

INFORMATION Redacted PURSUANT TO THE FREEDOM OF
INFORMATION ACT (FOIA), 5 U.S.C . 552(B)(6)

EA12-008

HYUNDAI-KIA

2-1-2013

RESPONSE TO REQUEST 4

8 PAGE 4

11 PAGE 18

14 PAGE 109

26 PAGE 114

33 PAGE 158

EA12-008

HYUNDAI-KIA

2-1-2013

RESPONSE TO REQUEST 4

REPORT -

Attorney_Letter_Winston

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Friday, May 04, 2012

Hyundai Motor America
P.O. Box 20850
Fountain Valley, CA 92728-0850

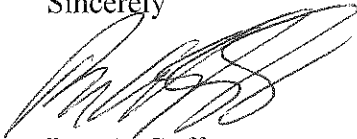
Gentlemen:

Our firm represents [REDACTED]. On April 7, 2012 he was driving a 2012 Hyundai, KMHDH4AE7CU [REDACTED] when it was struck in the left front by another vehicle causing the driver side airbag to deploy. When it did, a sharp piece of metal was driven into his left ear cutting it severely and puncturing the ear drum. The vehicle was about a month old at the time of the accident. He does not believe the airbag functioned as intended and that the injury to his ear was caused by the airbag. He has sustained permanent injury as the result of this failure.

The vehicle is available for your inspection at the Goodwin Wrecker in Longview. His insurance carrier has declared the vehicle a total loss and desires to sell it for salvage, therefore, time to do this inspection is limited. If you will contact me, I will make arrangements for your inspection.

Thank you for your consideration.

Sincerely



Ben A. Goff
Attorney

cc [REDACTED]

MAY - 8 2012

EA12-008

HYUNDAI-KIA







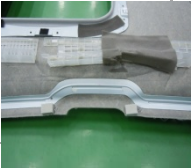






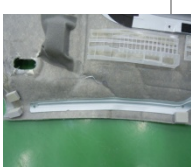




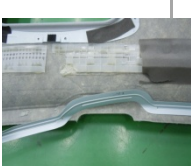



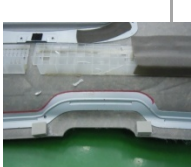

2-1-2013

RESPONSE TO REQUEST 8

Deployment

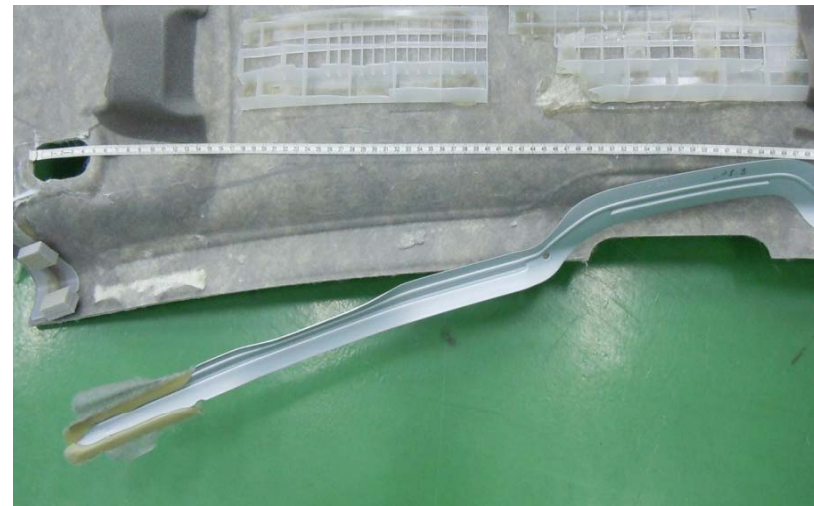
8_EA12-008_DEPLOYMENT
TESTS

Replication verification test

NO	Date	Classification	Result	Deployment test photos			
				All	BRKT FR	BRKT CTR	BRKT RR
1	5/23/2012	Normal production part from assembly line.	Support bracket remained attached to headliner substrate.				
2	5/23/2012	<ul style="list-style-type: none"> Support bracket attached with spray adhesive. Hot melt adhesive not applied to ends of support bracket. 	Support bracket remained attached to headliner substrate.				
3	5/23/2012	<ul style="list-style-type: none"> Partial (approximately 50%) coverage of support bracket adhesive (gaps in coverage). Ends of support bracket secured with hot melt adhesive per production procedures. 	Support bracket remained attached to headliner substrate.				
4	5/23/2012	<ul style="list-style-type: none"> Partial (approximately 50%) coverage of support bracket adhesive (gaps in coverage). Hot melt adhesive not applied to ends of support bracket. 	Support bracket remained attached to headliner substrate.				
5	5/23/2012	<ul style="list-style-type: none"> Spray adhesive not applied to support bracket surface Ends of support bracket secured with hot melt adhesive per production procedures. 	Front portion of support bracket was displaced downward.				
6	5/23/2012	<ul style="list-style-type: none"> Sample production part from assembly line. Upper portion of support bracket displaced (adhesive separated) 5 mm along front section (650 mm) of support bracket. 	Support bracket remained attached to headliner substrate.				

■ Replication verification test

1. Weakened product : Bond SPRAY full surface non-application + Hot Melt application
Test result : Displacement outside Headlining



EA12-008

HYUNDAI-KIA

2-1-2013

RESPONSE TO REQUEST 8

Inspection

8_EA12-008_INSPECTION

PHOTOGRAPHS

MD headlining BRKT inspection results



VIN	KMHDH41DBC[REDACTED]	Inspection date	'12.06.06
License No.	[REDACTED]	Production date	'12.01.13

Photo



VIN	KMHDH41DBC[REDACTED]	Inspection date	'12.06.05
License No.	[REDACTED] ([REDACTED])	Production date	'12.01.14

Photo

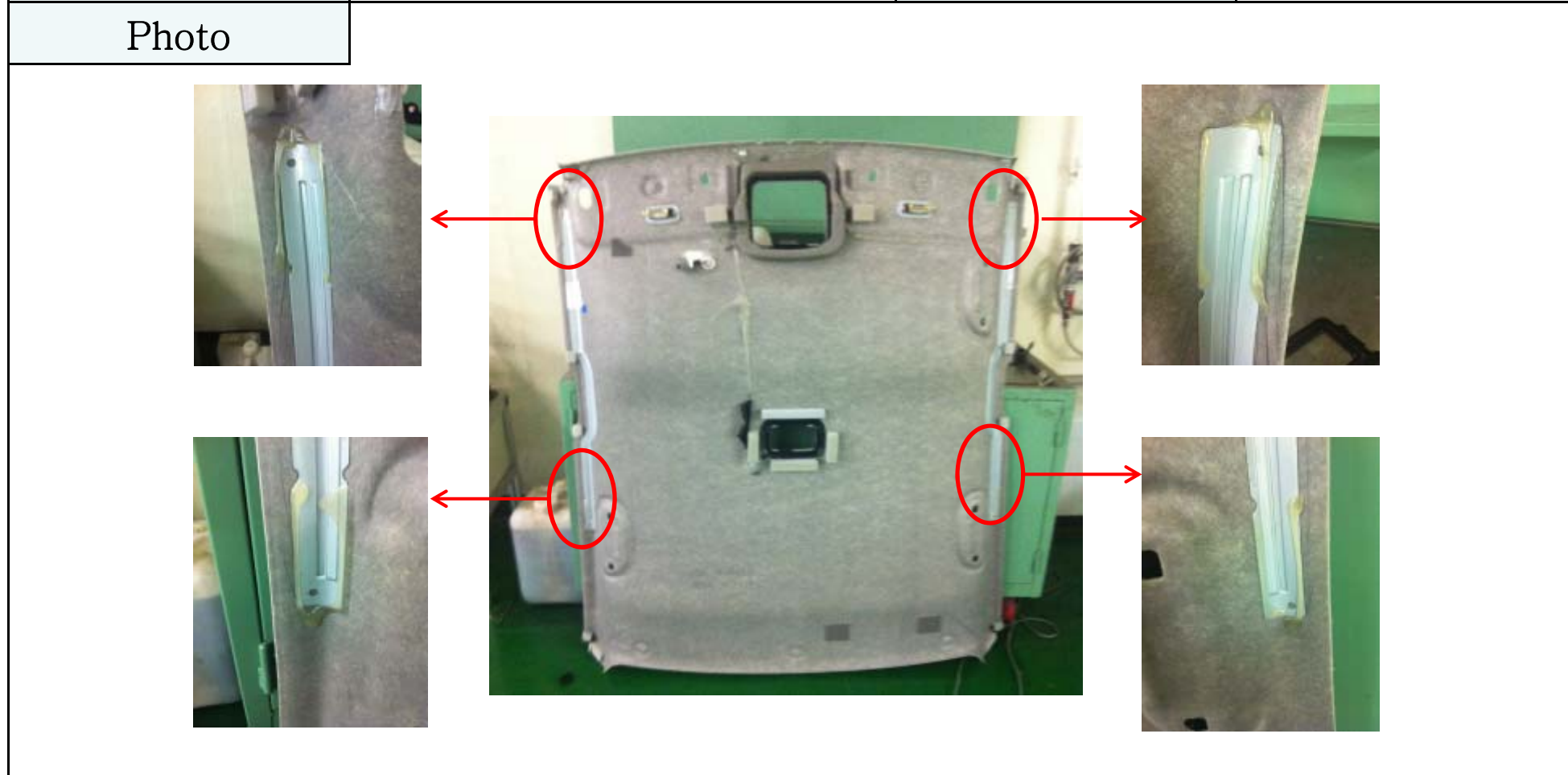


VIN	KMHDH41DBC[REDACTED]	Inspection date	'12.06.07
License No.	[REDACTED] ([REDACTED])	Production date	'12.01.16

Photo



VIN	KMHDH41DBC[REDACTED]	Inspection date	'12.06.01
License No.	[REDACTED]	Production date	'12.01.16



VIN	KMHDG41DBCU [REDACTED]	Inspection date	'12.06.04
License No.	[REDACTED]	Production date	'12.01.18

Photo



VIN	KMHDH41DBC[REDACTED]	Inspection date	'12.06.04
License No.	[REDACTED]	Production date	'12.01.18



VIN	KMHDH41DBCU [REDACTED]	Inspection date	'12.06.07
License No.	[REDACTED]	Production date	'12.01.19



VIN	KMHDH41DBCU [REDACTED]	Inspection date	'12.06.05
License No.	[REDACTED]	Production date	'12.01.09

Photo



EA12-008

HYUNDAI-KIA

2-1-2013

RESPONSE TO REQUEST 8

Inspection

8_EA12-

008_INSPECTION_MATRIX

Sample no.	VIN	Headliner Part Number	Vehicle manufacture date	Headliner date of manufacture	Result
1	KMHDH41DBC	Non-sunroof	2012.01.13	2012.01.11	Support brackets firmly adhered to headliner substrate
2	KMHDH41DBC	Non-sunroof	2012.01.14	2012.01.09	Support brackets firmly adhered to headliner substrate
3	KMHDH41DBC	Non-sunroof	2012.01.16	2012.01.14	Support brackets firmly adhered to headliner substrate
4	KMHDH41DBC	Non-sunroof	2012.01.16	2012.01.12	Support brackets firmly adhered to headliner substrate
5	KMHDG41DBC	Sunroof	2012.01.18	2012.01.16	Support brackets firmly adhered to headliner substrate
6	KMHDH41DBC	Non-sunroof	2012.01.18	2012.01.17	Support brackets firmly adhered to headliner substrate
7	KMHDH41DBC	Sunroof	2012.01.19	2012.01.16	Support brackets firmly adhered to headliner substrate
8	KMHDH41DBC	Non-sunroof	2012.01.09	2012.01.07	Support brackets firmly adhered to headliner substrate

EA12-008

HYUNDAI-KIA

2-1-2013

RESPONSE TO REQUEST 11

11_EA12-008_1

■ MDa accident vehicle' s present condition study details

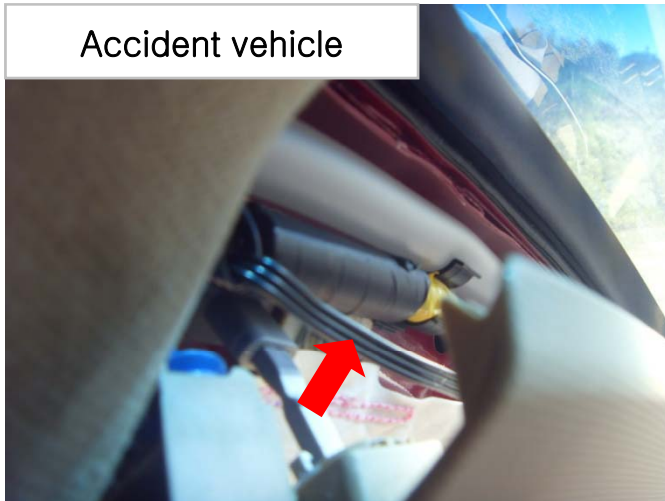
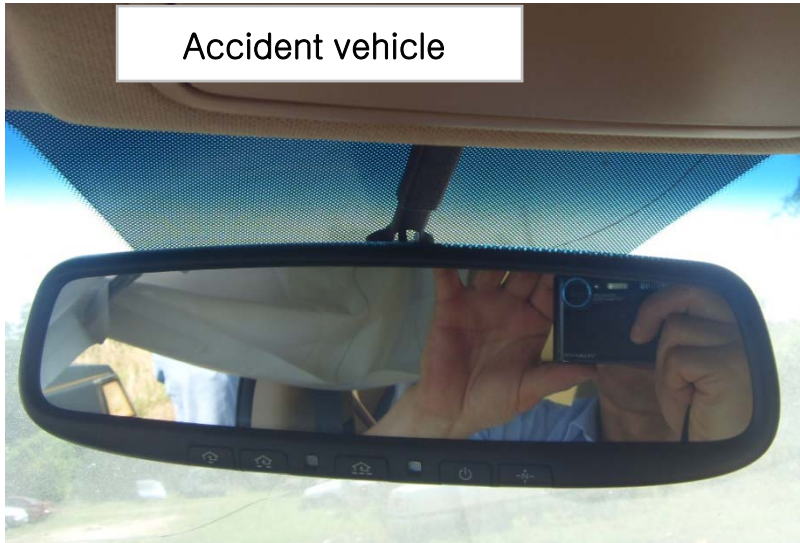
Summary of business trip	<ul style="list-style-type: none"> ■ Date : 5/22/2012 (Tu.) ~ 5/25 (Fri.) (4 M/DAY) ■ Place : City of Longview , Texas, USA ■ No. of people on business trip : Total of 4 people(2 from HMC , 2 from HMA) <ul style="list-style-type: none"> - Interior Design Team:Parts Leader Lee, Ho Dal, Crash Performance Development Team: Parts Leader Kang, Ki Hong - Jason Erb, Steve Johnson
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Plan of inspection	<ul style="list-style-type: none"> ■ Schedule of business trip 			
	Date	5/22	5/23	5/24 ~ 5/25
	Content	Departure trip, Study measure pre-consultation and preparation	Vehicle study	Entry trip
	<ul style="list-style-type: none"> ■ Main study details <ul style="list-style-type: none"> - I/SIDE MIRROR irregular specification application : From A-PLR lower end part to H/LIN'G CTR part, WIR'G work, H/LIN'G Cutting work → Dealer OPT supplied category or from customer replacement work recognition in the process being determined - Hot melt application volume is small and uneven application - BRKT spray adhesive application volume assumed to be uneven 			

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I/S MIRROR Specification Difference

