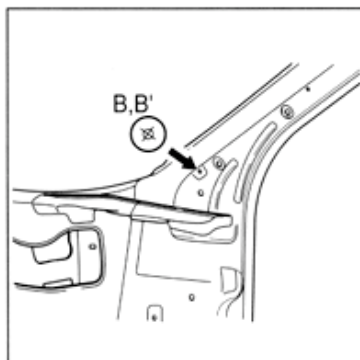


No.	1	2	3	4	5	6	7	8	9
Dimension (mm)	1212	1255	1046	1227	738	1663	1583	2227	2121

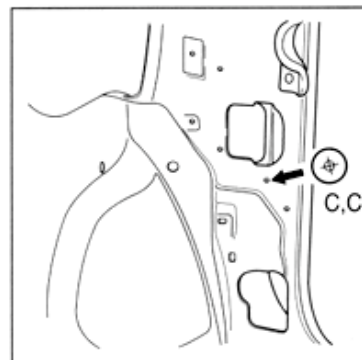
Interior B (LH)



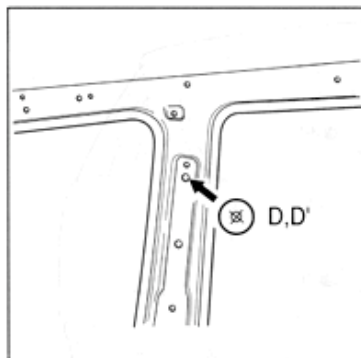
A pillar trim mounting hole $\varnothing 8.4$



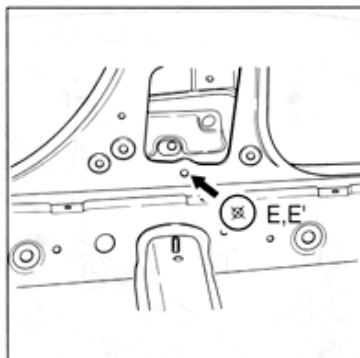
Wiring harness mounting hole $\varnothing 4.7$



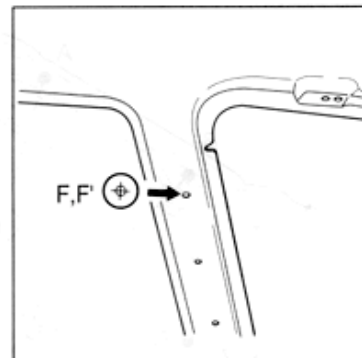
Wiring harness mounting hole $\varnothing 7$



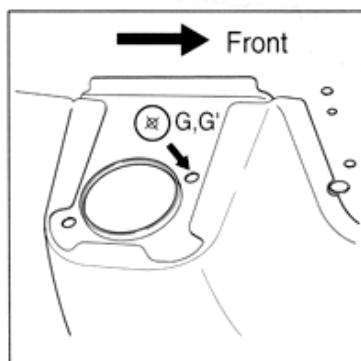
Seat belt anchor mounting hole $\varnothing 18$



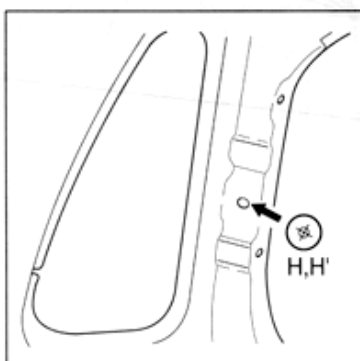
Seat belt retractor mounting hole $\varnothing 16$



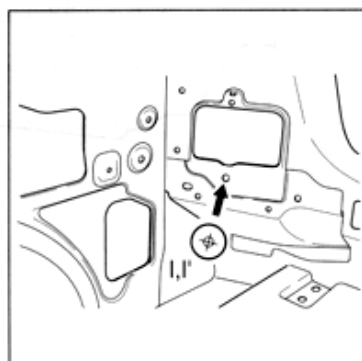
Seat belt anchor mounting hole $\varnothing 16$



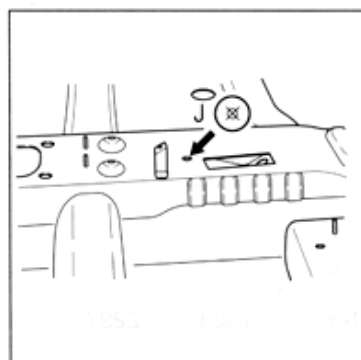
Rear suspension mounting hole $\varnothing 12$



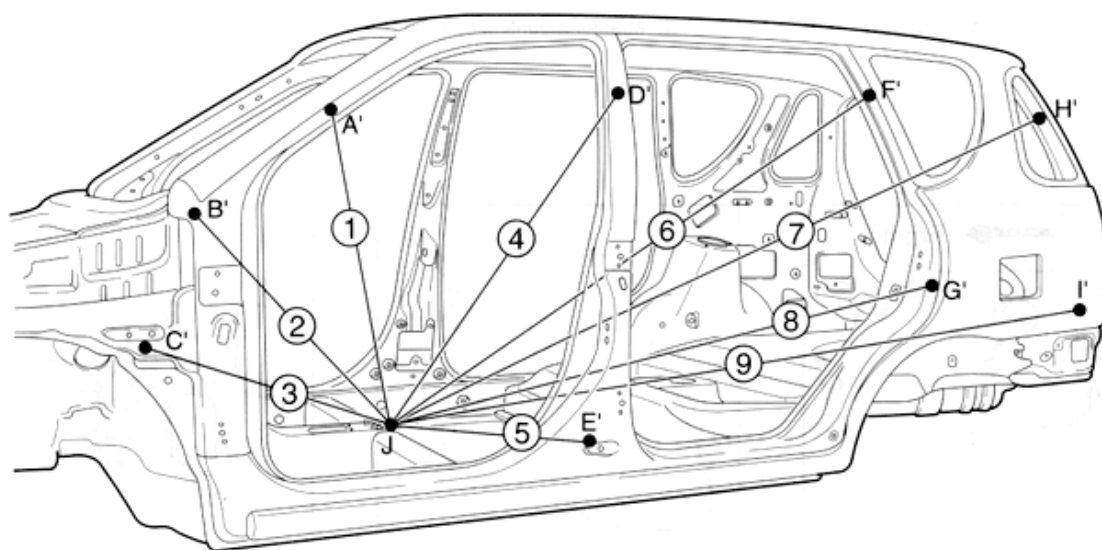
Seat belt anchor mounting hole $\varnothing 16$



Seat belt retractor mounting hole $\varnothing 20$

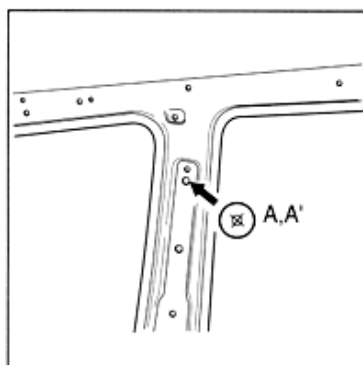


Parking brake lever mounting hole $\varnothing 12$

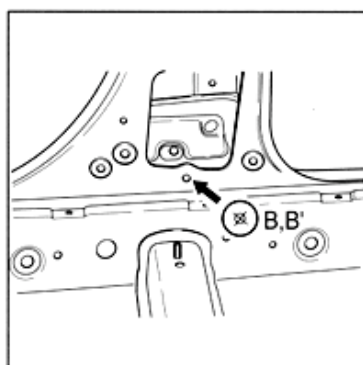


No.	1	2	3	4	5	6	7	8	9
Dimension (mm)	1197	1239	1026	1213	709	1653	1572	2219	2113

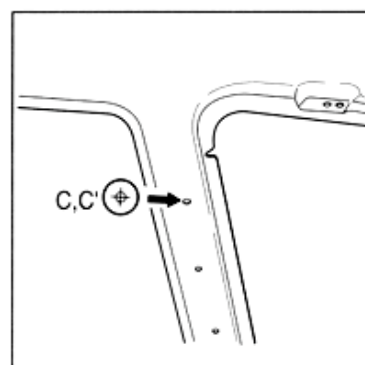
Interior C



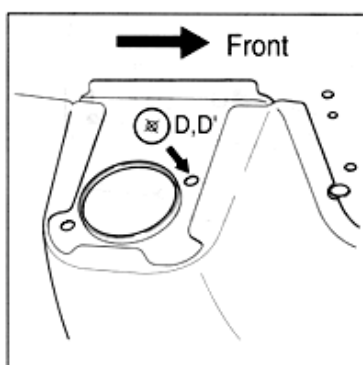
Seat belt anchor mounting hole $\varnothing 18$



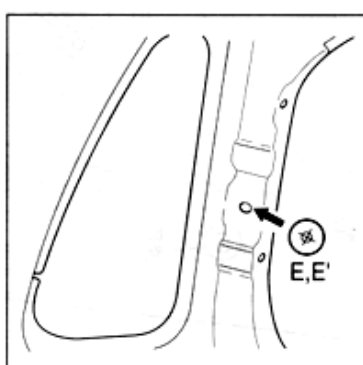
Seat belt retractor mounting hole $\varnothing 16$



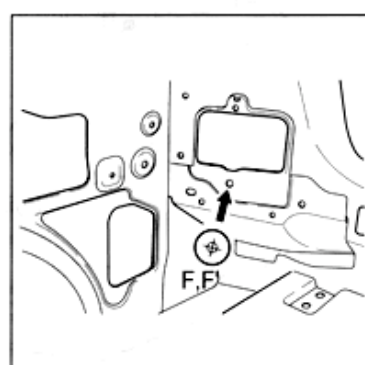
Seat belt anchor mounting hole $\varnothing 16$



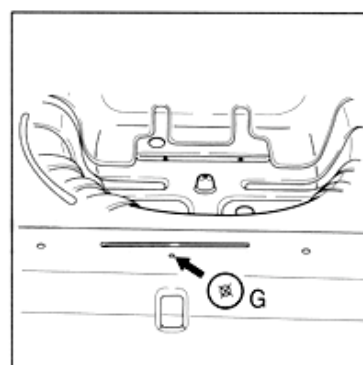
Rear suspension mounting hole $\varnothing 12$



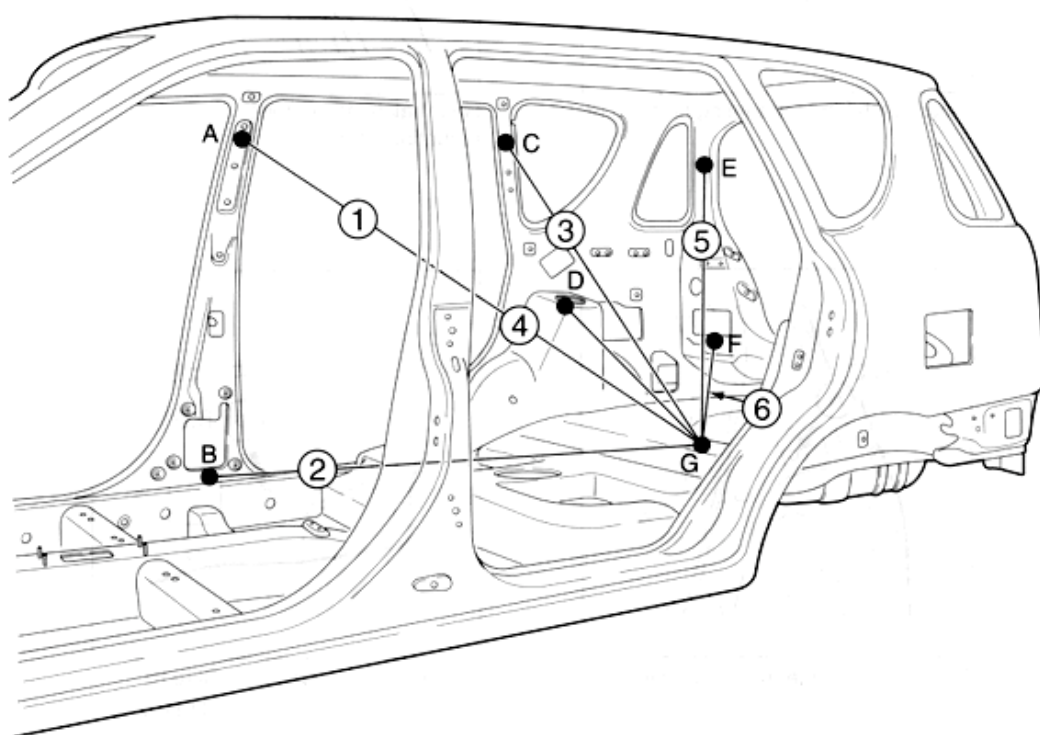
Seat belt anchor mounting hole $\varnothing 16$



Seat belt retractor mounting hole $\varnothing 20$

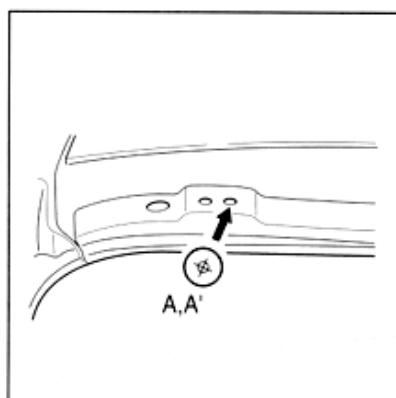


Floor mat mounting hole $\varnothing 6$

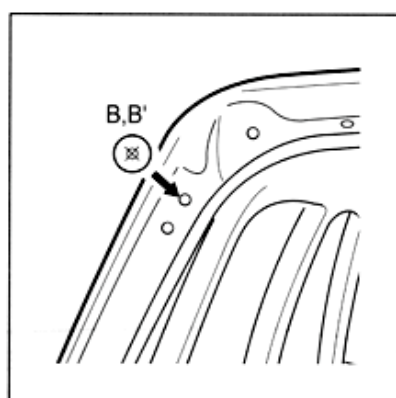


No.	1	2	3	4	5	6			
Dimension (mm)	1445	1299	1062	698	1157	945			

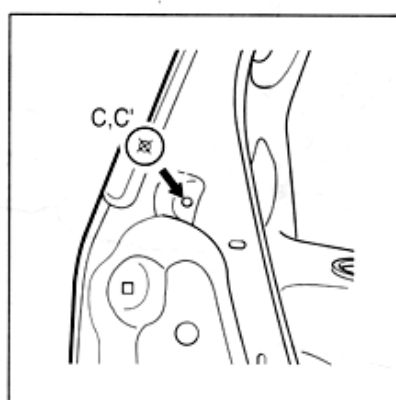
Rear body



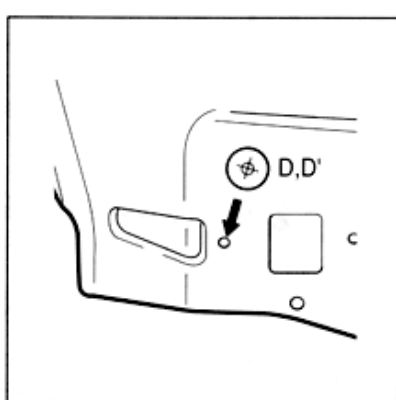
Rear hatch hinge mounting hole $\varnothing 12$



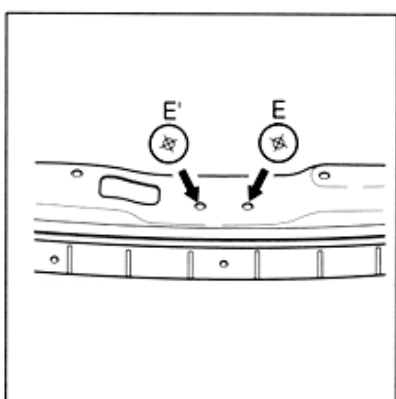
Rear hatch stay damper mounting hole $\varnothing 12$



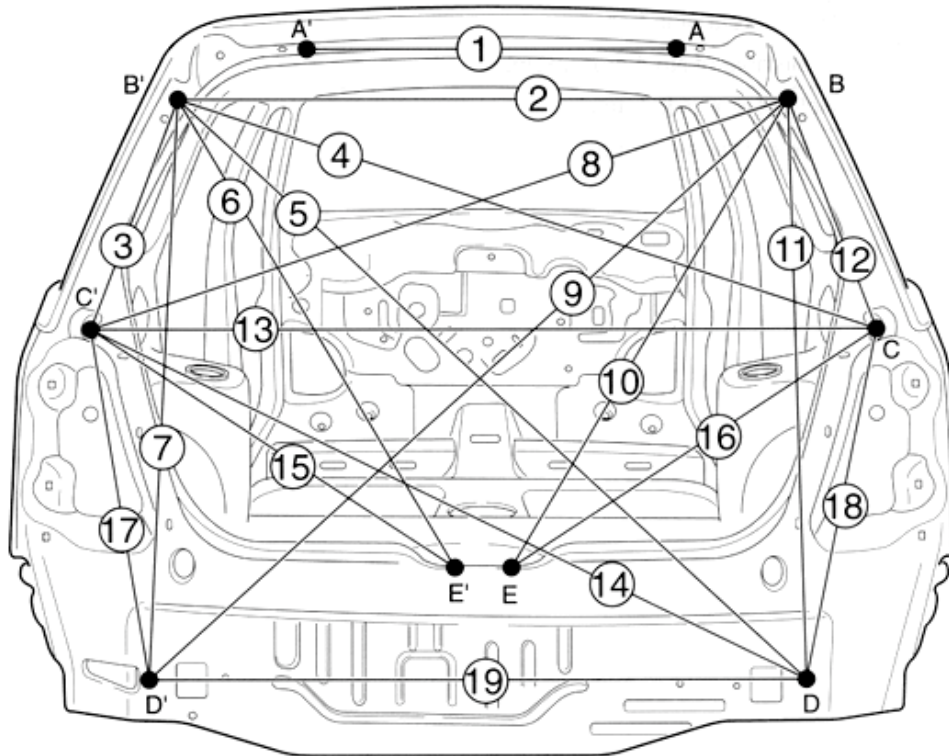
Rear hatch wedge mounting hole $\varnothing 8$



Rear bumper guide hole RH $\varnothing 10$
LH $\varnothing 10 \times 12$



Rear hatch striker mounting hole $\varnothing 12$

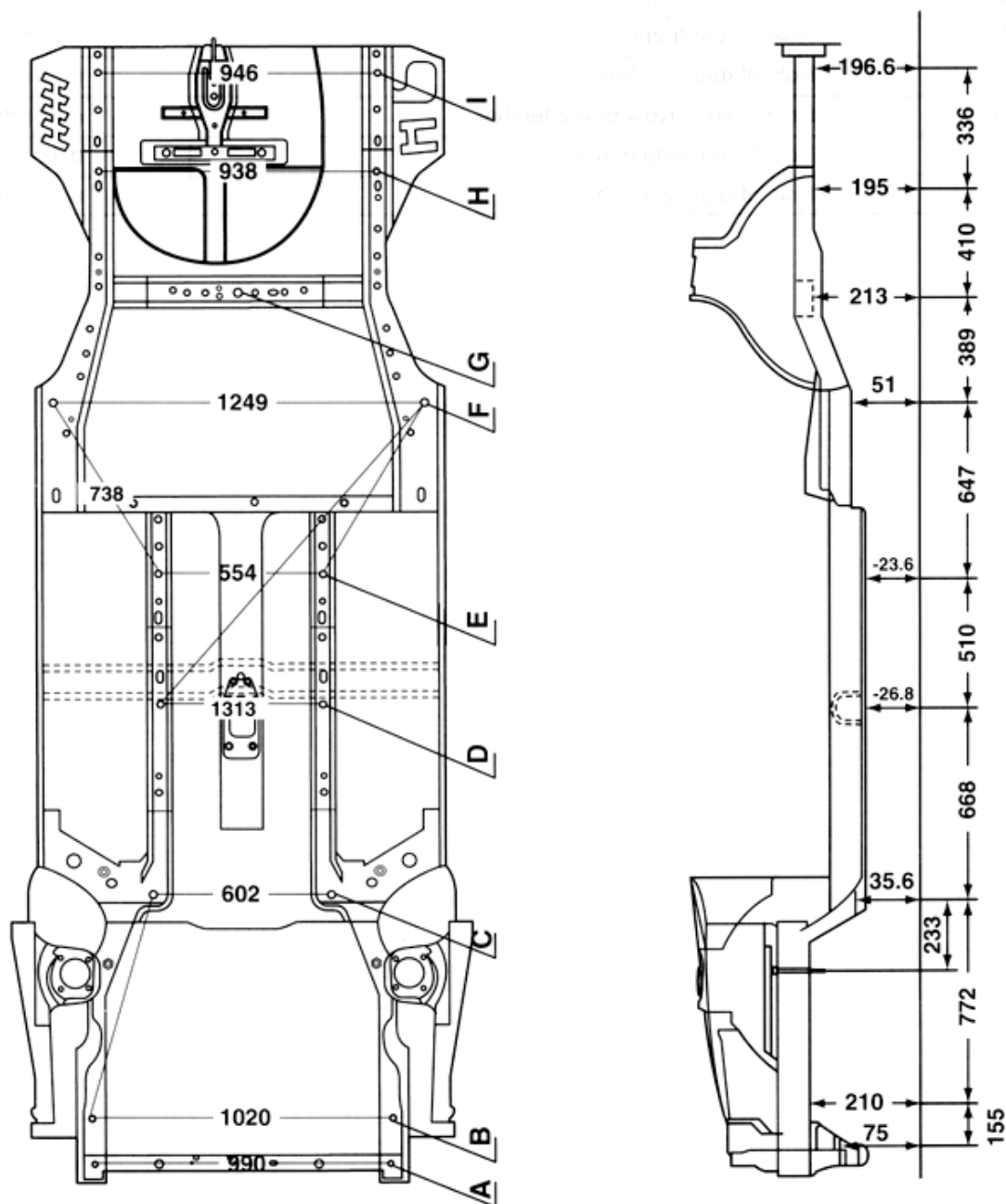


No.	1	2	3	4	5	6	7	8	9	10
Dimension (mm)	575	1052	408	1220	1447	929	979	1220	1447	929
No.	11	12	13	14	15	16	17	18	19	
Dimension (mm)	979	408	1257	1310	718	718	599	599	1080	

