

Component
Location

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- | | |
|---|--------------------------------------|
| 1. Head lamp (Low & High) | 8. Vanity lamp |
| 2. Head lamp (Low) | 9. Rear personal lamp |
| 3. Head lamp (High) | 10. Luggage lamp |
| 4. Turn signal lamp | 11. Head lamp (Static Bending Light) |
| 5. Daytime running light (DRL) & Positioning lamp | 12. Turn signal lamp (LED) |
| 6. Side repeater lamp | 13. Room lamp |
| 7. Overhead console lamp | |

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- | | |
|---------------------|----------------------------|
| 1. Stop & Tail lamp | 4. Back up lamp |
| 2. Tail lamp | 5. High mounting stop lamp |
| 3. Turn signal lamp | 6. License plate lamp |

Troubleshooting

Symptom	Possible cause	Remedy
One lamp does not light (all exterior)	Bulb burned out	Replace bulb
	Socket, wiring or ground faulty	Repair if necessary
Head lamps do not light	Bulb burned out	Replace bulb
	Ignition fuse (LOW:10A, HIGH:20A) blown	Check for short and replace fuse
	Head lamp fuse (15A) blown	Check for short and replace fuse
	Head lamp relay faulty	Check relay
	Lighting switch faulty	Check switch
	Wiring or ground faulty	Repair if necessary
Tail lamps and license plate lamps do not light	Bulb burned out	Replace bulb
	Tail lamp fuse (10A) blown	Check for short and replace fuse
	Tail lamp relay faulty	Check relay
	Lighting switch faulty	Check switch
	Wiring or ground faulty	Repair if necessary
Stop lamps do not light	Bulb burned out	Replace bulb
	Stop lamp fuse (15A) blown	Check for short and replace fuse
	Stop lamp switch faulty	Adjust or replace switch
	Wiring or ground faulty	Repair if necessary
Stop lamps do not turn off	Stop lamp switch faulty	Repair or replace switch
Instrument lamps do not light (Tail lamps light)	Rheostat faulty	Check rheostat
	Wiring or ground faulty	Repair if necessary
Turn signal lamp does not flash on one side	Bulb burned out	Replace bulb
	Turn signal switch faulty	Check switch
	Wiring or ground faulty	Repair if necessary
	Bulb burned out	Replace bulb

Turn signal lamps do not light	Turn signal lamp fuse (10A) blown	Check for short and replace fuse
	Flasher unit faulty	Check flasher unit
	Turn signal switch faulty	Check switch
	Wiring or ground faulty	Repair if necessary
Hazard warning lamps do not light	Bulb burned out	Replace bulb
	Hazard warning lamp fuse (15A) blown	Check for short and replace fuse
	Flasher unit faulty	Check flasher unit
	Hazard switch faulty	Check switch
	Wiring or ground faulty	Repair if necessary
Flasher rate too slow or too fast	Lamps' wattages are smaller or larger than specified	Replace lamps
	Flasher unit faulty	Check flasher unit
Back up lamps do not light	Bulb burned out	Replace bulb
	Back up lamp fuse (10A) blown	Check for short and replace fuse
	Back up lamp switch (M/T) faulty	Check switch
	Transaxle range switch (A/T) faulty	Check switch
	Wiring or ground faulty	Repair if necessary
Room lamp does not light	Bulb burned out	Replace bulb
	Room lamp fuse (10A) blown	Check for short and replace fuse
	Room lamp switch faulty	Check switch
	Wiring or ground faulty	Repair if necessary
Rear fog lamps do not light	Bulb burned out	Replace bulb
	Rear fog lamp fuse blown	Check for short and replace fuse
	Rear fog lamp relay faulty	Check relay
	Rear fog lamp switch faulty	Check switch

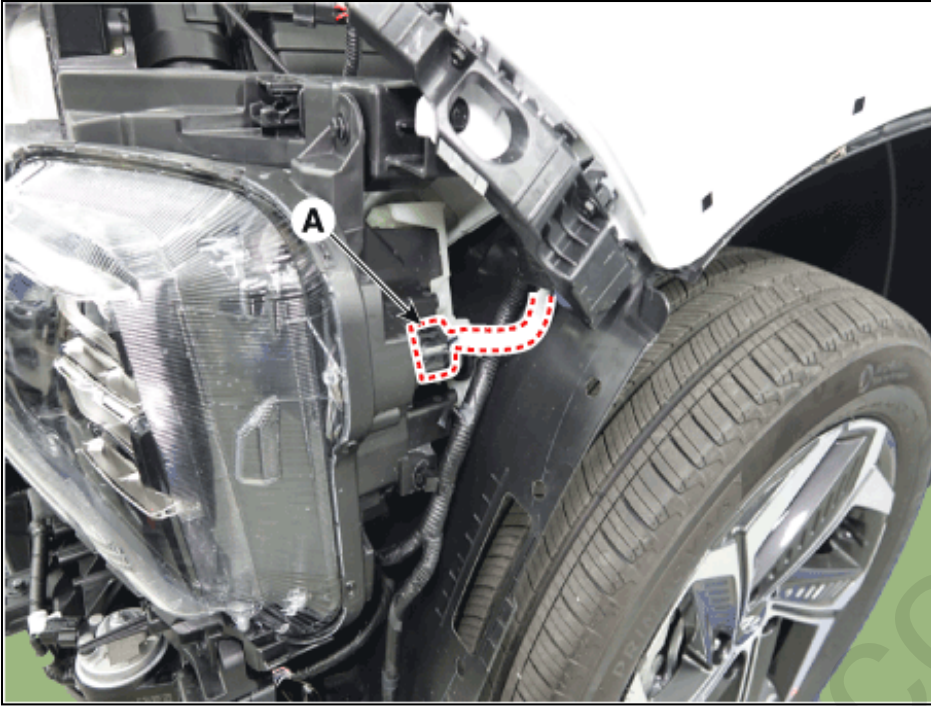
	Wiring or ground faulty	Repair if necessary
Wiring or ground faulty	Repair if necessary	
Map lamp does not light	Bulb burned out	Replace bulb
	Room lamp fuse (10A) blown	Check for short and replace fuse
	Map lamp switch faulty	Check switch
	Wiring or ground faulty	Repair if necessary
Trunk room lamp does not light	Bulb burned out	Replace bulb
	Room lamp fuse (10A) blown	Check for short and replace fuse
	Trunk room lamp switch faulty	Check switch
	Wiring or ground faulty	Repair if necessary

Specifications

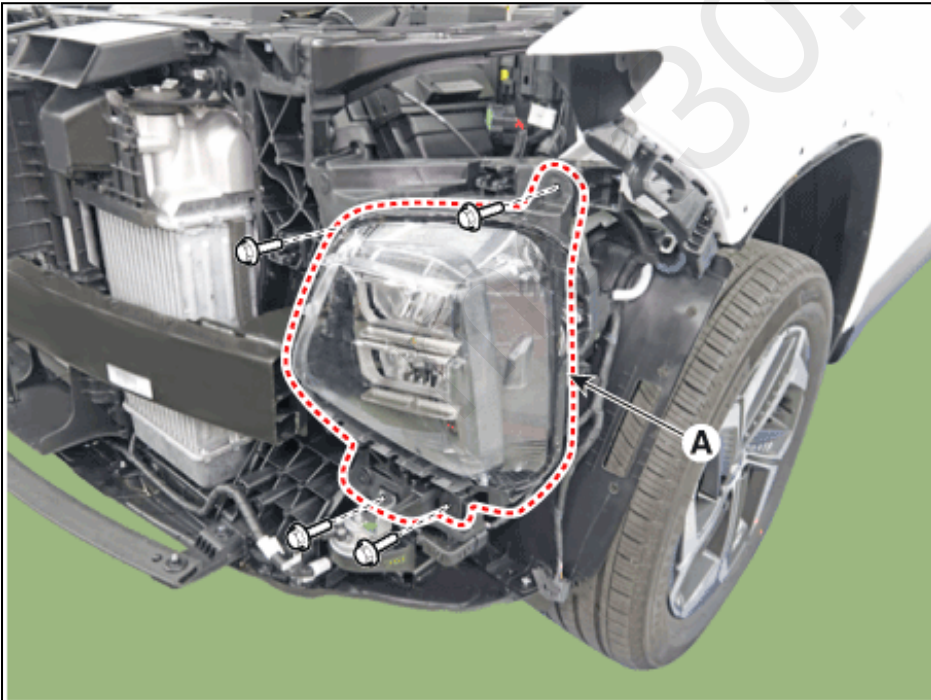
Items			Bulb Type	Bulb Wattage (W)
Front	Head lamp (STD)	Low	9005HL+	60
		High	9005HL+	60
	Head lamp (Option)	Low	LED	LED
		High	LED	LED
	Turn signal lamp (STD)		PY21W	21
	Turn signal lamp (Option)		LED	LED
	Position lamp		LED	LED
	Daytime Running Lamp (DRL)		LED	LED
	Door mirror turn signal lamp		LED	LED
	Rear	High mounted stop lamp		LED
Rear combination lamp (STD)		Stop/ Tail lamp	PY21/5W	21/5
		Tail lamp	PY21/5W	21/5
Rear combination lamp (Option)		Stop	LED	LED
		Tail lamp	LED	LED
Turn signal lamp		PY21W	21	
Back up lamp		W5W	5	
License plate lamp			W5W	5
Cargo lamp			FESTOON	10
Map lamp (STD)			W10W	STD : 10
Map lamp (Option)			LED	LED
Room lamp			FESTOON	10
Vanity lamp			FESTOON	5
Rear personal lamp			LED	LED

Removal

1. Disconnect the negative (-) battery terminal.
2. Remove the front bumper assembly.
(Refer to Body - "Front Bumper Assembly")
3. Disconnect the head lamp connector (A).



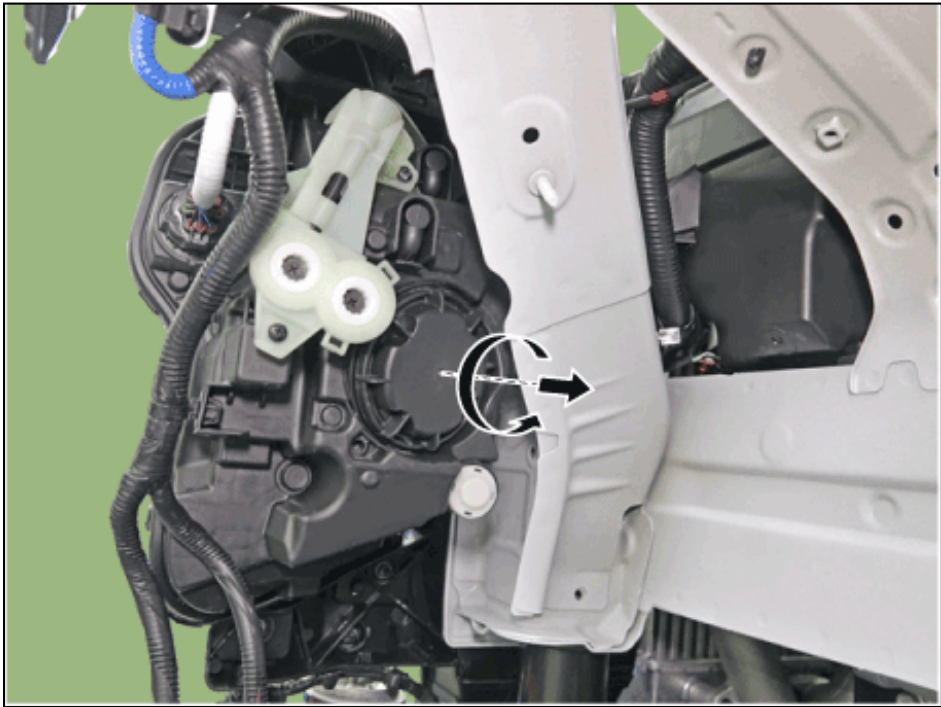
4. Loosen the mounting bolts and then remove the head lamp assembly (A).



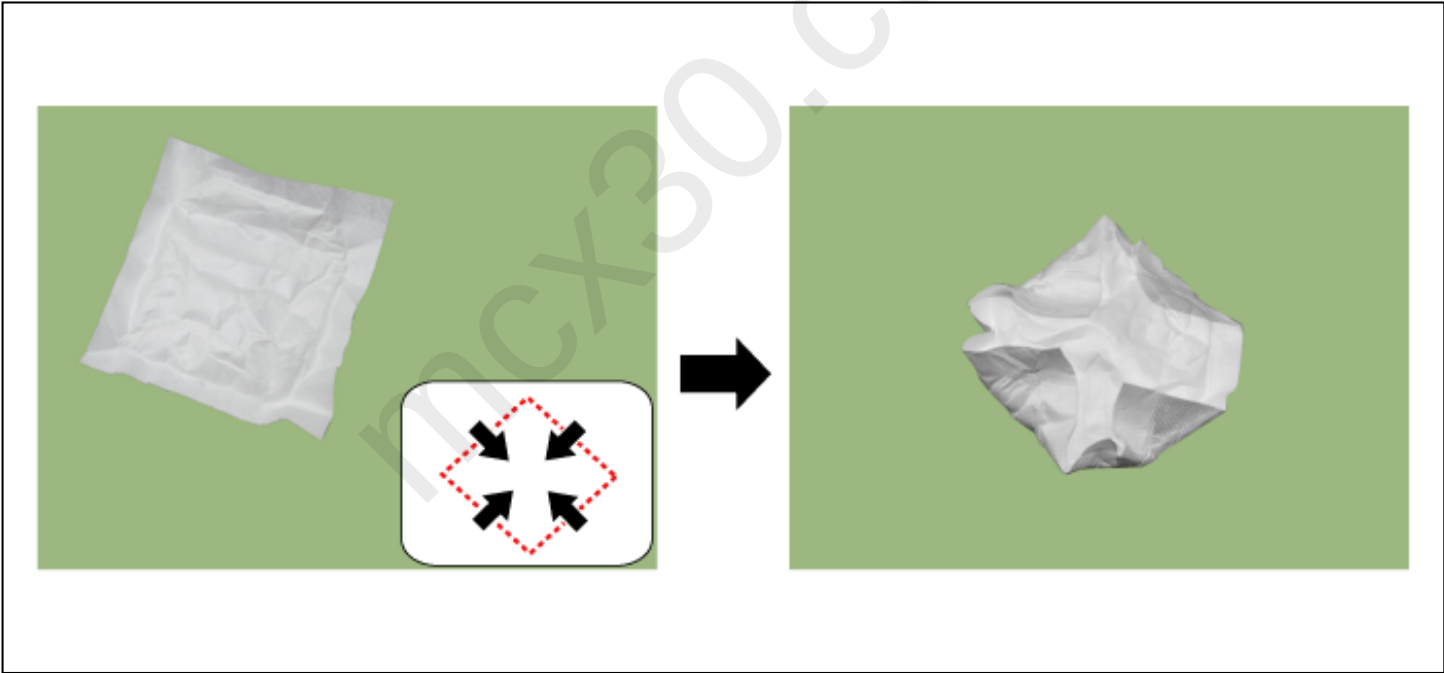
Replacement

1. Remove the front wheel guard.
(Refer to Body - "Front Wheel Guard")

2. Unfasten the screws and then replace the moisture-absorbing agent .



•Fold the moisture absorber as in the illustration below.