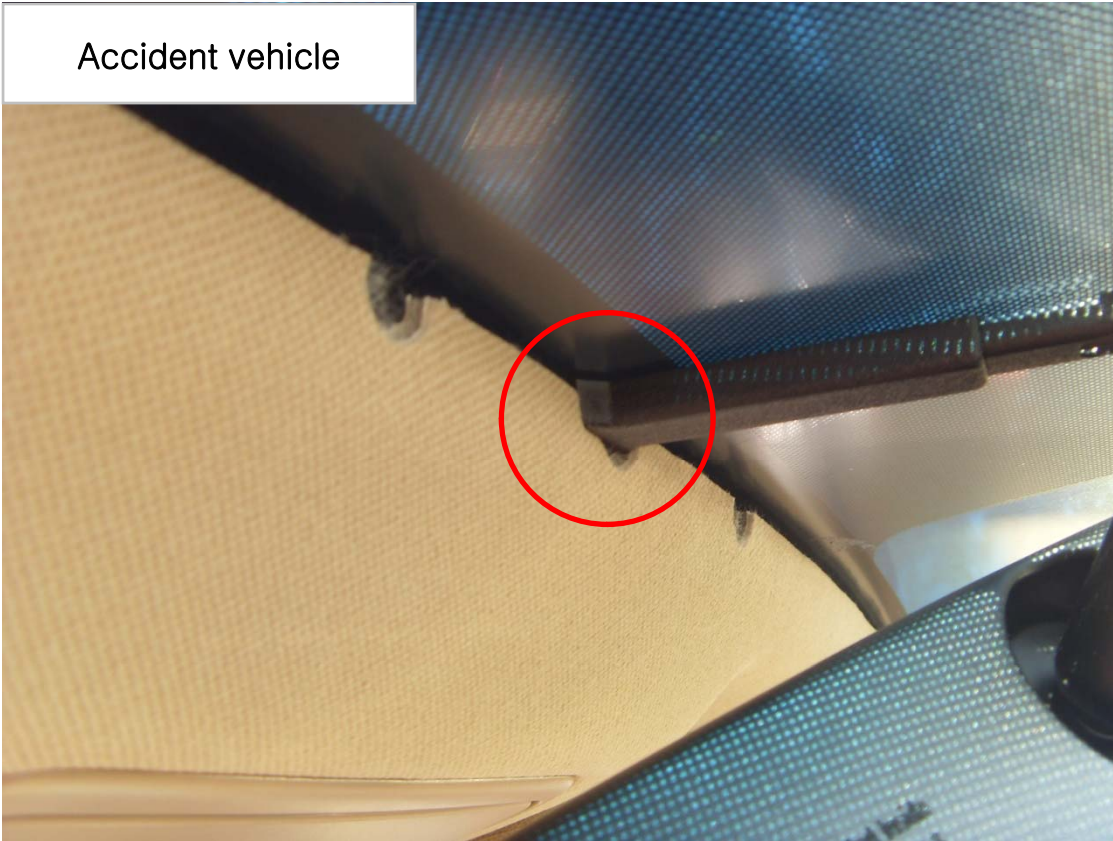
- I/S MIRROR specification difference : Replacement work performed
 - WIR'G work from lower end part of A-PLR to H/LIN'G CTR part



I/S MIRROR specification difference

- I/S MIRROR specification difference : Replacement work performed
 - MIRROR COVER part H/LIN'G CUTT'G work

Accident vehicle



Regular specification



H/LIN'G deployment line

▣ H/LIN'G deployment line

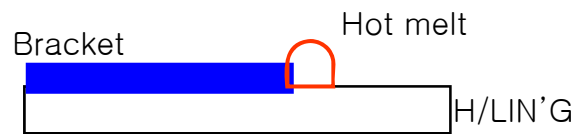
- CTR part slightly different from actual vehicle TEST, but CAB deployment is normal



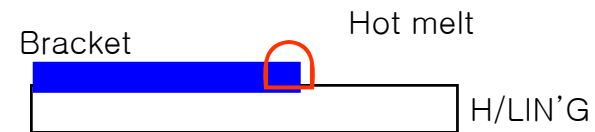
Actual vehicle H/LIN'G deployment line
- TEST : 5/15

BRKT hot melt adhesion condition

- Hot melt application volume is small and application condition is uneven
 - BRKT upper end part : Application volume is small and leans toward H/LIN'G part in application
 - BRKT lower end part : Application volume is small, but application is uniformly even with H/LIN'G



BRKT upper end part



BRKT lower end part

BRKT spray adhesion

- ▣ Spray adhesive application volume assumed as uneven
 - Non-woven fabric is stuck in BRKT lower end part and is raised, upper end part lacks adhesive (Blue color adhesive is light)



BRKT displacement form

- Excluding some rear side, overall displacement
→ CAB deployment anticipated in the condition of BRKT separated from H/LIN'G



Vehicle deformation condition



→ Accident circumstance detail verification anticipation (with HMA)
From left side impact form, hood/fender/tire area deformation occurrence



There is no LH SIDE door and left side body damage

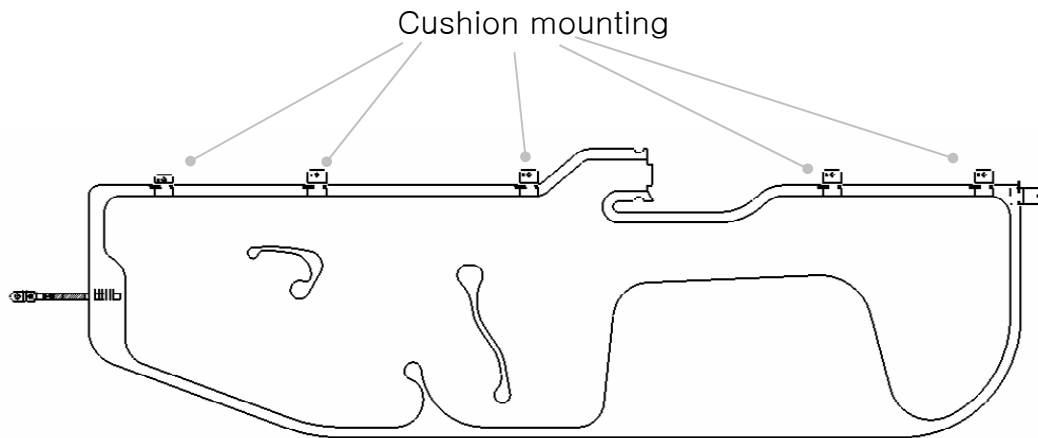


Body deformation area detailed photo-S/MBR mid part bending occurs



No damage to RH SIDE door and side body

CAB configuration verification



1. Cushion configuration verification

: No front/rear seat padding abnormality and no damage area

2. Cushion mounting verification

: 5 units of mounting visual check complete: No abnormality



No abnormal front seat part cushion configuration



No abnormal rear seat part cushion configuration

EA12-008

HYUNDAI-KIA

2-1-2013

RESPONSE TO REQUEST 11

11_EA12-008







































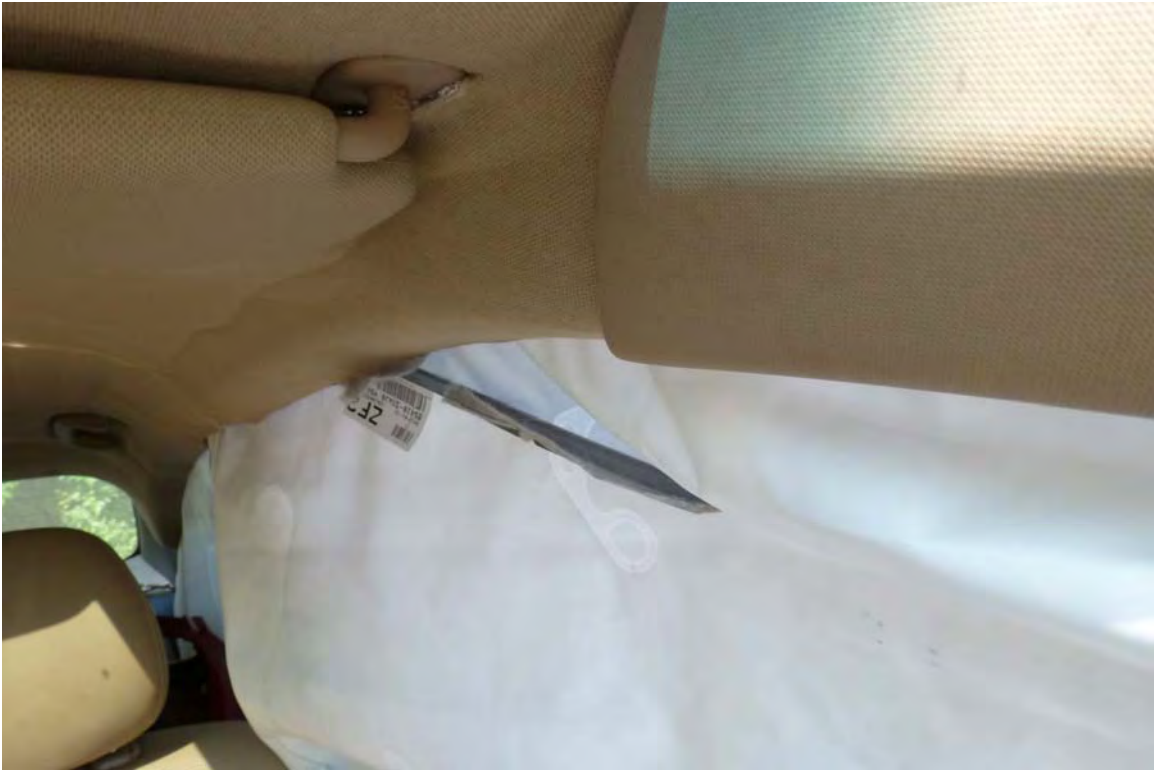




































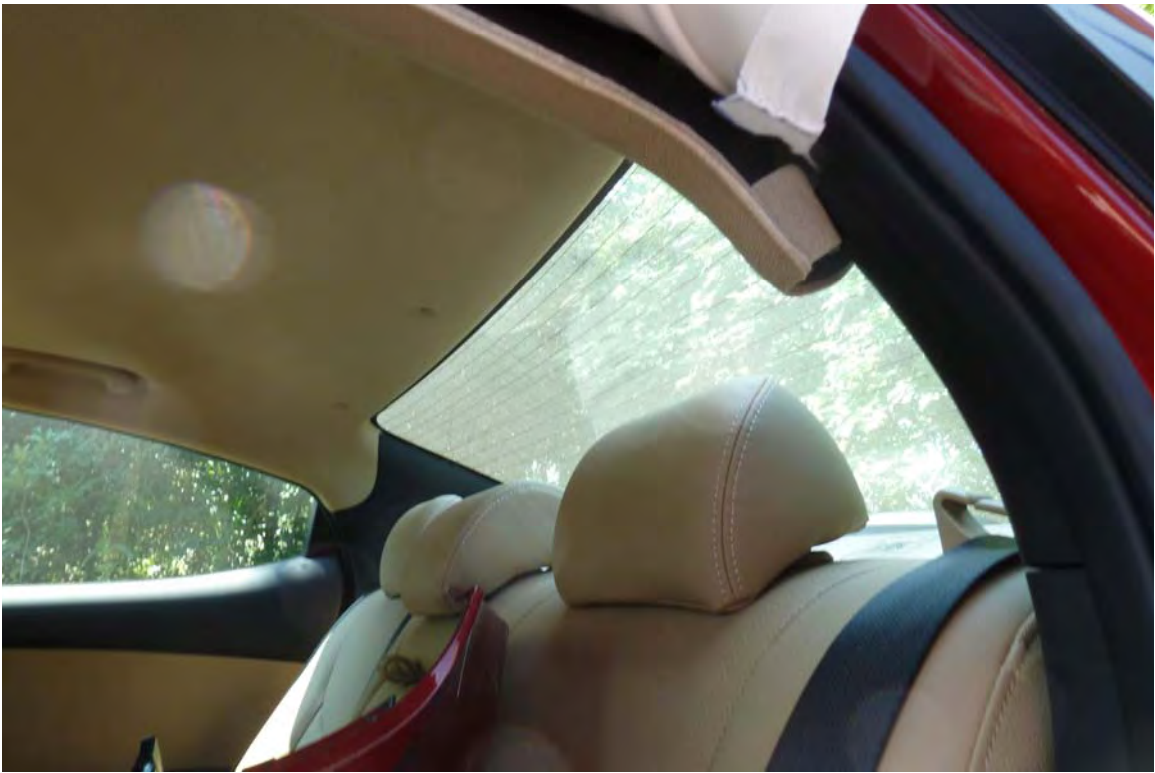




























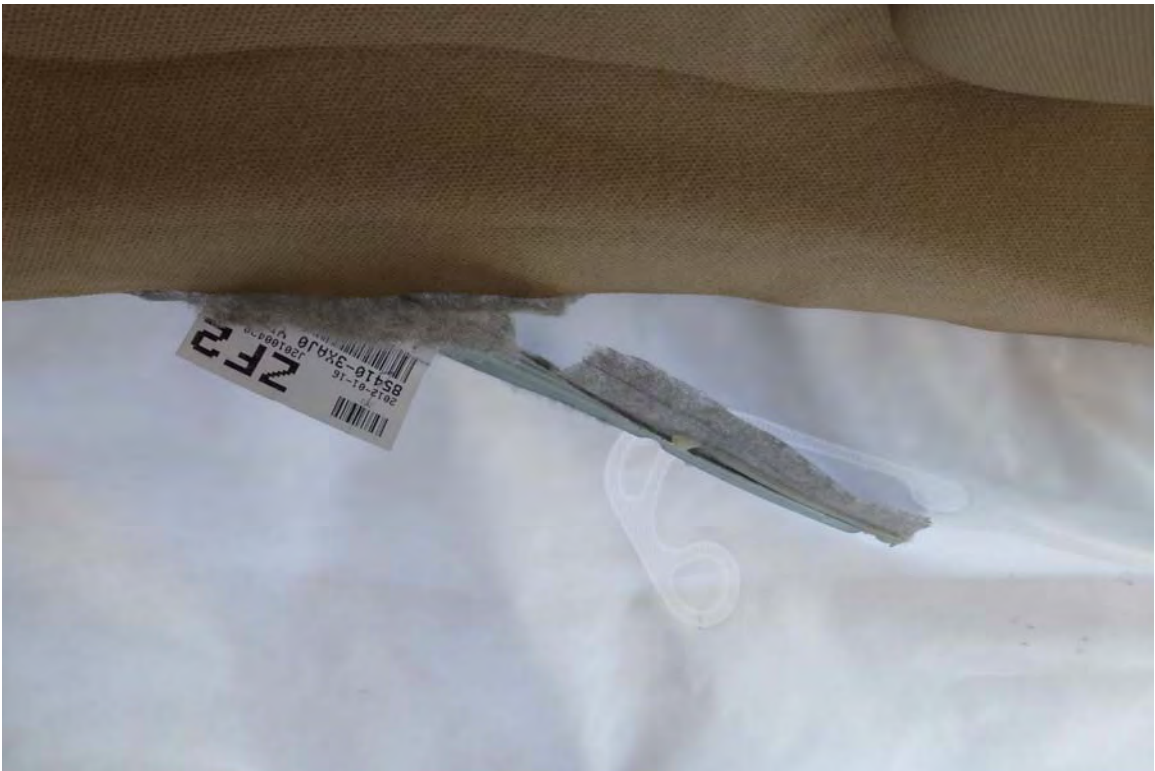
























































EA12-008

HYUNDAI-KIA

2-1-2013

RESPONSE TO REQUEST 14

14A_TEST SUMMARY

14_EA12-008_Test History

■ Curtain airbag deployment actual vehicle test history

● CAB deployment actual vehicle test status

- N. America UD, Korea, Austrailia SPEC Side CAB deployment evaluation standard: 13 times
- Headlining STEEL SIDE BRKT application











No.	Region	Test category	stage	SPEC	Problem occurrence	Test site	Test date	Remark
1	North America UD	62kph 27° Side	M	Sunroof	None	HMC	12-08-10	Development verification test
2			Mass production	Non-Sunroof		MGA	05-25-11	Mass prod. quality assurance (local)
3		50kph IHS Side	Mass prod.	Non-Sunroof		MGA	10-01-11	Mass prod. quality assurance(local)
4		32kph 75° Side pole	Mass prod.	Non-Sunroof		MGA	05-24-11	Mass prod. quality assurance(local)
5		32kph 75° Side pole	Mass prod.	Sunroof		Calspan	11-15-11	NHTSA certified evaluation
6	Korea	55kph Side	P1	Non-Sunroof		HMC	06-02-10	P1 verification test
7			T2	Non-Sunroof		HMC	07-21-10	T2/P2 verification test
8			Mass prod.	Non-Sunroof		KATRI	11-10-10	MLTMA certified evaluation
9		29kph Side pole	P1	Non-Sunroof		HMC	08-30-10	P1 verification test
10			Mass prod.	Non-Sunroof		KATRI	11-11-10	MLTMA certified evaluation
11	Australia	50kph Side	Mass prod.	Non-Sunroof		Australia Crashlab	06-02-11	ANCAP certified evaluation
12		29kph Side pole	Mass prod.	Non-Sunroof		Australia Crashlab	06-07-11	ANCAP certified evaluation
13	Common	25kph 27° Side	P1	Non-Sunroof		HMC	05-18-10	Sensing development test