Under body dimensions

Projected dimensions

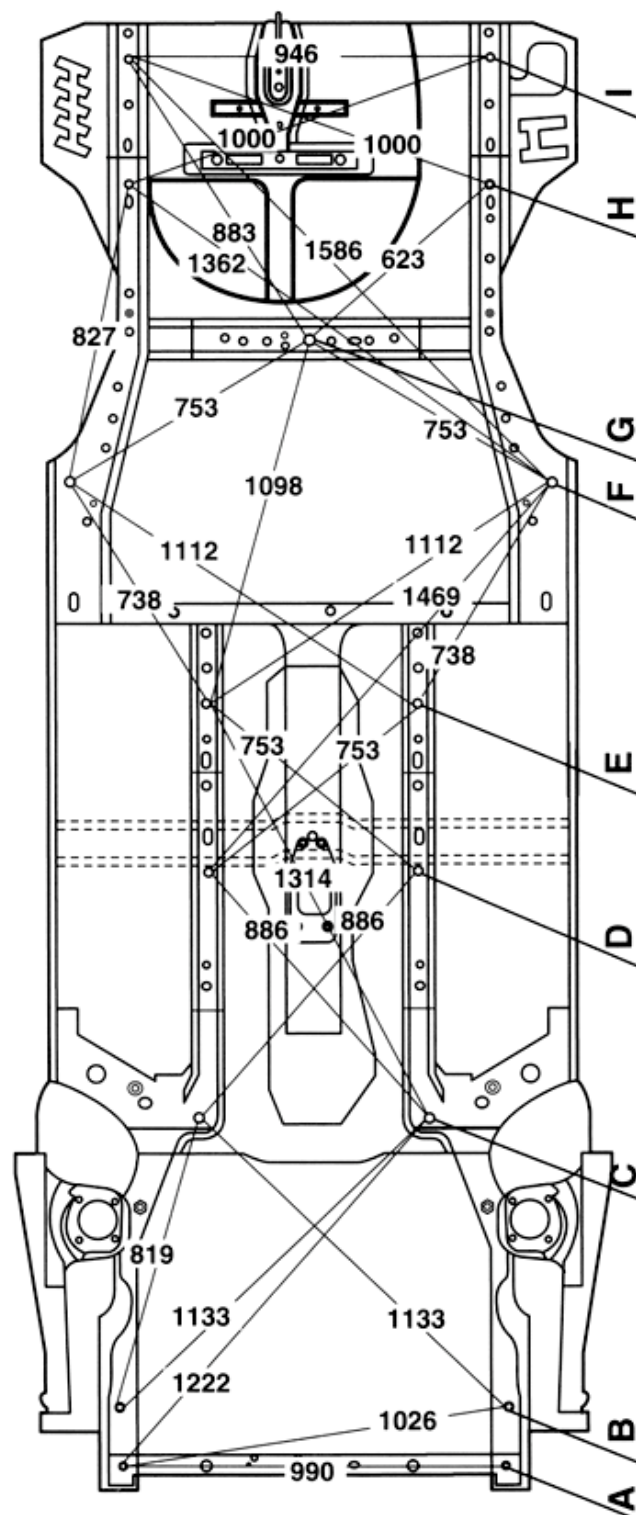
Measurement Points	Description	Size of hole
A	Under cover mounting hole of No.1 crossmember	Ø 9.8 mm
B	Inner hole of front frame	Ø 16 mm
C	Sub frame mounting hole of torque box	Ø 14 mm
D	Hole of rear frme	Ø 20 mm
E	Hole of rear frame	Ø 20 mm
F	Hole of rear side frame	Ø 25 mm
G	Drain hole of No.4 crossmember	Ø 28 mm
H	Hole of rear side frame	Ø 16 mm
I	Hole of rear side frame	Ø 18 mm



Straight-line dimensions

Measurement Points	Description	Size of hole
A	Under cover mounting hole of No.1 crossmember	Ø 9.8 mm
B	Inner hole of front frame	Ø 16 mm
C	Sub frame mounting hole of torque box	Ø 14 mm
D	Hole of rear frme	Ø 20 mm
E	Hole of rear frame	Ø 20 mm
F	Hole of rear side frame	Ø 25 mm

G	Drain hole of No.4 crossmember	Ø 28 mm
H	Hole of rear side frame	Ø 16 mm
I	Hole of rear side frame	Ø 18 mm



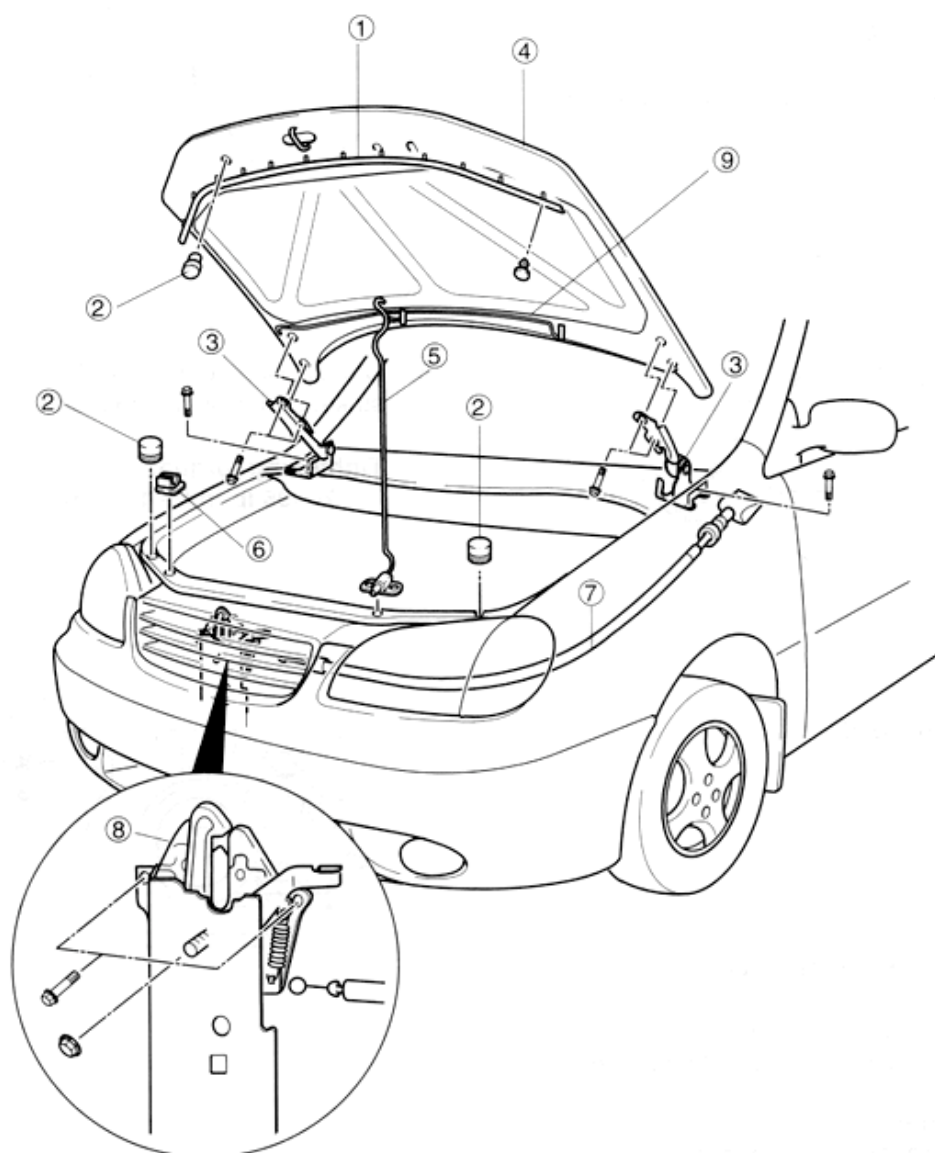


Body (Interior and Exterior)

Exterior - Hood



Component



- (1) Deflector weatherstrip
- (2) Cushion rubber
- (3) Hood hinge
- (4) Hood
- (5) Hood stay

- (6) Hood stay holder
- (7) Release cable
- (8) Hood lock
- (9) Washer hose



Removal

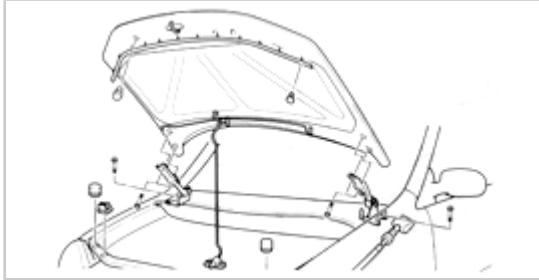
Hood

1. Raise hood and support with prop.
2. Support hood so it will not fall when hinges are removed.

NOTICE

Have an assistant help remove hood.

3. Remove hinges from hood by removing four bolts.



4. Remove prop from hood.
5. Remove hood.

Removal

Hood release cable

1. Remove hood release handle. Refer to "Hood Release Handle" in this section.
2. Remove nut holding hood release cable in place at LH side of instrument panel.
3. Peep hood release cable through bulkhead.
4. Release clips holding hood release cable in place along top portion of engine compartment.
5. Remove hood release cable from position along left top portion of engine compartment.
6. Remove end of hood release cable from hood release on front portion of engine compartment.
7. Repair or replace hood release cable as necessary.



Removal

Hood release handle

1. Remove hood release handle locknut.
2. Remove hood release handle.

Installation

Hood

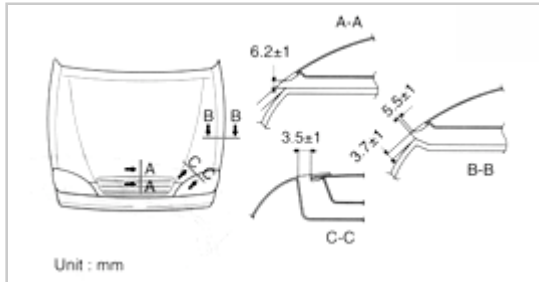
NOTICE

Have an assistant help install hood.

1. Install in reverse order of removal.
2. Tighten four hinge bolts to just over finger-tight.

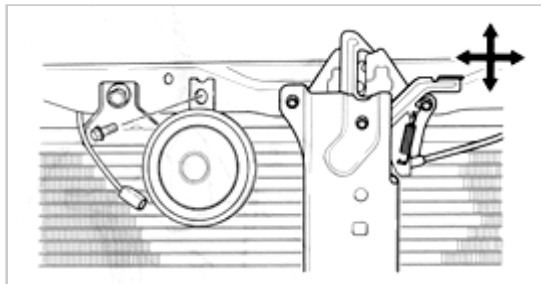
Tightening torque : 14~19 lb-ft (19~26 N-m, 1.9~2.6 kg-m)

3. Lower and lock hood.
4. Check fit and adjust as required in accordance with illustrated specifications.



5. Check alignment of locking mechanism and hood striker and align as required.

Tightening torque : 70~95 lb-in (8~11 N-m, 80~110 kg-cm)



Installation

Hood release cable

1. Install hood release cable from position along left top portion of engine compartment.
2. Route and clip hood release cable along pathway from hood release to bulkhead.
3. Feed hood release cable through bulkhead into interior of vehicle.
4. Install mounting nut to secure hood release cable to instrument panel.
5. Install hood release handle. Refer to "Hood Release Handle" in this section.

Installation

Hood release handle

1. Install hood release handle.
2. Install hood release handle locknut.



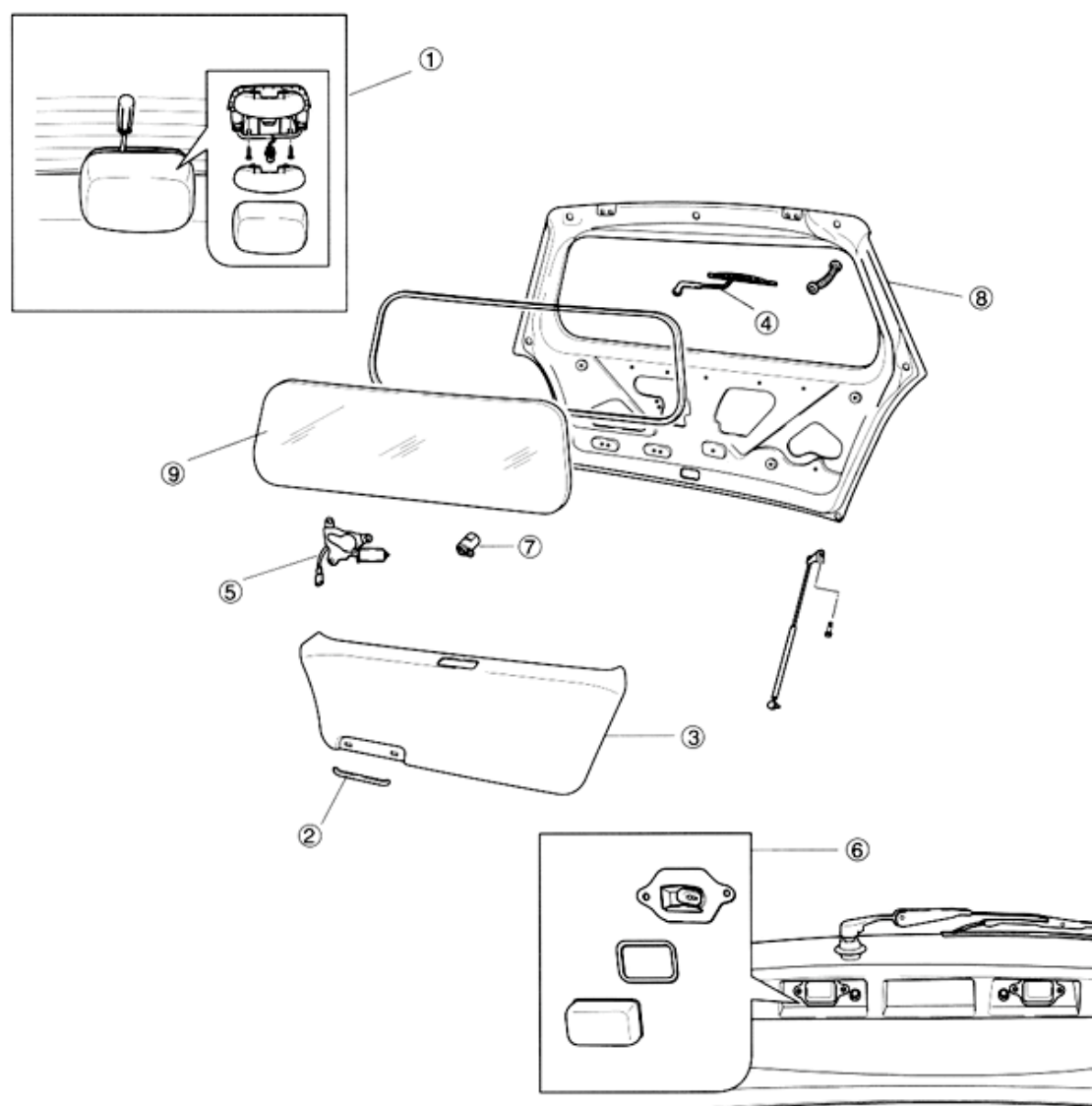
Body (Interior and Exterior)

Exterior - Trunk Lid



Component

Rear hatch



- (1) High-mounted brake light assembly
- (2) Assist handle
- (3) Rear hatch trim
- (4) Rear wiper arm & blade
- (5) Rear wiper motor

- (6) License plate light
- (7) key cylinder assembly
- (8) Rear hatch frame
- (9) Back window glass

The rear hatch is attached to the body by two pin-type hinges riveted to the body and bolted to the hatch. A damper stay on either side of the hatch provides an assist in raising the hatch and fully supports it when it is open. A latch at the center-bottom of the opening secures the hatch in the closed position.

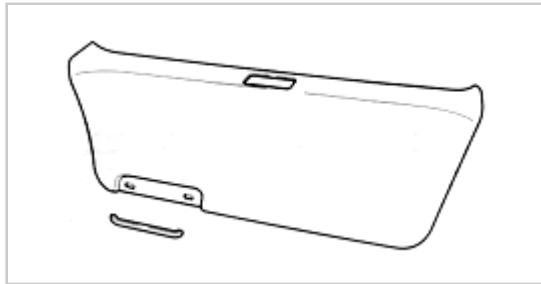
Weatherstripping on the hatch jamb flange prevents leaks between the door and the body. The hatch is fully adjustable.



Removal

Rear hatch

1. Disconnect battery.
2. Raise the rear hatch.
3. Remove the cover from the rear hatch high-mounted stop light.
4. Disconnect the high-mounted stop light.
5. Remove two bolts from high-mounted stop light assembly.
6. Remove two screws from assist handle.
7. Remove assist handle.
8. Remove rear hatch trim.



9. Disconnect control rod of key set.
10. Remove key set.
11. Remove two bolts from rear hatch lock.
12. Remove rear hatch lock assembly.
13. Remove trunk end trim.
14. Remove C-pillar trim. Refer to "Trim" in this section.
15. Remove rear side three fasteners of headliner.
16. With pulling the rear side of headliner, disconnect rear hatch harness connector.
17. Pull the cable harness carefully through the channel in the hatch and through the cable harness boot and grommet.
18. Remove the rear window washer nozzle and remove the tubing from the nozzle.
19. Remove the nozzle hose from the coupling.
20. Remove the nozzle hose.

NOTICE

Removal of the damper stay assemblies requires that the rear hatch be well supported to permit it to remain in the open position so there is access to the hatch hinges. Have an assistant help in rear hatch removal.

21. Support the rear hatch in the open position.
22. Remove the damper stay assembly.
23. Remove one bolt from the left and right-head hinges.

NOTICE

The last step in the removal of the rear hatch is a two-man job. Have an assistant help remove the hatch.

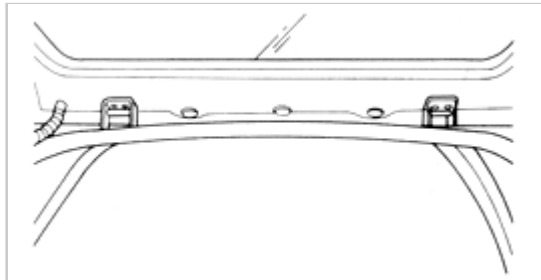
24. Remove the last two bolts from the hatch

25. Remove the rear hatch.

Installation

Rear hatch

1. Install in reverse order of removal.



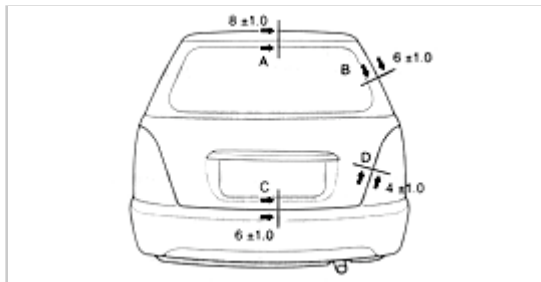
Adjustment

Rear hatch

1. Measure the distances for views A,B and D to determine whether or not the fit is within specifications. If they are acceptable, tighten the hinge bolts as specified below. If not, make the appropriate adjustments at the hinges. The options are:

- A. Move the hatch forward or backward
- B. Move the hatch left or right
- C. Rotate the hatch clockwise or counterclockwise.
- D. Or any combination of the three.

Tighten the hinge bolts to 12~17 lb·ft (16~24 N·m) after adjustments are complete. Check each dimension once more to make certain the hatch did not move in the process.



2. Measure the dimension in view C. The position of the wedges on either side of the hatch opening controls the degree of hatch closure in view C. If the dimension is too large, move the wedges away from each other. If the dimension is too small, move the wedges toward each other.

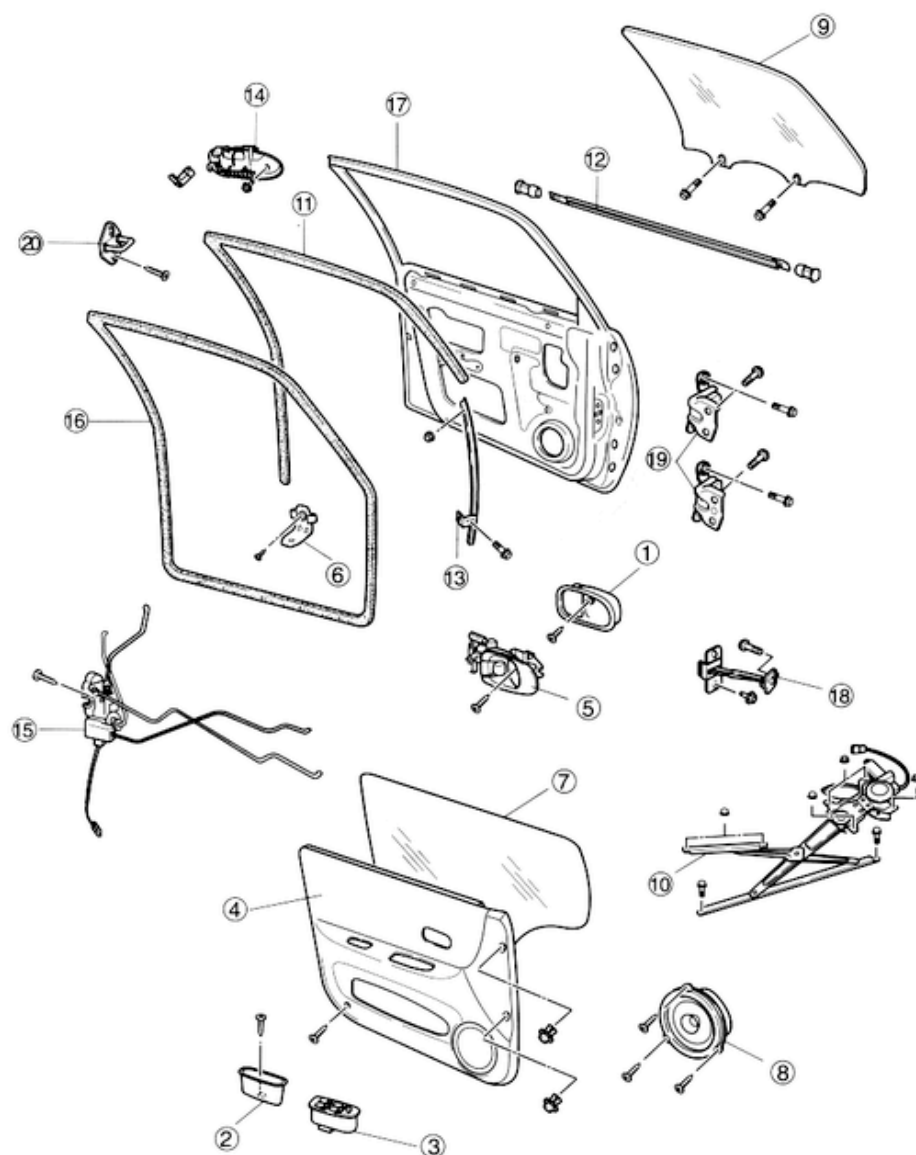


Body (Interior and Exterior)

Exterior - Front Door



Component



- (1) Inside handle cover
- (2) Pull handle
- (3) Door switch
- (4) Door trim
- (5) Inside handle assembly
- (6) Pull handle bracket
- (7) Door screen
- (8) Door speaker
- (9) Glass
- (10) Regulator assembly

- (11) Glass run channel
- (12) Belt line moulding
- (13) Glass guide
- (14) Outside handle
- (15) Door lock assembly
- (16) Door weatherstrip
- (17) Door panel
- (18) Door checker
- (19) Door hinge
- (20) Striker



Removal

Front door

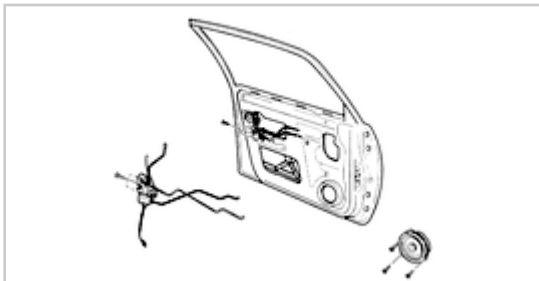
1. Disconnect negative battery cable.
2. Remove door trim. Refer to "Trim" in this section.
3. Remove one screw on pull handle bracket.



4. Remove pull handle bracket.

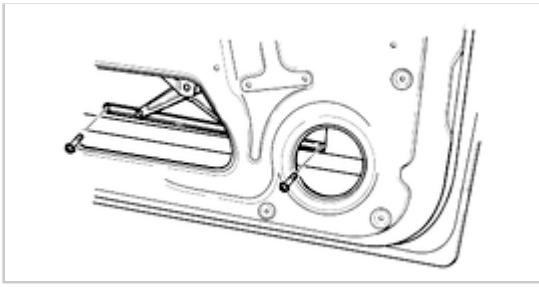


5. Remove door speaker.
 - A. Remove three screws on door speaker.



- B. Unfasten harness connector from door frame.
 - C. Pull out speaker and disconnect connectors.

6. Remove inside door handle.
 - A. Remove one screw from inside door handle.
 - B. Disconnect one control rod.
 - C. Remove inside door handle.
7. Peel off plastic door screen carefully by pulling it away gradually from door frame.
8. Remove window glass.
 - A. Reconnect window operating switch.
 - B. Turn ignition "ON" and position window glass on speaker access hole.



C. Turn ignition "OFF".

D. Remove two glass mounting bolts from power window regulator.

E. Remove glass carefully; hold glass from both its inner and outer surfaces. While tilting it toward hinge side of door, pull it out from outside door frame.