•When installation, install it in the same direction before removing.

Installation

1. Install the head lamp bulbs.
2. Install the head lamp bulb covers.
3. Install the head lamp assembly after connecting the lamp connector.

Head Lamp Aiming

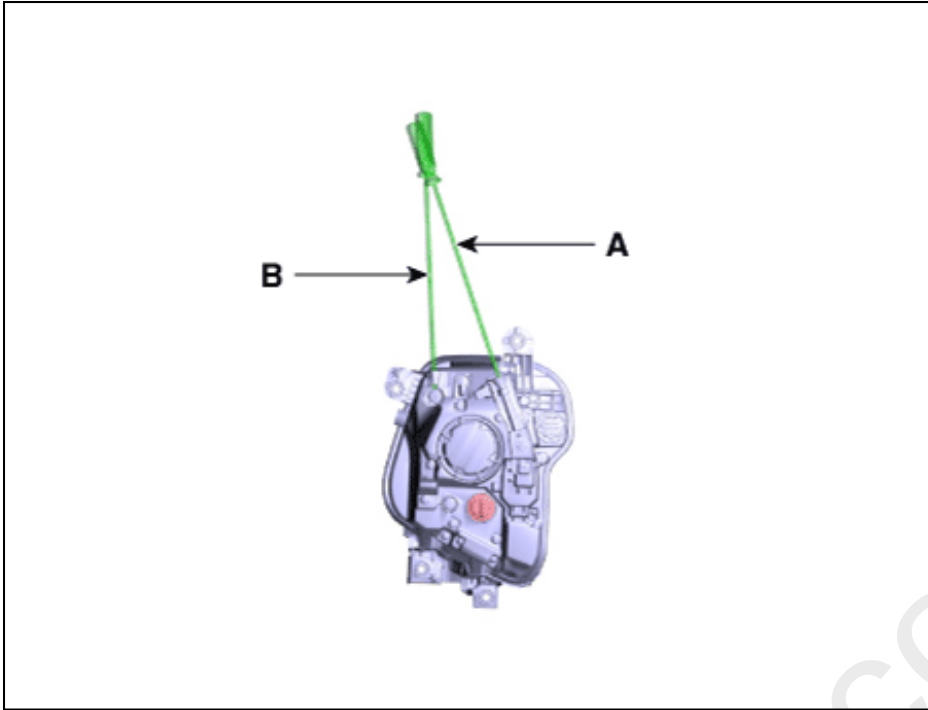
Instructions

Alternately turn the adjusting gear to adjust the head lamp aiming.

If beam-setting equipment is not available, proceed as follows :

1. Draw vertical lines (Vertical lines passing through respective head lamp centers) and a horizontal line (Horizontal line passing through center of head lamps) on the screen.

2. The vehicle should be placed on a flat ground.
3. With the head lamp and battery in normal condition, aim the head lamps so the brightest portion falls on the horizontal and vertical lines.
A : Horizontal (High beam / Low beam)
B : Vertical (High beam / Low beam)



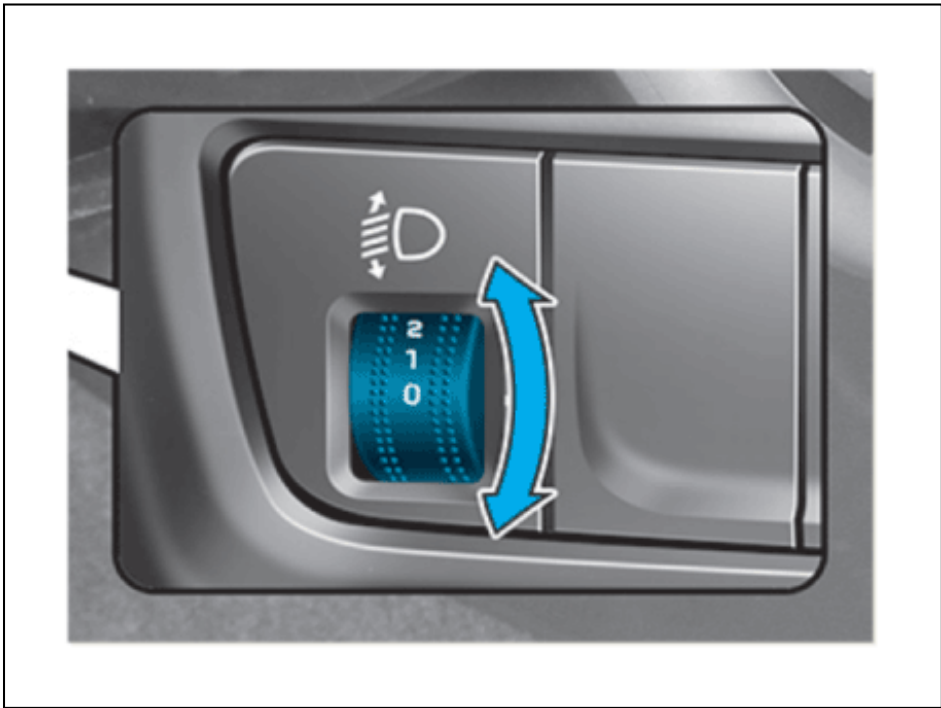
Things to check before headlamp aiming

1. Measure condition

- 1) Measurements shall be carried out on a vehicle which has travelled a distance of between 1,000 km and 10,000 km, preferably 5,000 km.
- 2) Tire shall be inflated to the full-load pressure specified by the vehicle manufacturer. The vehicle shall be fully replenished (fuel, water, oil) and equipped with all accessories and tools specified by the manufacturer. Full fuel replenishment means that the fuel tank shall be filled to not less than 90% of its capacity.
- 3) The vehicle shall have the parking brake released and the gearbox in neutral.
- 4) The vehicle shall be conditioned for at least 8h at the temperature between 10~30°C.
- 5) If a photometric or visual method is used, headlamps with a well-defined dipped-beam cut-off should preferably be installed on the vehicle under test in order to facilitate the measurements. Other means are allowed to obtain a more precise reading (for ex, removal of the headlamp lens)
- 6) If the vehicle is fitted with a manual leveling device, it shall be '0' position.

2. Vehicle preparation

- 1) If a visual inspection of the dipped-beam pattern on the screen or a photometric method is used, measurement shall be carried out in a dark environment of sufficient area to allow the vehicle and the screen to be placed. Headlamp center of reference shall be at a distance from the screen of at least 10 m. (In case of In-line, it is set within 1m but it converts to 10m and recognizes cut-off)
- 2) The ground on which measurements are made shall be as flat and horizontal as possible, so that the reproducibility of measurements of dipped-beam inclination can be assured with an accuracy of 0.5 mrad ($\pm 0.05\%$).
- 3) If a screen is used, its marking, position and orientation in relation to the ground and to the median longitudinal plane of the vehicle, shall be such that the reproducibility of the measurement of the dipped-beam inclination can be assured with an accuracy of 0.5 mrad ($\pm 0.05\%$).
- 4) During measurements, the ambient temperature shall be between 10~30°C.



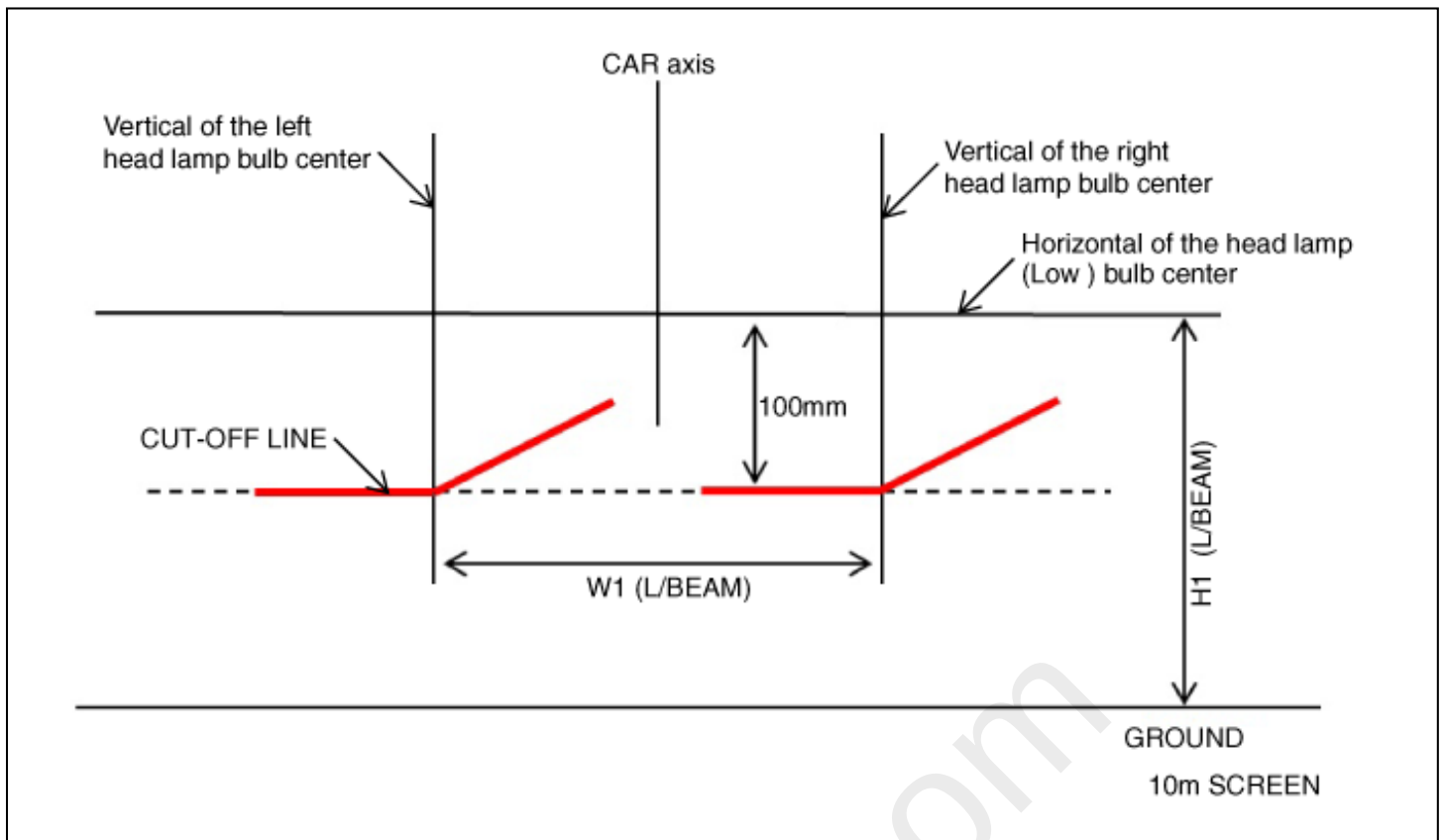
Head Lamp And Fog Lamp Aiming Point

(Low beam : H1,W1 / High beam : H2,W2) (Unit : mm)

Option	Vehicle Condition	H1	H2	W1	W2	L
Halogen Bi-Function	Without driver	644		1436	1436	Refer to aiming condition
	With driver	637				
LED MFR	Without driver	660	589	1434	1434	
	With driver	653	582			
LED Projection	Without driver	680	607			
	With driver	673	600			

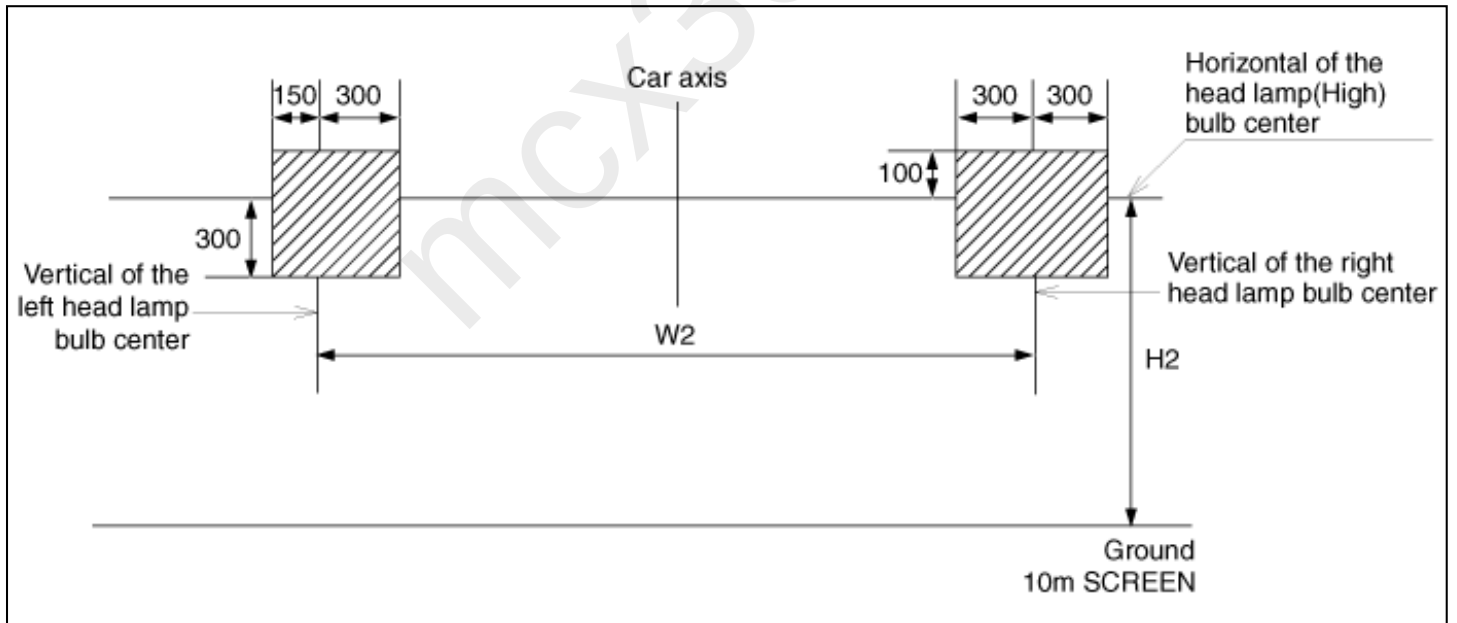
3. Head Lamp (Low beam)

- With the low beam turned on, adjust the cut-off line to be located as shown in the picture below.
- If head lamp leveling device is equipped, adjust the head lamp leveling device switch with 0 positions.