MLTMA: Ministry of Land, Transport and Maritime Affairs
KATRI : Korea Automobile Testing & Research Institute

■ Attachment 1. UD N. America crash test photo





Classification		SINCAP (62kph N. America 27° Side)		IIHSSide (50kph Side)	SIDE POLE NCAP (32kph N. America 75° Side pole)	
		M	Mass production	Mass production	Mass production	Mass production (Certified)
Test date		12-08-10	05-25-11	10-01-11	05-24-11	11-15-11
SPEC		Sunroof	Non-Sunroof	Non-Sunroof	Non-Sunroof	Sunroof
Test lab		HMC	MGA	MGA	MGA	Calspan
STEEL BRKT displacement		None	None	None	None	None
Photos of all seats	Interior					
	Exterior					

■ Attachment 2. MD Korea actual vehicle crash test photos



Classification		55KPH Korea Side			29KPH 90° Side pole	
		P1	T2	Mass prod. (Certified)	P1	Mass prod. (Certified)
Test date		10-06-02	10-07-21	10-11-10	10-08-30	10-11-11
SPEC		Non-Sunroof	Non-Sunroof	Non-Sunroof	Non-Sunroof	Non-Sunroof
Test lab		HMC	HMC	KATRI	HMC	KATRI
STEEL BRKT displacement		None	None	None	None	None
Photos of all seats	Interior					
	Exterior					

Attachment 3. MD other actual vehicle crash test photos

[Australia category]

Classification		50KPH Side	29KPH 90° Side pole
		Mass production (Certified)	Mass production (Certified)
Test date		06-02-11	06-07-11
SPEC		Non-Sunroof	Non-Sunroof
Test lab		ANCAP (Crashlab)	ANCAP (Crashlab)
STEEL BRKT displacement		None	None
Photos of all seats	Interior		
	Exterior		

[Jointly used sensing category]

Classification		25kph 27° Side RH
		P1
Test date		05-18-10
SPEC		Sunroof
Test lab		HMC
STEEL BRKT displacement		None
Photos of all seats	Interior	
	Exterior	

EA12-008

HYUNDAI-KIA

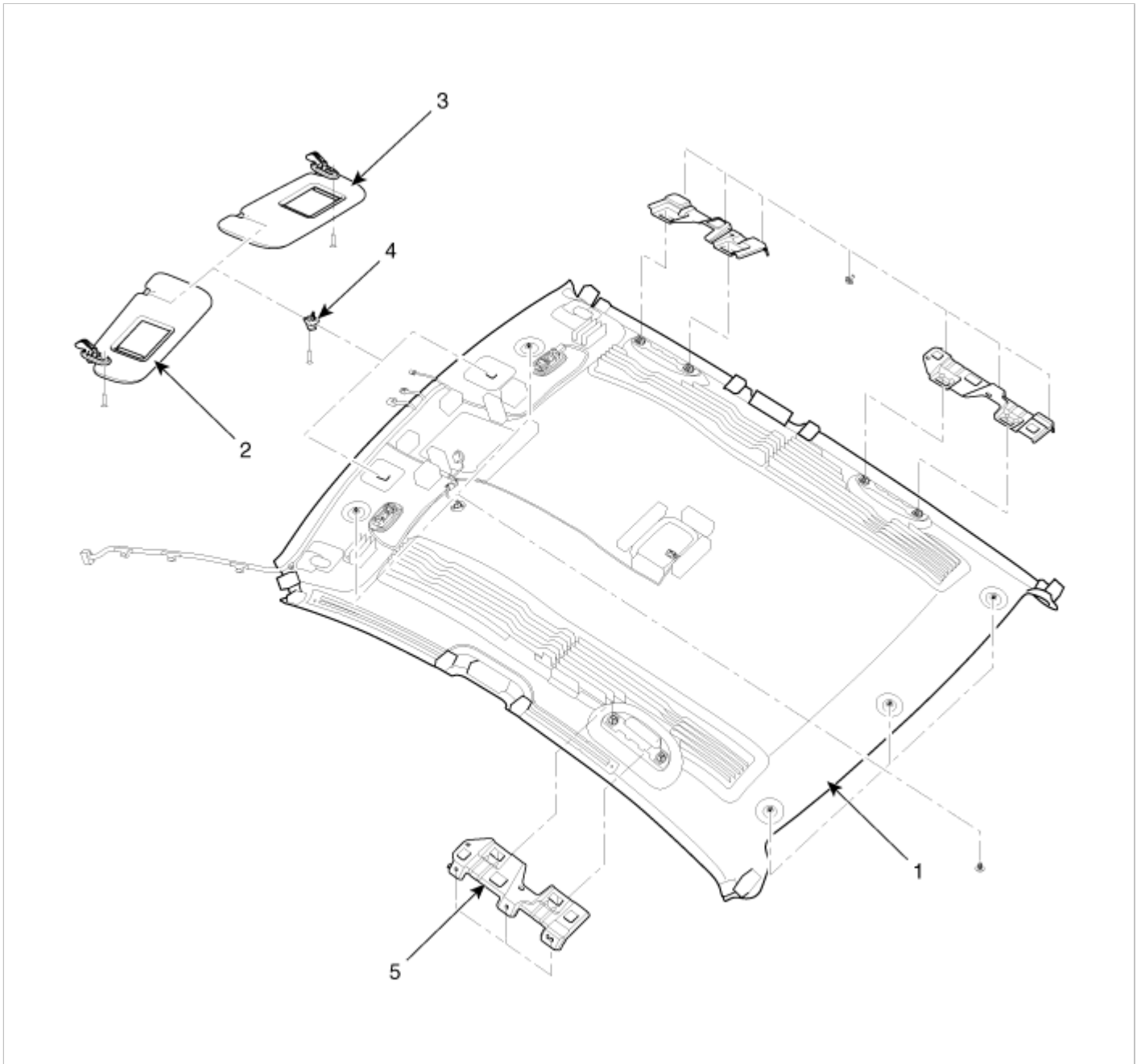
2-1-2013

RESPONSE TO REQUEST 26

26_EA12-008_Headliner_R&R

ELANTRA(UD/MD) >2012 > G 1.8 MPI > Body (Interior and Exterior) > Interior > Roof Trim > Components and Components Location

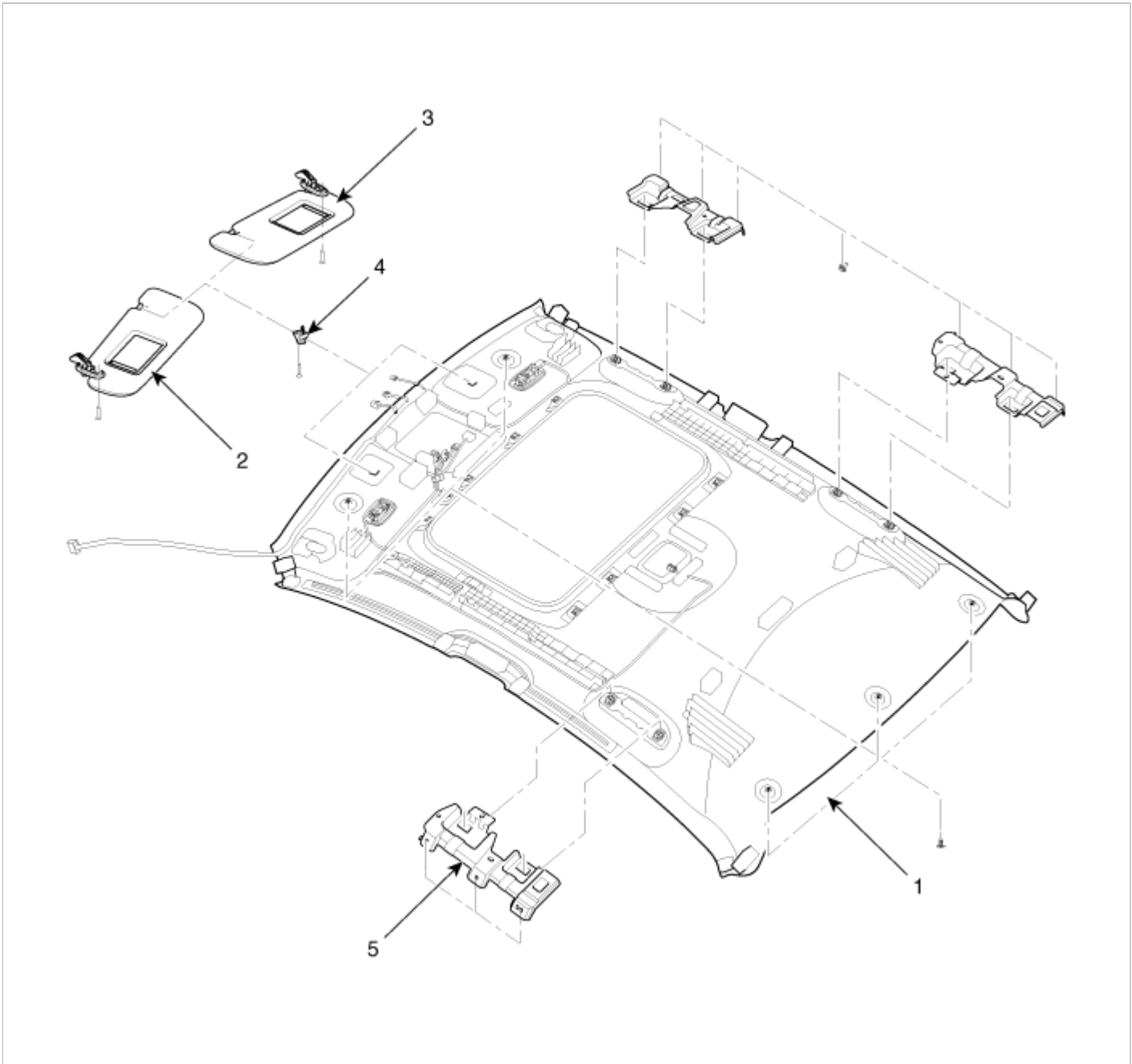
Components



- 1. Roof trim
- 2. Sunvisor [Driver's]
- 3. Sunvisor [Passenger's]

- 4. Retainer
- 5. Assist handle bracket

Components [Sunroof]



- 1. Roof trim
- 2. Sunvisor [Driver's]
- 3. Sunvisor [Passenger's]

- 4. Retainer
- 5. Assist handle bracket

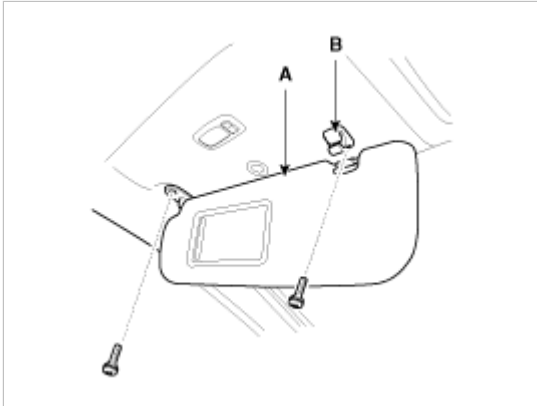
Replacement

Sunvisor Replacement

CAUTION

- Use a plastic panel removal tool to remove interior trim pieces to protect from marring the surface.
- Put on gloves to protect your hands.

1. Loosen the mounting screws, then remove the sunvisor (A) and retainer (B).



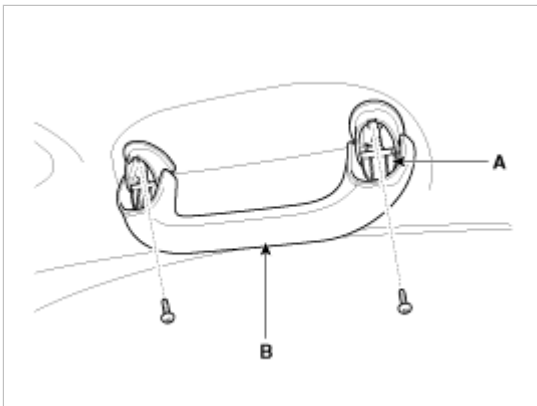
2. Installation is the reverse of removal.

Assist Handle Replacement

CAUTION

- Use a plastic panel removal tool to remove interior trim pieces to protect from marring the surface.
- Put on gloves to protect your hands.

1. Remove the covers (A) and screws, then remove the assist handle (B).



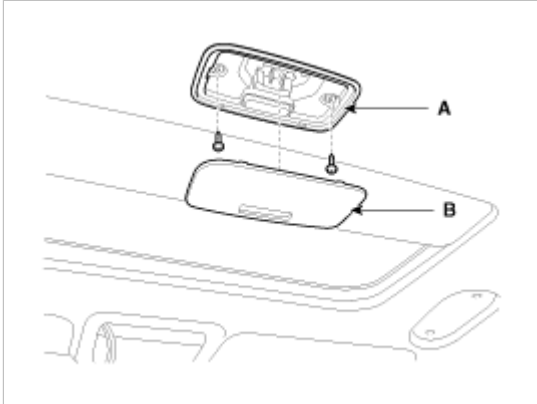
2. Installation is the reverse of removal.

Room Lamp Replacement

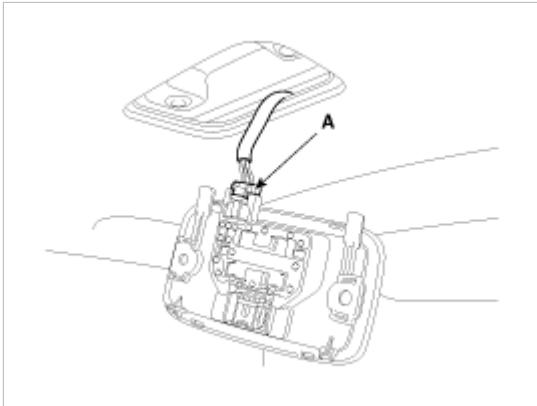
CAUTION

- Use a plastic panel removal tool to remove interior trim pieces to protect from marring the surface.
- Put on gloves to protect your hands.

1. Using a screwdriver or remover, remove the room lamp cover (B).
2. After loosening the mounting screws, then remove the room lamp (A).



3. Disconnect the connector (A).



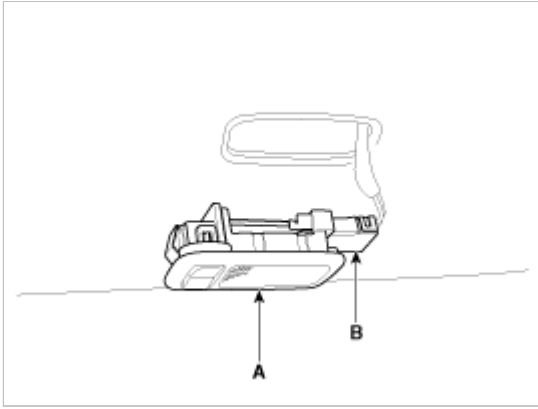
4. Installation is the reverse of removal.

NOTE

- Make sure the connectors are plugged in properly.

Vanity Lamp Replacement

1. Using a screwdriver or remover, remove the vanity lamp (A).
2. Disconnect the vanity lamp connector (B).



3. Installation is the reverse of removal.

NOTE

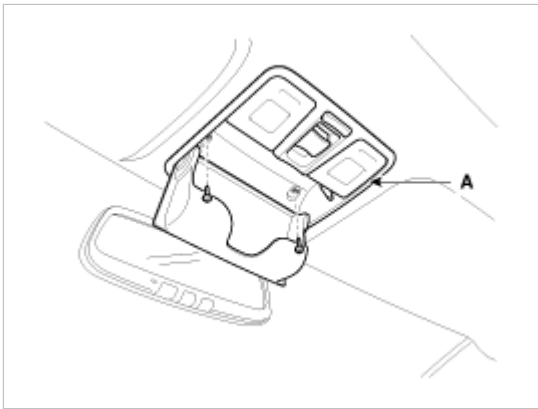
- Make sure the connector is plugged in properly.