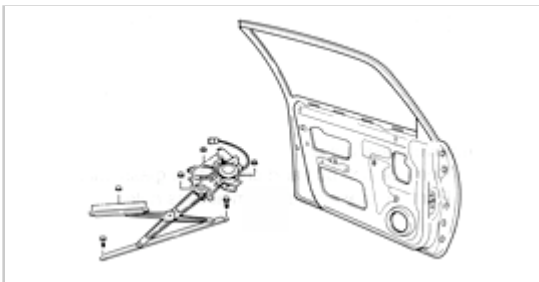


9. Remove regulator assembly.

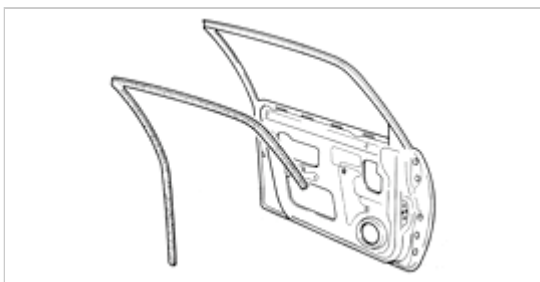
A. Disconnect electric connector for regulator assembly motor.

B. Remove six nuts on door frame.

C. Remove regulator assembly from out of access hole.



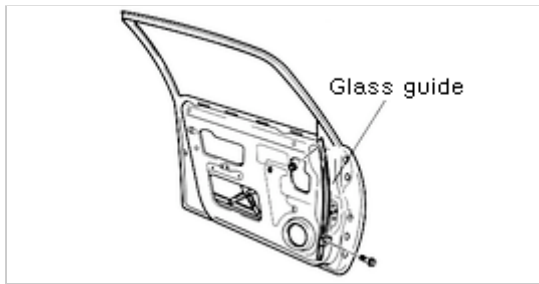
10. Remove run channel.



11. Remove glass guide.

A. Remove one bolt and one nut on glass guide.

B. Remove glass guide from access hole.



12. Remove door lock assembly.

- A. Disconnect two remote control rods from outside door handle assembly.

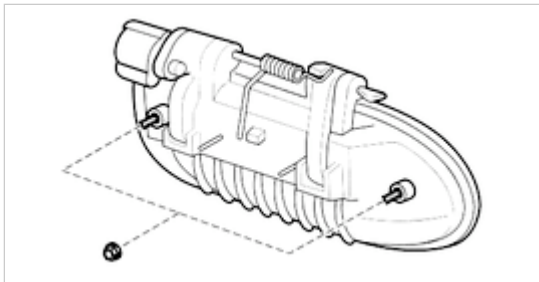


- B. Remove three screws from door lock assembly and remove assembly from access hole.



- C. Remove two mounting nuts from outside door handle.

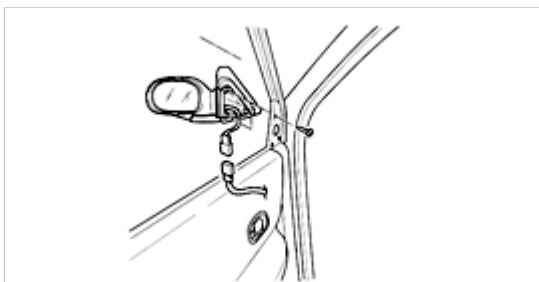
- D. Remove outside door handle.



13. Remove rearview mirror from door.

- A. Disconnect electrical connector.

- B. Remove three mounting screws and remove mirror.

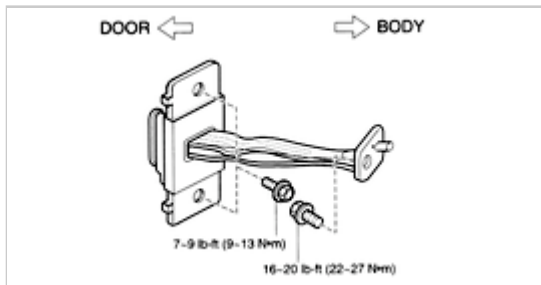


14. Remove wiring harness.

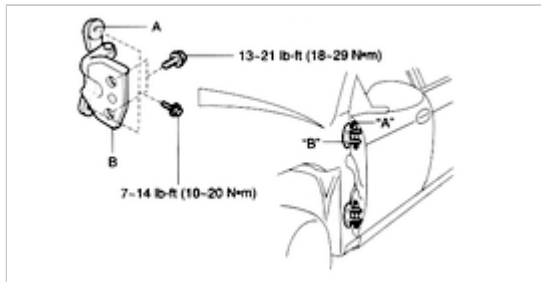
- A. Disconnect harness connectors from inner door frame.

B. Pull out wiring harness from access hole.

15. Remove door checker installation bolt from body.



16. Remove door by removing bolts on both hinges.



Installation

Front door

1. Install door.
 - A. Position door on vehicle properly.
 - B. Install bolts on both hinges.

Tightening torque : 13~22 lb·ft (18~29 N·m, 1.8~3.0 kg·m)

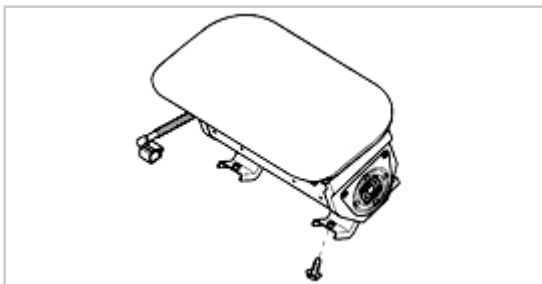
2. Install dust weatherstrip.
3. Install one bolt on door checker pin assembly.

Tightening torque : 16~20 lb·ft (22~27 N·m, 1.1~2.8 kg·m)

4. Install wiring harness.
 - A. Position wiring harness in access hole.
 - B. Fasten five harness connectors onto door frame.
5. Install rearview mirror on door.
 - A. Position rearview mirror on door as originally positioned.
 - B. Install three mounting bolts.
 - C. Connect electrical connector.
6. Install door lock assembly.
 - A. Position it as originally positioned through access hole.



B. Install three mounting screws.

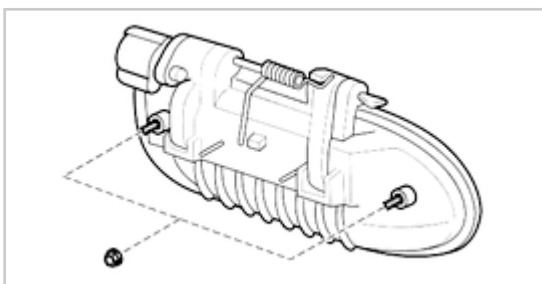


Tightening torque : 34~52 lb·in (4~6 N·m, 40~60 kg·cm)

7. Install outside door handle.

A. Connect two control rods of door lock assembly.

B. Install two mounting nuts.

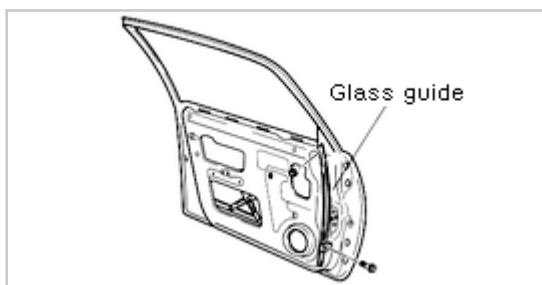


8. Install glass guide.

A. Position glass guide as originally positioned through access hole.

B. Install one bolt.

Tightening torque : 61~86 lb·in (7~10 N·m, 70~100 kg·cm)



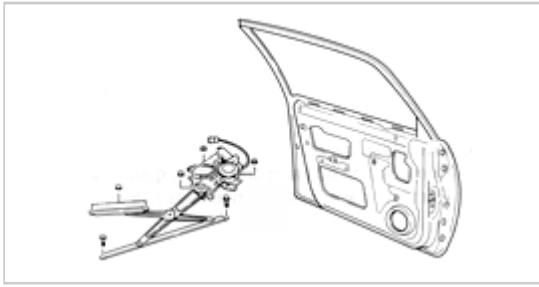
9. Install run channel. Use soap and water for lubrication.

10. Install regulator assembly.

A. Position regulator assembly through access hole.

B. Install seven mounting nuts.

Tightening torque : 61~86 lb·in (7~10 N·m, 70~100 kg·cm)



C. Connect electrical connector for motor of regulator assembly.

11. Install window glass.

A. Position glass carefully:

Hold glass from both its inner and outer surfaces. While tilting it towards hinge side of door, place it on small bracket on window regulator assembly.

B. Loosely install two glass mounting bolts on power window regulator assembly.



C. Reconnect window operating switch.

D. Connect negative battery cable.

E. Turn on ignition and move glass up and down to ensure proper function.

F. Make adjustments as necessary.

G. Turn off ignition.

H. Disconnect negative battery cable.

I. Tighten two glass mounting bolts on power window regulator assembly.

J. Tighten one bolt on glass guide.

Tightening torque : 61~86 lb·in (7~10 N·m, 70~100 kg·cm)

K. Connect negative battery cable.

L. Turn on ignition.

M. Position window all way down.

N. Turn off ignition.

O. Disconnect negative battery cable.

P. Remove power switch.

12. Install plastic door screen.

A. Fasten plastic door screen.

B. Pull out electrical harness connector from plastic door screen.

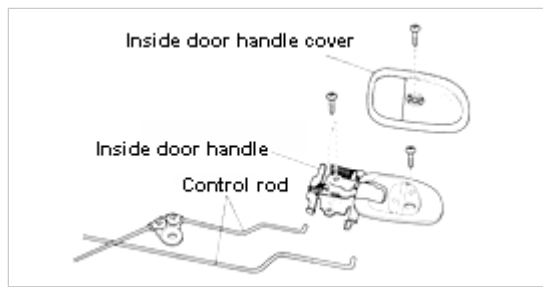
C. Pull out remote control rod for inside door handle from plastic door screen.

13. Install inside door handle.

A. Connect one control rods of door lock assembly.

B. Install one mounting screw.

Tightening torque : 26~35 lb·in (2~4 N·m, 30~40 kg·cm)



14. Install door speaker with three mounting screws.



15. Install pull handle bracket with one mounting screws.

16. Install door trim.

17. Install inner door handle cover with one mounting screw.

18. Fasten door trim. Refer to "Trim" in this section.

19. Connect negative battery cable.

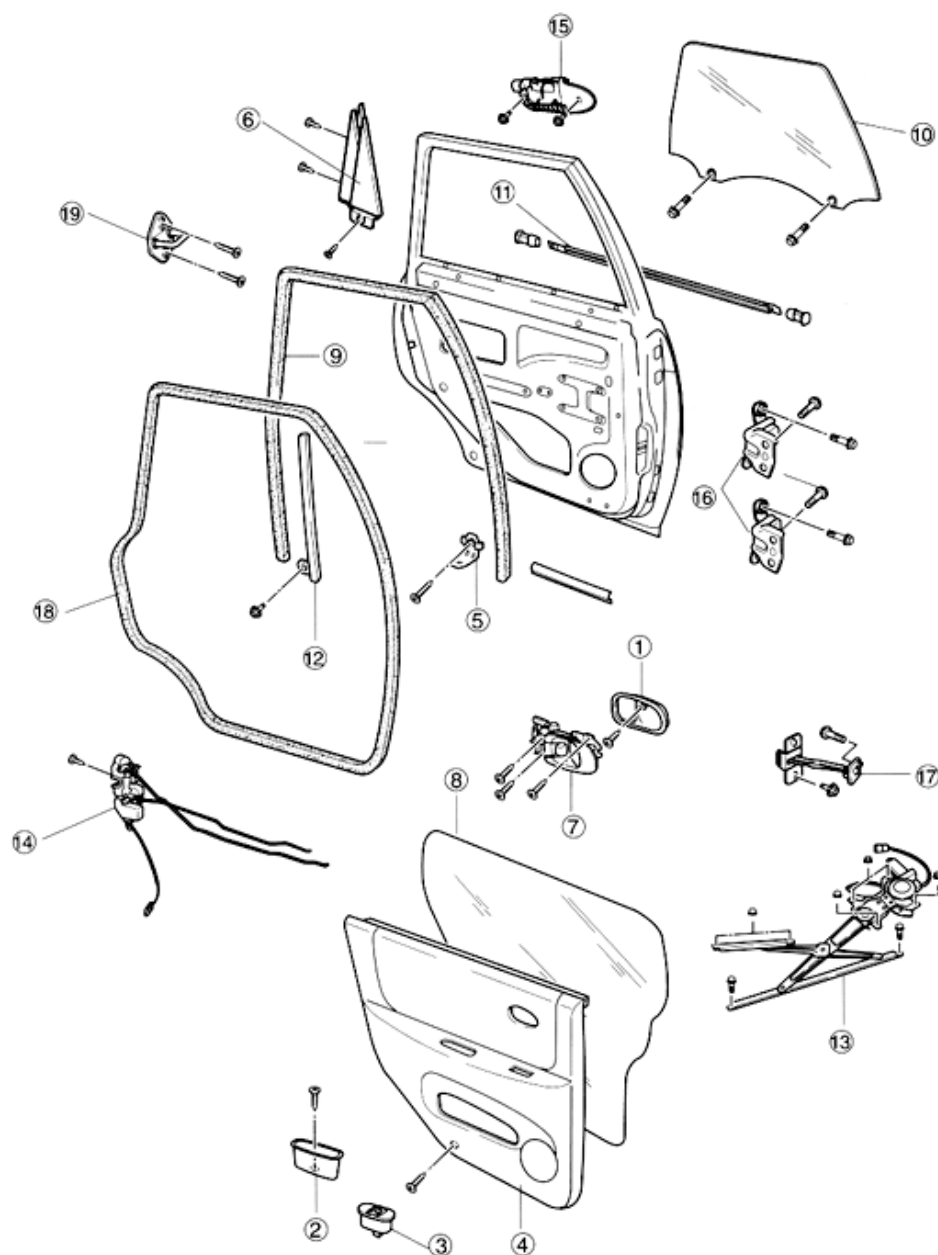


Body (Interior and Exterior)

Exterior - Rear Door



Component



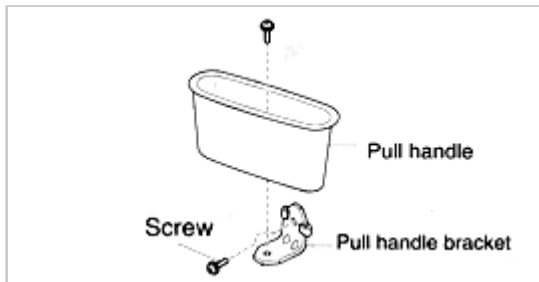
- (1) Inside handle cover
- (2) Pull handle
- (3) Door switch
- (4) Door trim
- (5) Pull handle bracket
- (6) Door garnish
- (7) Inside handle assembly
- (8) Door screen
- (9) Glass run channel
- (10) Door glass

- (11) Belt line moulding
- (12) Glass guide
- (13) Regulator assembly
- (14) Door lock assembly
- (15) Outside handle
- (16) Door hinge
- (17) Door checker
- (18) Door weatherstrip
- (19) Striker

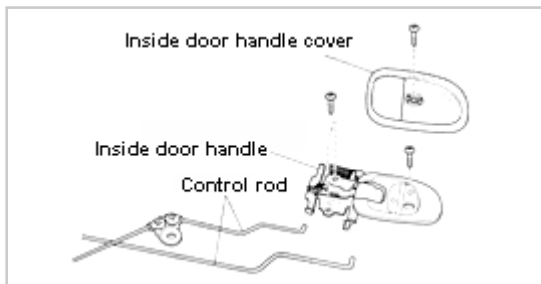


Removal

1. Remove door trim. Refer to "Trim" in this section.
2. Remove one screw on pull handle bracket.



3. Remove inside door handle assembly.
 - A. Remove one screw from inside door handle.
 - B. Disconnect two control rods.
 - C. Remove inside door handle assembly.



4. Peel off plastic door screen carefully by pulling it away gradually from door frame.
5. Remove glass guide.
6. Remove rear door garnish.
7. Remove window glass :
 - A. Reconnect window operating switch.
 - B. Connect negative battery cable.
 - C. Turn on ignition and position window glass on access hole.

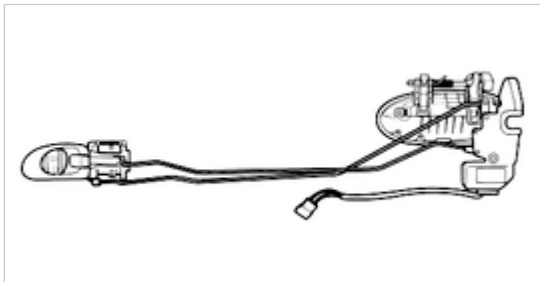


- D. Turn off ignition.
- E. Remove two glass retaining bolts on regulator assembly.
- F. Remove door glass carefully. Hold glass from both its inner and outer surfaces. While tilting it toward hinge side of door, pull it out from outside door frame.

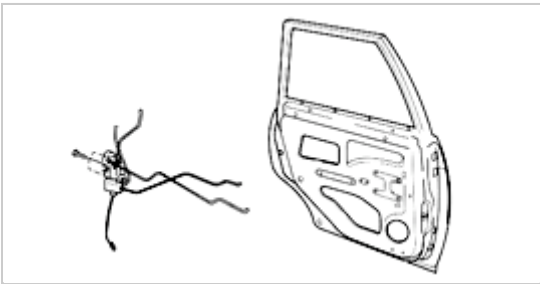


G. Disconnect negative battery cable.

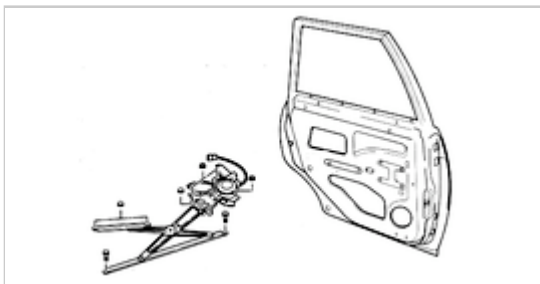
8. Remove harness connector.
9. Remove two nuts on outside door handle from access hole.
10. Remove outside door handle.



11. Remove three screws on door lock assembly.



12. Remove door lock assembly from access hole.
13. Disconnect window regulator motor connector.
14. Remove six nuts on window regulator assembly.



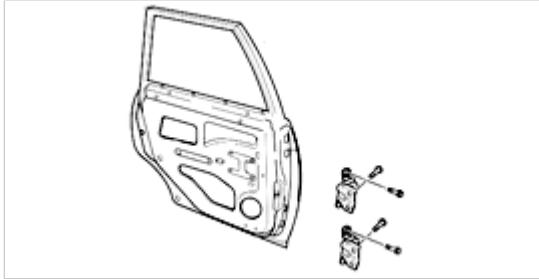
15. Remove window regulator assembly from access hole.
16. Disconnect connector and its retaining clip from actuator.
17. Remove wire harness from access hole towards hinge side of door.
18. Remove run channel.
19. Remove outer glass weatherstrip.
20. Remove outside molding around window opening.
21. Remove door checker assembly.

- A. Remove one bolt on checker pin assembly.
- B. Remove checker pin assembly from access hole.

22. Remove weatherstrip.

23. Remove door:

- A. Remove bolts on both hinges.
- B. Remove door.



INSTALLATION

1. Install door.

- A. Position door on vehicle properly.
- B. Install bolts on both hinges.

Tightening torque (Body side) : 16~20 lb-ft (22~27 N-m, 2.2~2.8 kg-m)

2. Install door checker pin assembly.

- A. Position checker pin assembly through access hole.
- B. Install one bolt.

Tightening torque (Body side) : 16~20 lb-ft (22~27 N-m, 2.2~2.8 kg-m)

3. Install outside molding around window opening.

4. Install outer glass weatherstrip.

5. Install channel.

6. Position wire harness from hinge side of door.

7. Connect actuator connector.

8. Position regulator assembly.

9. Install six nuts on window regulator assembly.

Tightening torque : 61~86 lb-in (7~10 N-m, 70~100 kg-cm)

10. Connect window regulator motor connector.

11. Position door lock assembly from access hole.

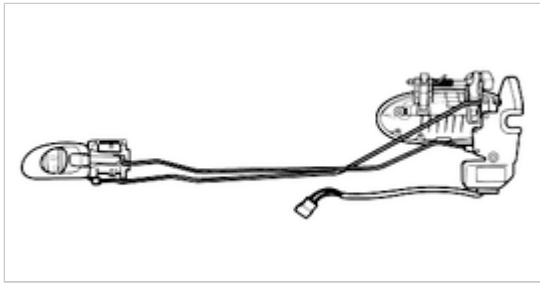
12. Install three screws on door lock assembly.

13. Position outside door handle.

14. Install two nuts on outside door handle from access hole.

Tightening torque : 61~86 lb-in (7~10 N-m, 70~100 kg-cm)

15. Connect outside door handle rod of door lock assembly to outside door handle.



16. Install glass guide.

- A. Position glass guide as originally positioned through access hole.
- B. Install one bolt.

Tightening torque : 61~86 lb-in (7~10 N-m, 70~100 kg-cm)

17. Install glass piece carefully.

- A. Use lubricant around window opening edges.
- B. Hold glass from both its inner and outer surfaces. While tilting it towards hinge side of door, push it in from outside door frame and place on glass mounting bracket of regulator assembly.

NOTICE

Make sure that glass edges are properly fitted into window edges.



18. Install two glass mounting bolts on window regulator.

Tightening torque : 61~86 lb-in (7~10 N-m, 70~100 kg-cm)

19. Make glass adjustments as necessary.

20. Install rear door garnish.

21. Install glass guide.

22. Install plastic screen on door frame, make sure to pull out door lock knob rod and inside door handle rod of door lock assembly from plastic screen.

23. Install inside door handle.

- A. Connect two control rods of door lock assembly.
- B. Install three mounting screws.

Tightening torque : 26~35 lb-in (2~4 N-m, 30~40 kg-cm)

24. Install pull handle bracket.

- A. Position pull handle bracket.
- B. Install one retaining screw.



25. Connect harness connector.
26. Install trim. Refer to "Trim" in this section.
27. Connect negative battery cable.
28. Move window glass to maximum upper position.