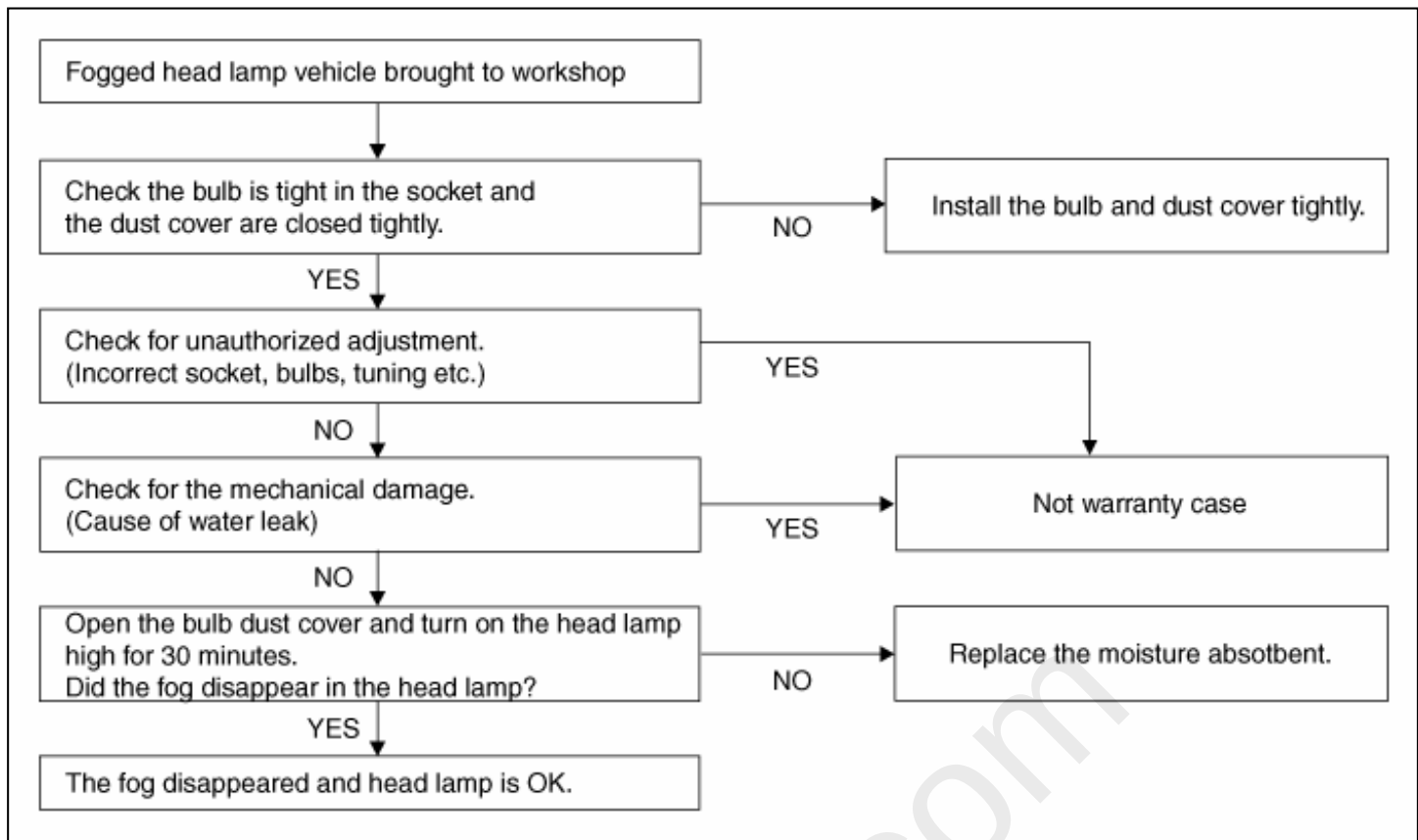
4. Head Lamp (High Beam)

- Turn the high beam on without driver aboard.
- The cut-off line should be projected in the cut-off line shown in the picture.
- When aiming the low beam, vertical aiming should be adjusted after adjusting the horizontal aiming.
- If head lamp leveling device is equipped, adjust the head lamp leveling device switch with 0 positions.



Head lamp fogging

Check the below instruction procedure when the head lamp is fogged.



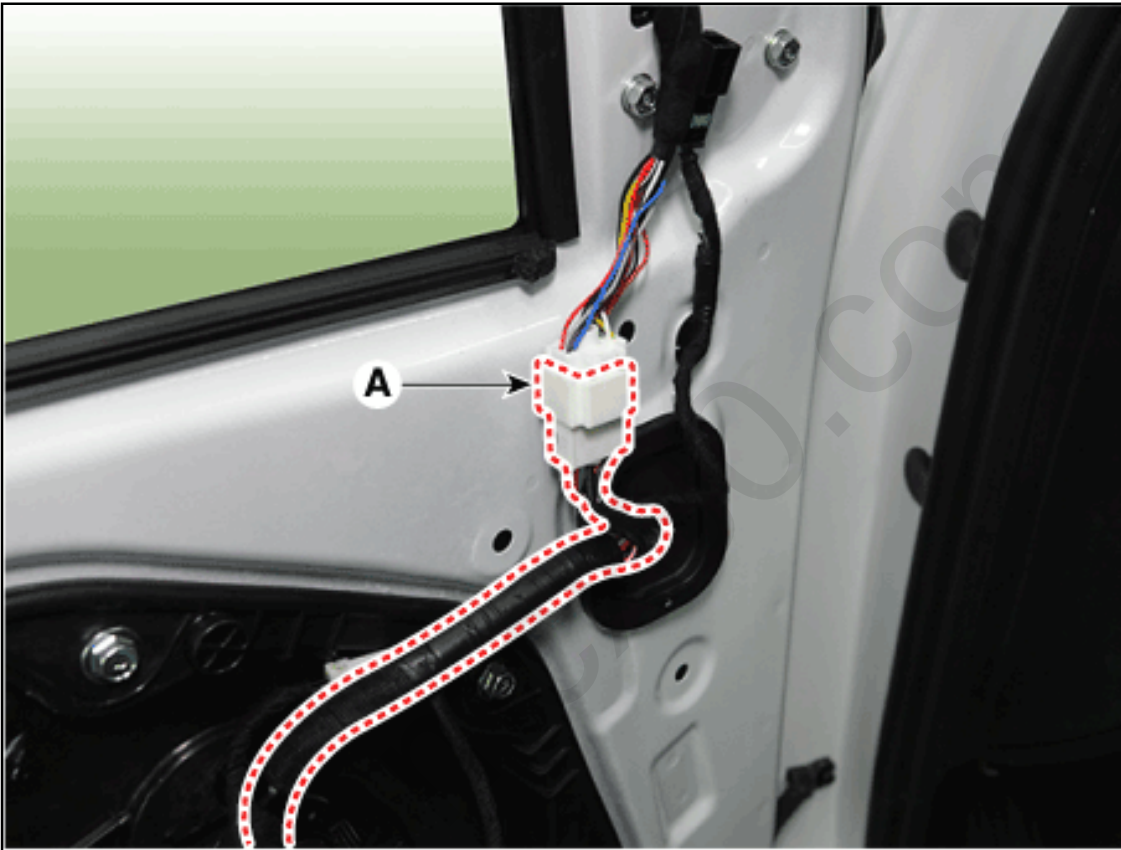
Removal

Outside Rear View Mirror

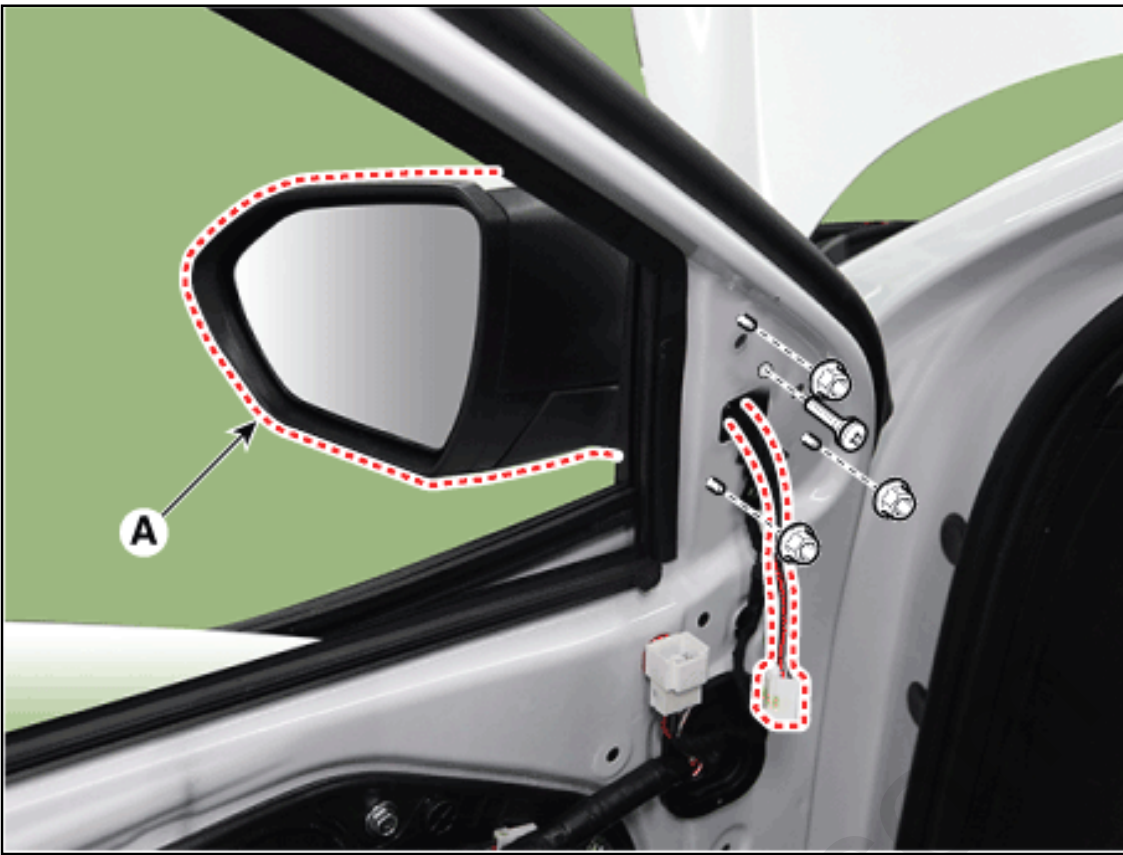


- When removing with a flat-tip screwdriver or remover, wrap protective tape around the tools to prevent damage to components.
- Put on gloves to prevent hand injuries.

1. Disconnect the negative (-) battery terminal.
2. Remove the front door trim.
(Refer to Body - "Front Door Trim")
3. Disconnect the rear view mirror connector (A).