Overhead Console Replacement

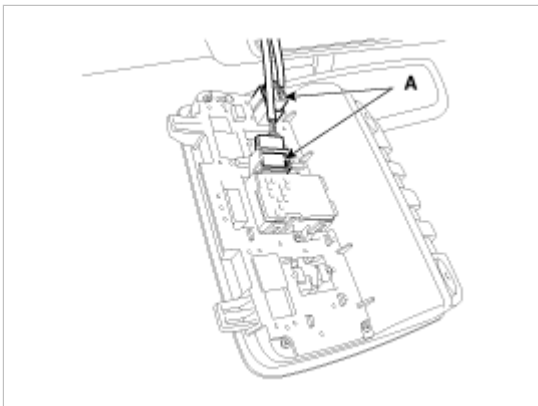
CAUTION

- Use a plastic panel removal tool to remove interior trim pieces to protect from marring the surface.
- Put on gloves to protect your hands.

1. After loosening the mounting screws, then remove the overhead console assembly (A).



2. Disconnect the connectors (A).



3. Installation is the reverse of removal.

NOTE

- Make sure the connectors are plugged in properly.

Roof Trim Replacement

CAUTION

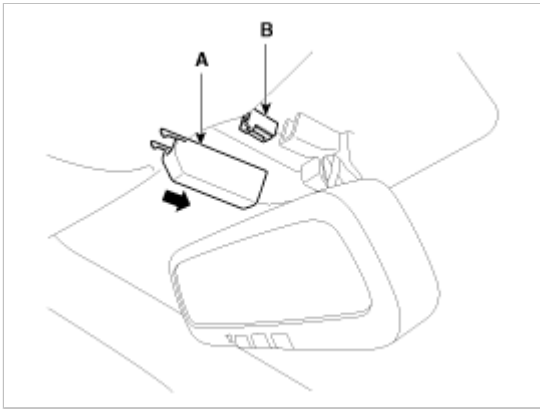
- Put on gloves to protect your hands.
- Use a plastic panel removal tool to remove interior trim pieces to protect from marring the surface.
- Take care not to bend or scratch the trim and panels.

1. Remove the following items:

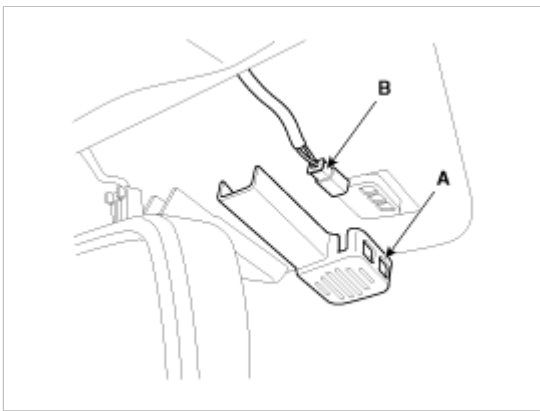
- A. Front seat
(Refer to the BD group - "Front Seat")
- B. Rear seat
(Refer to the BD group - "Rear Seat")
- C. Floor console
(Refer to the BD group - "Console")
- D. Sunvisor
- E. Vanity lamp
- F. Room lamp
- G. Assist handle
- H. Overhead console
 - I. Front pillar trim
(Refer to the BD group - "Interior Trim")
 - J. Front door scuff trim & Rear door scuff trim
(Refer to the BD group - "Interior Trim")
 - K. Canter pillar lower trim
(Refer to the BD group - "Interior Trim")
 - L. Canter pillar upper trim
(Refer to the BD group - "Interior Trim")
 - M. Wheel house trim
(Refer to the BD group - "Interior Trim")
 - N. Rear pillar trim
(Refer to the BD group - "Interior Trim")

2. Remove the ECM mirror cover (A).

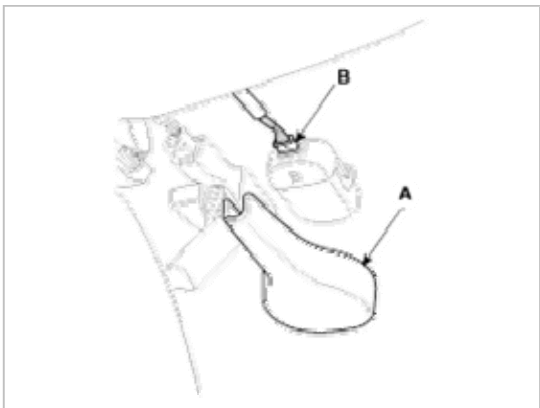
3. Disconnect the ECM mirror connector (B).



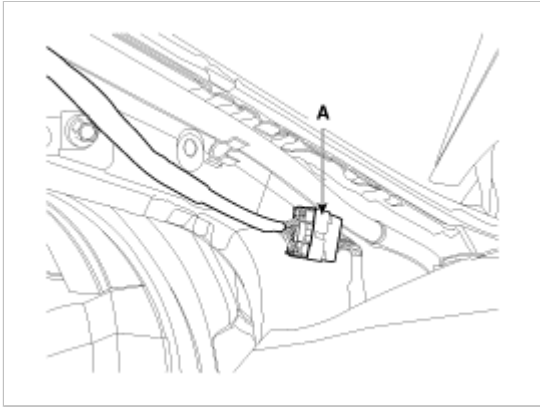
- 4. Remove the auto defog sensor cover (A).
- 5. Disconnect the auto defog sensor connector (B).



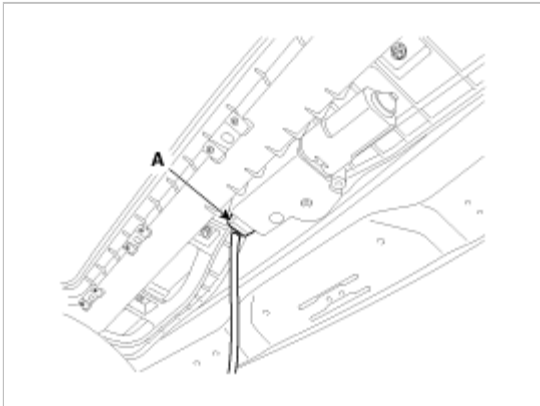
- 6. Remove the rain sensor cover (A).
- 7. Disconnect the rain sensor connector (B).



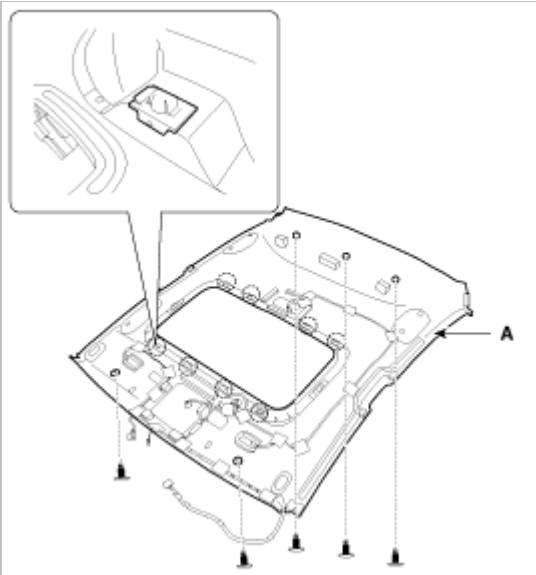
- 8. Disconnect the roof trim main connector (A).



9. Disconnect the sunroof motor connector (A).



10. Detach the clips, then remove the roof trim (A).



11. Installation is the reverse of removal.

NOTE

- Replace any damaged clips.
- Make sure the connector is plugged in properly.

FRONT SEAT REMOVAL

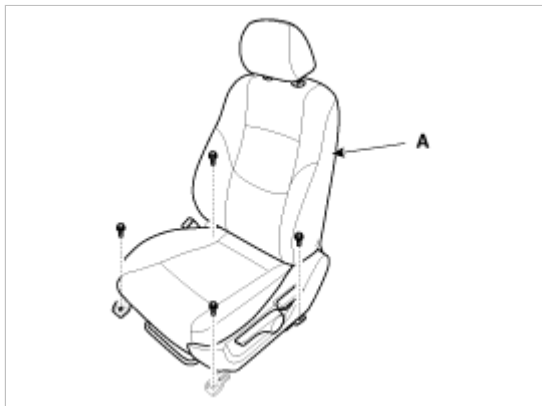
Replacement

Seat Assembly Replacement

1. Remove the seat track mounting cover.
2. After loosening the seat assembly mounting bolts, remove the seat assembly (A).

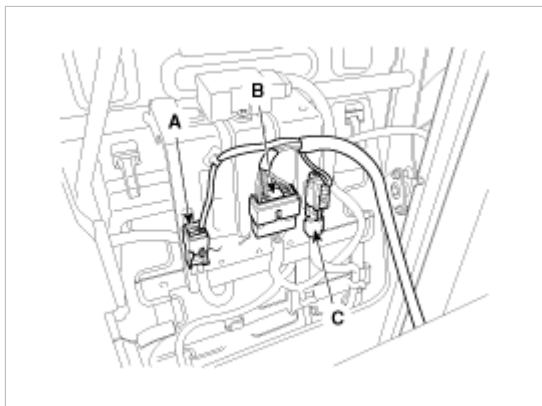
Tightening torque :

29.4 ~ 53.9 N.m (3.0 ~ 5.5kgf.m, 21.7~39.8 lb-ft)

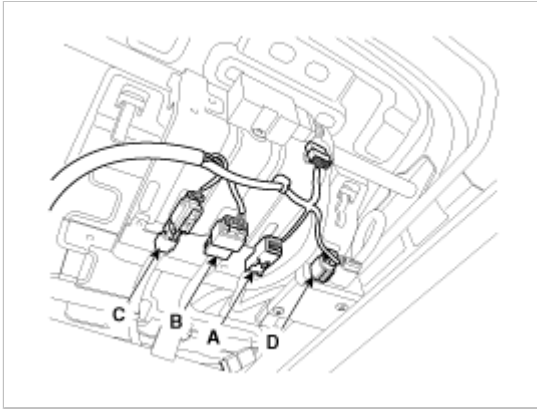


3. Disconnect the buckle (A), seat warmer (B), SAB (C), WCS (D) connectors.

[Driver's]



[Passenger's]



4. Installation is the reverse of removal.

CAUTION

SEAT MOUNTING BOLT INSTALLATION PROCEDURE

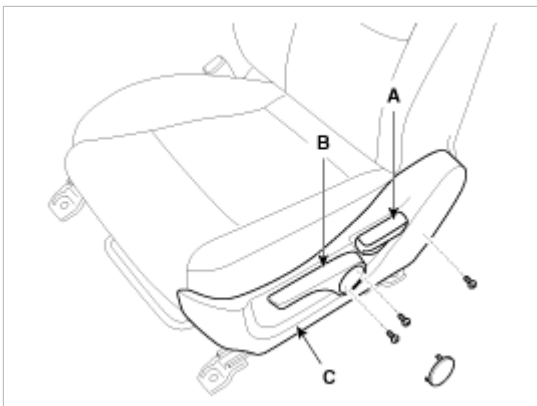
- Set the seat into the most rearward position. Check that each slide is locked, and then tighten the front mounting bolt temporarily.
- Set the seat into most forward position. Check that each slide is locked, and then Tighten the rear mounting bolt completely.
- Set the seat into the most rearward position. Check the front mounting bolt completely.
- Check that the seat operates to and fro smoothly and the locking portion locks properly.

Front Seat Outer Shield Cover

CAUTION

- When prying with a flat-tip screwdriver, wrap it with protective tape, and apply protective tape around the related parts your hands.
- Put on gloves to protect your hands.

1. After loosening the recliner mounting screws, then remove the recliner lever (A) and height lever (B).
2. After loosening the mounting screw, then remove the front seat outer shield cover (C).



3. Installation is the reverse of removal.

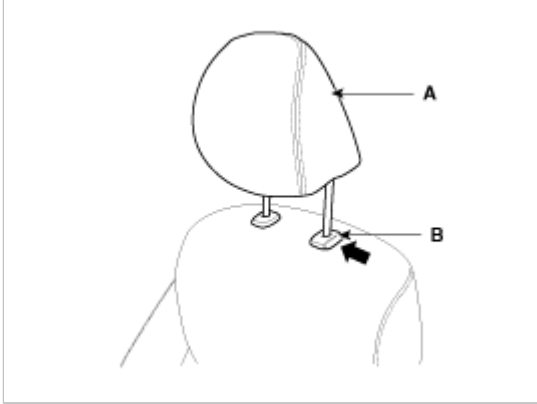
NOTE

- Replace any damaged clips.

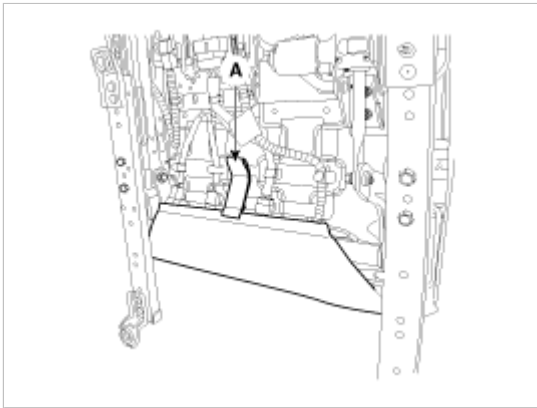
- Make sure the connector is plugged in properly.

Seat Back Board Replacement

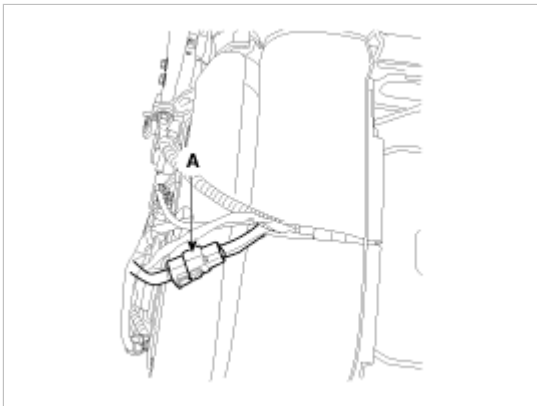
1. Remove front seat assembly.
2. Push the lock pin (B), remove the headrest (A).



3. Remove the protector (A).



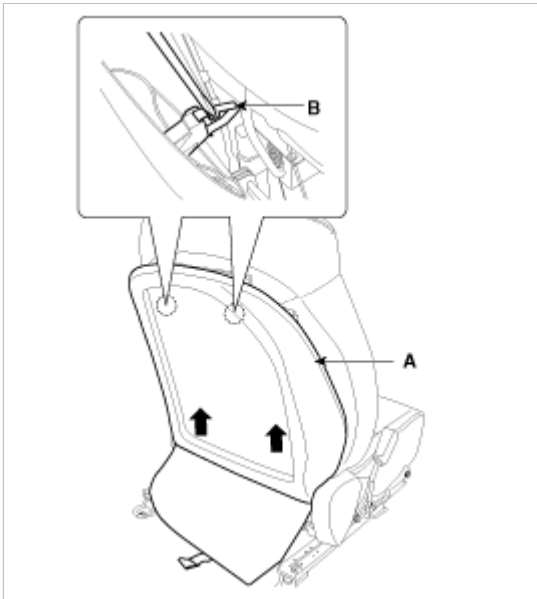
4. Disconnect the connector (A).



5. Push the clips (B) from the front back cover (A).

CAUTION

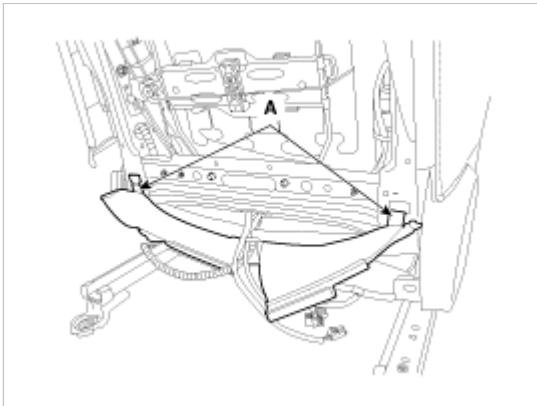
- Push the middle area of clip using the flat head screwdriver.
- Be careful not to damage the clip.