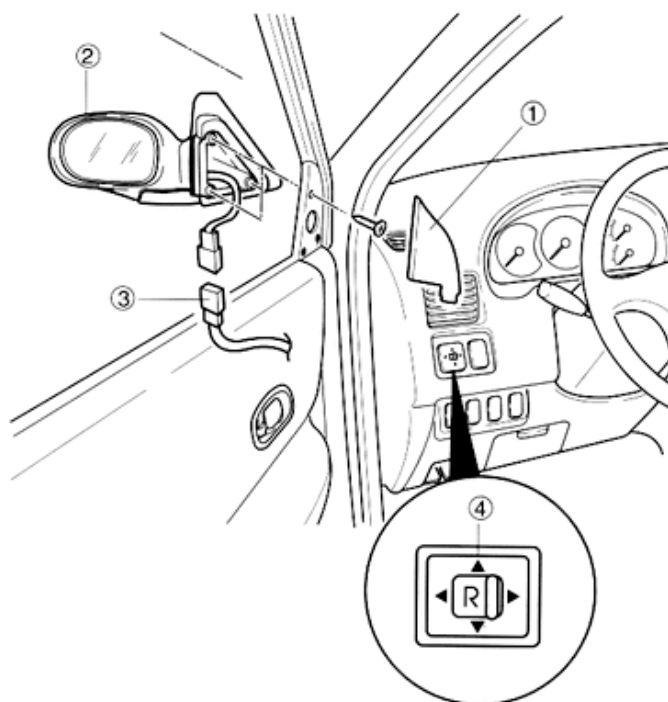


Body (Interior and Exterior)

Exterior - Mirror



Component



- (1) Garnish
- (2) Door mirror assembly

- (3) Remote control harness
- (4) Remote control mirror switch

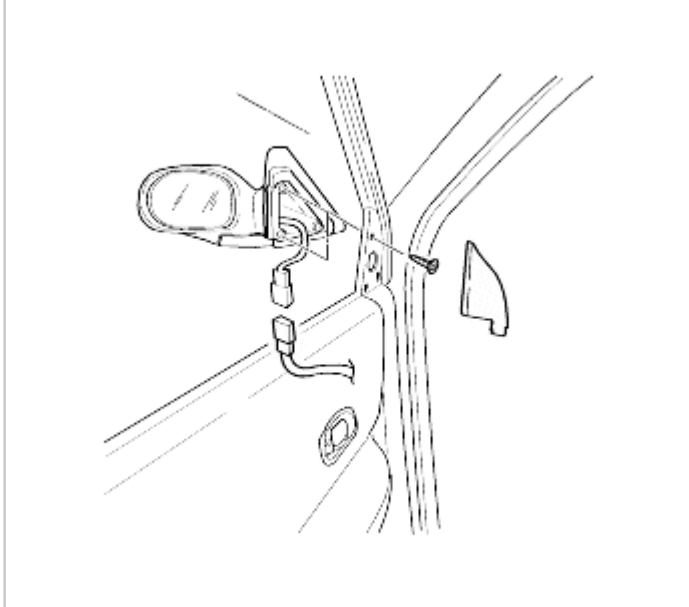
Outside rearview mirror assembly is comprised of mirror glass, a mirror frame (which holds mirror glass), a motor and a wire harness. Each outside rearview mirror can be adjusted in four directions from inside vehicle.



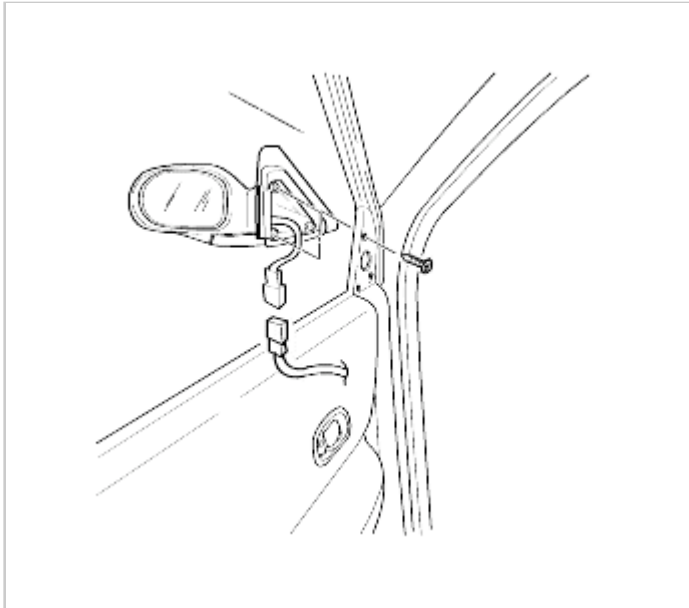
Removal

Outside rearview mirror assembly

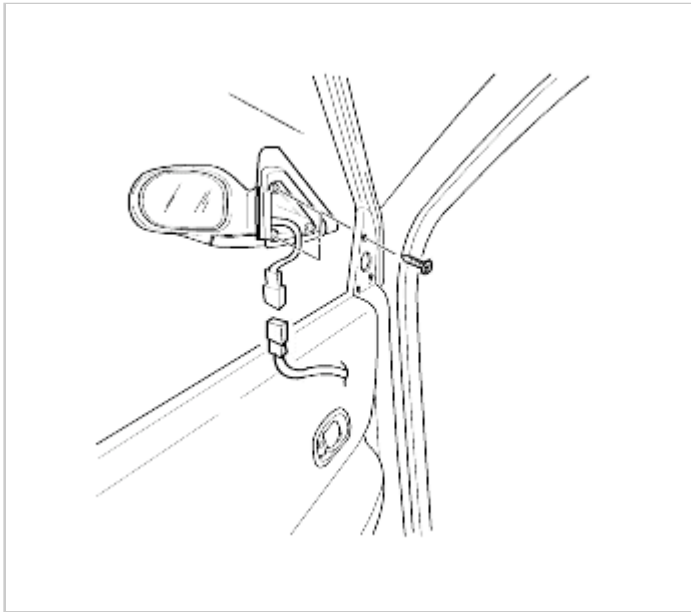
1. Disconnect negative battery cable.
2. Remove garnish.



3. Remove three rearview mirror assembly retaining bolts.



4. Pull out outside rearview mirror assembly and disconnect harness connector.

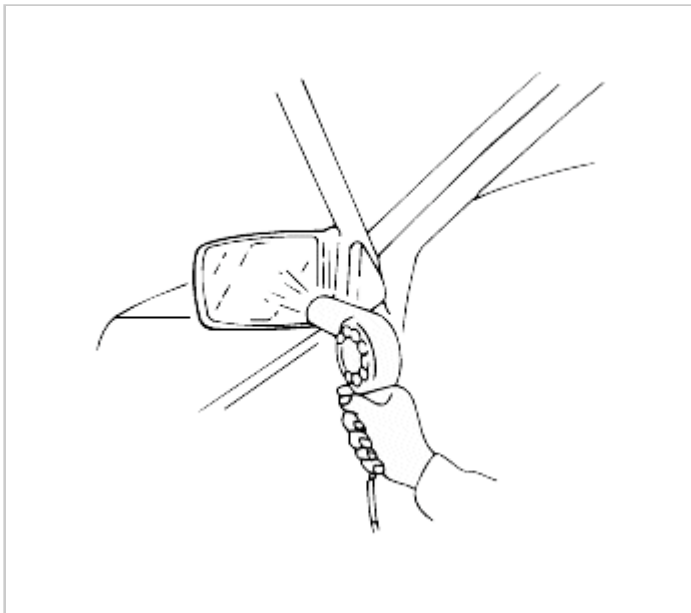


5. Remove outside rearview mirror assembly.

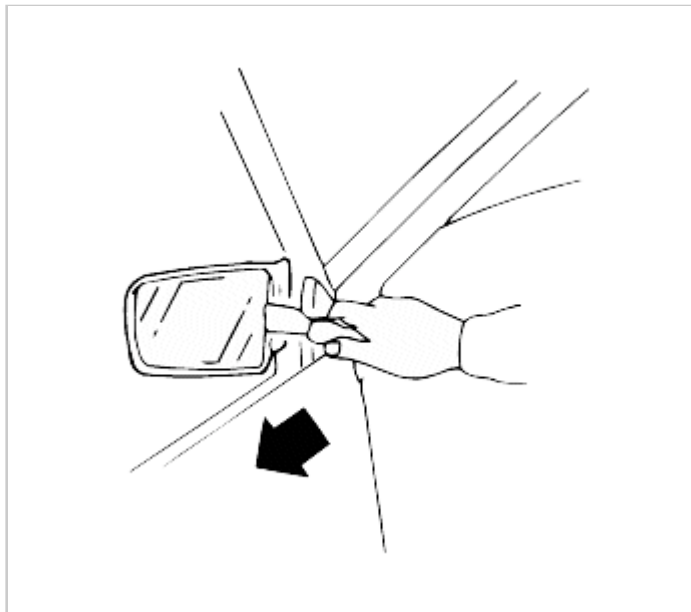
Removal

Outside rearview mirror glass

1. Heat frame and mirror glass using a heat gun.



2. Loosen mirror glass by inserting a plastic scraper between frame and mirror glass.



3. Remove adhesive from behind mirror glass and remove mirror glass.

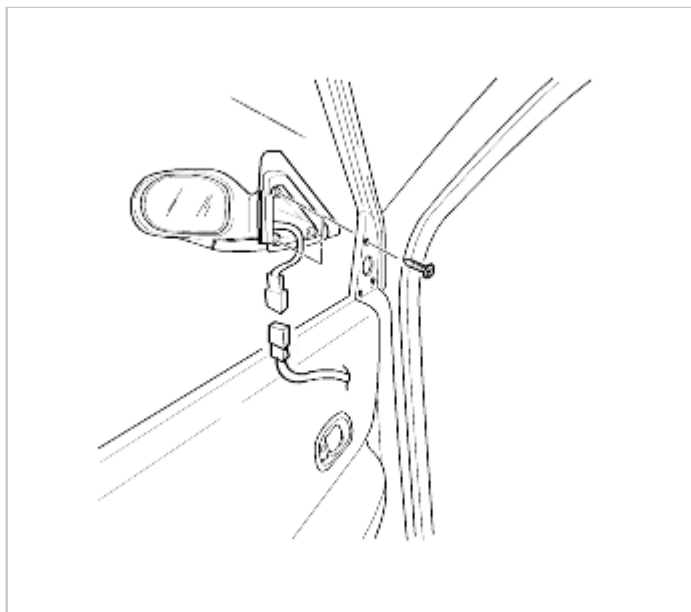
CAUTION

Gloves and safety glasses should be worn when removing broken mirror glass

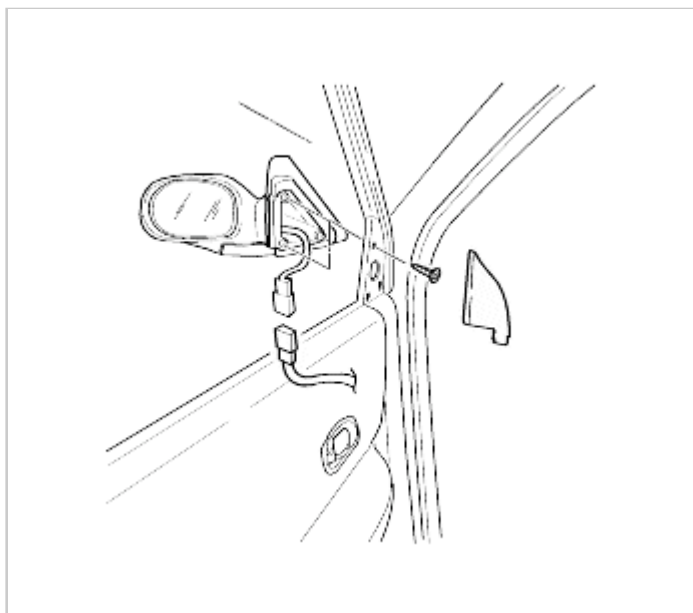
Installation

Outside rearview mirror assembly

1. Position outside rearview mirror assembly on door.
2. Install three retaining bolts.



3. Connect harness connector.
4. Install garnish.
5. Connect negative battery cable.



Installation

Outside rearview mirror glass

1. Install mirror glass with appropriate adhesive.
2. Heat frame and mirror glass using a heat gun.
3. Fasten mirror glass in mirror frame.



Body (Interior and Exterior)

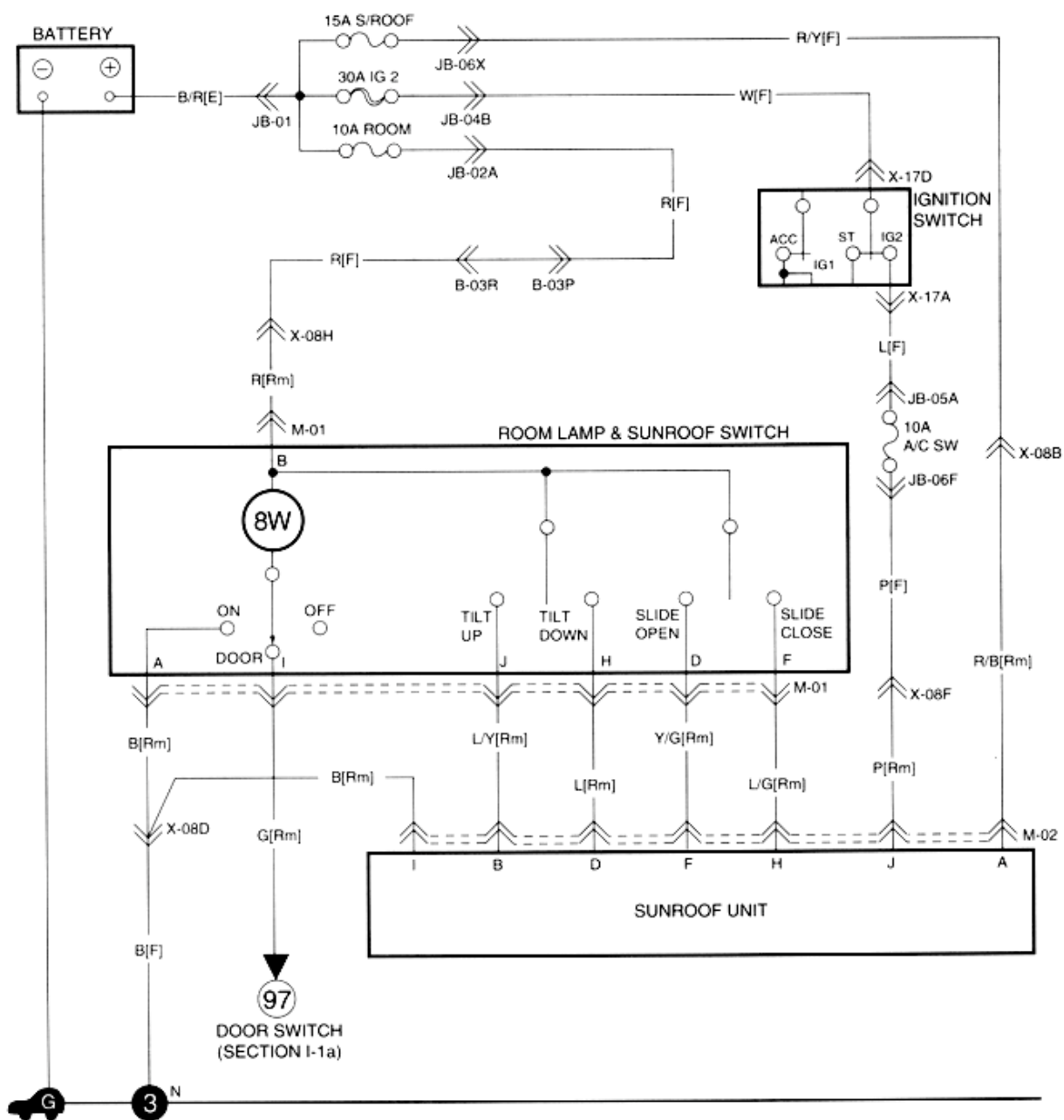
Sunroof



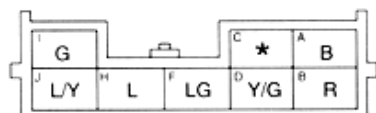
Sunroof system

M

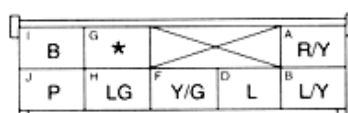
SUNROOF SYSTEM



M-01 ROOM LAMP & SUNROOF SWITCH [Rm]



M-02 SUNROOF UNIT [Rm]





Circuit operation

Front room lamp

Battery voltage is always applied from "ROOM (10A)" fuse to the front room lamp through the R wire. When the front room lamp switch is turned to "ON" position, the front room lamp is grounded through the switch and B wire. The front room lamps illuminate.

With the front room lamp switch in "DOOR" position, the lamps are connected to the all door switches through the G wire. When one of five doors is opened (i.e. door switch is closed) the front room lamp is grounded through the door switch and the front room lamp illuminates. If the open door is closed, the front room goes out.

Sunroof system

Battery voltage is applied always to the terminal A(R/B) of the sunroof unit through the R/B wire, of which terminal I(B) is grounded permanently through B wire. Also battery voltage is applied to the terminal B(R) of sunroof switch through the R wire.

When the ignition switch is turned to ON position.

Battery voltage is applied from the "A/C SW (10A)" fuse to the terminal J(P) of the sunroof unit.

While pressing the "TILT UP" switch of the sunroof switch, battery voltage is applied to the terminal B(L/Y) of the sunroof unit through the L/Y wire, allowing the sunroof unit to activate. When activated, the motor of sunroof unit operates. The sunroof tilts up.

While pressing the "TILT DOWN" switch of the sunroof switch, battery voltage is applied to the terminal D(L) of the sunroof unit through the L wire, allowing the sunroof unit to activate. When activated, the motor of sunroof unit operates. The sunroof tilts down.

While pressing the "SLIDE OPEN" switch of the sunroof switch, battery voltage is applied to the terminal F(Y/G) of the sunroof unit through the Y/G wire, allowing the sunroof unit to activate. When activated, the motor of sunroof unit operates. The sunroof opens. On the other hand, the sunroof opens completely only by pressing and releasing the "SLIDE OPEN" switch of the sunroof switch once.

While pressing the "SLIDE CLOSE" switch of the sunroof switch, battery voltage is applied to the terminal H(L/G) of the sunroof unit through the L/G wire, allowing the sunroof unit to activate. When activated, the motor of sunroof unit operates. The sunroof tilts closes.



Troubleshooting

Front room lamps do not operate

Preliminary check:

Check an open lamp filament before proceeding with diagnosis. If bulb is damaged, check connection of the bulb and replace bulb. In addition, check "ROOM (10A)" fuse. If open, check for short to ground though the wire, replace fuse and check that all system electrical connectors mated correctly.

Step	Inspection		Action
1	Check for voltage at terminal B(R) of front room lamp. Is battery voltage present?	Yes	Go to next step
		No	Repair open or short in the wire "R" or replace.
2	Check for voltage between terminal B(R) and A(B) of front room lamp. Is battery voltage present?	Yes	Check for a poor connection at front room lamp switch. If OK, replace front room lamp bulb.
		No	Check for a poor connection at ground. If OK, repair open in the wire "B" or replace.

Sunroof does not operate.

Check "SUNROOF (15A)" and "A/C(10A)" fuse. If open, check for short to ground though the wires, replace fuse and check that all system electrical connectors mated correctly.

Step	Inspection		Action
1	Connect for voltage at terminal B(R) of front room lamp. Is battery voltage present?	Yes	Go to next step
		No	Repair open or short in the wire "R" or replace.
2	Disconnect sunroof switch connector M-01. Check for continuity between terminals of sunroof switch by pressing switch. Is sunroof switch good?	Yes	Go to next step
		No	Replace sunroof switch.
3	Disconnect sunroof unit connector M-02. Check for voltage at terminal A(R/B) of sunroof unit connector M-02. Is battery voltage present?	Yes	Go to next step
		No	Repair open or short in the wire "R/B" or replace.
4	Check for voltage between terminal A(R/B) and I(B) of sunroof unit. Is battery voltage present?	Yes	Go to next step
		No	Check for a poor connection at ground. If OK, repair open in the wire "B" or replace.
5	Turn the ignition switch to "ON" position. Check for voltage at terminal J(P) of sunroof unit connector M-02. Is battery voltage present?	Yes	Go to next step
		No	Repair open or short in the wire "P" or replace.
6	Turn the ignition switch to OFF position. Check for following wires between the sunroof switch and the sunroof unit. Are the below wires good?	Yes	Check for a poor connection at sunroof unit. If OK, replace sunroof motor.
		No	Repair open or short in the wires or replace.

Wires		Wire color	Value	Remark
M-01	M-02			
J	B	L/Y	0 Ω	TILT UP
H	D	L	0 Ω	TILT DOWN
D	F	Y/G	0 Ω	SLIDE OPEN
F	H	L/G	0 Ω	SLIDE CLOSE

Circuit testing (Room lamp & sunroof switch)

1. Disconnect the room lamp & sunroof switch.
2. Check for continuity between terminal as indicated.

Terminal		A	B	C	D	F	H	I	J
Position									
SUNROOF	OFF								
	UP		O						O
	DOWN		O				O		
	OPEN		O		O				
	CLOSE		O			O			
FRONT ROOM	OFF								
	ON	O	O						
	DOOR		O					O	

O — O: indicates continuity

3. If not as specified, replace the power window main switch assembly.



Body (Interior and Exterior)

Interior - Console



Removal

1. Remove one mounting screw from left side of console.
2. Repeat right side.
3. Remove console.

Installation

1. Position console and install two mounting screws.



Body (Interior and Exterior)

Interior - Crash Pad



Description

Instrument panel

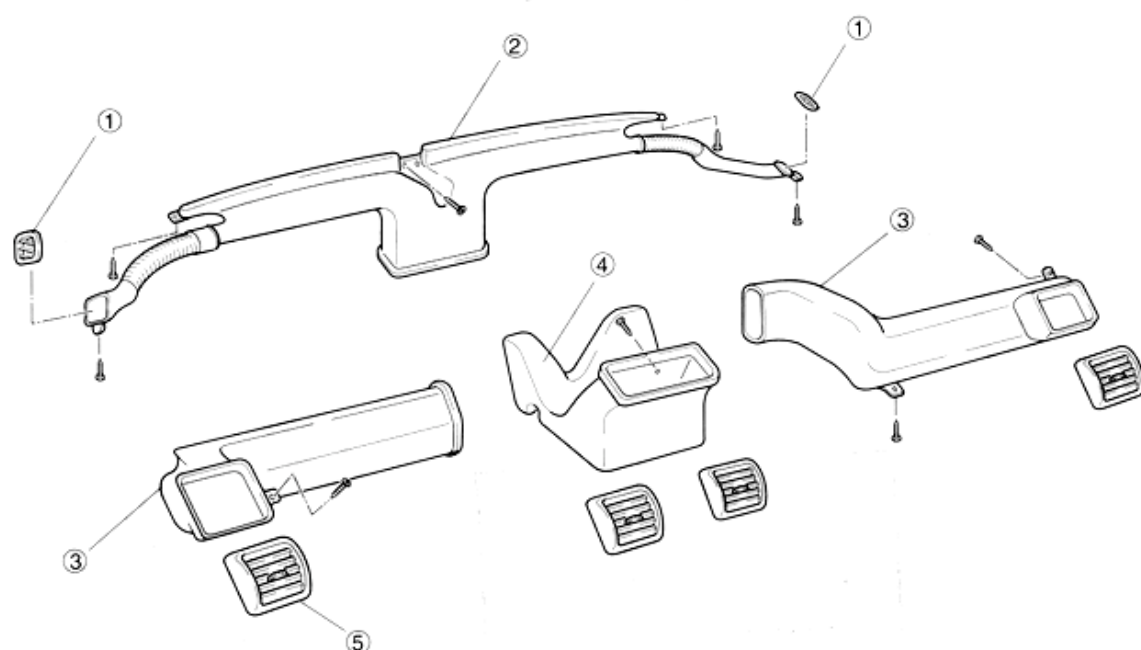
Instrument panel houses instrument cluster, center panel and a number of special switches and controls. Instrument panel electrical system is discussed in Rio Electrical troubleshooting Manual. Ducts installed in instrument panel are discussed in this section.

Radio and antenna cable

When a radio is installed in vehicle, user instructions are supplied. Radio is located in center panel. Antenna and electrical connections are located at rear of unit. Antenna cable connects to radio. It is routed behind instrument panel and connects to antenna. Radio receives signals through antenna cable from antenna. It is necessary to remove radio when instrument panel is removed.