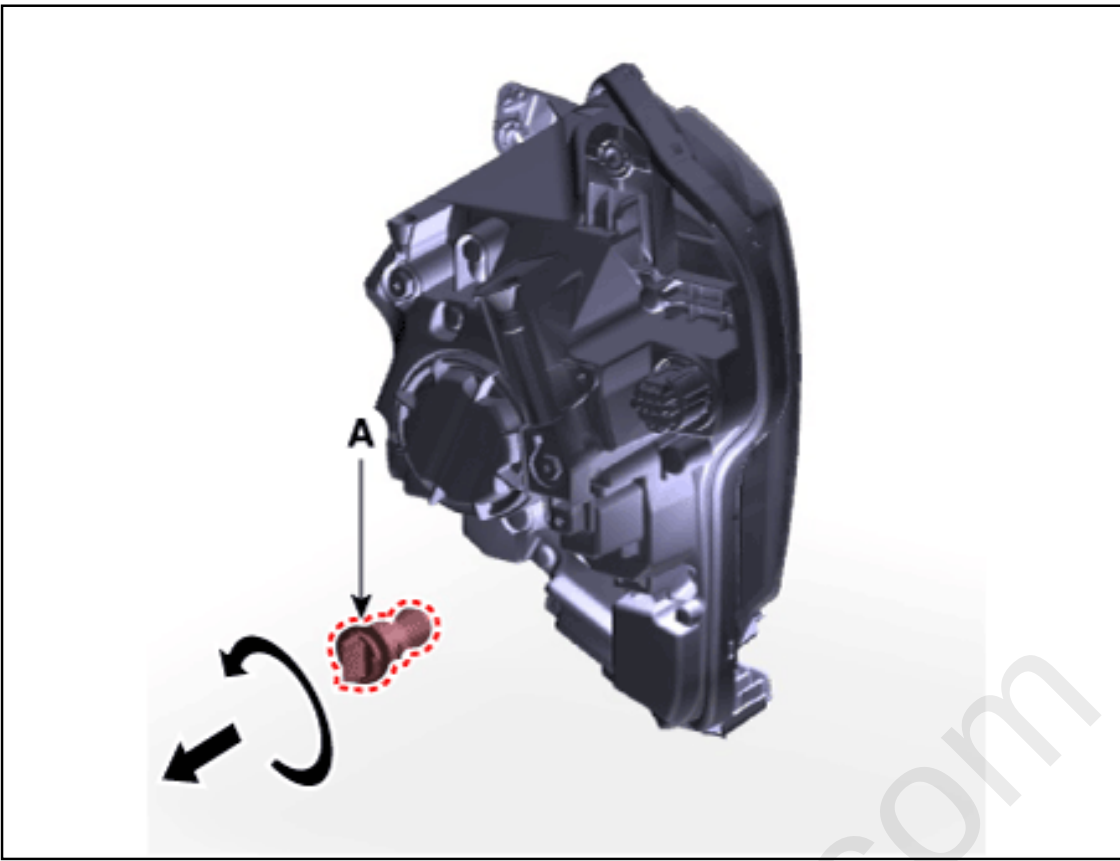


4. Loosen the mounting nuts and then remove the outside rear view mirror (A).



Front Turn Signal Lamp

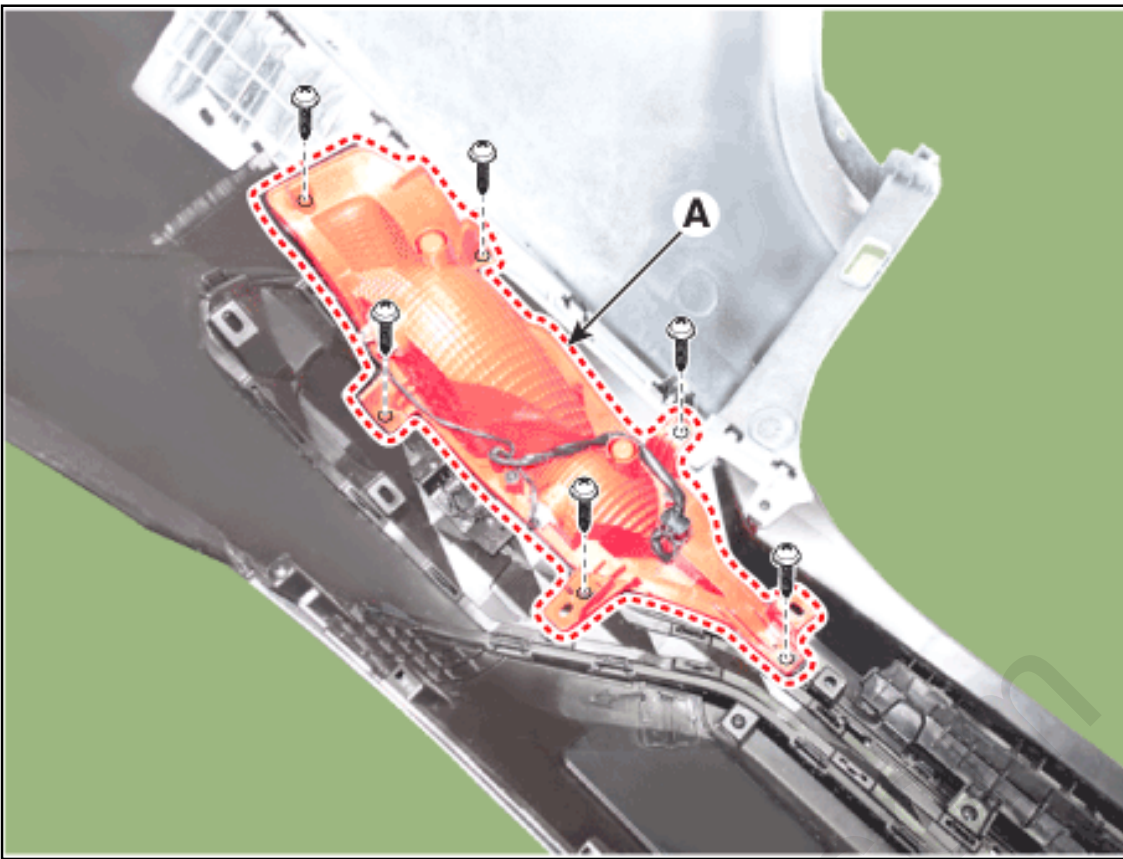
1. Disconnect the negative (-) battery terminal.
2. Remove the front wheel guard.
(Refer to Body - "Front Wheel Guard")
3. Remove the turn signal lamp (A) after turning in the counterclockwise direction.



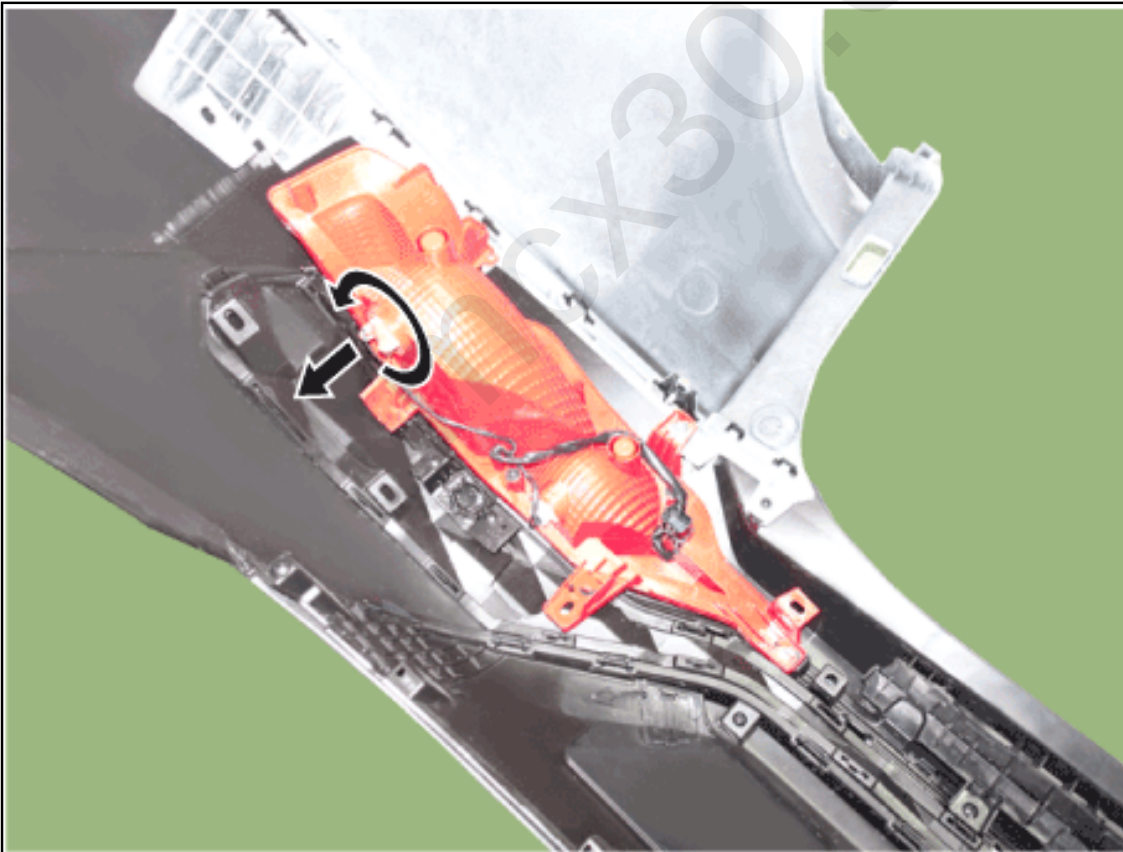
Rear Turn Signal Lamp

[Remove]

1. Disconnect the negative (-) battery terminal.
2. Remove the rear bumper assembly.
(Refer to Body - "Rear Bumper Assembly")
3. Loosen the mounting screws and remove the rear turn signal lamp (A).



4. Remove the bulb after turning in the counterclockwise direction.



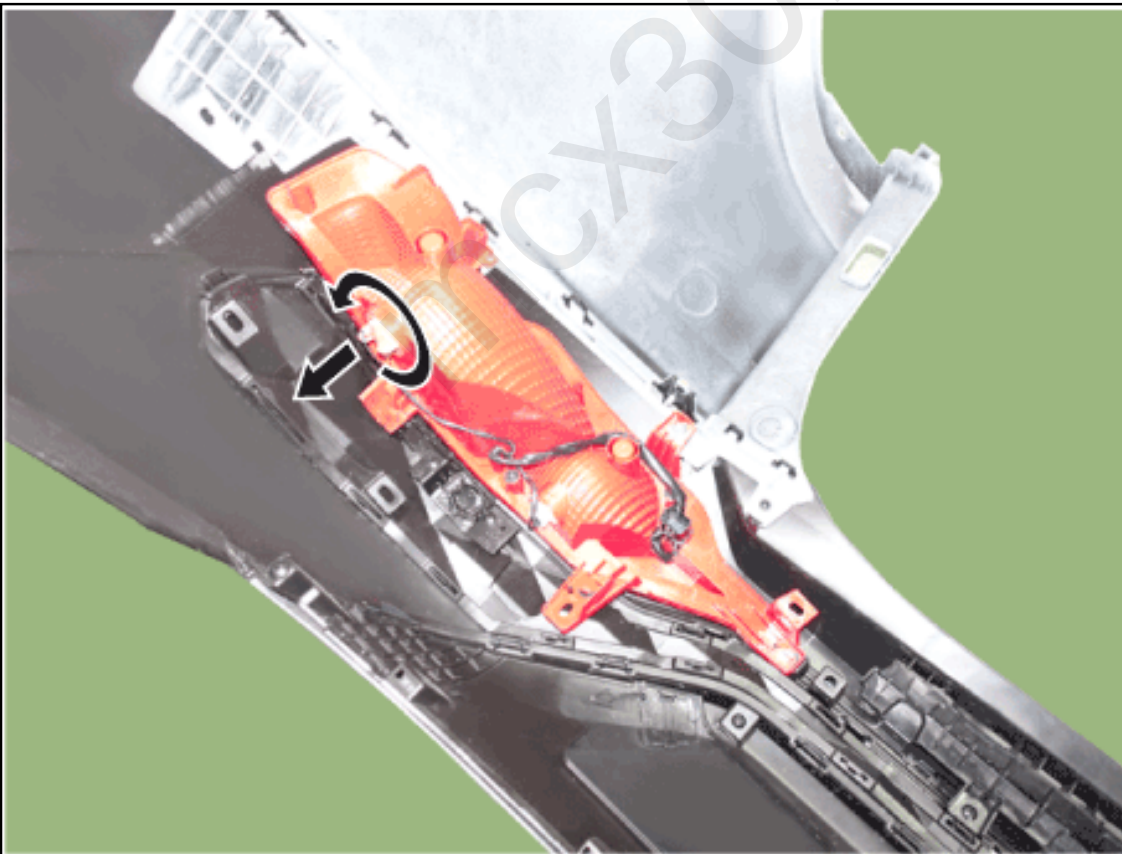
[Replacement]

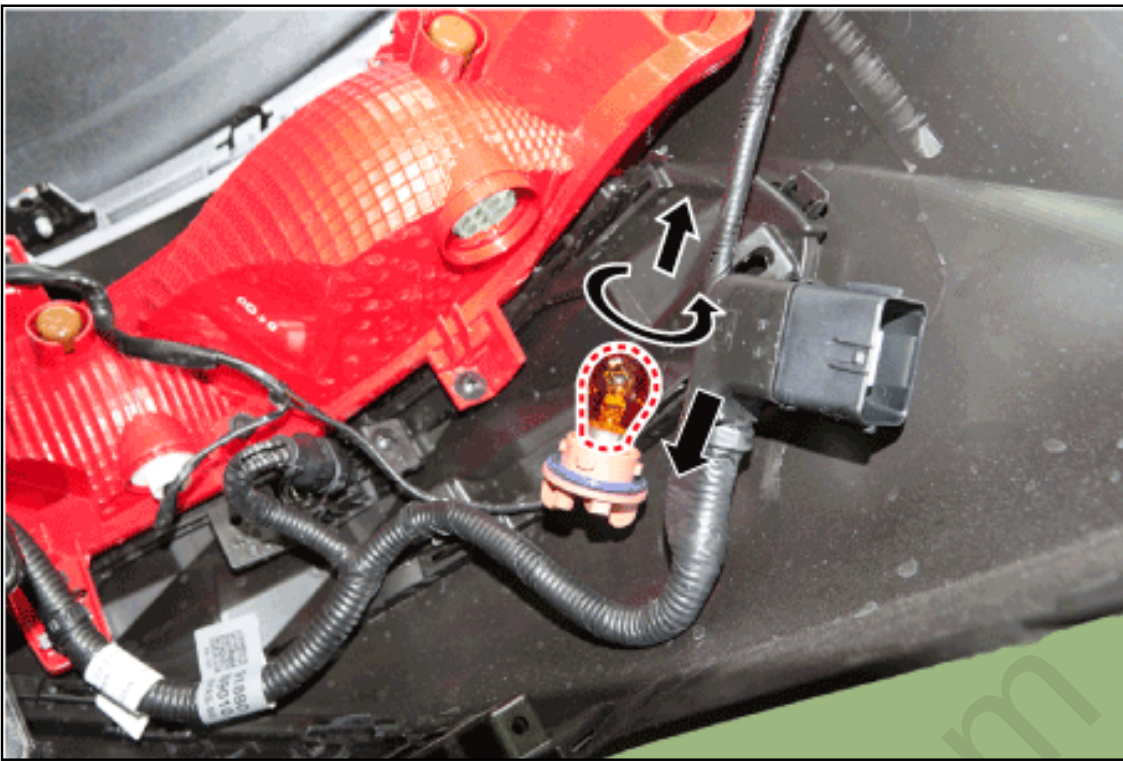
5. Disconnect the negative (-) battery terminal.