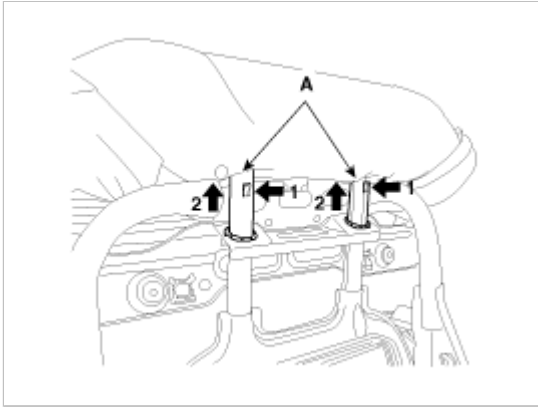
6. Push the protector (A) by the seat back frame.



7. Remove the protector (A).



8. Pull out the headrest guides (A) while pinching the end of the guides, and remove them.



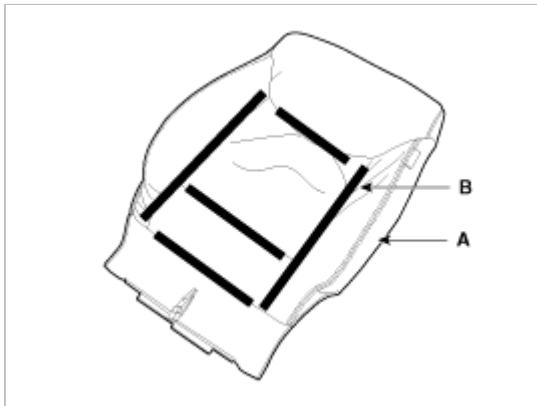
9. Remove the seat back cover (A) from the frame.



10. After removing the velcro tape (B) on the front of seat back and remove the seat back cover (A).

CAUTION

- When removing the hog-ring clip, remove the hog-ring clip with pressing the wire not to separate the wire from the sponge.



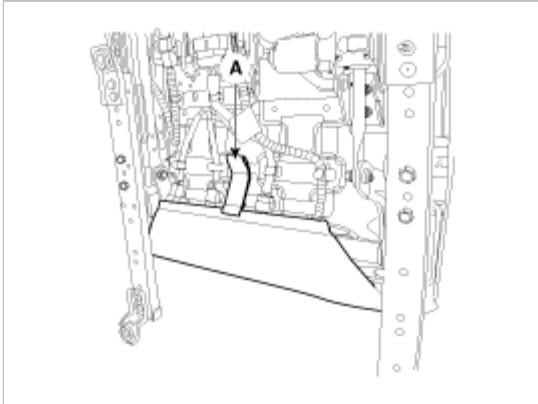
11. Installation is the reverse of removal.

NOTE

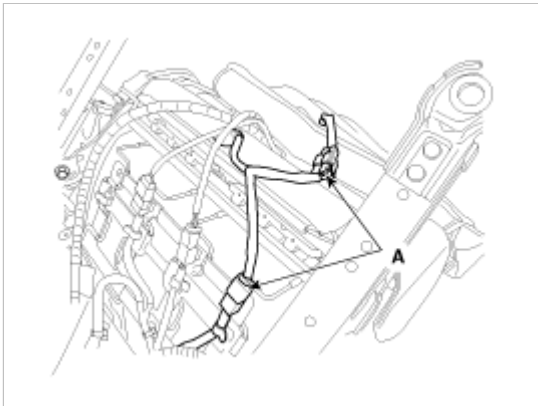
- Make sure the connector is plugged in properly.
- Replace any damaged clips.

Seat Cushion Cover Replacement

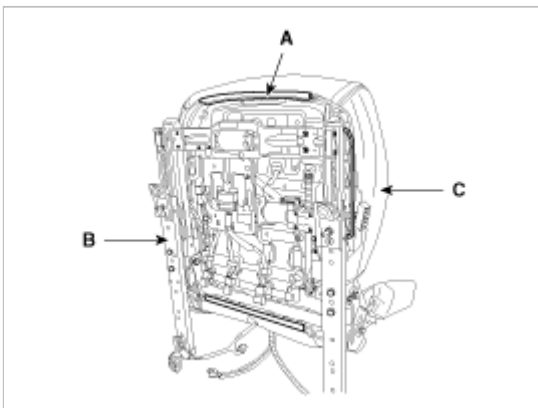
1. Remove front seat assembly.
2. Remove the front shield outer cover.
3. Remove the protector (A).



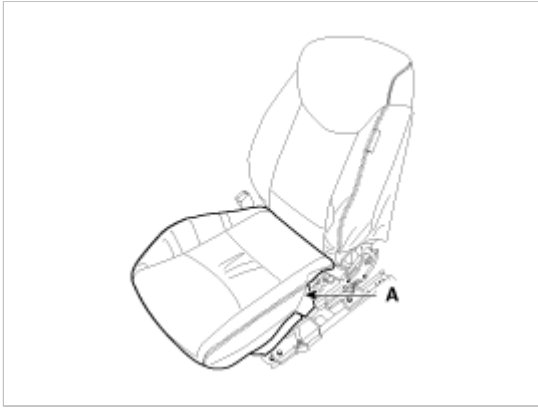
4. Disconnect the connectors (A).



5. Push the protector(A), and then seat cushion cover (C) from the frame(B).



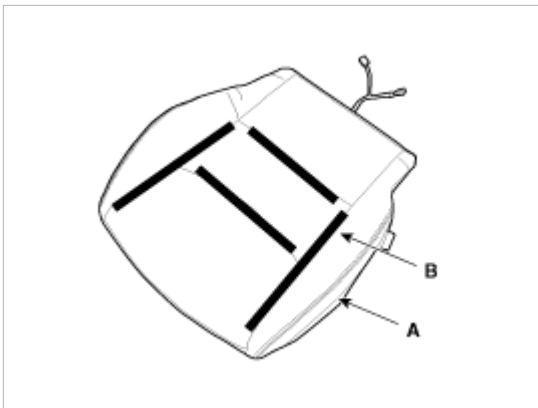
6. Remove the seat cushion cover (A) from the frame.



7. After removing the velcro tape (B) on the front of seat cushion and remove the seat cushion cover (A).

CAUTION

- When removing the hog-ring clips, remove the hog-ring clips with pressing the wire not to separate the wire from the sponge.



8. Installation is the reverse of removal.

NOTE

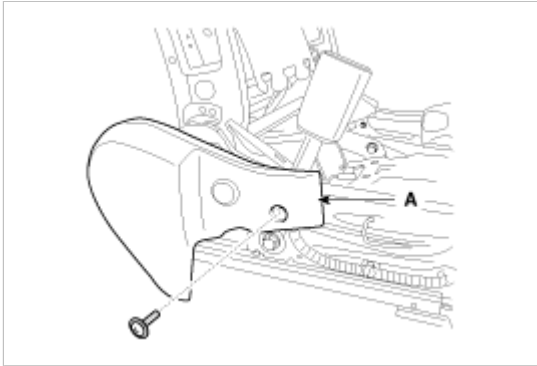
- Make sure the connector is plugged in properly.
- Replace any damaged clips.

Seat Frame Replacement

1. Remove the following items :

- A. Front seat
- B. Front seat back cover
- C. Front seat cushion cover

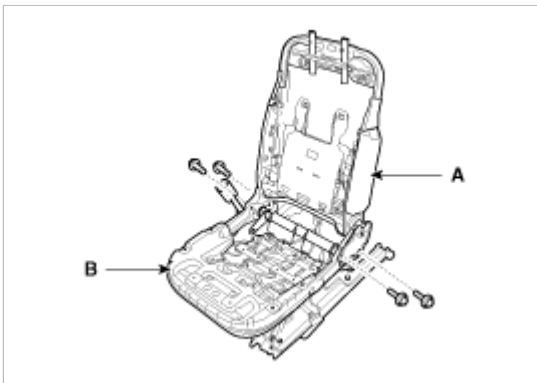
2. After loosening the mounting screw, then remove the front seat shield inner cover (A).



3. After loosening the mounting bolts, then disconnect the seat back frame (A) and seat cushion frame (B).

Tightening torque :

44.1 ~ 53.9 N.m (4.5 ~ 5.5 kgf.m, 32.5 ~ 39.8 lb-ft)



4. Installation is the reverse of removal.

NOTE

- Remove the side air bag for replacing side air bag installation seat.
- Before service, be fully aware of precautions and service procedure relevant to air bag.
(Refer to page RT - Airbag)

REAR SEAT REMOVAL

Replacement

Seat Assembly Replacement

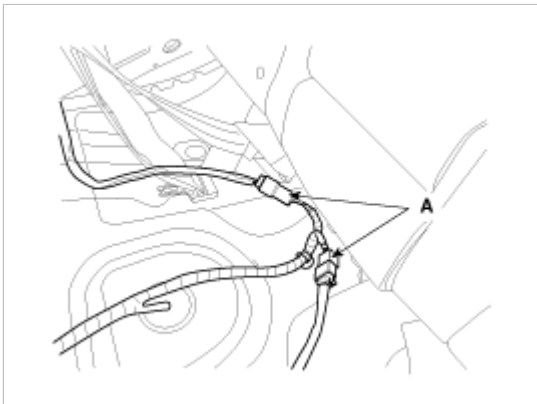
1. After loosening the mounting bolts, then remove the rear seat cushion (A).

Tightening torque :

16.7 ~ 25.5N.m (1.7 ~ 2.6kgf.m, 12.3~18.8lb-ft)



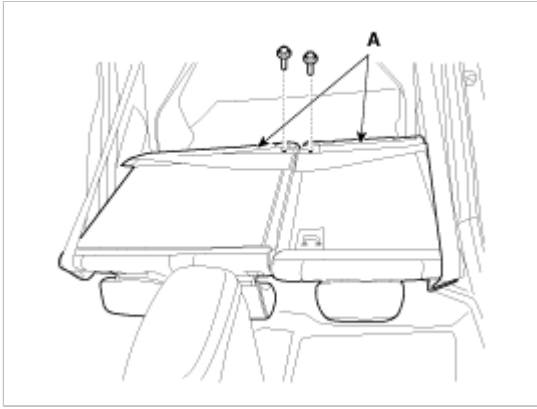
2. Disconnect the rear seat heater connectors (A).



3. After loosening the mounting bolts, then remove the rear seat back (A).

Tightening torque :

16.7 ~ 25.5N.m (1.7 ~ 2.6kgf.m, 12.3~18.8lb-ft)



4. Installation is the reverse of removal.

NOTE

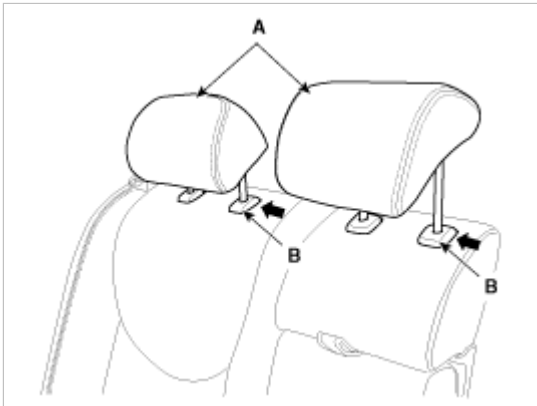
- Make sure the connector is plugged in properly.

Seat Back Cover Replacement [RH]

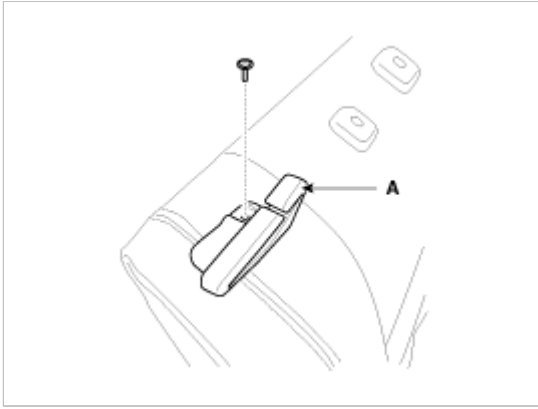
CAUTION

- When prying with a flat-tip screwdriver, wrap it with protective tape, and apply protective tape around the related parts, to prevent damage.
- Put on gloves to protect your hands.

1. Remove the rear seat assembly.
2. Push the lock pin (B), remove the headrest (A).



3. After loosening the mounting screws, then remove the rear seat back webbing guide (A).

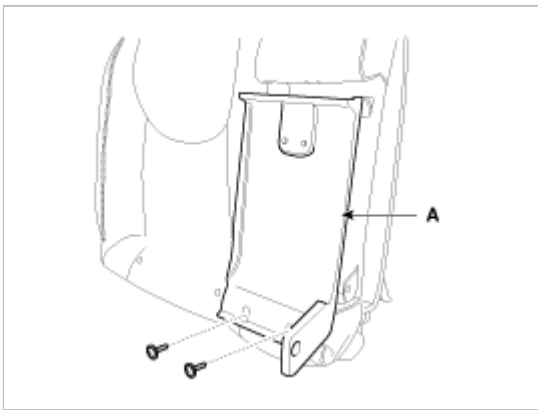


4. Remove the armrest cap (B).

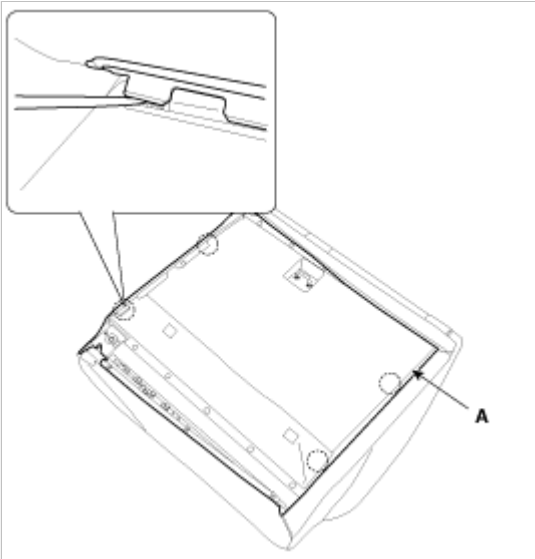
5. After loosening the mounting bolt, then remove the armrest (A).



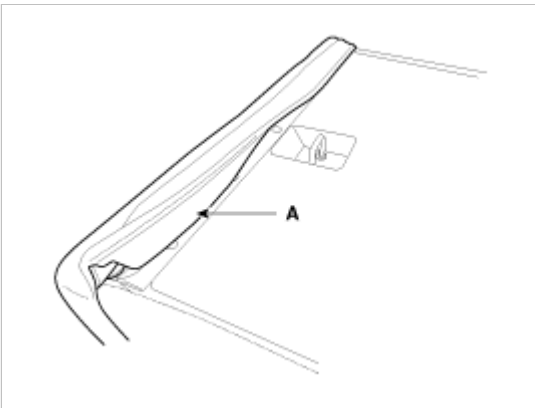
6. After loosening the mounting screws, then remove the armrest board (A).



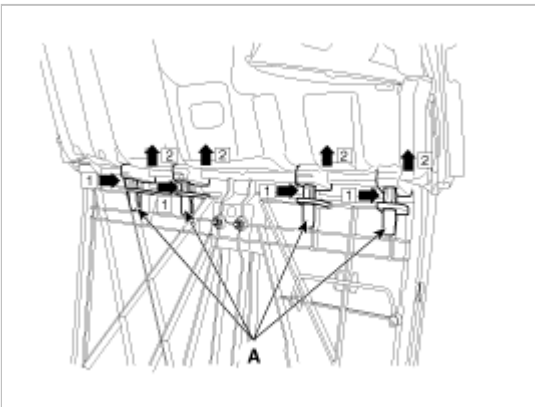
7. Using a screwdriver or remover, remove the seat back cover (A).