Ventilation control panel

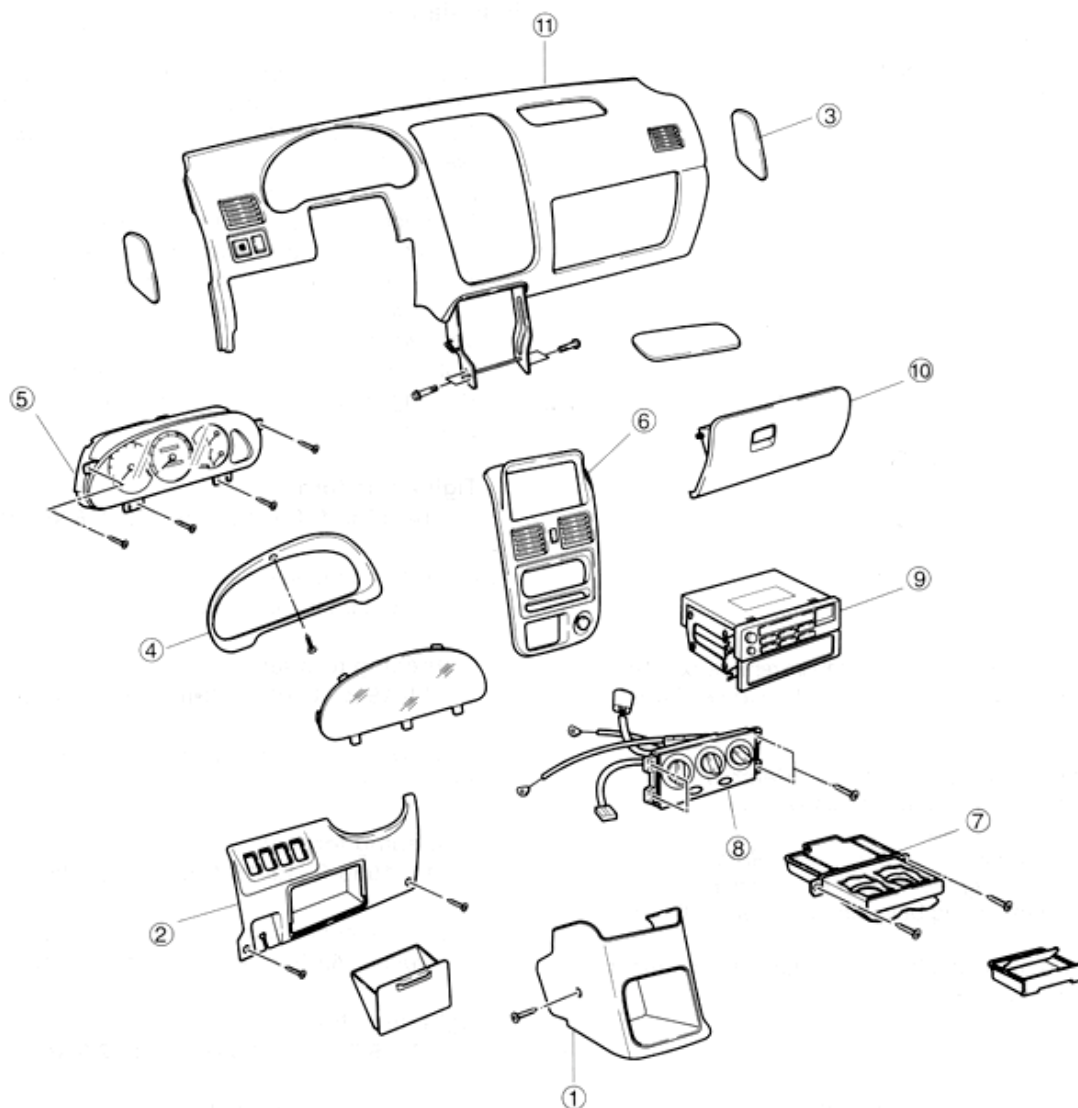
Ventilation control panel provides control of heating and air conditioning and is mounted in center panel. There are control cables from ventilation control panel that attach to heater assembly. Part of instrument panel must be removed for access to where cables attach to heater or air conditioner units.

**Component****Ducts**

- (1) Demist grille
- (2) Defroster duct
- (3) LH, RH vent duct

- (4) Center vent duct
- (5) Air demist grille

Instrument panel assembly



- (1) Console box
- (2) Lower panel
- (3) Side cover
- (4) Instrument cluster hood
- (5) Instrument cluster
- (6) Center panel trim

- (7) Cup holder
- (8) Ventilation control panel
- (9) Radio
- (10) Glove box
- (11) Instrument panel assembly



Removal

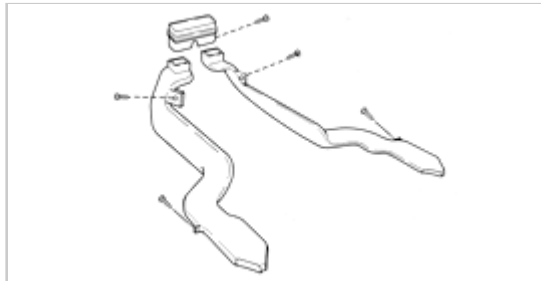
Ducts

1. Remove mounting screws holding duct parts to instrument panel.
2. Remove defroster grille.
3. Remove LH,RH vent duct.
4. Remove center vent duct.
5. Remove LH, RH demist grille.

Removal

Floor-mounted ducts

1. Remove carpeting in area required for duct removal and installation.
2. Remove floor-mounted left, right, and center ducts.
3. Repair or replace section of floor-mounted ducts as necessary.



Removal

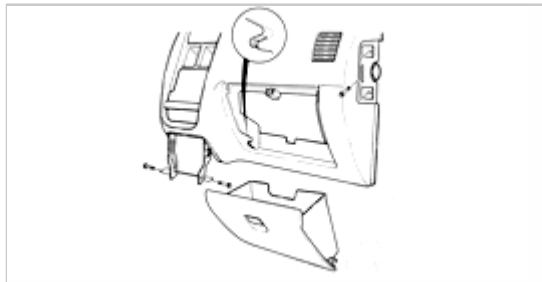
Instrument panel assembly

1. Remove console. Refer to "Console" in this section.
2. Remove driver air bag module. Refer to "Driver Air Bag Module" in this section.
3. Remove steering wheel, turn signal assembly, and upper/lower column covers. Refer to Group ST, Steering System.
4. Remove hood release handle lock nut, hood release handle and cable assembly nut.
5. Remove lower panel. Refer to "Lower panel" in this section.
6. Remove two mounting bolts from left side of T-bar.
7. Remove two mounting bolts from left side of instrument panel as shown.



8. Remove ashtray to make center panel trim removal possible.
9. Remove center panel trim. Refer to "Center Panel Trim" in this section.
10. Remove audio assembly.
11. Remove ventilation control panel. Refer to "Ventilation Control Panel" in this section.

12. Remove cup holder assembly.
13. Remove passenger air bag module. Refer to "Passenger Air Bag Module" in this section.
14. Remove two mounting bolts on right side of T-bar as shown.
15. Remove two mounting bolts from right of instrument panel assembly as shown.



16. Remove two mounting bolts on either side of steering column, which hold instrument panel and steering column together. Lower steering column to floor level.
17. Disconnect all connectors between instrument panel and vehicle bulkhead electrical wire harness.
18. Remove instrument panel.

Removal

Lower panel

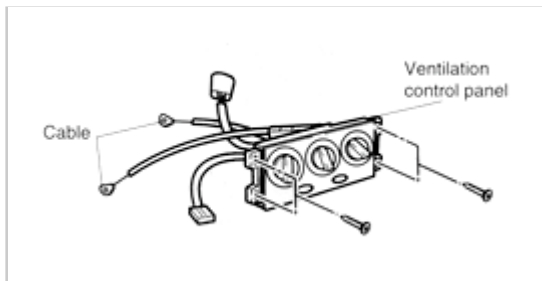
1. Remove two mounting screws.
2. Remove hood release handle. Refer to "Hood Release handle" in this section.



Removal

Ventilation control panel

1. Remove instrument center panel trim. Refer to "Instrument center panel trim" in this section.
2. Remove four mounting screws.
3. Remove ventilation control panel from mounting space.



4. Disconnect electrical wire harness connector from rear of unit.
5. Remove glove box.
6. Remove temperature cable and mode cable from heater unit by carefully depressing plastic retaining tab and remove cable from retaining clip. Refer to Group HA, Heating, Ventilation and Air conditioning.

7. Remove ventilation control panel from instrument panel.

Installation

Ducts

1. Install LH, RH demist grille.
2. Install center vent duct.
3. Install LH,RH vent duct.
4. Install defroster grille.
5. Install mounting screws holding duct parts to instrument panel.

Installation

Floor-mounted ducts

1. Mount floor-mounted ducts into place on floor of vehicle.
2. Install mounting screws.
3. Install carpeting in installation area.

Installation

Instrument panel assembly

1. Mount instrument panel into position.
Make sure steering column is mounted correctly through T-bar with electrical wire harness in position before attempting to position instrument panel in place. If this is not done, column cannot be positioned correctly.
2. Connect linking connectors between vehicle electrical wire harness and instrument panel.
Each connector is keyed so an electrical harness connector mates with correct instrument panel connector.
3. Install two mounting bolts, one on either side of steering column, which hold instrument panel and steering column together.

Tightening torque : 14~19 lb-ft (19~26 N-m, 1.9~2.6 kg-m)

4. Install three mounting bolts to right side of instrument panel as shown.

Tightening torque : 14~19 lb-ft (19~26 N-m, 1.9~2.6 kg-m)

5. Install two mounting bolts on right side of instrument panel as shown.

Tightening torque : 14~19 lb-ft (19~26 N-m, 1.9~2.6 kg-m)

6. Install passenger air bag module. Refer to "Passenger Air Bag Module" in this section.

Tightening torque : 14~19 lb-ft (19~26 N-m, 1.9~2.6 kg-m)

7. Install cup holder assembly.
8. Install ventilation control panel. Refer to "Ventilation Control Panel" in this section. Install audio assembly.
9. Install center panel trim. Refer to "Center Panel Trim" in this section.
10. Install ashtray. Refer to "Ashtray" in this section.
11. Install two mounting bolts to left side of instrument panel.

Tightening torque : 14~19 lb-ft (19~26 N-m, 1.9~2.6 kg-m)

12. Install two bolts and side cover on left side of T-bar.

Tightening torque : 14~19 lb-ft (19~26 N-m, 1.9~2.6 kg-m)

13. Install lower panel. Refr to "Lowr panel" in this section.
14. Install section of T-bar with two mounting screws.
15. Install retaining nut holding hood release cable in position.
16. Install hood release handle. Refer to "Hood Release Handle" in this section.
17. Install steering wheel, turn signal assembly and upper/lower column covers. Refer to group ST, Steering System.
18. Install driver air bag module. Refer to "Driver Air Bag Module" in this section.
19. Install console. Refer to "Console" in this section.
20. Install negative cable onto battery terminal.

Installation

Lower panel

1. Mount lower panel in instrument panel.
2. Install hood release handle.
3. Install two mounting screws.

Installation

Ventilation control panel

1. Mount ventilation control panel in position in instrument panel.
2. Depress plastic tab on heater assembly and connect temperature cable and mode cable in place in retaining clip.
3. Install glove box.
4. Connect electrical wire harness connector to rear of ventilation control panel.
5. Mount ventilation control panel into position and install four mounting screws.
6. Install center panel trim. Refer to "Center Panel Trim" in this section.

Inspection

Lower panel

Inspect for signs of any damage or wear and replace as necessary.

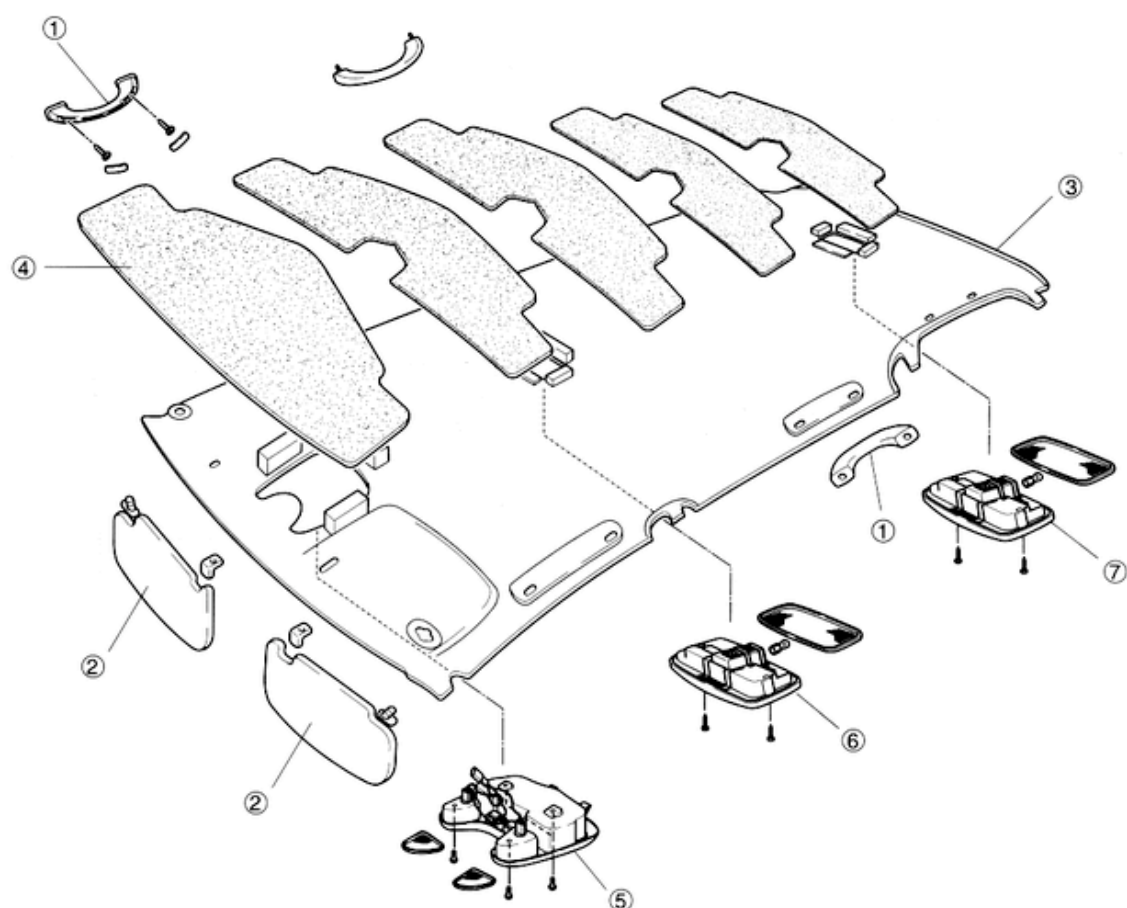


Body (Interior and Exterior)

Interior - Roof Trim



Component



- (1) Assist handles
- (2) Sunvisor
- (3) Headliner
- (4) Insulation

- (5) Room light
- (6) Front room light
- (7) Cargo room light

Headliner is a cloth cushion that serves as a buffer between passengers and top of vehicle. It also covers thermal and acoustic insulation in top of vehicle and wiring for room light. Both headliner and insulation are replaceable.

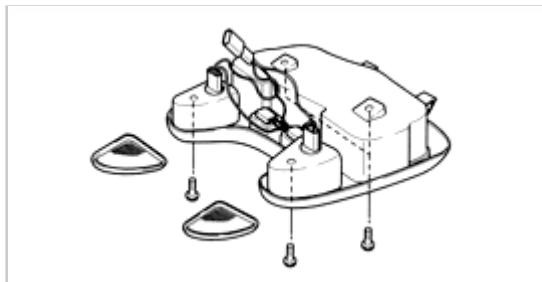


Removal

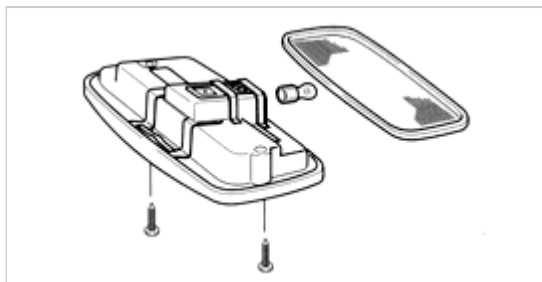
1. Unscrew two mounting screws from sunvisors.
2. Remove sunvisors and sunvisors retaining clips.
3. Remove assist handle covers, unscrew mounting screws.
4. Remove three assist handles.



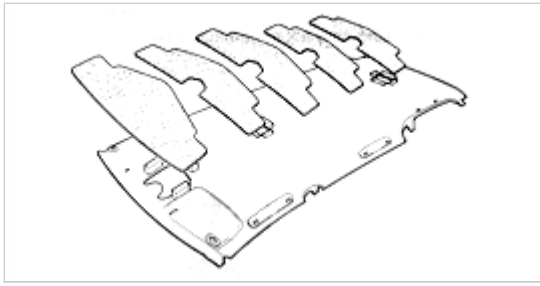
5. Gently remove lens assembly on room light.
6. Remove light bulb.
7. Remove four mounting bolts.
8. Disconnect power connector and remove room light.



9. Gently remove lens assembly on front room light and cargo room light.
10. Remove light bulb.
11. Remove two mounting screws.
12. Disconnect power connector and remove front room light and cargo room light.



13. Remove A, B and C pillar trims. Refer to "Trim" in this section.
14. Remove five screw-type fasteners.
15. Remove headliner and insulation pads.



INSTALLATION

1. Check that five insulation pads are properly placed in headliner.
2. Reverse remove procedure.



Body (Interior and Exterior)

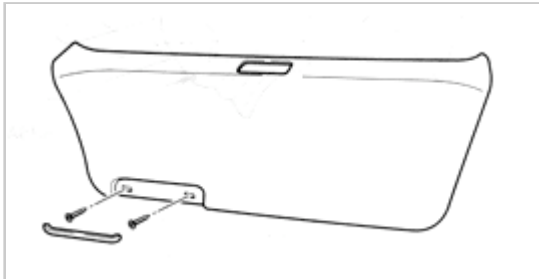
Interior - Trunk Trim



Removal

Rear hatch trim

1. Remove high-mounted stop light assembly. Refer to "Exterior light" in this section.
2. Remove two screws on assist handle.
3. Remove assist handle.

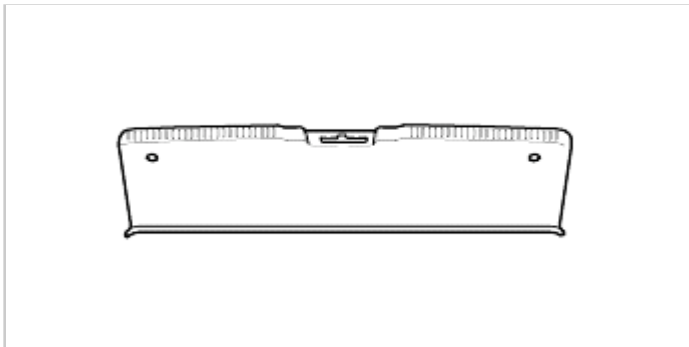


4. Unfasten rear hatch trim.
5. Remove rear hatch trim.

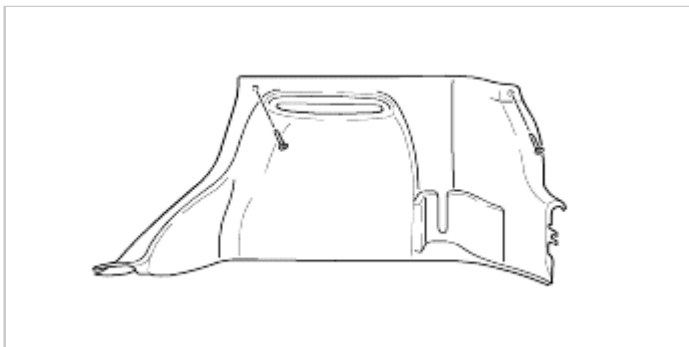
Removal

Rear quarter trim

1. Unfasten trunk end trim.
2. Remove trunk end trim.



3. Remove two screws and one fastener on rear quarter trim.
4. Remove rear quarter trim.

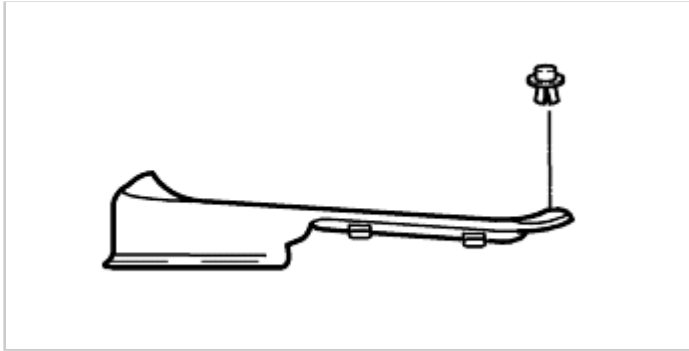


Removal

Rear scuff plate

1. Unfasten rear scuff plate.

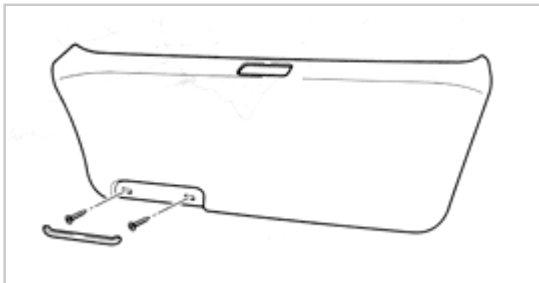
2. Remove rear scuff plate.



Installation

Rear hatch trim

1. Position rear hatch trim.
2. Install rear hatch trim.

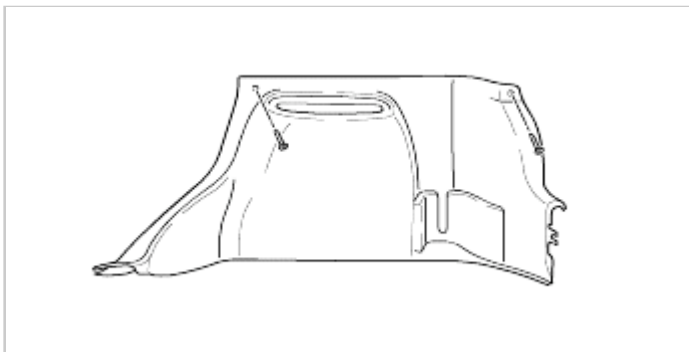


3. Install assist handle.
4. Install high-mounted stop light assembly.

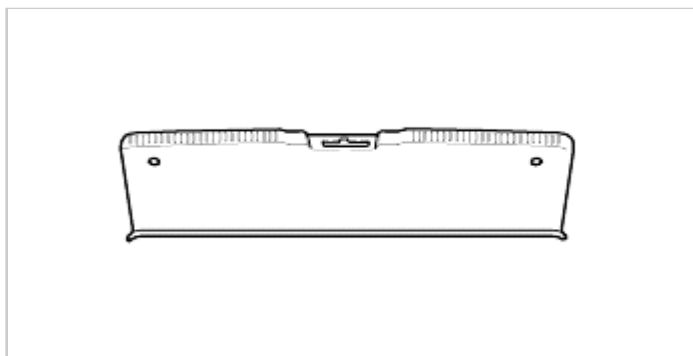
Installation

Rear quarter trim

1. Position rear quarter trim.
2. Install two screws and one fastener on rear quarter trim.



3. Install trunk end trim.



Installation

Rear scuff plate

1. Position rear scuff plate.
2. Press in rear scuff plate.

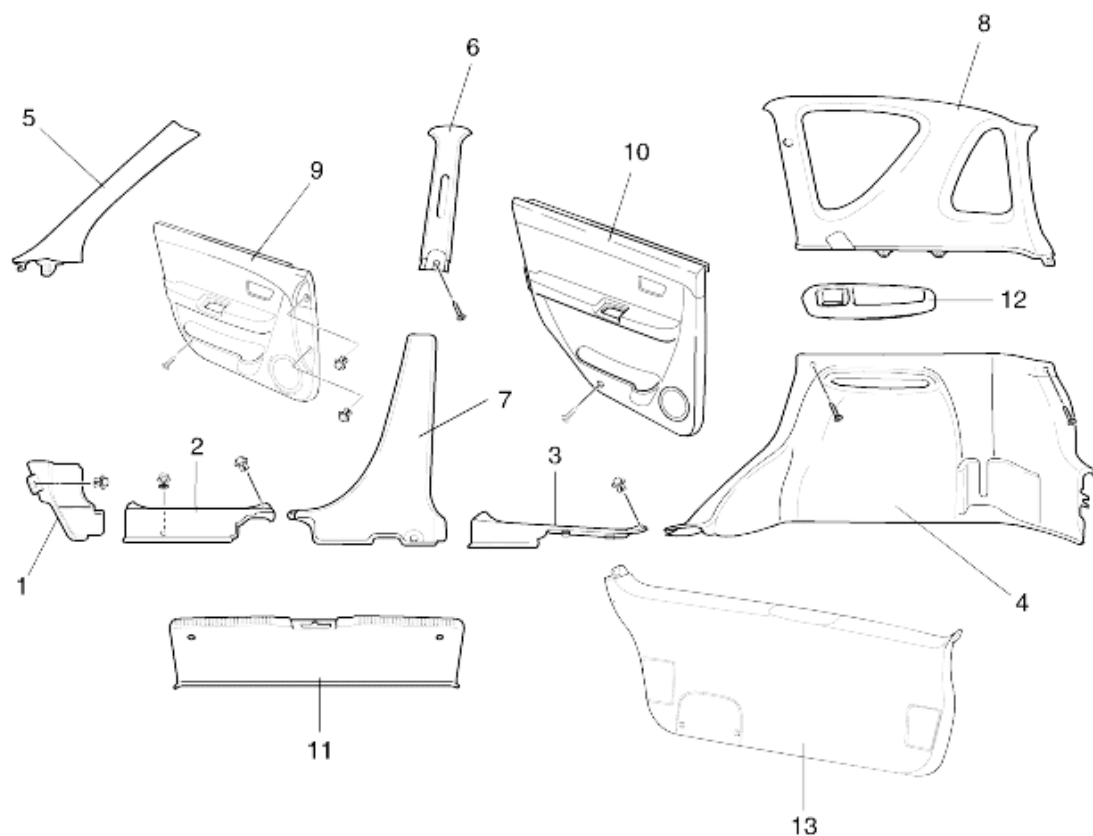


Body (Interior and Exterior)

Interior - Interior Trim



Component



1. Front side trim
2. Front scuff plate
3. Rear scuff plate
4. Rear quarter trim
5. A pillar trim
6. B pillar upper trim
7. B pillar lower trim

8. C pillar trim
9. Front door trim
10. Rear door trim
11. Trunk end trim
12. Rear quarter cover trim
13. Tail gate trim

Trim is a plastic component thermoses molding and is used to cover interior of vehicle. It assists vehicle insulation by covering it in addition to hiding vehicle metal frame. It also acts as a sound barrier.