6. Loosen the mounting clips and remove the rear side under cover (A).



7. Remove the bulb after turning in the counterclockwise direction.





Installation

Outside Rear View Mirror

1. Install the outside rear view mirror and connect the connector.

Tightening torque :

6.9 - 10.8 N.m (0.7 - 1.1 kgf.m, 5.0 - 8.0 lb-ft)

2. Connect the negative (-) battery terminal.

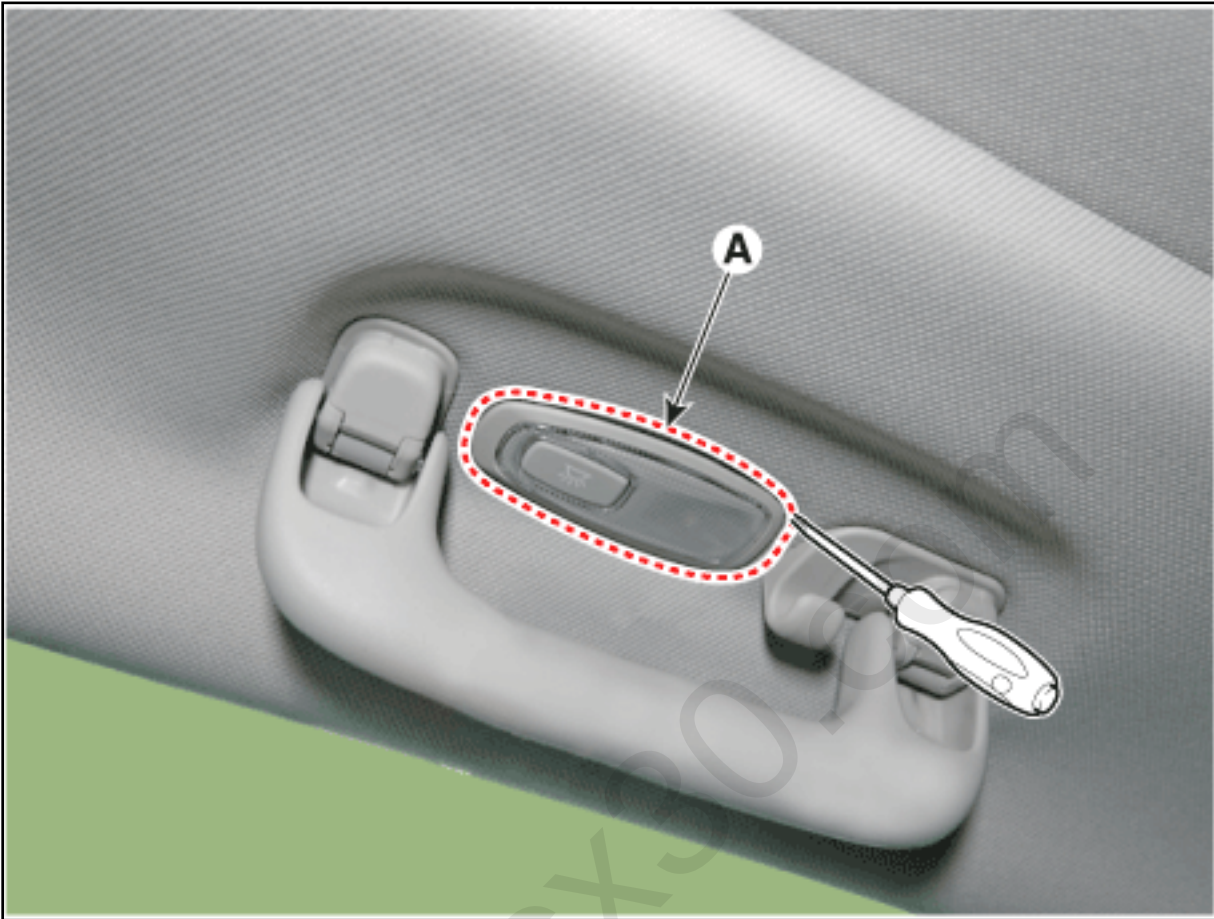
Front/Rear Turn Signal Lamp

1. Install the front/rear turn signal lamp.
2. Install the front/rear bumper cover.
3. Connect the negative (-) battery terminal.

Removal

Rear Personal Lamp

1. Disconnect the negative (-) battery terminal.
2. Remove the rear personal lamp (A).

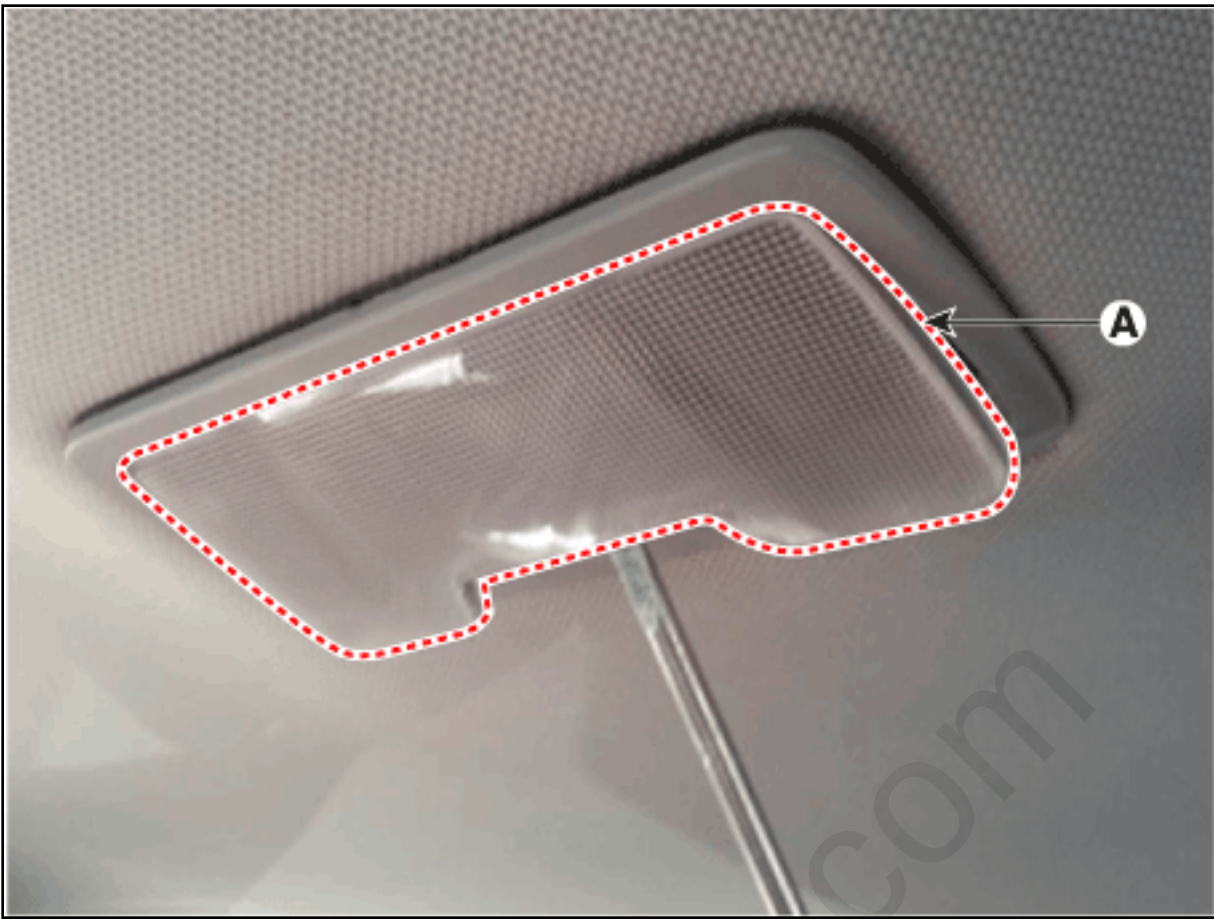


3. Disconnect the rear personal lamp connector (A).

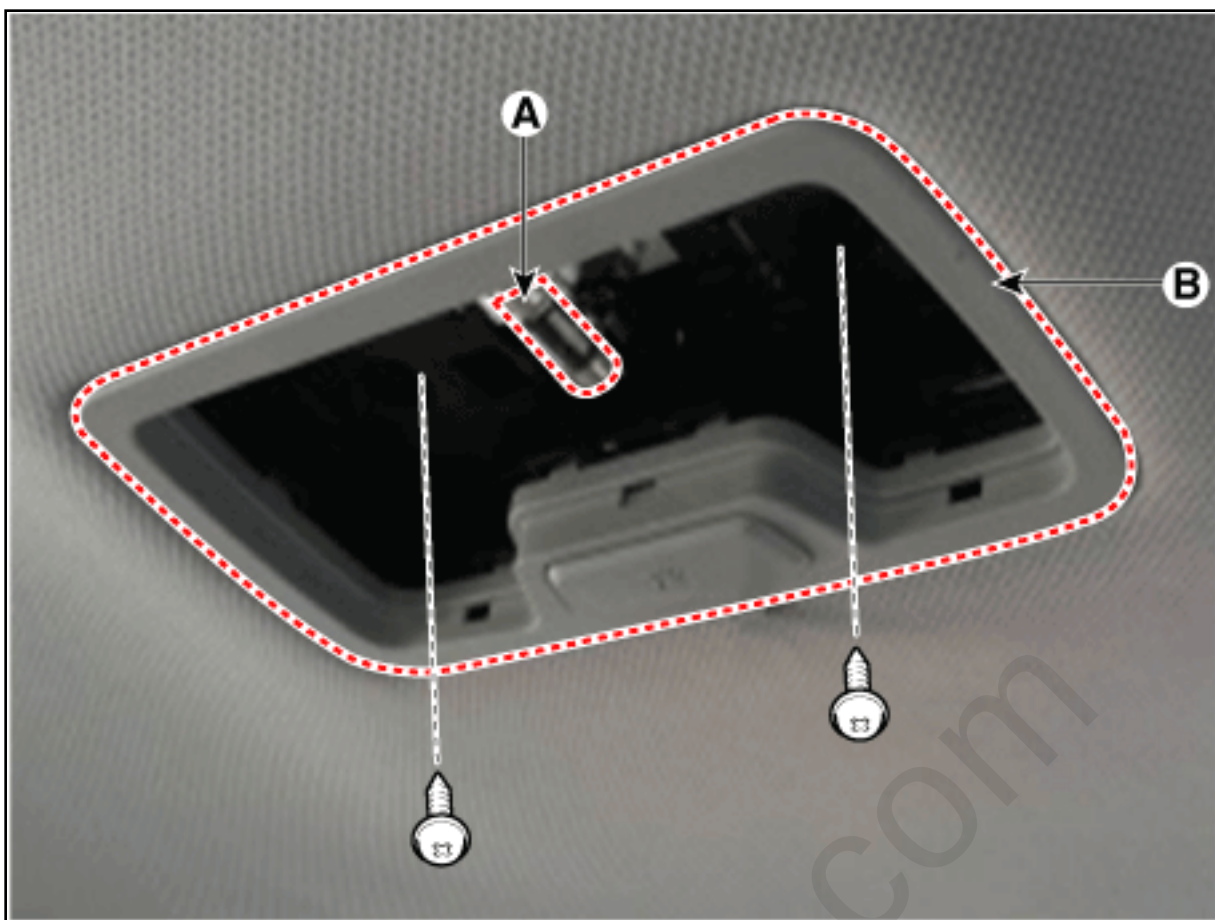


Room Lamp (Without sunroof)

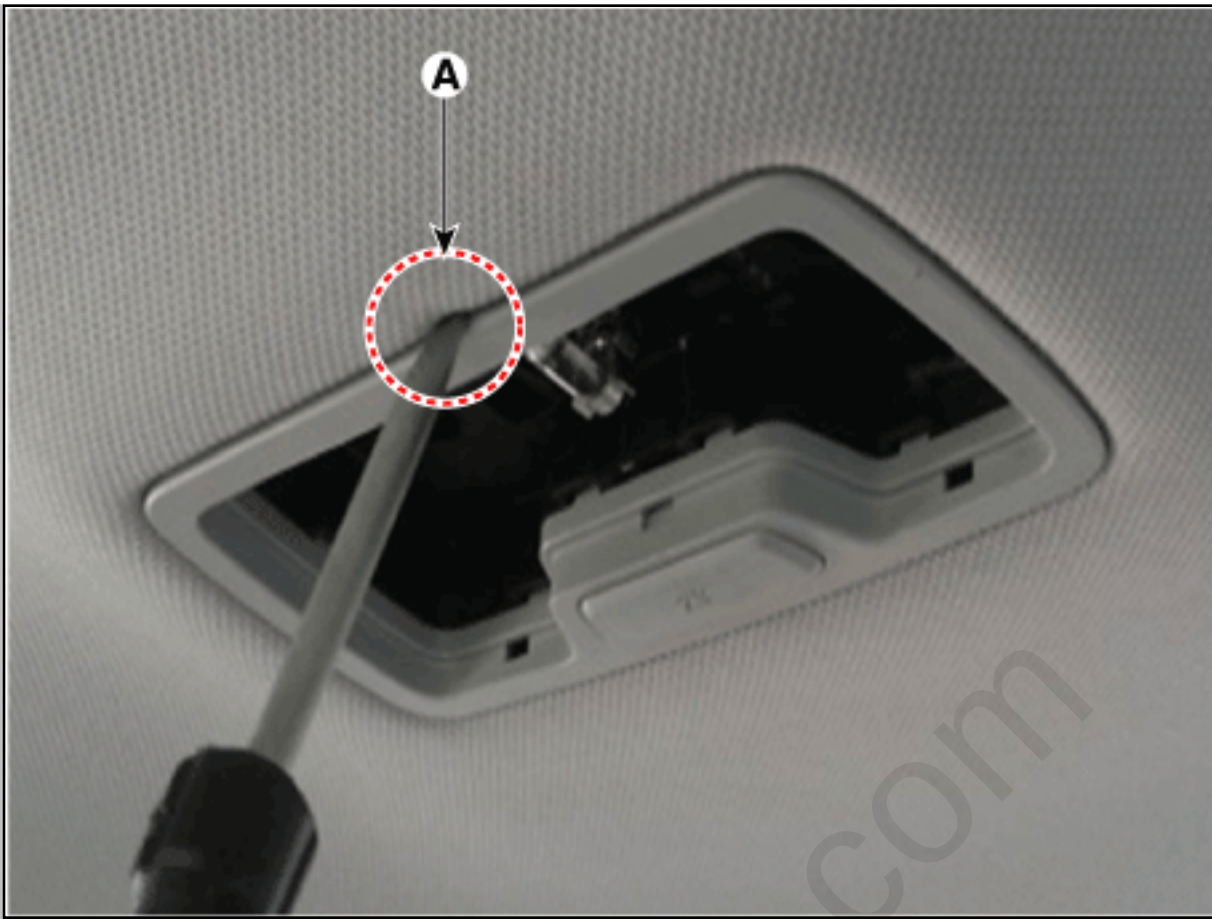
1. Disconnect the negative (-) battery terminal.
2. Detach the lamp lens (A) from the room lamp with a flat-tip screwdriver.