8. Remove the protector (A).

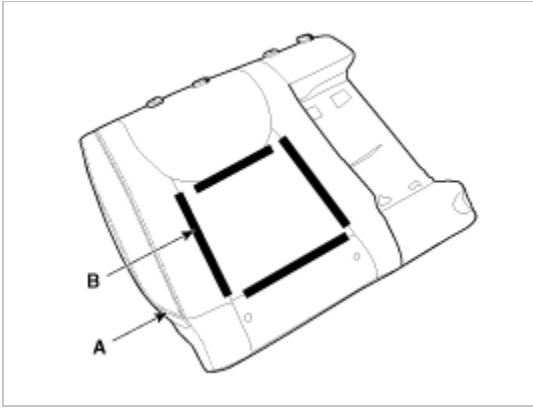


9. Pull out the headrest guides (A) while pinching the end of the guides, and remove them.



10. Remove the seat back cover from the frame.

11. After removing the velcro tape (B) on the rear of seat back and remove the seat back cover (A).



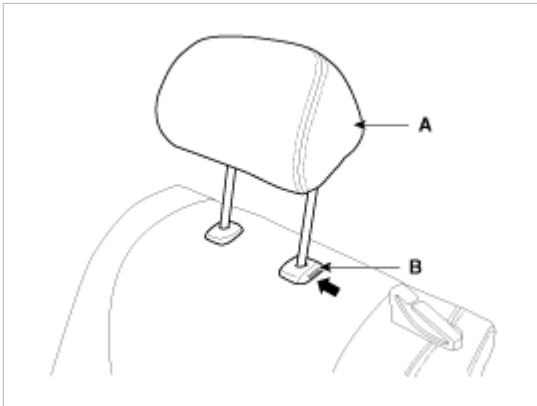
12. Installation is the reverse of removal.

Seat Back Cover Replacement [LH]

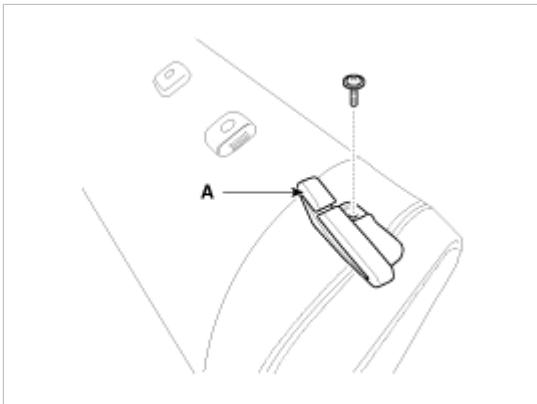
CAUTION

- When prying with a flat-tip screwdriver, wrap it with protective tape, and apply protective tape around the related parts, to prevent damage.
- Put on gloves to protect your hands.

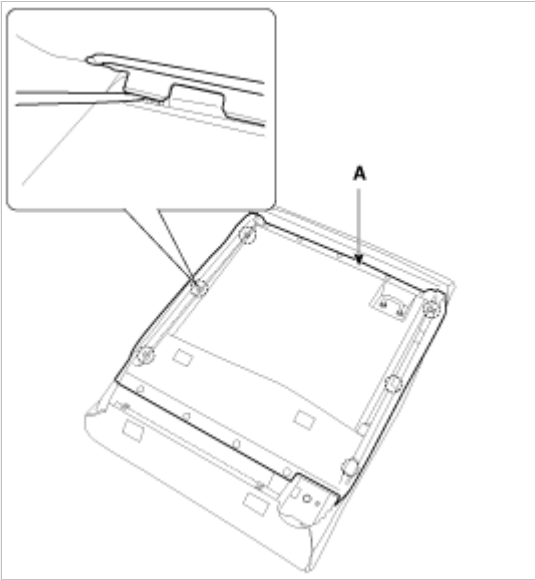
1. Remove the rear seat assembly.
2. Push the lock pin (B), remove the headrest (A).



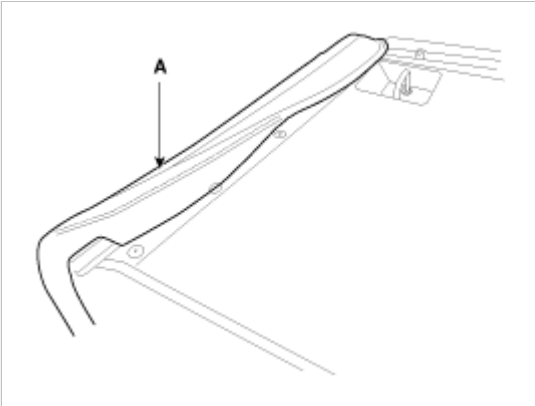
3. After loosening the mounting screws, then remove the rear seat back webbing guide (A).



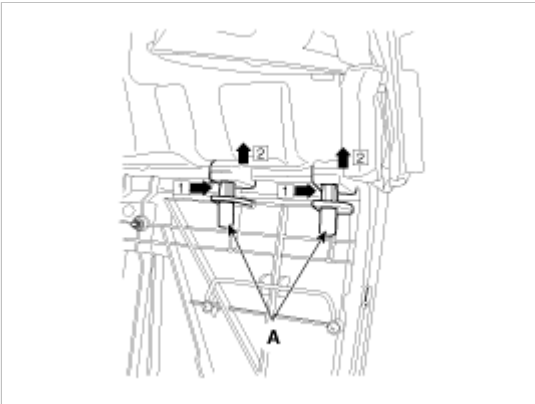
4. Using a screwdriver or remover, remove the seat back cover (A).



5. Remove the protector (A).

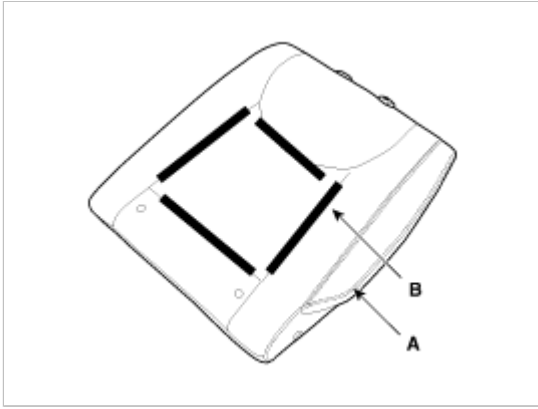


6. Pull out the headrest guides (A) while pinching the end of the guides, and remove them.



7. Remove the seat back cover from the frame.

8. After removing the velcro tape (B) on the rear of seat back and remove the seat back cover (A).



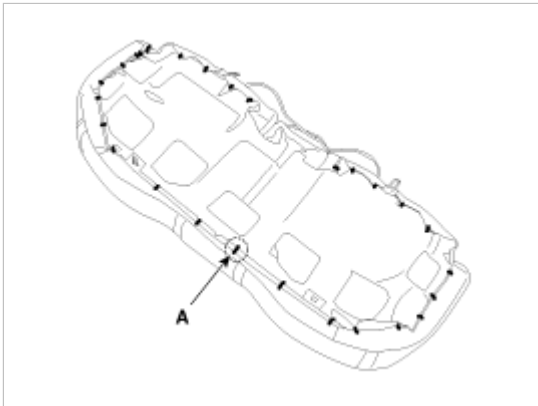
9. Installation is the reverse of removal.

Rear Seat Cushion Cover Replacement

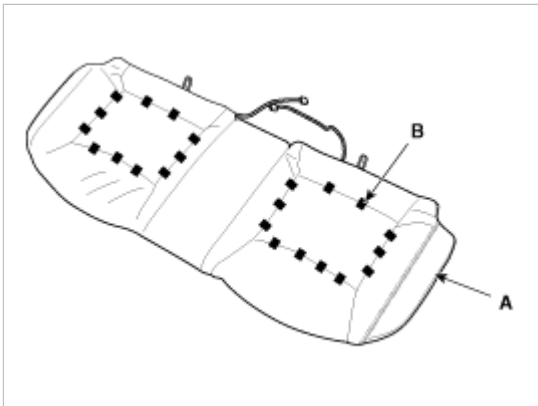
CAUTION

- When prying with a flat-tip screwdriver, wrap it with protective tape, and apply protective tape around the related parts, to prevent damage.
- Put on gloves to protect your hands.

1. Remove the rear seat cushion.
2. Remove the clips (A).



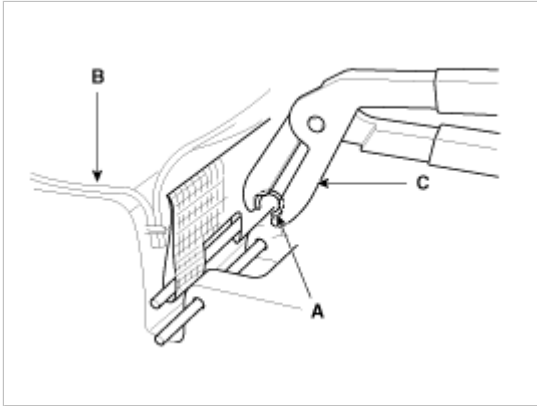
3. After removing the hog-ring clips (B) on the rear of seat cushion and remove the seat cushion cover (A).



4. Installation is the reverse of removal.

NOTE

- To prevent wrinkles, make sure the material is stretched evenly over the cover (B) before securing the hog-ring clips (A).
- Replace the hog-ring clips with new ones using special tool [C (09880-4F000)].



CONSOLE REMOVAL

ELANTRA(UD/MD) >2012 > G 1.8 MPI > Body (Interior and Exterior) > Interior > Console > Repair procedures

Replacement

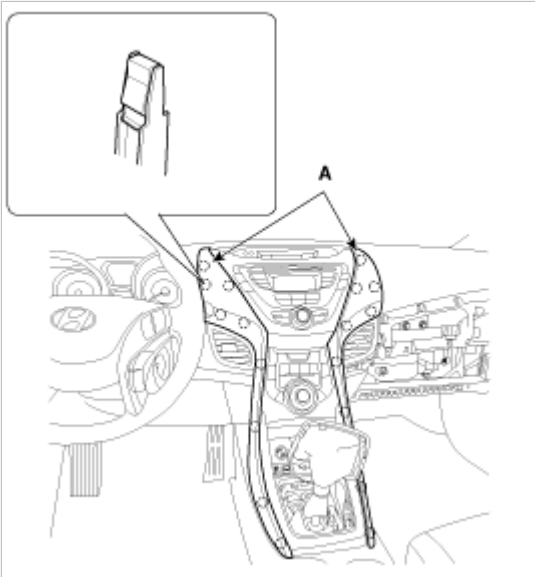
Floor Console Replacement

[M/T]

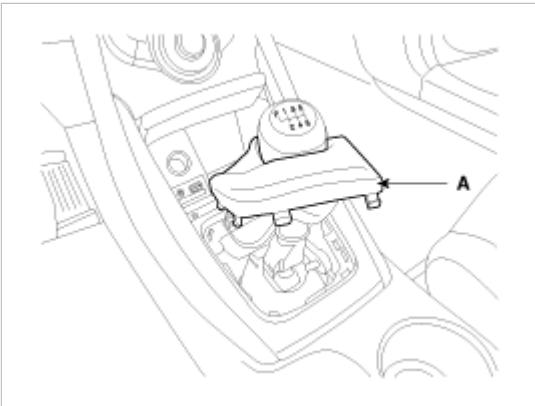
CAUTION

- A plastic trim tool is recommended, but if prying with a screwdriver, wrap it with protective tape, and apply protective tape around the related parts, to prevent damage.
- Put on gloves to protect your hands.

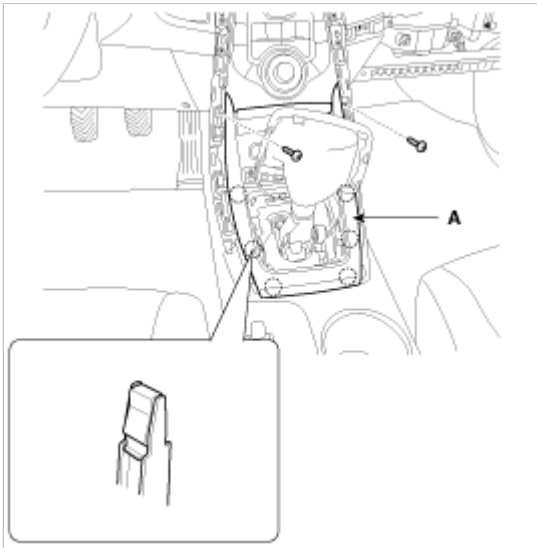
1. Using a screwdriver or remover, remove the crash pad center garnish (A).



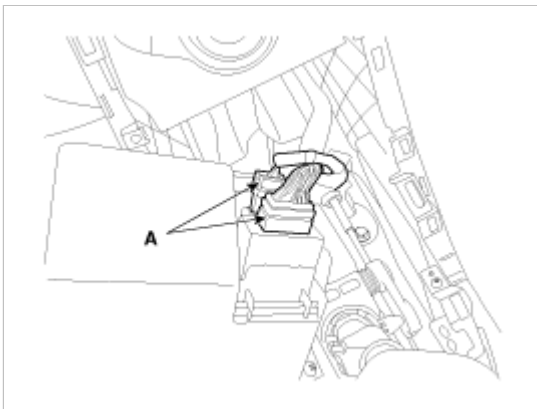
2. Using a screwdriver or remover, remove the gear boot (A).



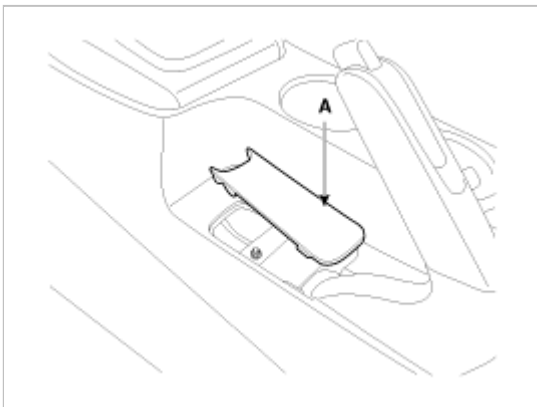
3. After loosening the mounting screws, then remove the console upper cover (A).



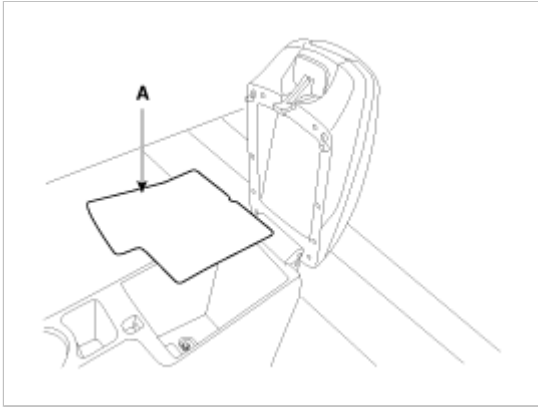
4. Disconnect the connectors (A).



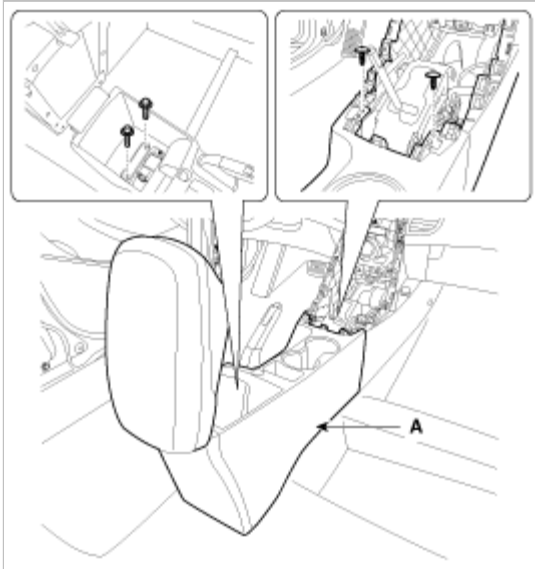
5. Using a screwdriver or remover, remove the parking brake cover (A).



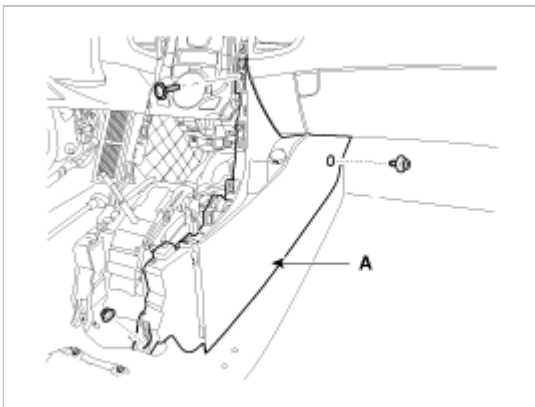
6. Remove the console tray mat (A).