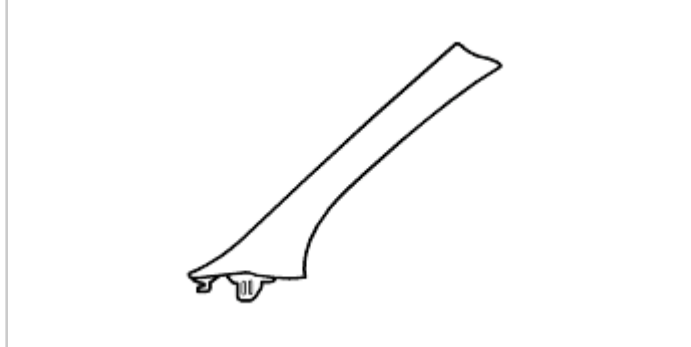
It is used on all four doors of vehicle door opening sills, A, B, and C pillars, front side, rear side and end trim. All door trim on vehicle includes pull handle. Each trim on front two doors provides a pocket for keeping maps, etc.



Removal

A-pillar trim

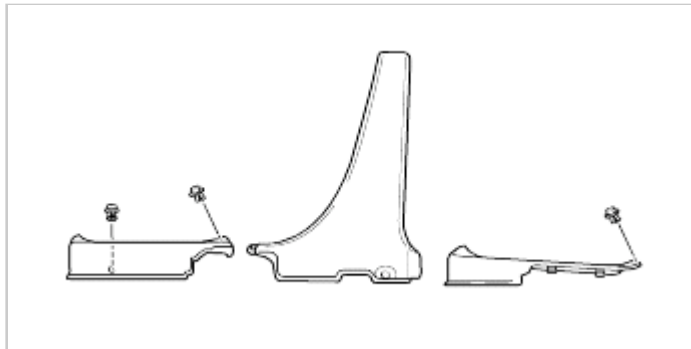
1. Unfasten A-pillar trim with a trim removal tool.
2. Remove A-pillar trim.



Removal

B-pillar lower trim

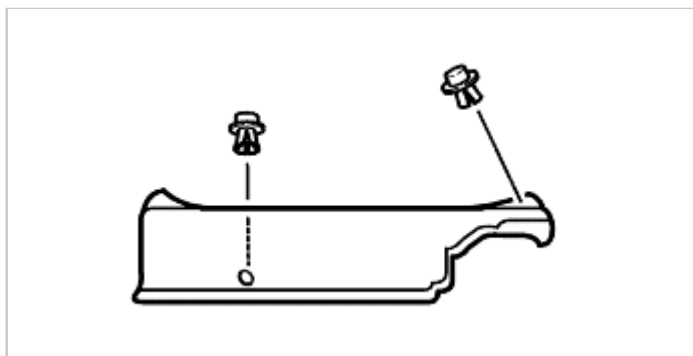
1. Remove two fastener from front scuff plate.
2. Remove front scuff plate.
3. Remove one fastener from rear scuff plate.
4. Unfasten B-pillar lower trim.
5. Remove B-pillar lower trim.



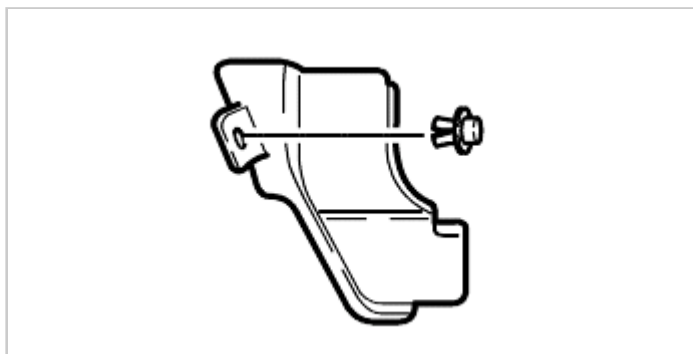
Removal

Front side trim

1. Remove two fasteners on front scuff plate.
2. Remove front scuff plate.



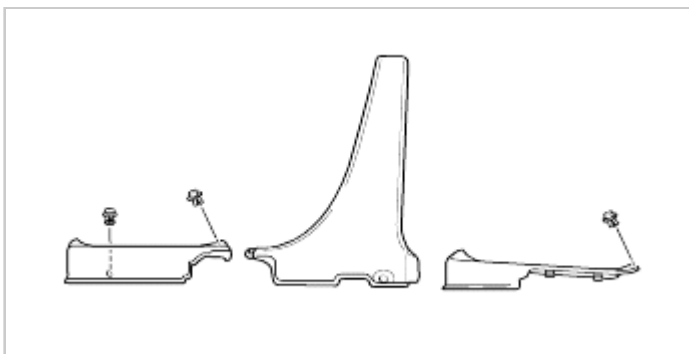
3. Remove one fastener on front side trim.
4. Remove front side trim.



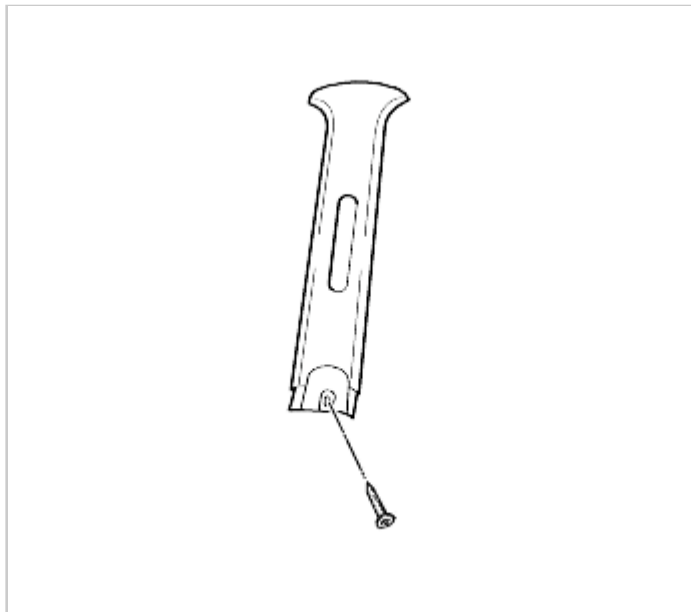
Removal

B-pillar upper trim

1. Unfasten B-pillar lower trim.
2. Remove B-pillar lower trim.
3. Remove seat belt anchor bolt:
 - A. Unfasten seat belt.



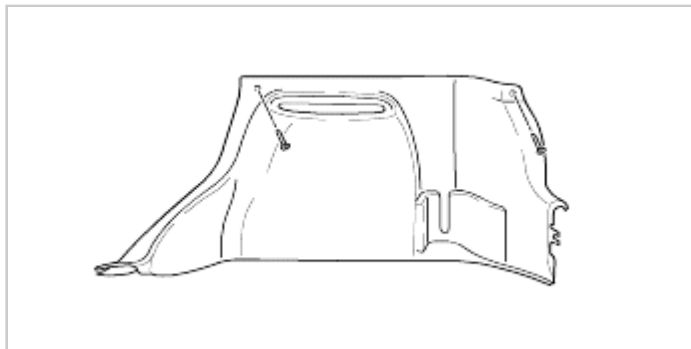
4. Remove one screw from B-pillar upper trim.
5. Remove B-pillar upper trim.



Removal

C-pillar trim

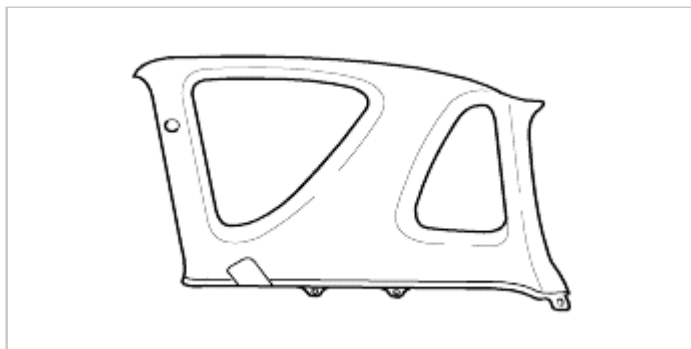
1. Remove trunk end trim.
2. Remove two screw and one fastener from rear quarter trim.
3. Remove rear quarter trim.



4. Remove seat belt anchor bolt.

Tightening torque : 40~47 lb-ft (54~64 N-m, 5.5~6.5 kg-m)

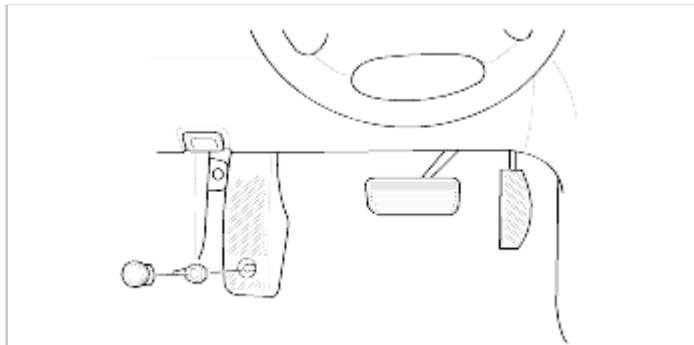
5. Remove seat belt.
6. Unfasten C-pillar trim.
7. Remove C-pillar trim.



Removal

Footrest trim

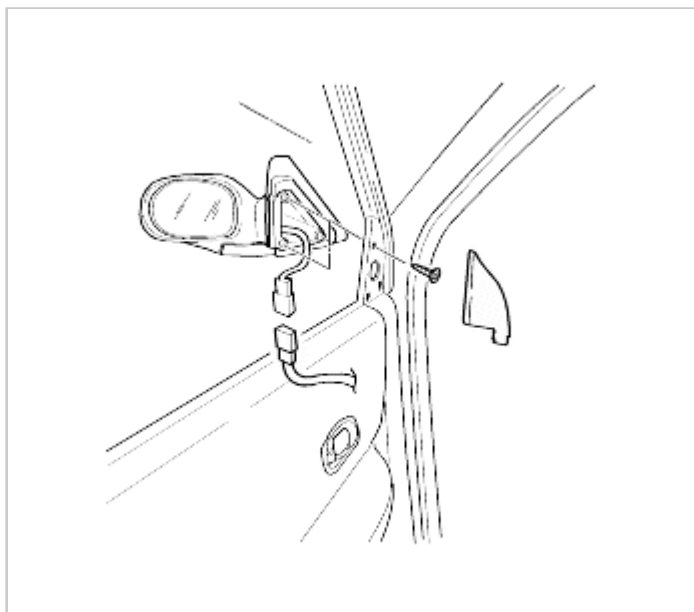
1. Remove rubber cap.
2. Remove one nut.
3. Remove footrest trim.



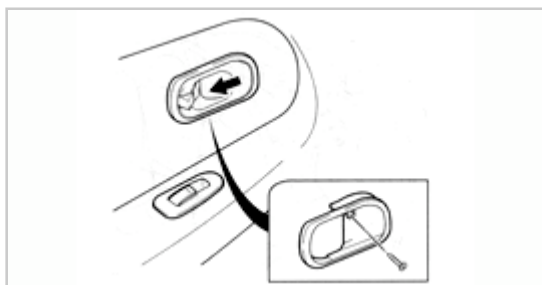
Removal

Front door trim

1. Remove garnish.



2. Remove one screw on inside door handle cover.
3. Remove inside door handle cover.



4. Remove one screw on pull door handle .
5. Remove pull door handle .

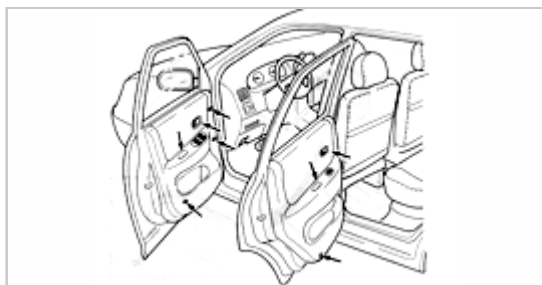


6. Remove two fasteners on front trim.

7. Remove one screw on front trim.

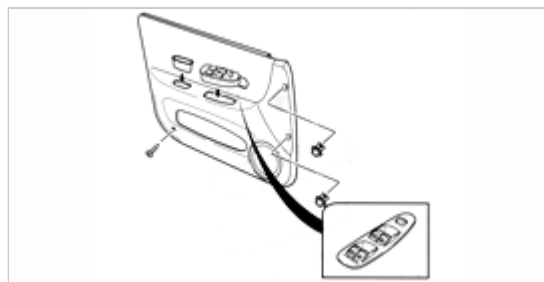


8. Unfasten front door trim.



9. Remove front door trim by lifting front door trim up.

10. Disconnect window operating switch connectors.



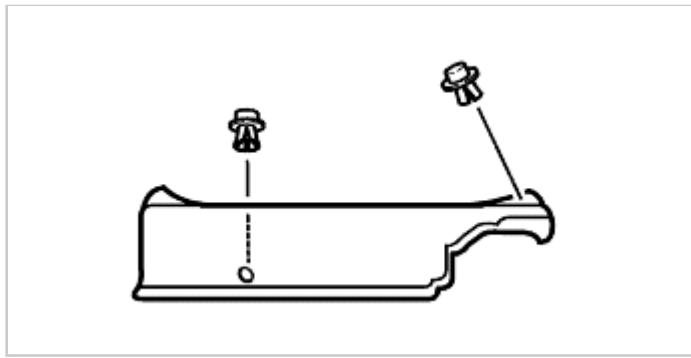
Removal

Front scuff plate

1. Remove four fasteners on front scuff plate.

2. Unfasten front scuff plate.

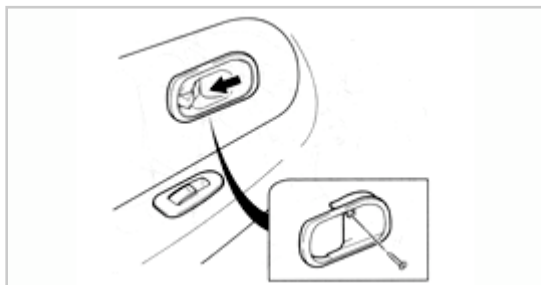
3. Remove front scuff plate.



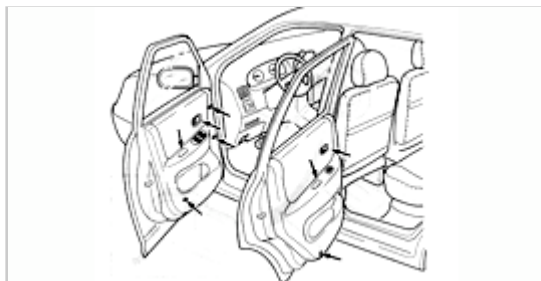
Removal

Rear door trim

1. Remove one screw on inside door handle cover.
2. Remove inside door handle cover.



3. Remove one screw in pull door handle.
4. Remove pull door handle.
5. Install one screw on rear door trim.
6. Unfasten rear door trim.



7. Disconnect window operating switch connector.

Installation

A-pillar trim

1. Position A-pillar trim.
2. Press A-pillar trim into fasten clips.

Installation

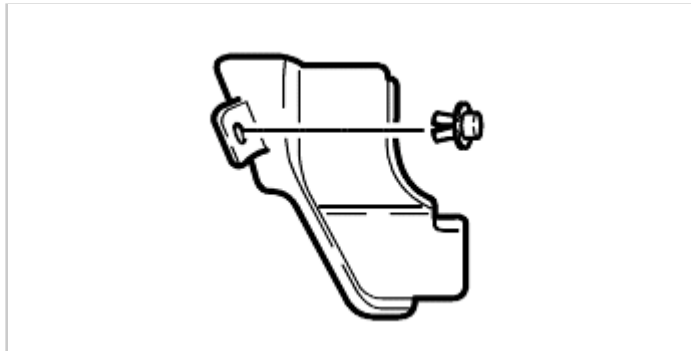
B-pillar lower trim

1. Position B-pillar lower trim.
2. Press B-pillar lower trim in to fasten clips.

Installation

Front side trim

1. Position front side trim.
2. Install one fastener on front side trim.



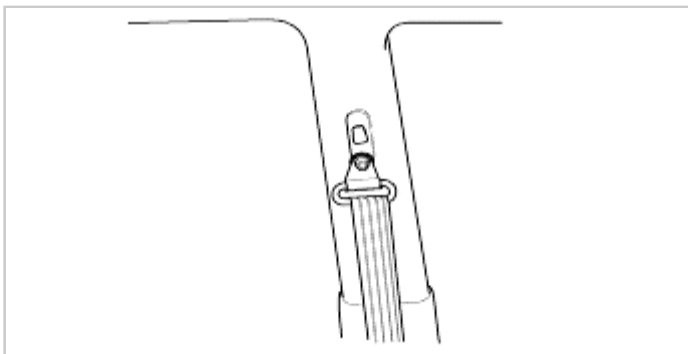
3. Install front scuff plate.

Installation

B-pillar upper trim

1. Position B-pillar upper trim
2. Install one screw.
3. Install seat belt anchor:
 - A. Install one bolt on seat belt anchor.

Tightening torque : 40~47 lb-ft (54~64 N-m, 5.5~6.5 kg-m)

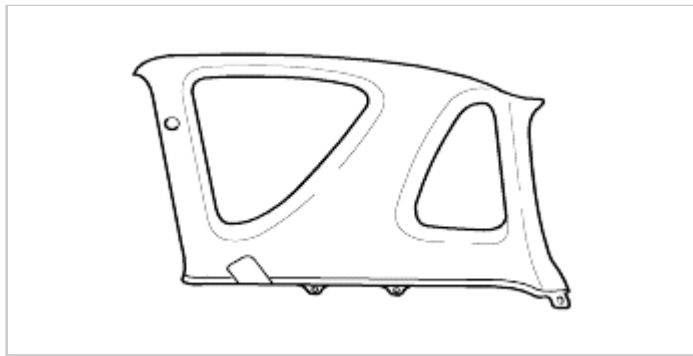


4. Position B-pillar lower trim.
5. Press B-pillar lower trim in to fasten clips.

Installation

C-pillar trim

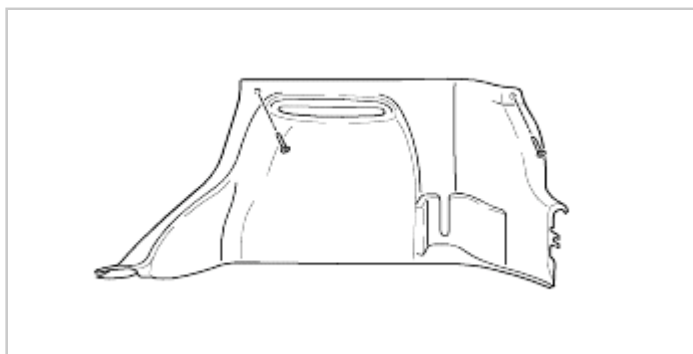
1. Install C-pillar trim.



2. Install seat belt anchor.
3. Install seat belt anchor bolt.

Tightening torque : 40~47 lb-ft (54~64 N-m, 5.5~6.5 kg-m)

4. Install rear quarter trim.



5. Install two screw and one fastener from rear quarter trim.

Tightening torque : 40~47 lb-ft (54~64 N-m, 5.5~6.5 kg-m)

Installation

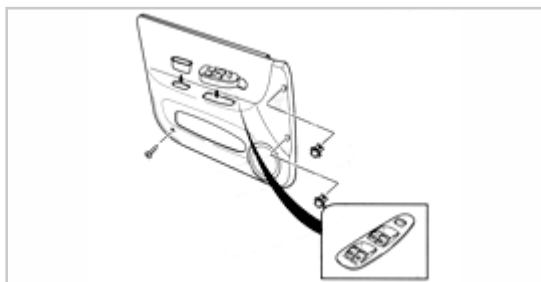
Footrest trim

1. Position footrest trim.
2. Install one nut.
3. Install rubber cap.

Installation

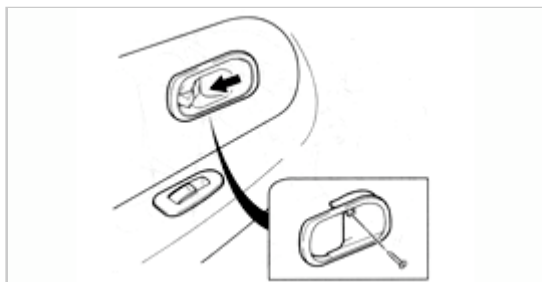
Front door trim

1. Connect window operating switch connectors.



2. Place front door trim.

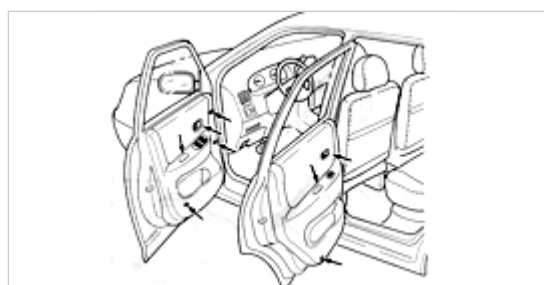
3. Press in front door trim.
4. Install inside door handle cover.



5. Install one screw on inside door handle cover.
6. Install pull door handle .
7. Install one screw on pull door handle.
8. Install one screw of door trim.
9. Install two fasteners of door trim.