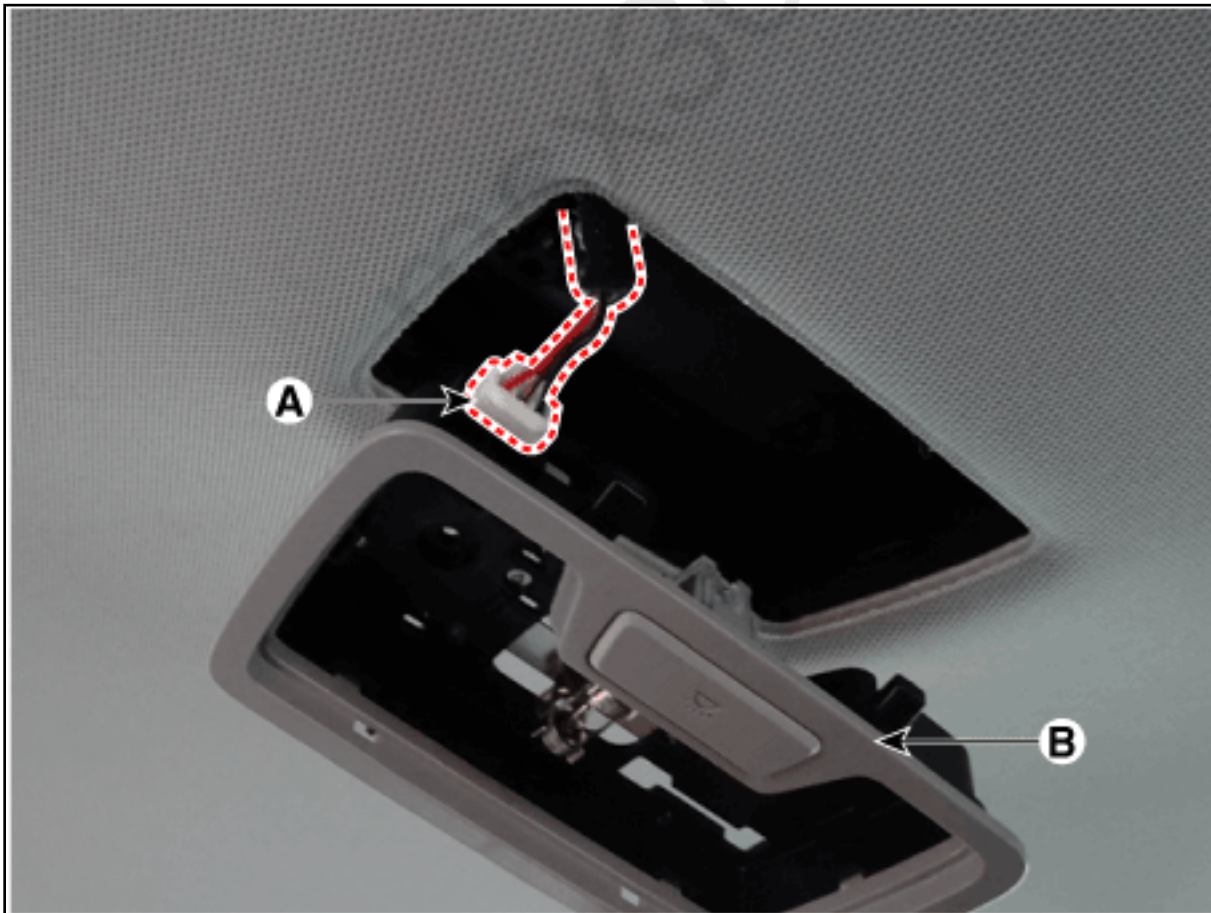
3. If it is necessary replace the room lamp bulb (A).
4. Loosen the mounting screws and remove the room lamp (B).



- When using the tool to remove the lamp, pay attention to the direction of tool insertion (A)
- Be careful not to break the room lamp when inserting the tool in the opposite direction.



5. Disconnect the room lamp connector (A) and remove the room lamp (B) from the roof trim.



Installation

Room Lamp (Without sunroof)

1. Connect the connector and install the lamp.
2. Install the room lamp lens.
3. Connect the negative (-) battery terminal.

Rear Personal Lamp

1. Connect the connector and install the lamp.
2. Connect the negative (-) battery terminal.

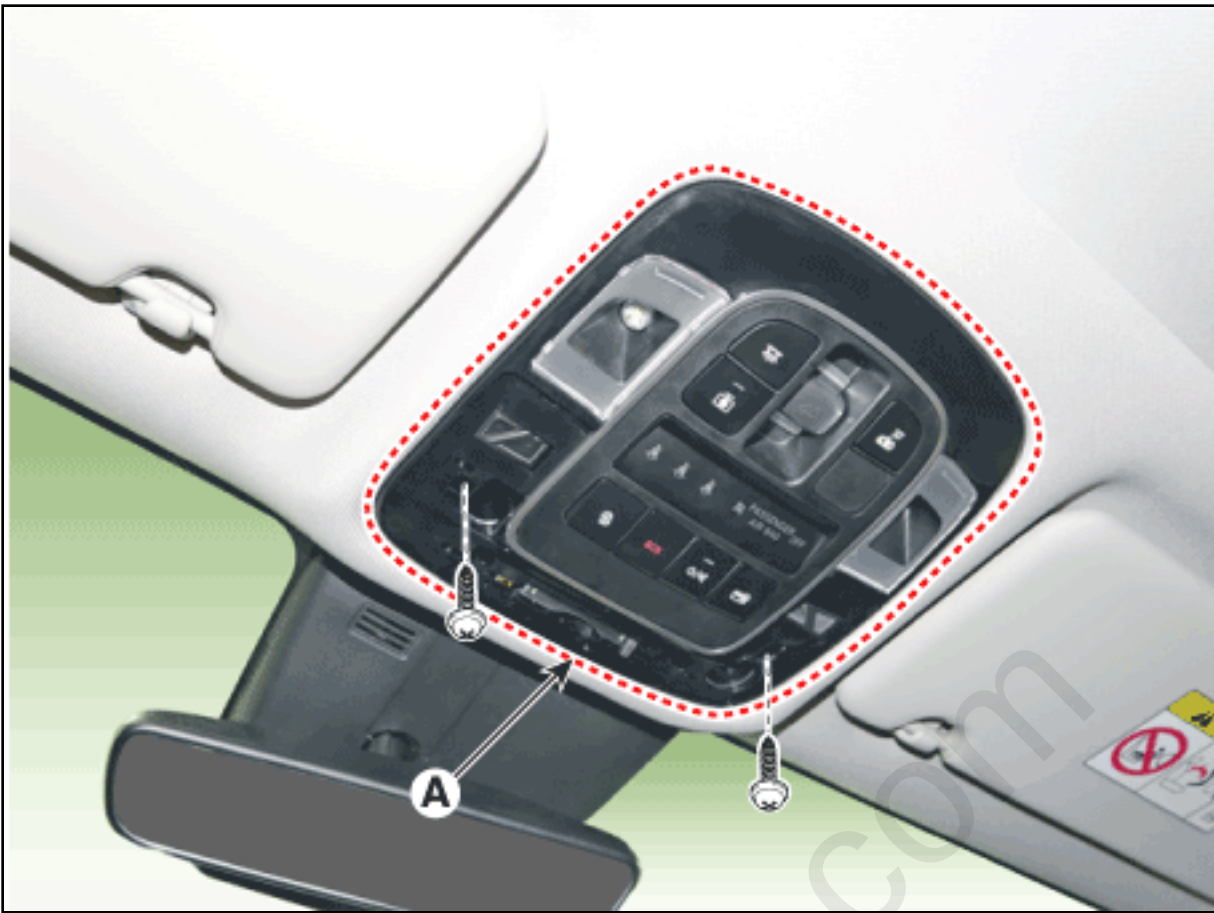
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Removal

1. Disconnect the negative (-) battery terminal.
2. Remove the overhead console cover (A).



3. Remove the mounting screws. and then remove the overhead console (A).



4. Remove the overhead console after disconnect the connector (A).



Installation

- 1. Install the overhead console lamp after connecting the connector.
- 2. Connect the negative (-) battery terminal.

Inspection

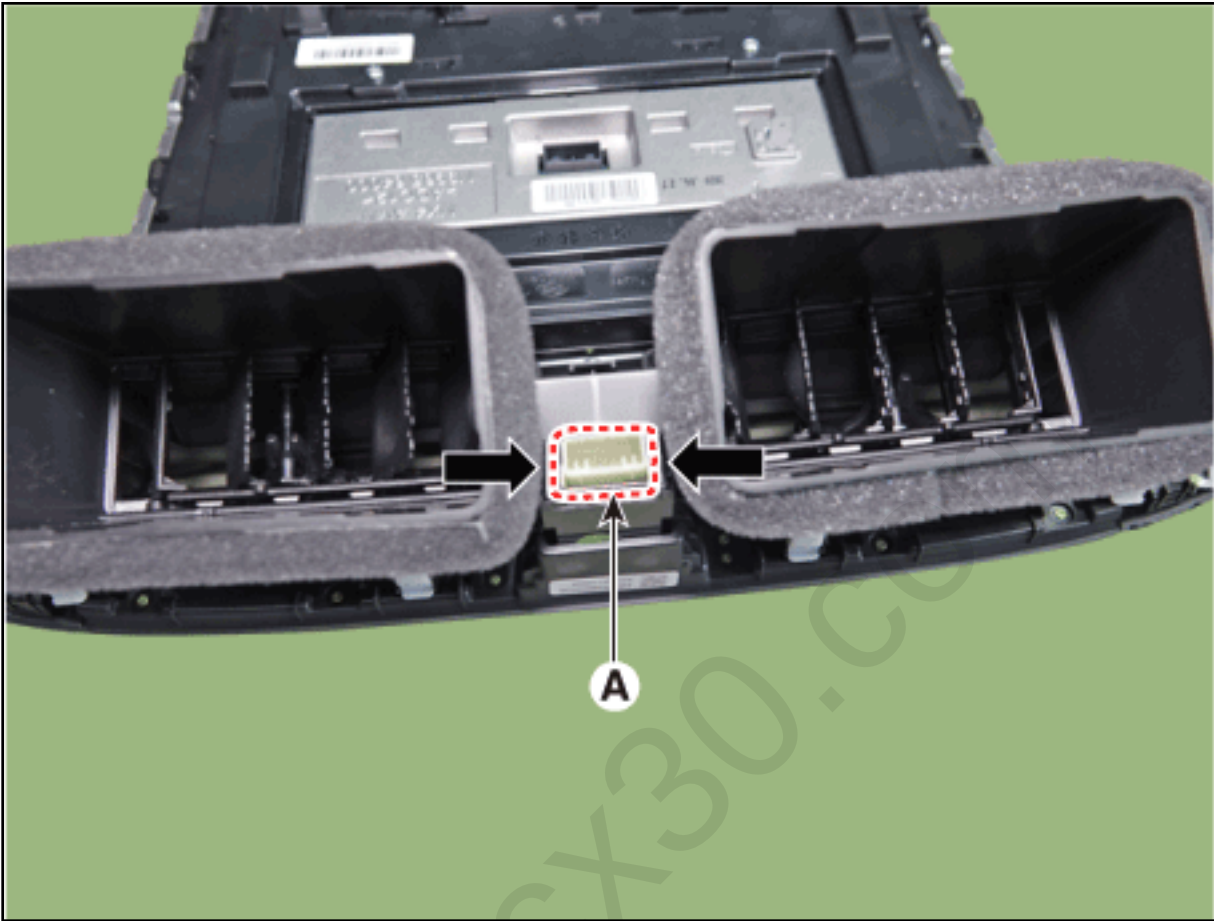
- 1. Remove the overhead console lamp assembly then check for continuity between terminals. If the continuity is not as specified, replace the map lamp switch.



Pin No	Description
1	Door
13	Ground
16	Door open signal
22	Rear room lamp signal

Removal

1. Disconnect the negative (-) battery terminal.
2. Remove the front monitor.
(Refer to AVN System - "Front Monitor")
3. Remove the hazard switch (A).