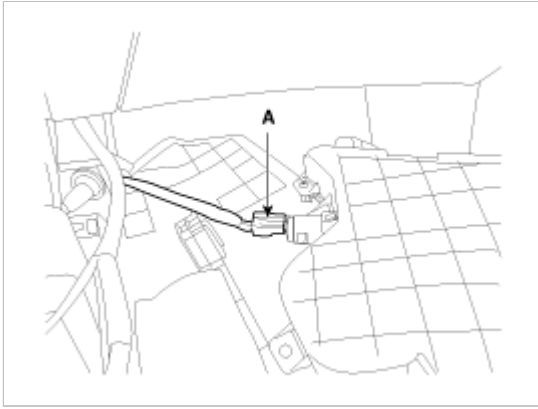
7. After loosening the mounting screws and bolts, then remove the floor console assembly (A).



8. After loosening the mounting screw, nut, clip, then remove the console side cover (A).



9. Disconnect the connector (A).



10. Installation is the reverse of removal.

NOTE

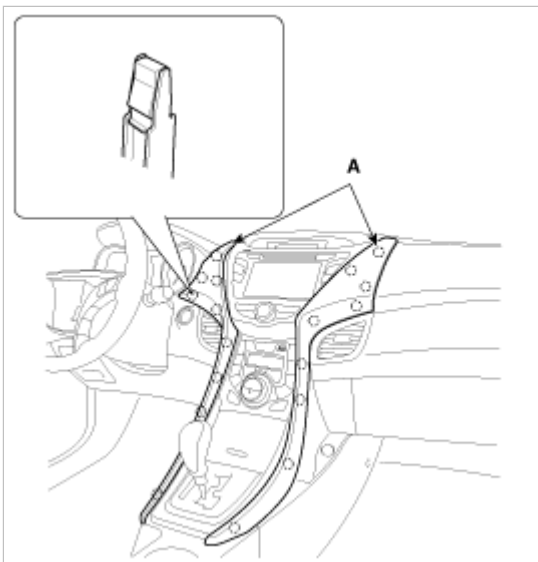
- Make sure the connectors are connected in properly.
- Replace any damaged clips.

[AT]

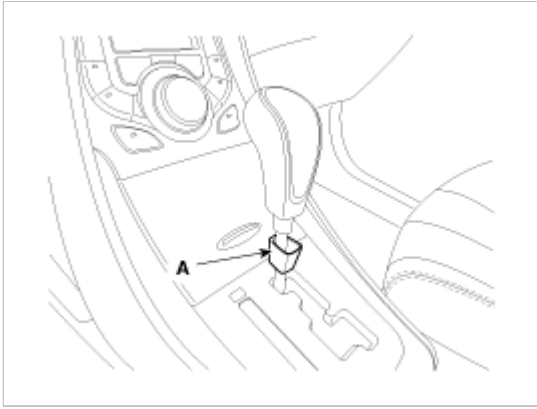
CAUTION

- A plastic trim tool is recommended, but if prying with a screwdriver, wrap it with protective tape, and apply protective tape around the related parts, to prevent damage.
- Put on gloves to protect your hands.

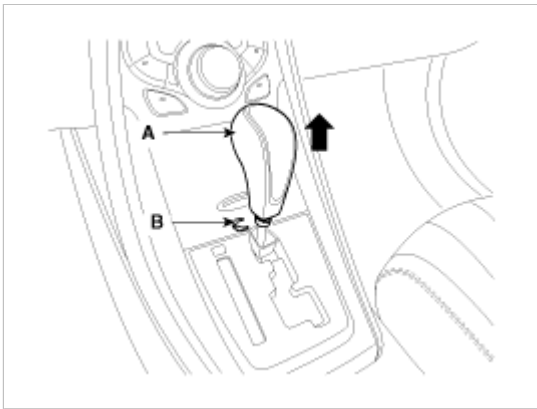
1. Using a screwdriver or remover, remove the crash pad center garnish (A).



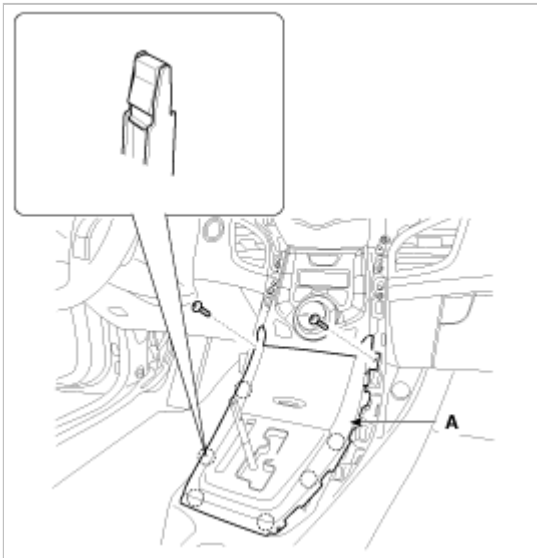
2. Using a screwdriver or remover, remove the gear knob cover (A).



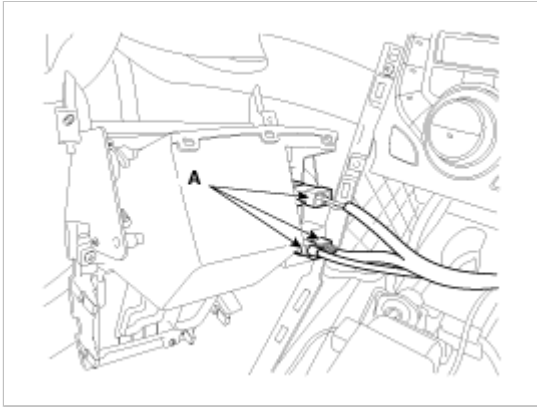
- 3. Remove the lock pin (B).
- 4. Remove the gear knob (A).



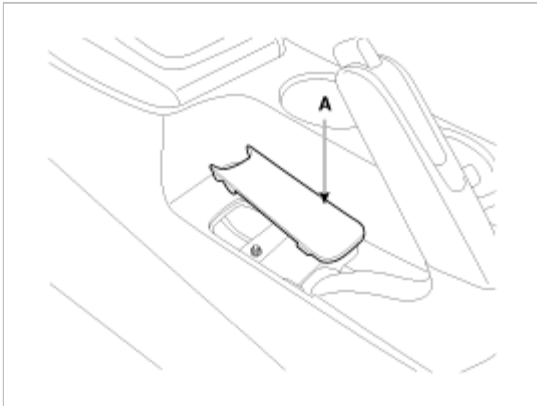
- 5. After loosening the mounting screws, remove the console upper cover (A).



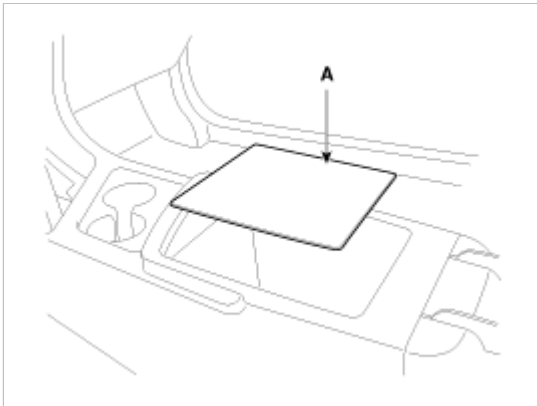
- 6. Disconnect the connectors (A).



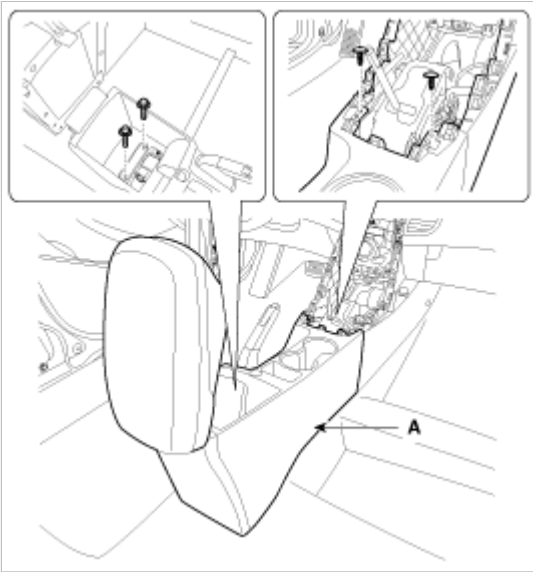
7. Using a screwdriver or remover, remove the parking brake cover (A).



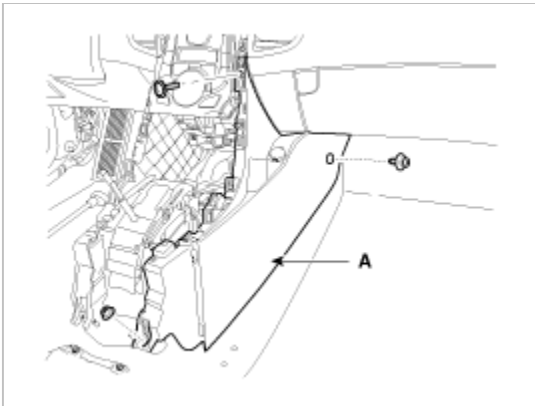
8. Remove the console tray mat (A).



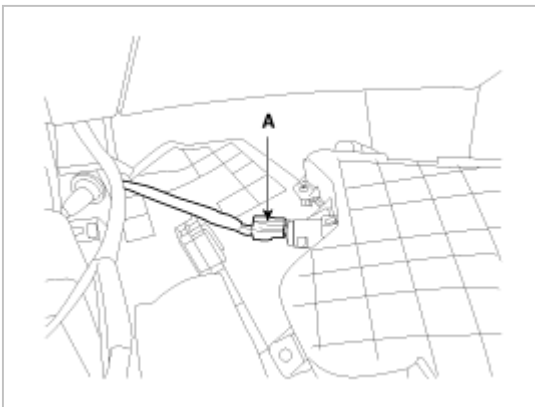
9. After loosening the mounting screws and bolts, then remove the floor console assembly (A).



10. After loosening the mounting screw, nut, clip, then remove the console side cover (A).



11. Disconnect the connector (A).



12. Installation is the reverse of removal.

NOTE

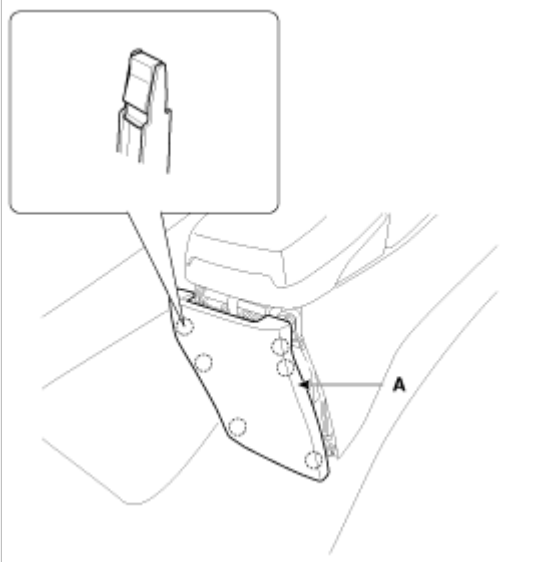
- Make sure the connectors are connected in properly.
- Replace any damaged clips.

Armrest Replacement

CAUTION

- When prying with a flat-tip screwdriver, wrap it with protective tape, and apply protective tape around the related parts, to prevent damage.
- Put on gloves to protect your hands.

1. Using a screwdriver or remover, remove the rear console cover (A).



2. After loosening the mounting screws, then remove the armrest assembly (A).



3. Installation is the reverse of removal.

NOTE

- Replace any damaged clips.

TRIM REMOVAL

Replacement

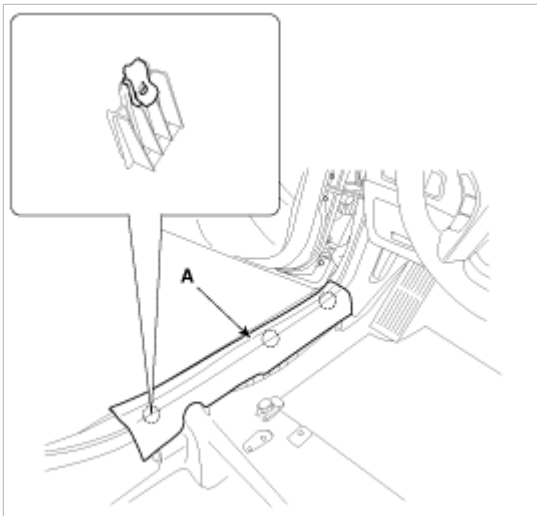
Door Scuff Trim Replacement

CAUTION

- Put on gloves to protect your hands.
- Use a plastic panel removal tool to remove interior trim pieces to protect from marring the surface.
- Take care not to bend or scratch the trim and panels.

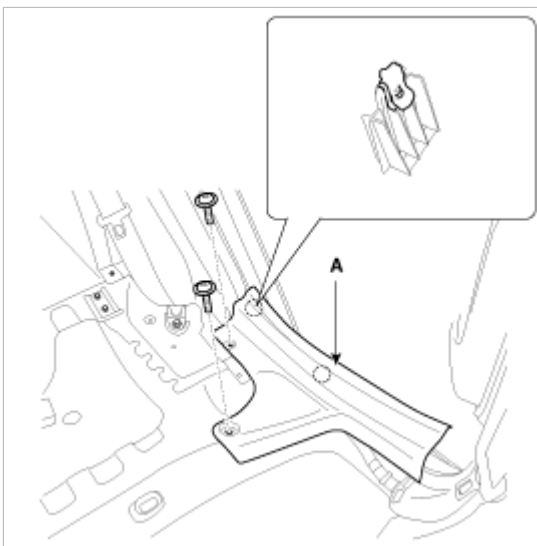
1. Using a screwdriver or remover, remove the front door scuff trim (A).

[Front]



2. Remove the rear seat cushion.
(Refer to the BD group - "Rear Seat")
3. After loosening the mounting screw, then remove rear door scuff trim (A).

[Rear]



4. Installation is the reverse of removal.

NOTE

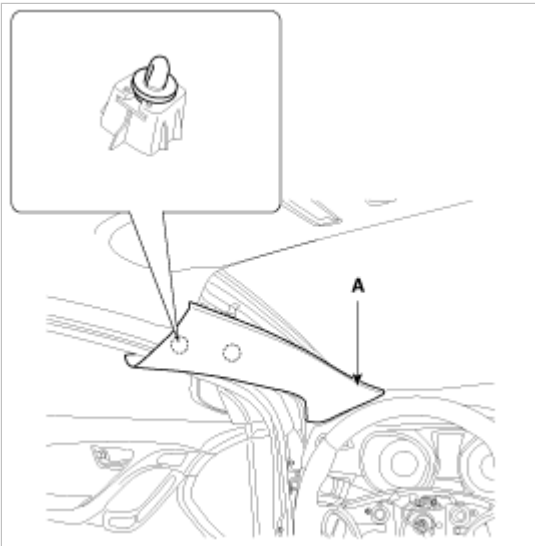
- Replace any damaged clips.

Front Pillar Trim Replacement

NOTE

- Put on gloves to protect your hands.
- Use a plastic panel removal tool to remove interior trim pieces to protect from marring the surface.
- Take care not to bend or scratch the trim and panels.

1. Using a screwdriver or remover, remove the front pillar trim (A).



2. Installation is the reverse of removal.

NOTE

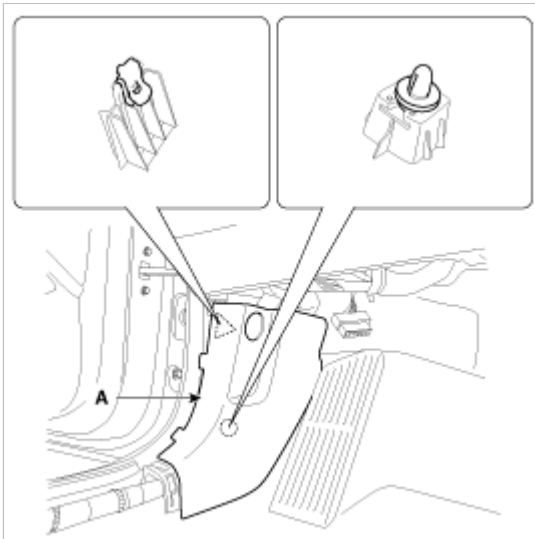
- Replace any damaged clips.

Cowl Side Trim Replacement

CAUTION

- Put on gloves to protect your hands.
- Use a plastic panel removal tool to remove interior trim pieces to protect from marring the surface.
- Take care not to bend or scratch the trim and panels.