10. Install garnish.



Installation

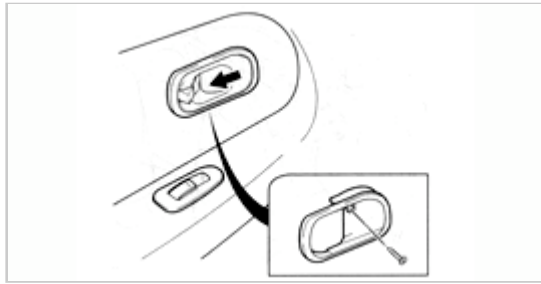
Front scuff plate

1. Position front scuff plate.
2. Press in front scuff plate in to fasten clips.
3. Install four fasteners to front scuff plate.

Installation

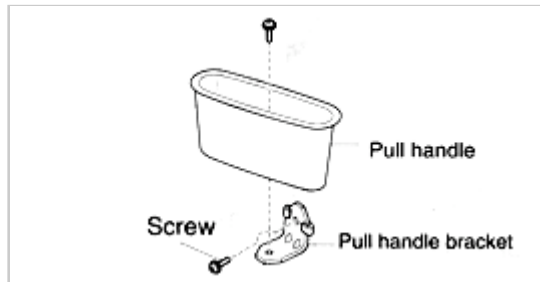
Rear door trim

1. Connect window operating switch connector.
2. Place rear door trim.
3. Install one screw on rear door trim.
4. Install inside door handle cover.
5. Install one screw on inside door handle cover.



6. Place pull door handle.

7. Install one screw on pull door handle.



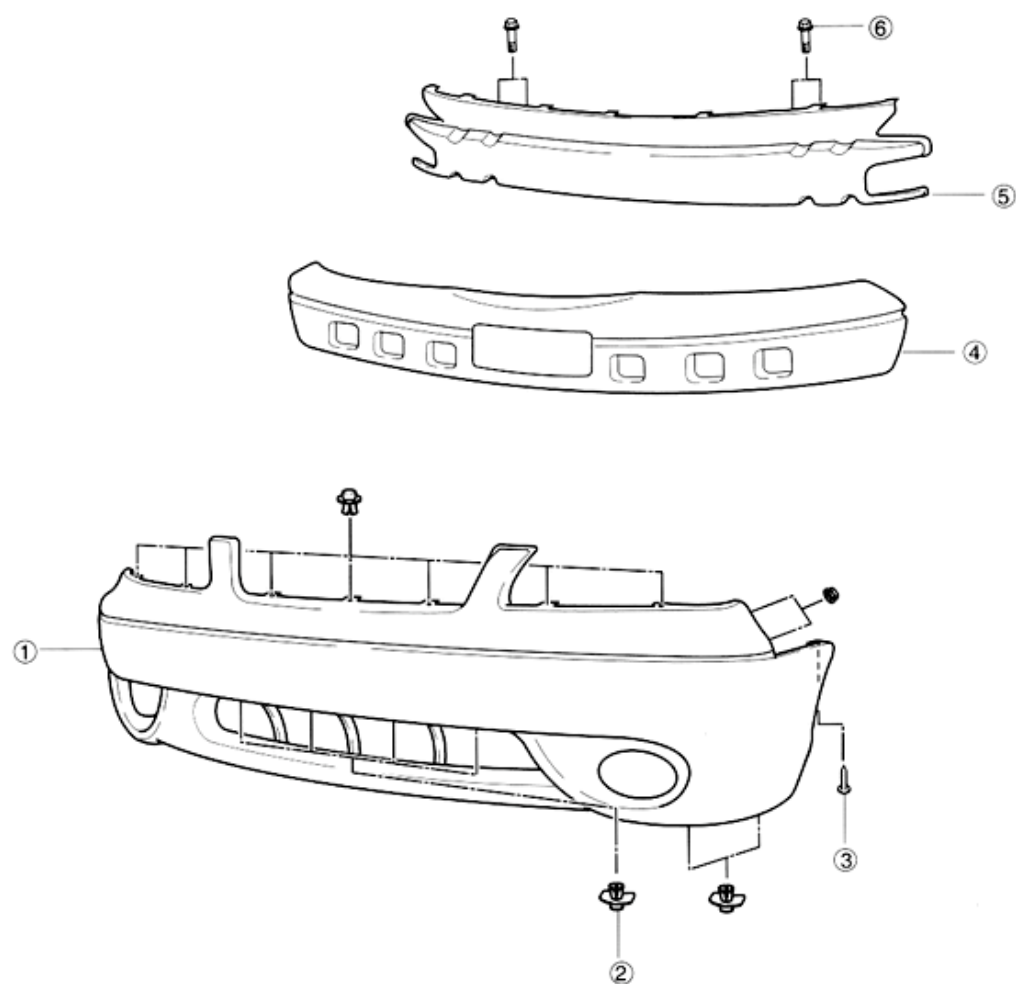


Body (Interior and Exterior)

Bumper - Front Bumper



Component



- (1) Bumper face assembly
- (2) Bumper fastener
- (3) Bumper retaining screw

- (4) Energy absorbent foam
- (5) Reinforcement
- (6) Bumper installation bolt

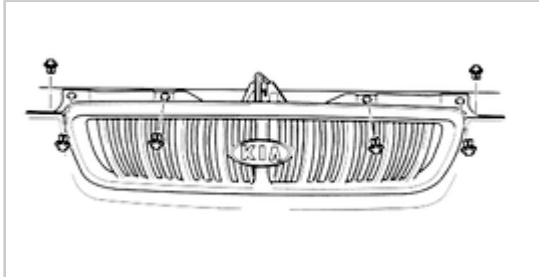


Inspection

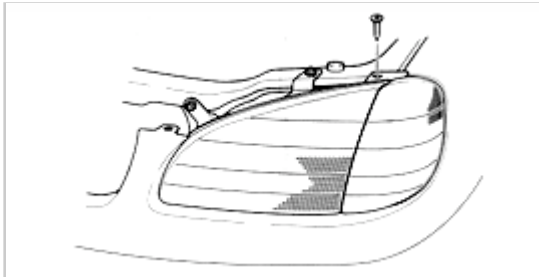
1. Inspect front bumper face for damage and check that front bumper is securely mounted.
2. Inspect front bumper for missing attaching hardware.

Removal

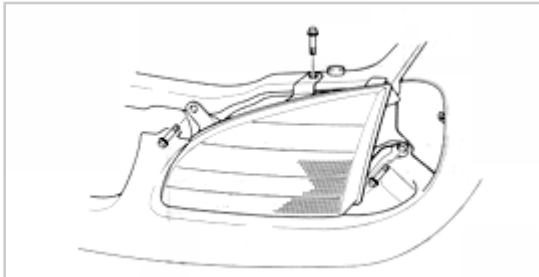
1. Remove radiator grille.



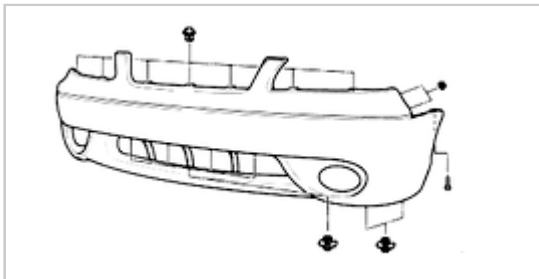
2. Remove left turn signal light assembly.
3. Repeat for right side.



4. Remove left headlight assembly.
5. Repeat for right side.

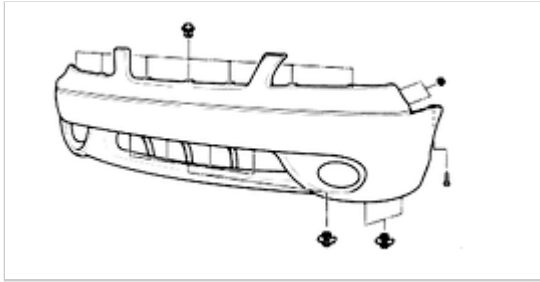


6. Remove two nuts from top of left side of bumper.
7. Repeat for right side.

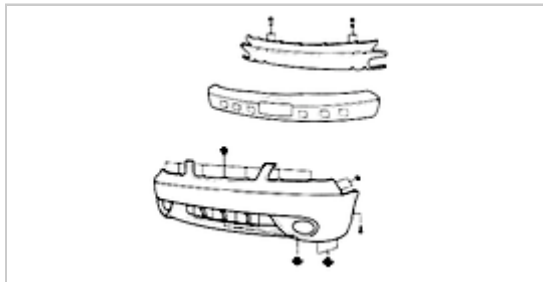


8. Remove three fasteners and one screw from bottom of left mudguard.
9. With pulling mudguard, remove one screw from left side of bumper.

10. Repeat for right side.



11. Remove four fasteners from bottom of bumper.



12. Remove two bolts from left-hand bumper stay.

13. Repeat for right side.

14. Remove front bumper.

Installation

1. Install front bumper in reverse order of removal.

Tightening torque : 23~34 lb-ft 31~46 N-m, 3.2~4.7 kg-m)

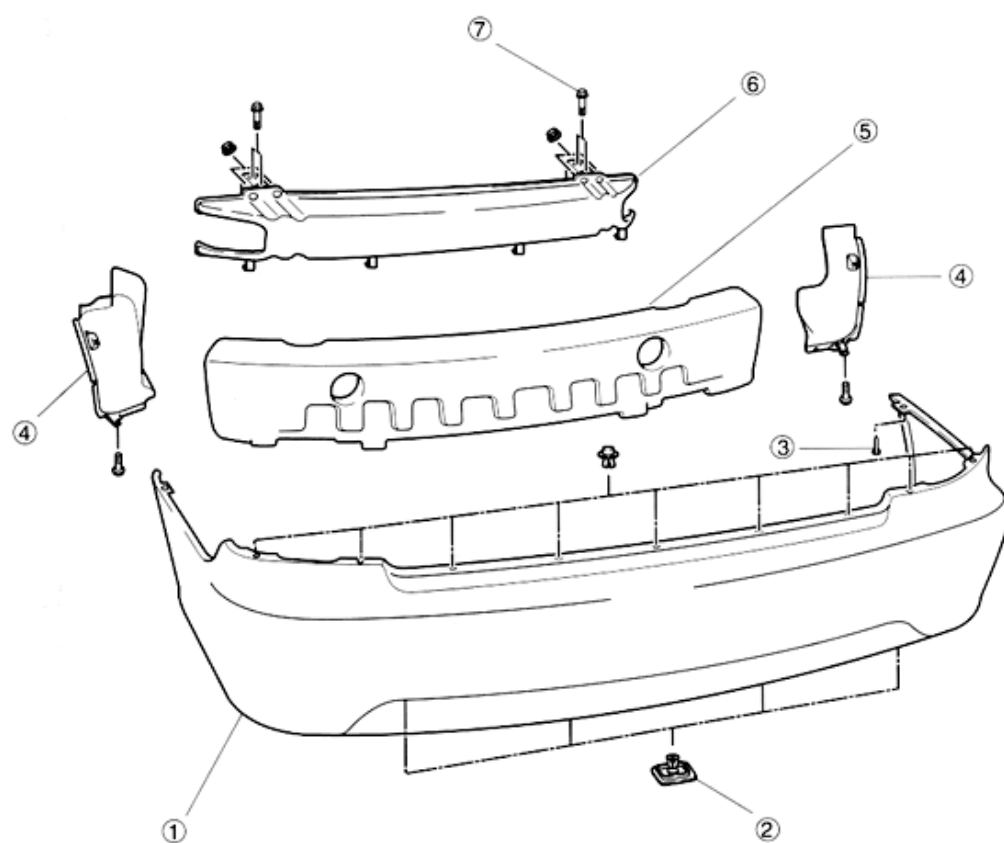


Body (Interior and Exterior)

Bumper - Rear Bumper



Component



- (1) Bumper face assembly
- (2) Bumper fastener
- (3) Bumper retaining screw
- (4) Mud guard

- (5) Energy absorbent foam
- (6) Reinforcement
- (7) Bumper installation bolt

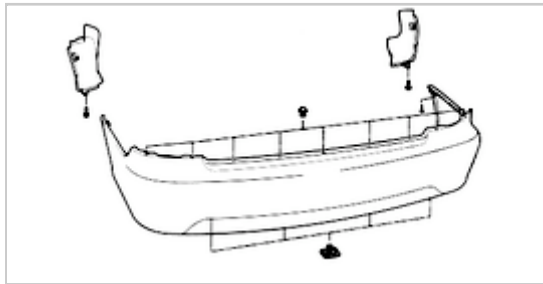


INSPECTION

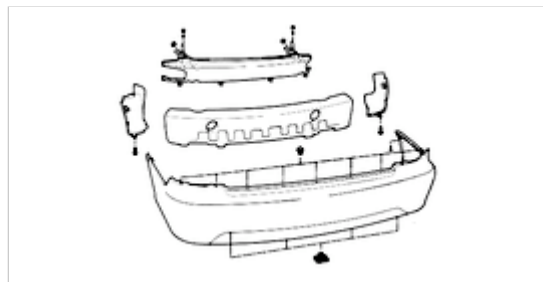
1. Inspect rear bumper face for damage and check that it is securely mounted.
2. Inspect rear bumper for missing attaching hardware.

Removal

1. Remove left rear combination light assembly.
2. Repeat for right side.
3. Remove trunk end trim.
4. Remove rear quarter trim.
5. Repeat for right side.
6. Remove one fastener and three bolts to mudguard.
7. Remove left mud flap.
8. Repeat for right side.
9. Remove one bolt and one fastener that secure right rear mudguard.
10. With pulling left mudguard, remove one screw from left side of bumper.
11. Remove one screw from right side of bumper.



12. Remove two fasteners from top of bumper.
13. Remove two bolts from left rear bumper stay.
14. Repeat right side.
15. Remove rear bumper.



Installation

1. Install in reverse order of removal.

Tightening torque : 23~34 lb-ft (31~46 N-m, 3.2~4.7 kg-m)



Body (Interior and Exterior)

Seat & Power Seat



Description

Front seat

Front seat consists of a seat back and a cushion. Both items are replaceable or serviceable. Both seats can be reclined or adjusted front-to-rear by two levers, adjusting lever and reclining lever. Head restraint can also be adjusted or removed.

Seat adjuster lever is under right or left front corner of either front seat. Pulling on this lever unlocks seat, allowing it to slide forward or backward on a track attached to vehicle floor. Track assembly and seat adjuster lock are replaceable items.

Reclining knuckle lever arm is placed on door side of either seat. If this lever is pulled up and pressure is placed on seat back, seat back will recline. If no pressure is applied, seat will spring forward past vertical driving position. If pressure is applied to seat back, it will recline to vertical driving position and then lock.

Reclining adjuster is a replaceable item.

Driver's seat is also equipped with a lifter lever. This is controlled by a lever on left side of driver's side seat cushion. Lifter control lever is a replaceable item.

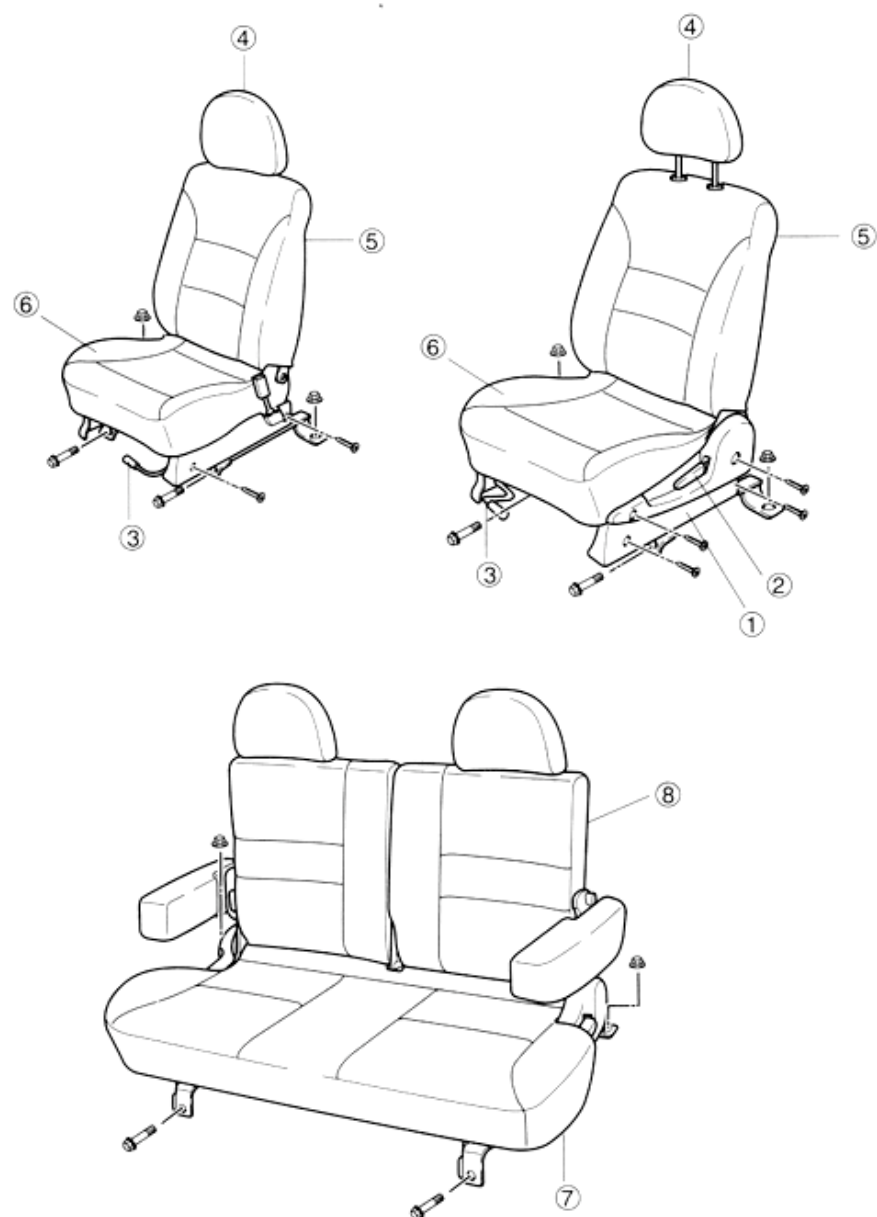
Rear seat

The rear seat consists of two separate seat backs and a single cushion frame. Frame is held in place by two mounted hinges.

Two seatbacks are attached to frame by mounted hinge bushing and brackets.



Component



- (1) Seat side cover
- (2) Reclining lever
- (3) Front seat adjuster
- (4) Head rest

- (5) Front seat back
- (6) Front seat cushion
- (7) Rear seat cushion
- (8) Rear seat back



Body (Interior and Exterior)

Seat & Power Seat - Front Seat



Removal

Front seat

1. Pull reclining lever and let seatback spring forward.
2. Pull seat adjuster and push seat all of the way back.
3. Remove front two mounting bolts.



4. Move seat forward.
5. Remove rear mounting bolt and nut.
6. Remove seat.

Removal

Back cover

1. Remove seat from vehicle.
2. Remove reclining lever knob.



3. Remove four screws on seat side cover.



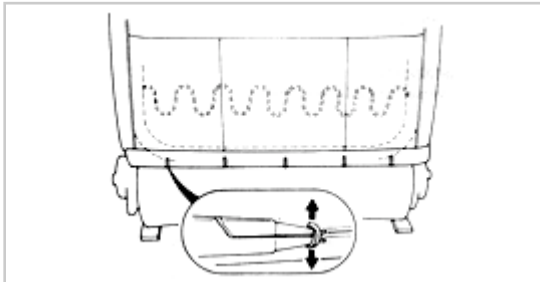
4. Remove side cover.

5. Remove head restraint and pull off holding catches. Replace catches.



6. Remove five hog rings on seatback cover.

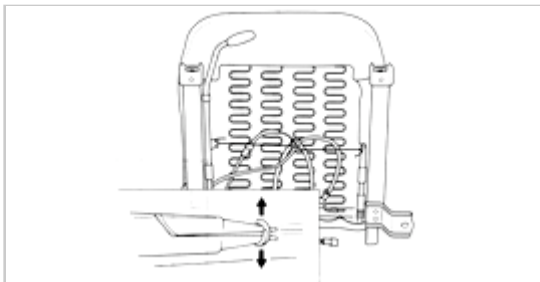
7. Slide seat trim up and off seatback.



Removal

Cushion cover

1. Remove reclining lever.
2. Remove hog rings on underside of seat cushion.
3. Pull cover off of foam cushion.



Removal

Head restraint

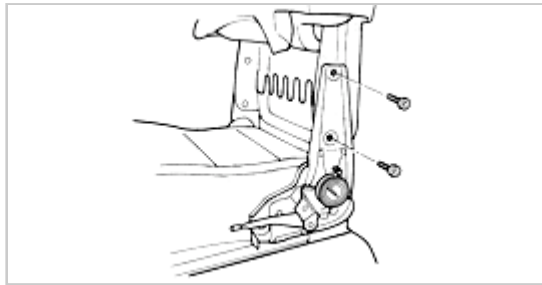
1. Pull headrest up until it locks.
2. Release tab lock and pull headrest off seat.



Removal

Reclining knuckle

1. Follow seat back cover removal steps 1-8.
2. Pull up trim until upper two knuckle mounting bolts are exposed.
3. Remove upper two hex head bolts and remove seatback.



4. Pull knuckle lever and push seat into reclining position.
5. Remove two lower knuckle hex head bolts.
6. Remove reclining knuckle.

Installation

Front seat

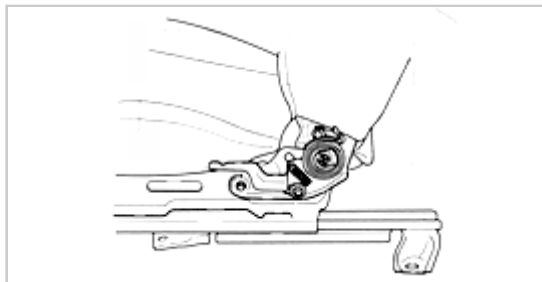
Reverse removal procedures.

Tightening torque : 25~41 lb-ft (35~56 N-m, 3.5~6.7 kg-m)

Installation

Back cover

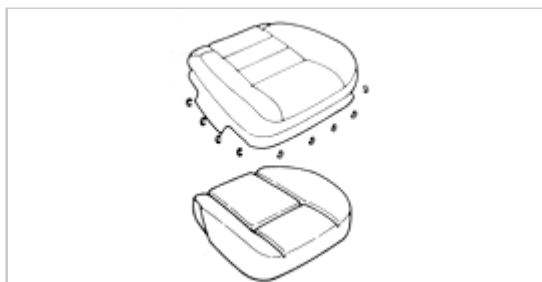
1. Reverse removal procedure.



Installation

Cushion cover

1. Place cover over foam cushion.
2. Install hog rings.
3. Install reclining lever and seatback.



Installation

Head restraint

1. Insert head restraint in holes and push down until it locks.
2. Release lock and adjust position for comfort.

Installation

Reclining knuckle

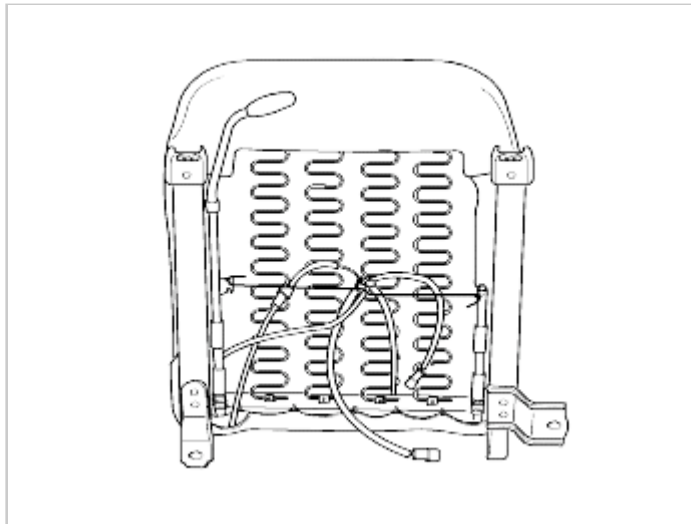
1. Reverse removal procedures.