Installation

1. Install the hazard switch.
2. Install the front monitor.
3. Connect the negative (-) battery terminal.

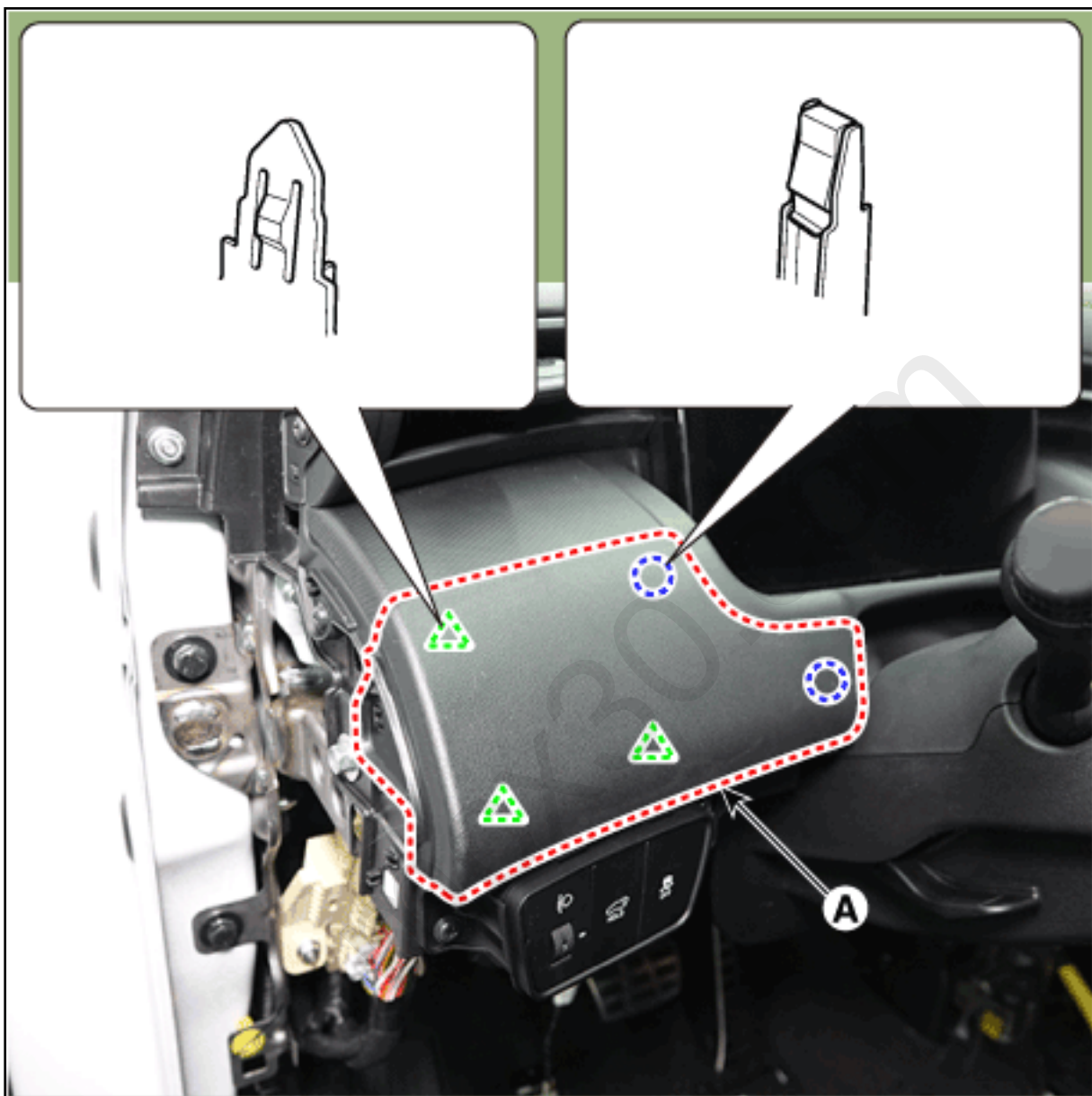
Components



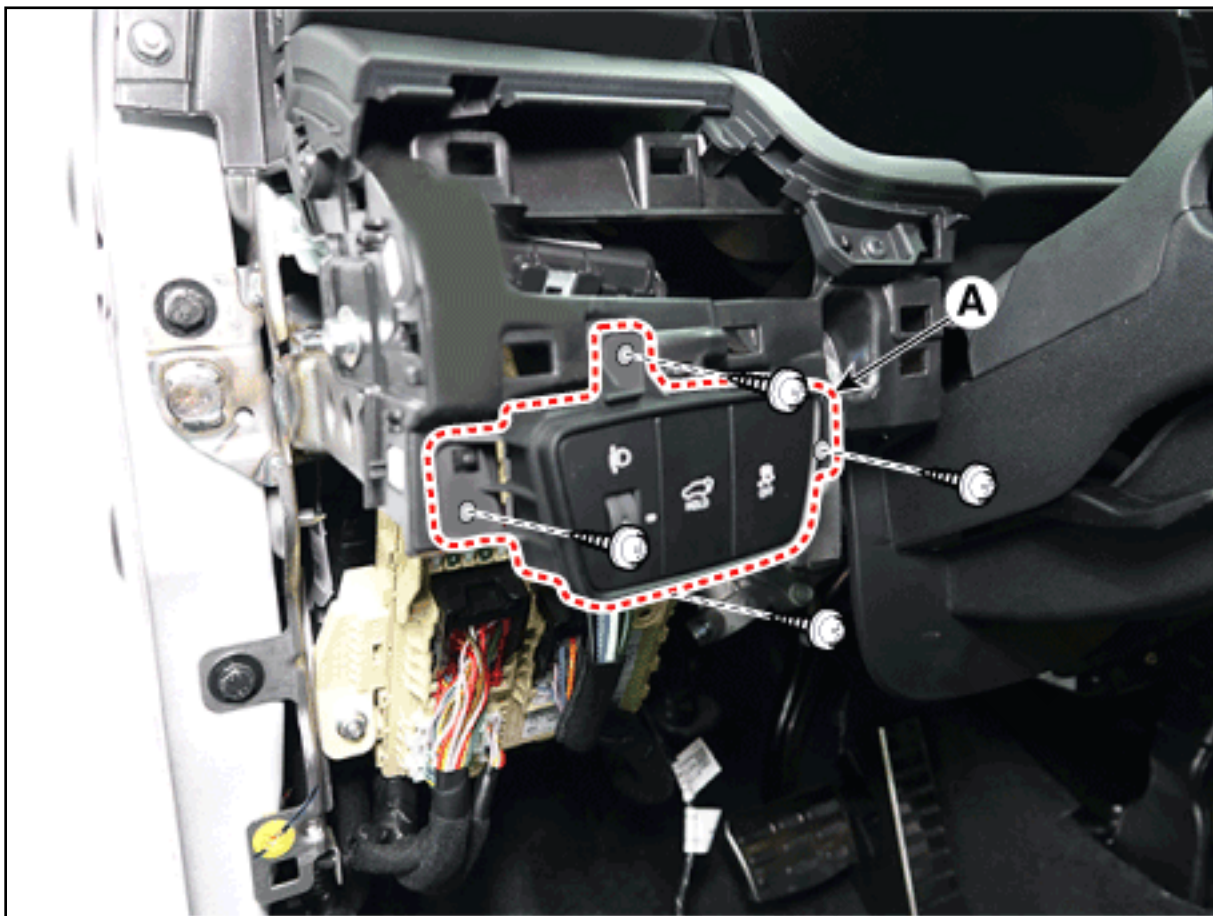
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Removal

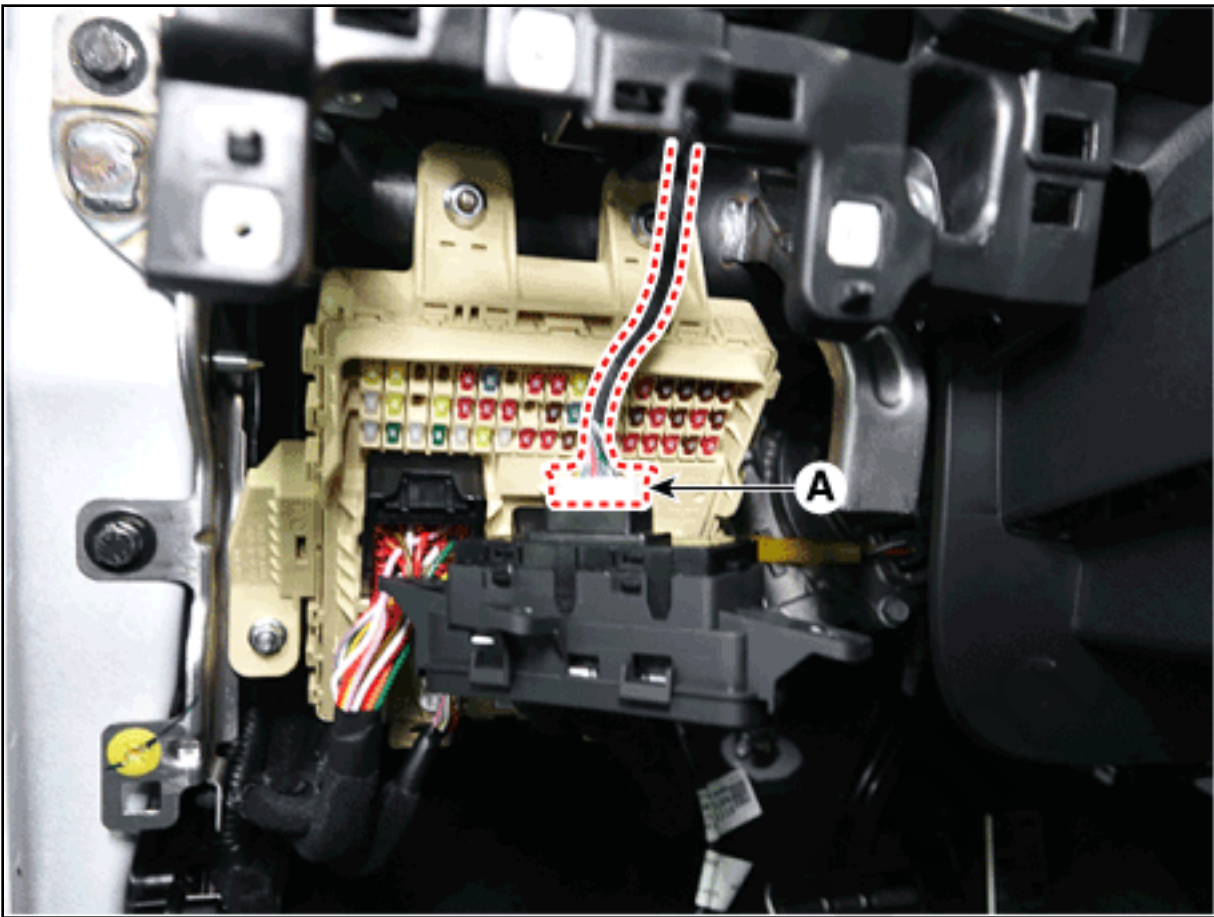
1. Disconnect the negative (-) battery terminal.
2. Remove the crash pad lower panel.
(Refer to Body - "Crash Pad Lower Panel")
3. Loosen the mounting screw and remove the crash pad garnish [LH] (A).



4. Loosen the mounting screws and remove the crash pad lower switch assembly (A).



5. Disconnect the crash pad lower switch connector (A).

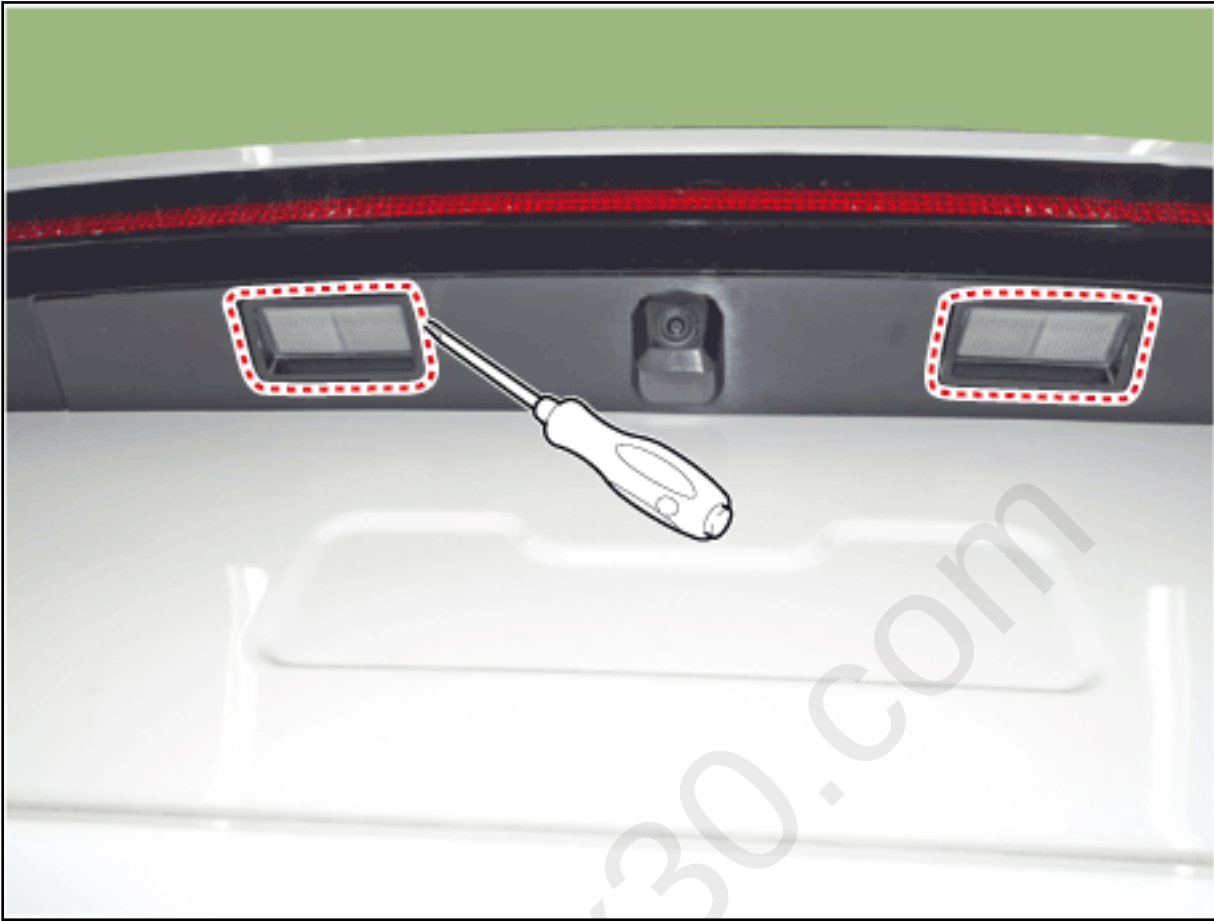


Installation

1. Install the crash pad lower switch.
2. Install the crash pad garnish [LH].
3. Install the crash pad lower panel.
4. Connect the negative (-) terminal