1. Remove the front door scuff trim.
2. Remove the hood latch release handle.
(Refer to the BD group - "Hood")
3. Detach the clips, then remove the cowl side trim (A).



4. Installation is the reverse of removal.

NOTE

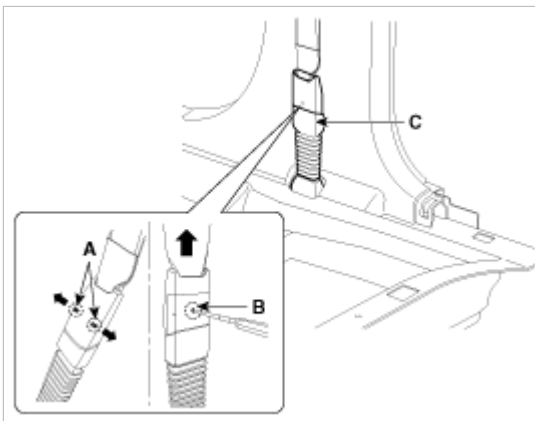
- Replace any damaged clips.

Center Pillar Trim Replacement

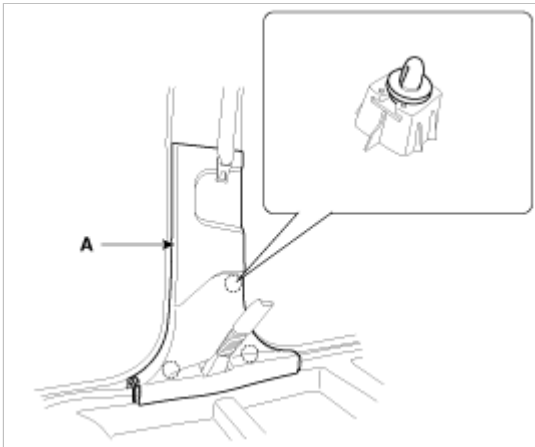
CAUTION

- Put on gloves to protect your hands.
- Use a plastic panel removal tool to remove interior trim pieces to protect from marring the surface.
- Take care not to bend or scratch the trim and panels.

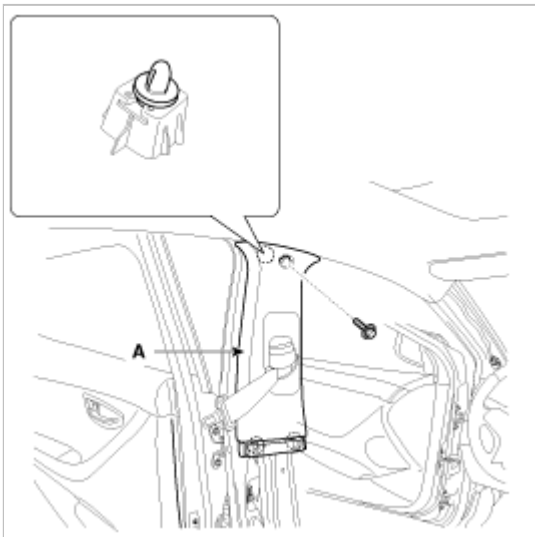
1. Remove the front door scuff trim and rear door scuff trim.
2. To remove the seat belt anchor pretensioner (C), keep on pushing the lock pins (A) as arrow direction. And then remove the seat belt after pushing the lock pin (B).



3. Remove the center pillar lower trim (A).



4. After loosening the mounting bolt, then remove the center pillar upper trim (A).



5. Installation is the reverse of removal.

NOTE

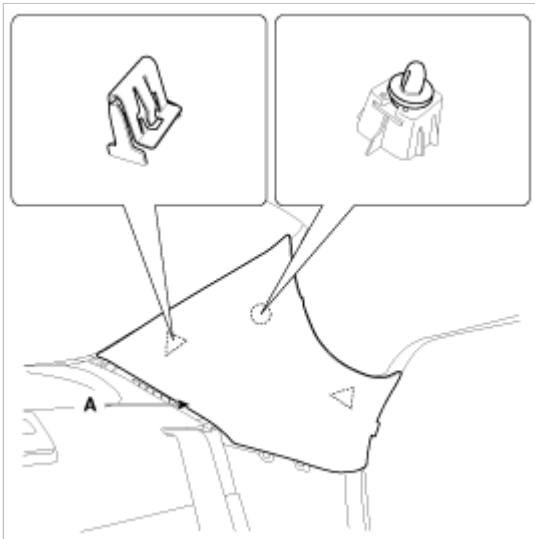
- Replace any damaged clips.

Rear Pillar Trim Replacement

CAUTION

- Put on gloves to protect your hands.
- Use a plastic panel removal tool to remove interior trim pieces to protect from marring the surface.
- Take care not to bend or scratch the trim and panels.

1. Using a screwdriver or remover, remove the rear pillar trim (A).



2. Installation is the reverse of removal.

NOTE

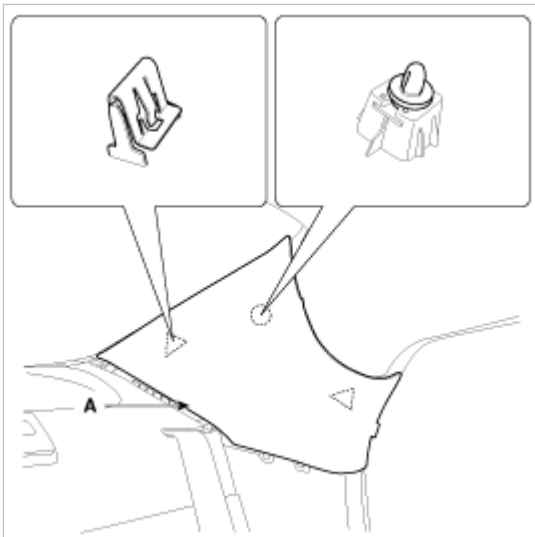
- Replace any damaged clips.

Package Tray Trim Replacement

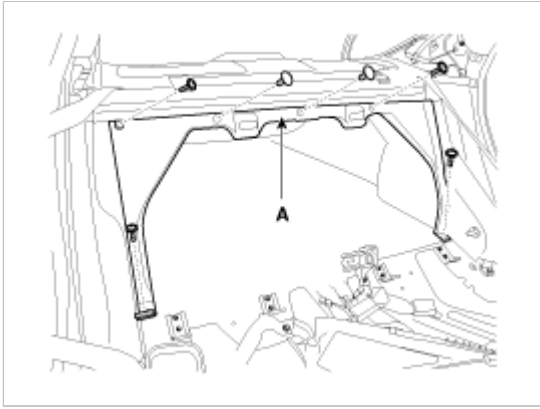
CAUTION

- Put on gloves to protect your hands.
- Use a plastic panel removal tool to remove interior trim pieces to protect from marring the surface.
- Take care not to bend or scratch the trim and panels.

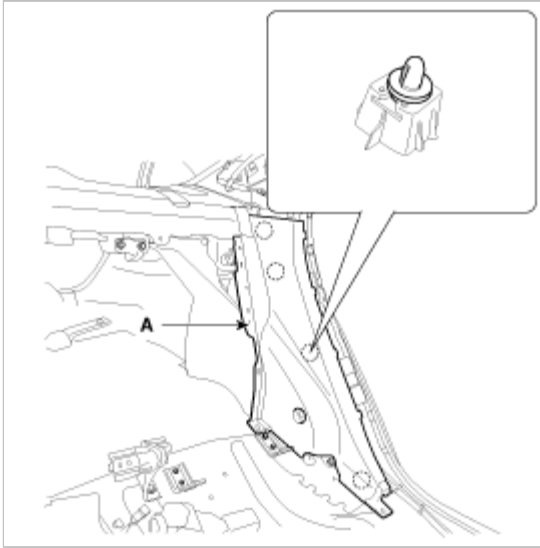
1. Remove the rear seat assembly.
(Refer to the BD group - "Rear Seat")
2. Remove the rear door scuff trim.
3. Using a screwdriver or remover, remove the rear pillar trim (A).



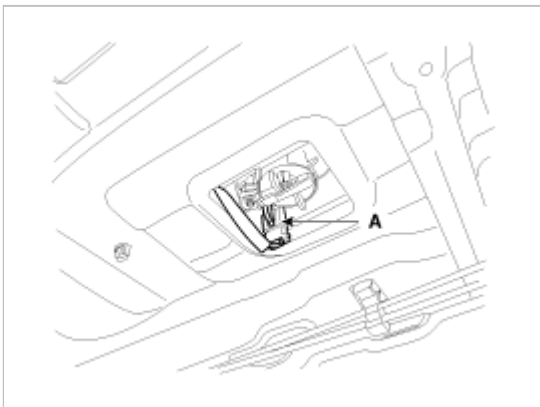
4. After loosening the mounting screws and clips, then remove the luggage partition trim (A).



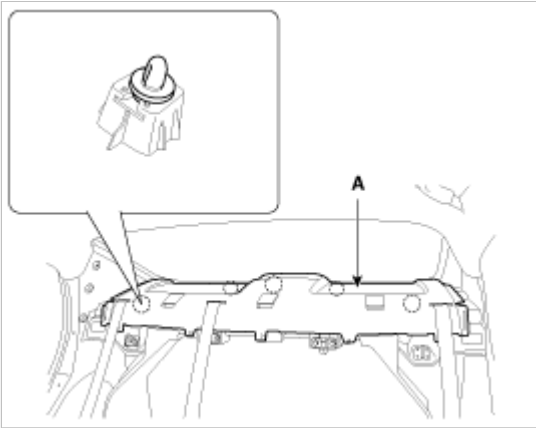
5. Using a screwdriver or remover, remove the rear wheel house trim (A).



6. Disconnect the connector (A).



7. Using a screwdriver or remover, remove the package tray trim (A).



8. Installation is the reverse of removal.

NOTE

- Replace any damaged clips.
- Make sure the connector is connected properly.

EA12-008

HYUNDAI-KIA

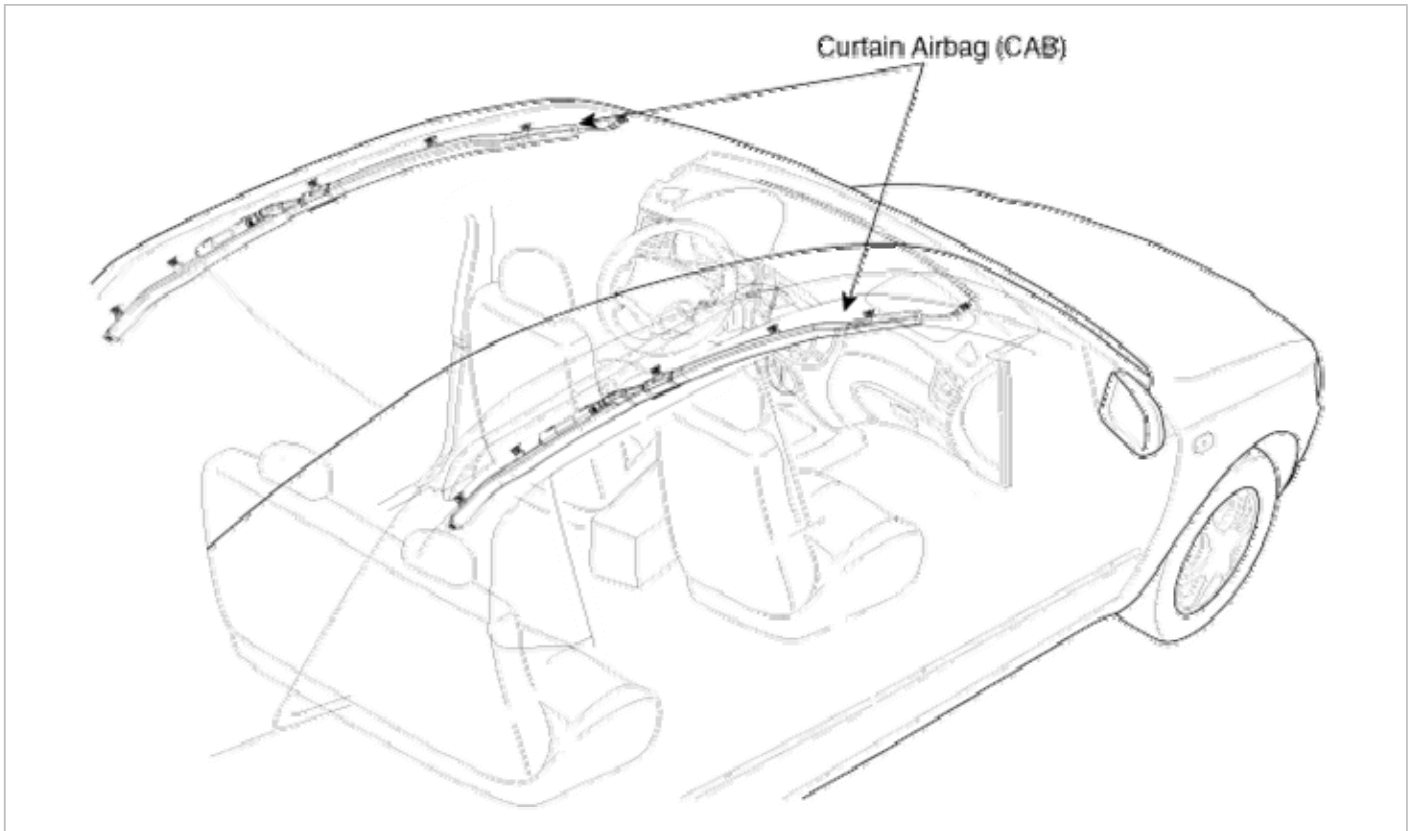
2-1-2013

RESPONSE TO REQUEST 33

33_EA12-008_Curtain Airbag
diagram

ELANTRA(UD/MD) >2012 > G 1.8 MPI > Restraint > Airbag Module > Curtain Airbag (CAB)
Module > Components and Components Location

Components



EA12-008

HYUNDAI-KIA

2-1-2013

RESPONSE TO REQUEST 33

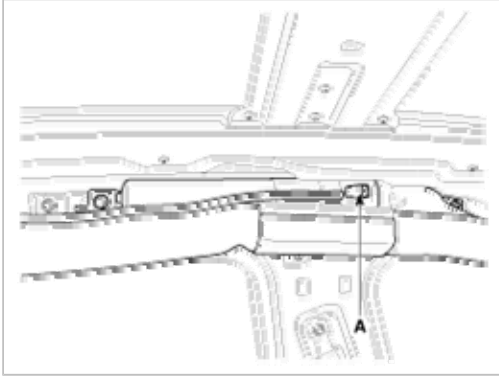
33_EA12-008_Curtain Airbag

Service

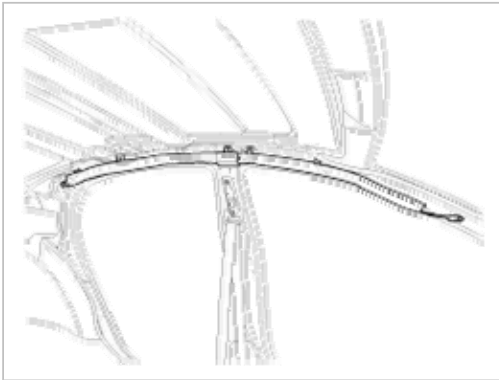
ELANTRA(UD/MD) >2012 > G 1.8 MPI > Restraint > Airbag Module > Curtain Airbag (CAB) Module > Repair procedures

Removal

1. Disconnect the battery negative cable and wait for at least 3 minutes before beginning work.
2. Remove the roof trim.
(Refer to the Body group - "Interior")
3. Disconnect the curtain airbag harness connector (A).



4. After loosening the mounting bolts remove the curtain airbag.



Installation

1. Remove the ignition key from the vehicle.
2. Disconnect the battery negative cable and wait for at least three minutes.
3. Tighten the curtain airbag mounting bolts.

Tightening torque:

7.8 ~ 11.8 N.m (0.8 ~ 1.2 kgf.m, 5.8 ~ 8.7 lb-ft)

CAUTION

- Never twist the airbag module during installation. If the airbag module is twisted, it may not operate as designed.

4. Connect the curtain airbag connector.
5. Install the roof trim.
(Refer to the Body group- "Interior")
6. Reconnect the battery negative cable.
7. After installing the curtain airbag (CAB), confirm proper system operation:
 - A. Turn the ignition switch ON; the SRS indicator light should be turned on for about six seconds and then go off.