Tightening torque : 25~41 lb-ft (34~56 N-m, 3.5~5.7 kg-m)

Inspection

Front seat

1. Check that seat adjuster and reclining lever move smoothly.
2. Look under seat and visually check seat adjuster for wear or damage.
3. Apply grease to all exposed moving parts.





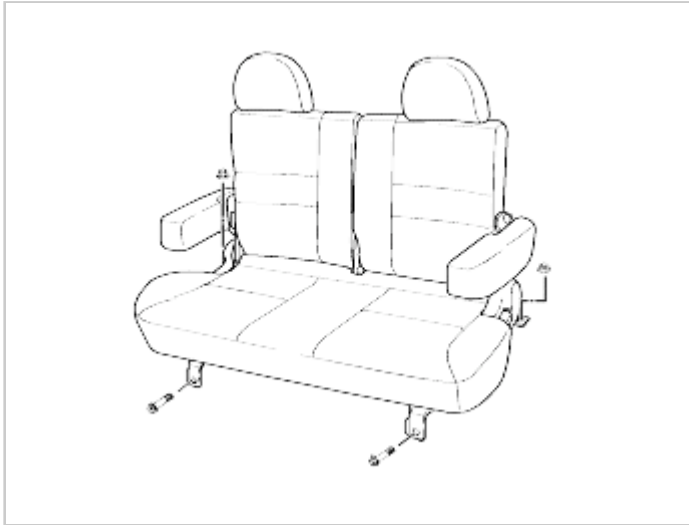
Body (Interior and Exterior)

Seat & Power Seat - Rear Seat



Removal

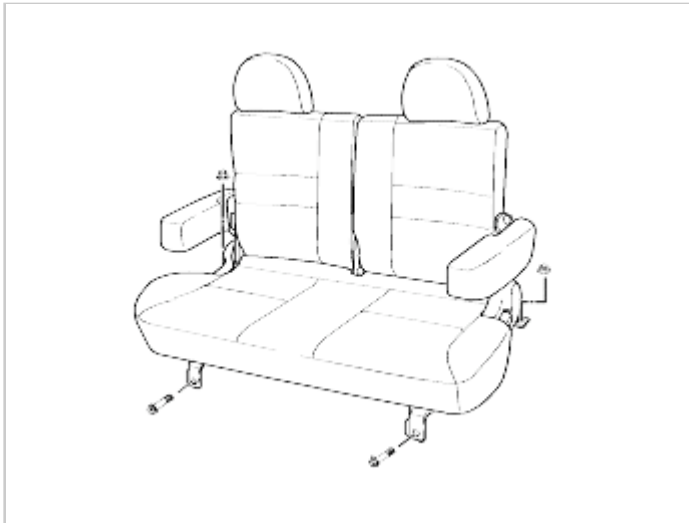
1. Remove front two mounting bolts.
2. Remove rear two mounting nuts.



3. Remove seat.

Installation

1. Reverse removal procedures.





Body (Interior and Exterior)

Seat Belt - Front Seat Belt

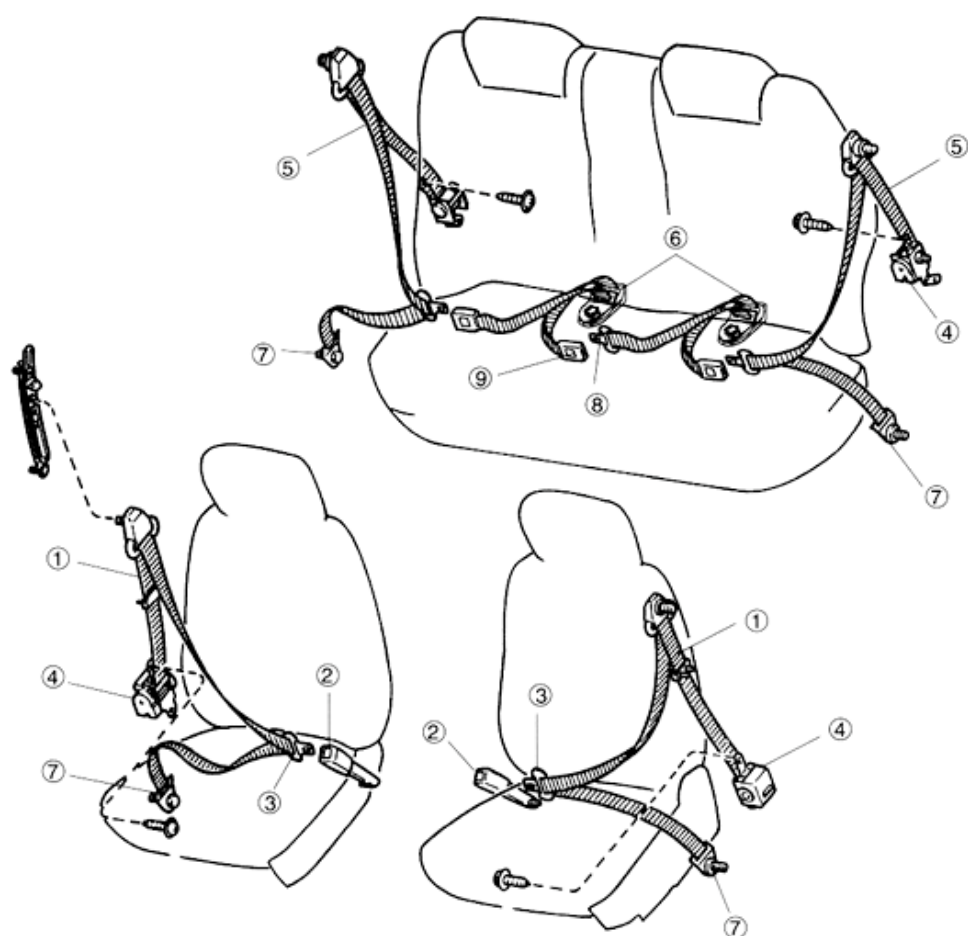


DESCRIPTION

Seat belt system consists of five restraints. Outboard passengers(front and rear) have both shoulder and lap seat belts. Inboard passenger(rear) has only a lap seat belt. Driver's seat belt is equipped with a warning light on dash and an audible chime to remind driver to fasten seat belt. Warning ceases after approximately 60 seconds. There are no warnings on other passengers' belts. Retractors are securely mounted to body. Buckles are also securely mounted to floor.



Component



- (1) Front lap/Shoulder belt assembly
- (2) Front buckle assembly
- (3) Tongue
- (4) Retractor assembly
- (5) Rear lap/Shoulder belt assembly

- (6) Rear center seat belt anchors
- (7) Rear (side) seat belt anchor
- (8) Rear center tongue belt assembly
- (9) Rear center buckle assembly



INSPECTION

1. Inspect buckle assembly mounting to ensure that it is secure.
2. Inspect anchor assembly mounting to ensure that it is secure.
3. Remove B-pillar lower trim. Refer to "Trim" in this section.
4. Inspect retractor assembly mounting to ensure that it is secure.
5. Install B-pillar lower trim.
6. Extend safety belt fully to ensure its motion is smooth and easy.
7. Retract safety belt fully to ensure its motion is smooth and easy.
8. Buckle seat belt. Pull firmly on each side of buckle to ensure that it is secure.
9. Press buckle release button to ensure that it releases correctly and returns to its original position.
Do not disassemble either buckle or retractor assemblies. They are not repairable.
10. Inspect seat belt reminder system with driver's seat belt retracted. Turn ignition key to "ON" position. Seat belt icon on warning and indicator panel will light up and a chime will be heard. Lighted icon and chime indicate that driver's seat belt is not buckled. Chime will not be heard after 5~6 seconds. Turn ignition key to "LOCK" position. Seat belt icon and chime will extinguish. Turn key to "ON" position. Just as before, seat belt icon will light up and chime will be heard. Buckle driver's seat belt. Seat belt icon and chime will extinguish. Turn key to "LOCK" position and remove key.

Removal

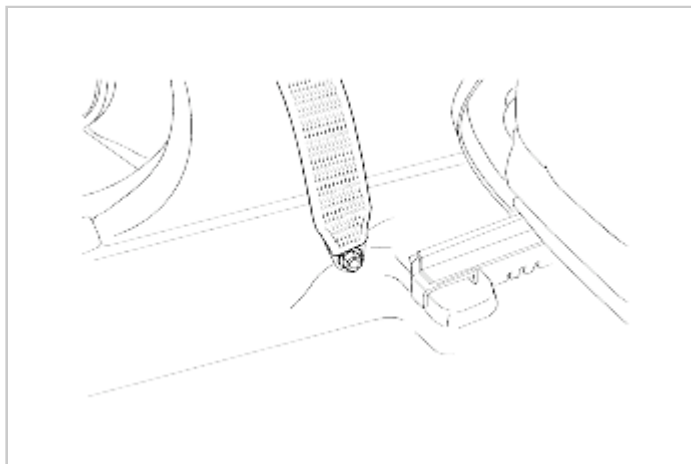
Front buckle assembly

1. Remove screw cover near bottom of assembly.
2. Remove one bolt from mounting bracket.

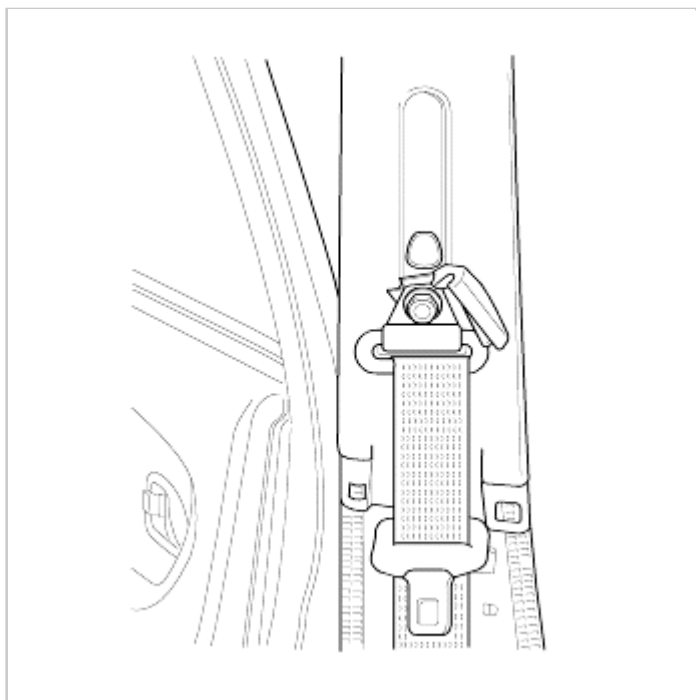
Removal

Front lap/shoulder belt assembly

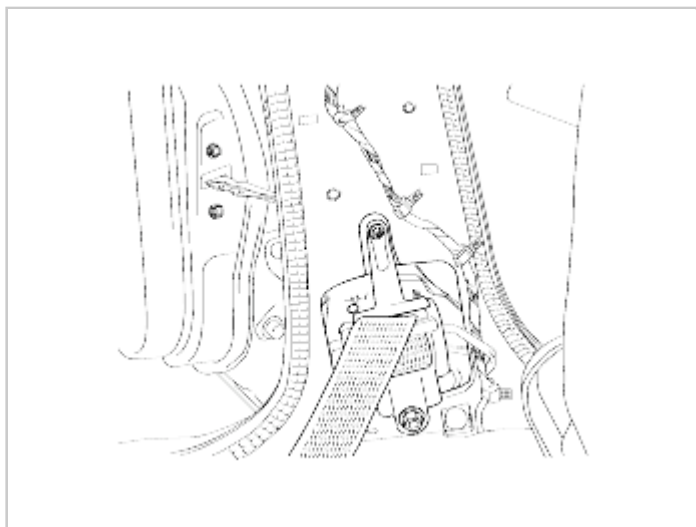
1. Remove one bolt from mounting bracket and remove bracket.



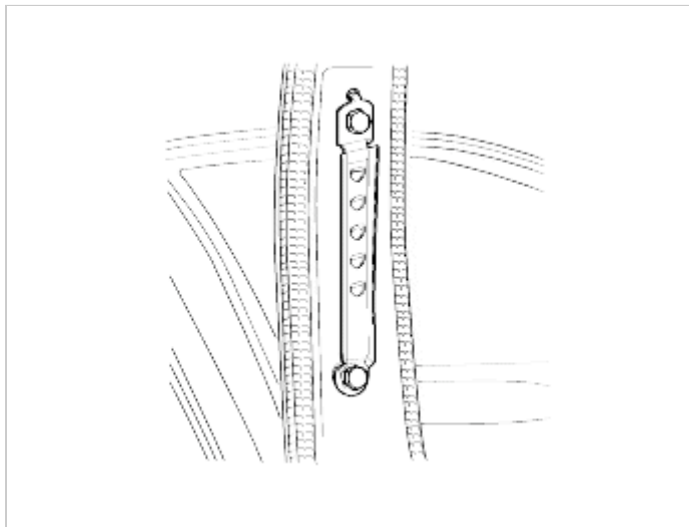
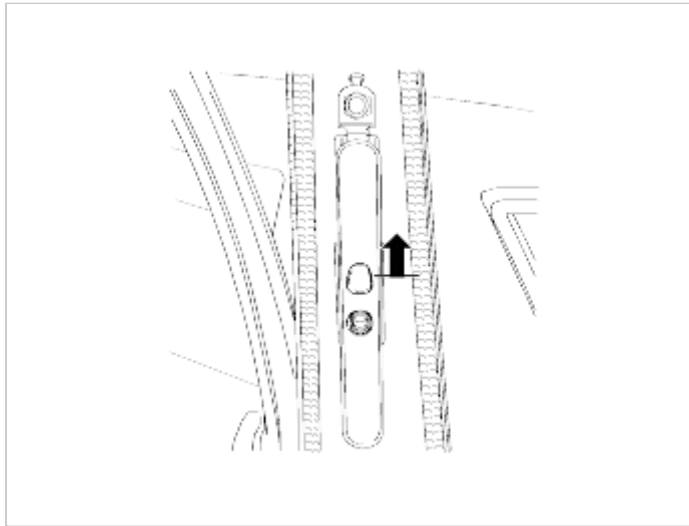
2. Retract belt slowly as far as it will go.
3. Unsnap captive shoulder belt anchor bolt cover from bottom and lift up.
4. Remove one anchor bolt.



5. Remove front scuff plate and rear scuff plate. Refer to "trim" in this section.
6. Remove B-pillar lower trim panel.
7. Remove belt guide.
8. Remove one bolt and one sheet metal screw to remove retractor assembly.



9. Remove B-pillar upper trim. Refer to "trim" in this section.
10. Remove two bolts to attach shoulder adjuster.
11. Remove shoulder adjuster.



Installation

Front buckle assembly

1. Install one bolt through mounting bracket.

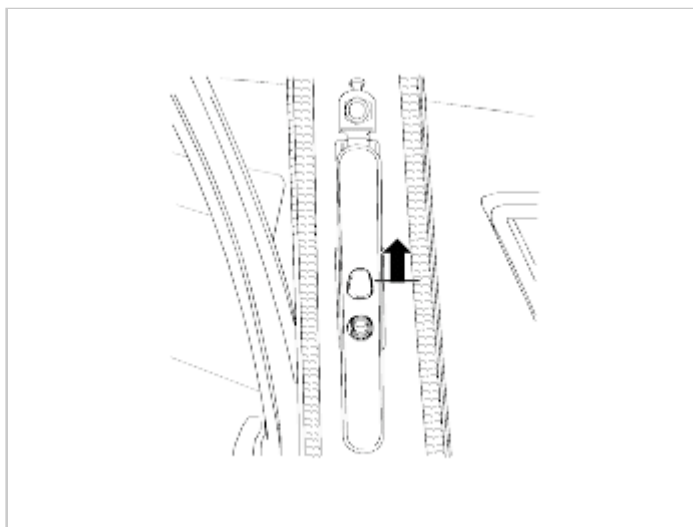
Tightening torque : 40~47 lb-ft (54~64 N-m, 5.5~6.5 k-m)

2. Install screw cover.

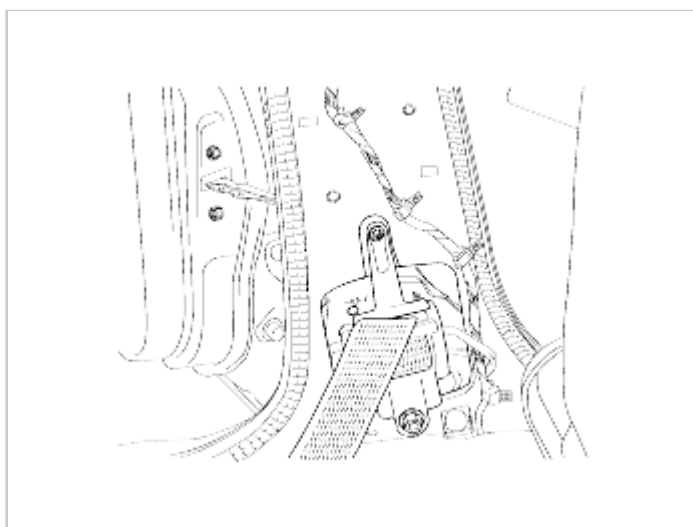
Installation

Front lap/shoulder belt assembly

1. Install shoulder adjuster.
2. Install two bolts to attach shoulder adjuster.



3. Install B-pillar upper trim. Refer to "trim" in this section.
4. Install one bolt and one sheet metal screw to attach retractor assembly.

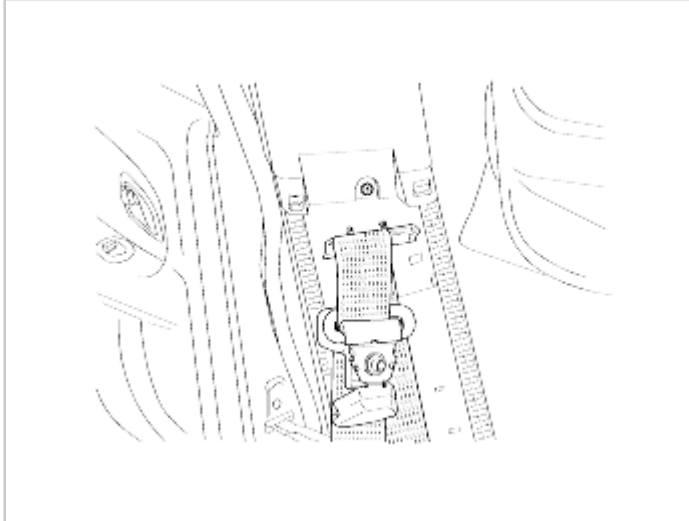


Tightening torque : bolt - 40~47 lb-ft (54~64 N-m, 5.5~6.5 kg-m)

WARNING

EXERCISE CARE TO INSTALL BELT SO THERE ARE NO TWISTS IN IT. A TWISTED BELT MAY BE HARMFUL TO A PASSENGER IN A SERIOUS ACCIDENT. A TWISTED BELT ALTERS DISTRIBUTION OF FORCE RESULTING FROM SUDDEN DECELERATION.

5. Install belt guide.

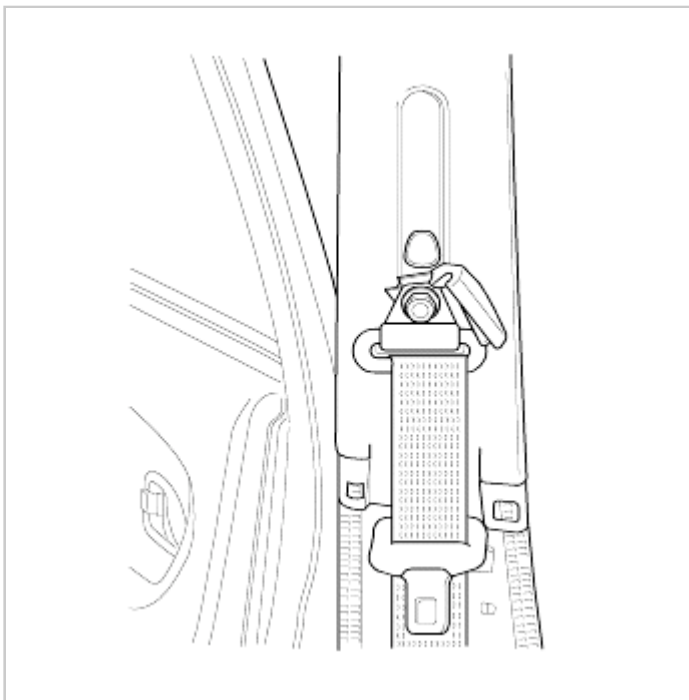


6. Install B-pillar upper trim.

7. Install B-pillar lower trim.

8. Install anchor bolt.

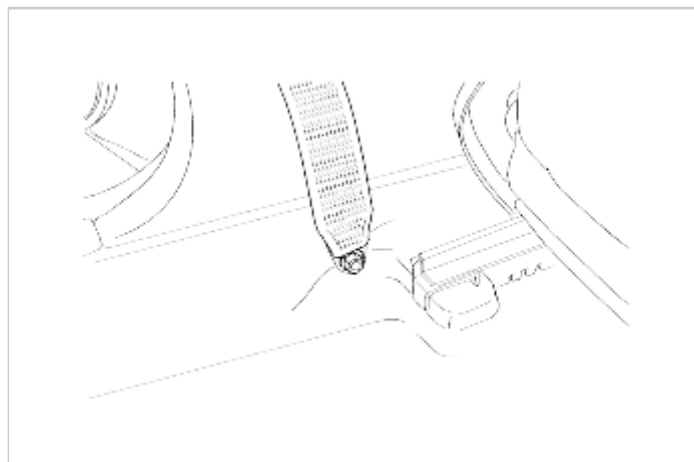
Tighten anchor bolt to : 40~47 lb·ft (54~64 N·m, 5.5~6.5 kg·m)



9. Install bolt cover.

10. Install one bolt through lap belt mounting bracket.
-

Tightening bolt to 40~47 lb·ft (54~64 N·m, 5.5~6.5 kg·m)





Body (Interior and Exterior)

Seat Belt - Rear Seat Belt



Removal

Rear buckle assembly

1. Pull safety belts to rear through seats.
2. Remove one bolt from rear buckle assembly mounting bracket.

Removal

Rear lap/shoulder belt assembly

1. Remove one bolt from lap belt mounting bracket.
2. Remove anchor bolt.
3. Remove rear quarter trim. Refer to "trim" in this section.
4. Remove one bolt and one sheet metal screw to attach retractor assembly.

Installation

Rear buckle assembly

1. Install mounting bolt through bracket.

Tightening mounting : 40~47 lb·ft (54~64 N·m, 5.5~6.5 kg·m)

2. Feed buckle between seat back and cushion without any twists.

Installation

Rear lap/shoulder belt assembly

1. Install retractor mounting bolt and sheet metal screw.

Tightening torque : bolt : 40~47 lb·ft (54~64 N·m, 5.5~6.5 kg·m)

2. Install rear quarter trim. Refer to "trim" in this section.
3. Install anchor bolt.

Tightening torque : 40~47 lb·ft (54~64 N·m, 5.5~6.5 kg·m)

4. Install one bolt from lap belt mounting bracket.

Tightening torque : 40~47 lb·ft (54~64 N·m, 5.5~6.5 kg·m)

Inspection

1. Inspect three buckle assembly mountings to ensure that they are secure. (This is done from rear of vehicle.)
2. Inspect remaining belt's mounting to ensure that it is secure. (This is done from rear of vehicle.)
3. Pull seat belts to rear between seatback and cushion.
4. Inspect outboard lap belt mountings to ensure that they are secure.
5. Remove rear quarter trim.
6. Inspect retractor assembly mountings to ensure that they are secure.