Removal

1. Disconnect the negative (-) battery terminal.
2. Using a flat-tip screwdriver and remove the license lamps.

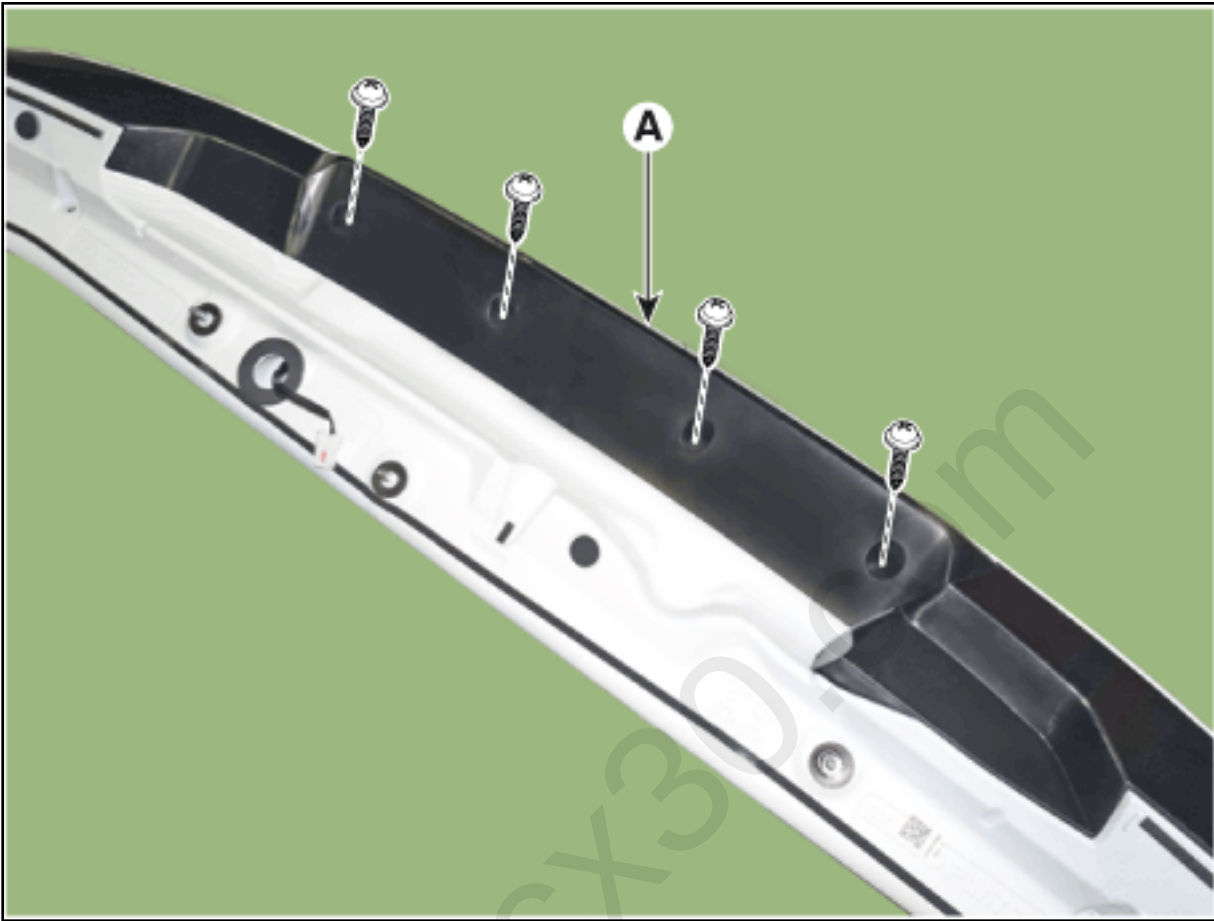


Installation

1. Install the bulb.
2. Install the license lamp lens.

Removal

1. Disconnect the negative (-) battery terminal.
2. Remove the rear spoiler.
(Refer to Body - "Rear Spoiler")
3. Remove the high mounted stop lamp assembly (A) after loosening screws (4EA).

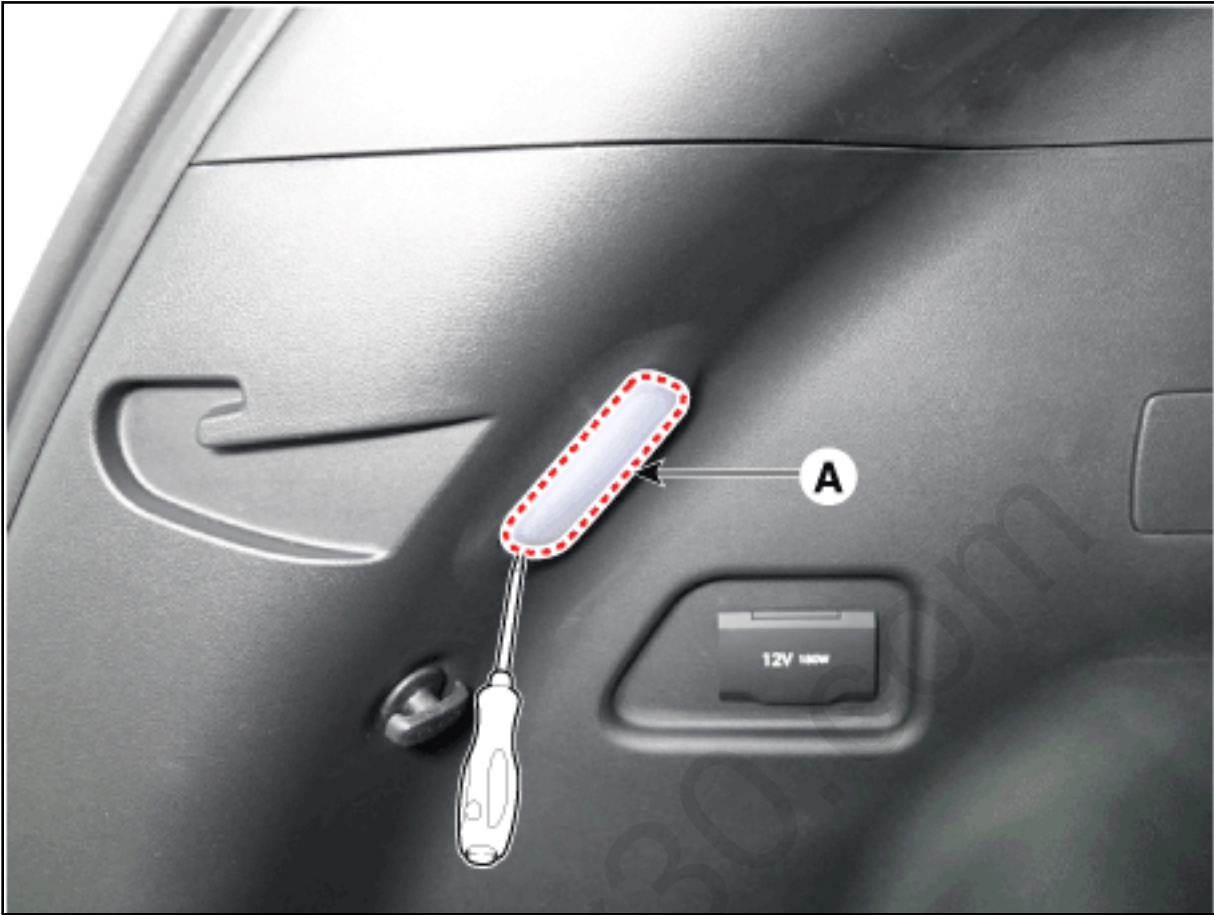


Installation

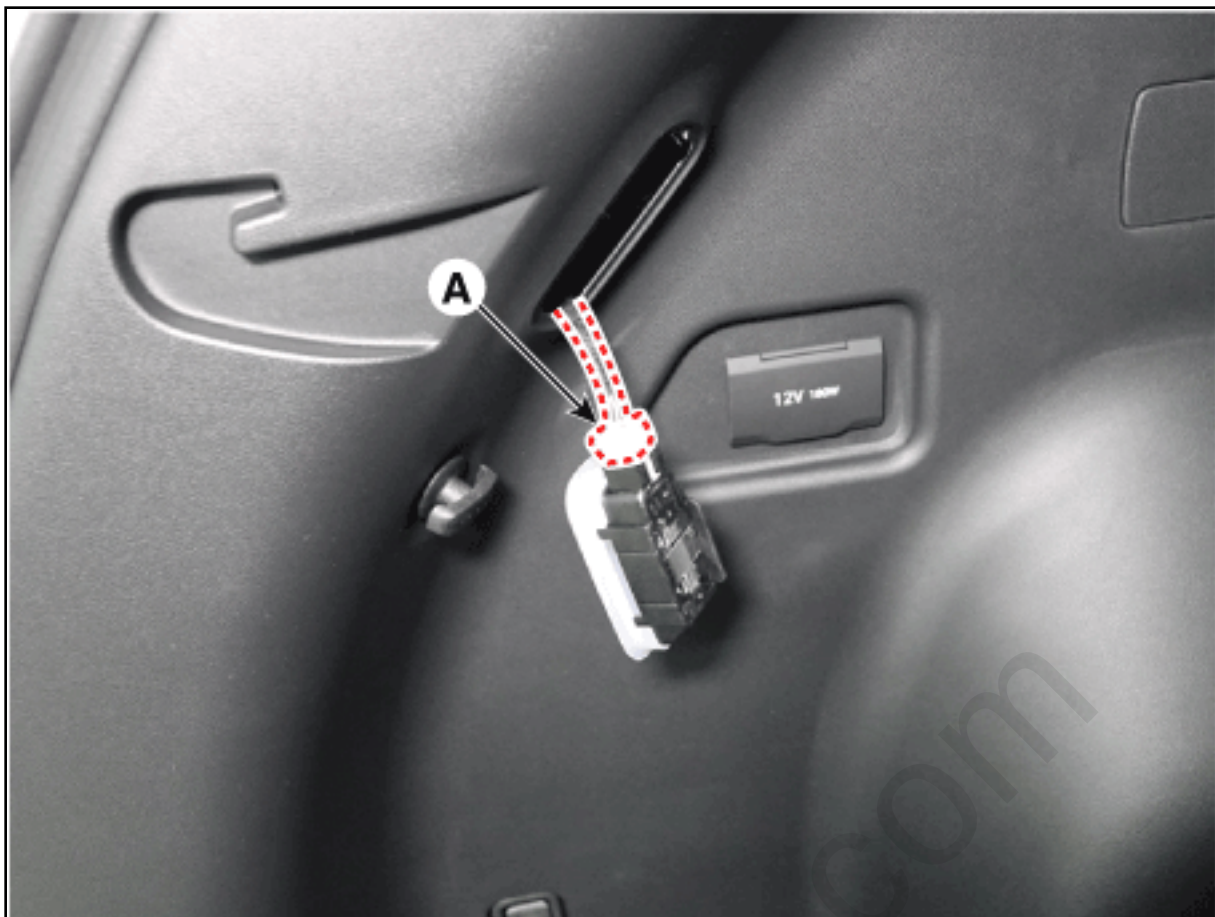
1. Install the high mounted stop lamp.
2. Install the rear spoiler.
3. Connect the negative (-) battery terminal.

Removal

1. Disconnect the negative (-) battery terminal.
2. Using a flat-tip screwdriver and remove the luggage room lamp (A).



3. Disconnect the luggage room lamp connector (A).



Installation

1. Connect the luggage room lamp connector.
2. Install the luggage room lamp.
3. Connect the negative (-) battery terminal.

Removal



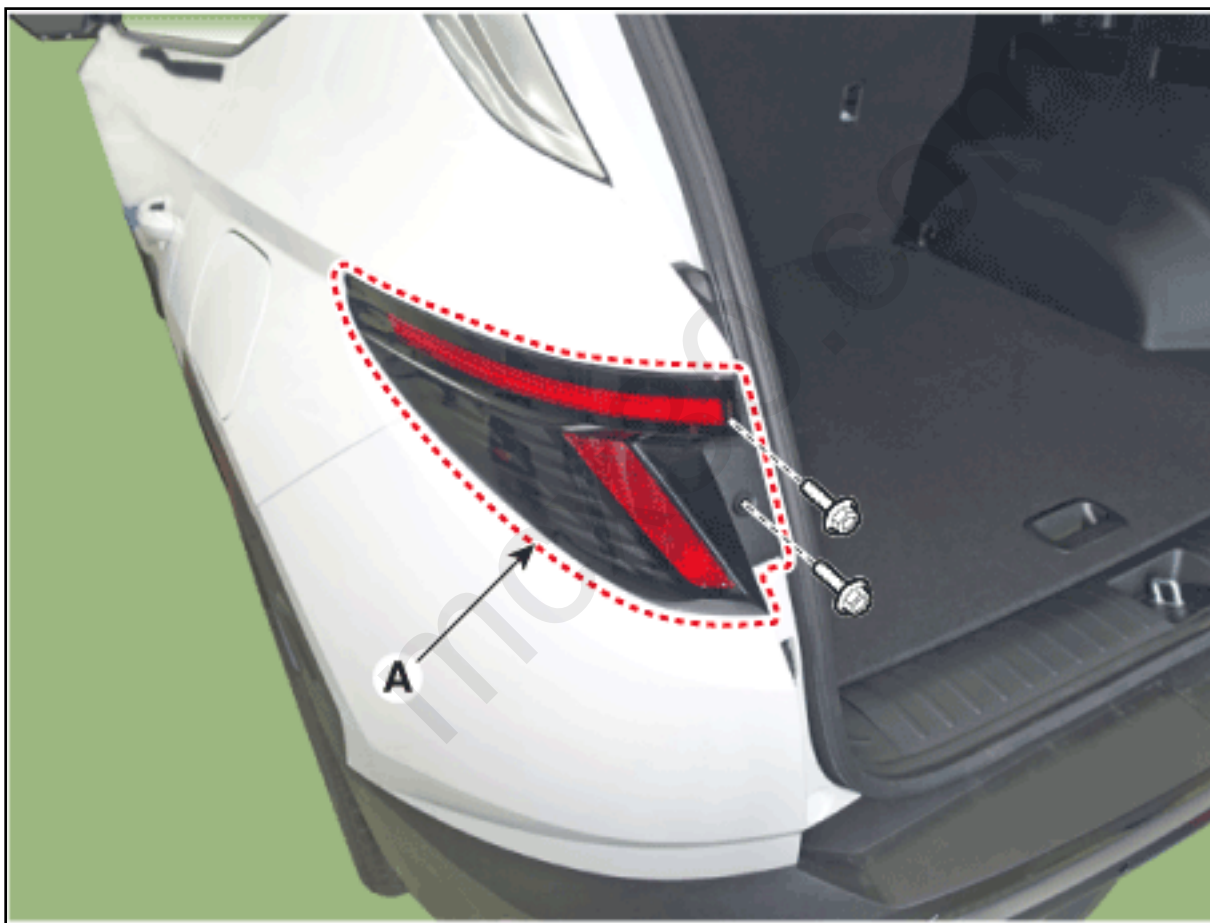
- When removing with a flat-tip screwdriver or remover, wrap protective tape around the tools to prevent damage to components.
- Put on gloves to prevent hand injuries.



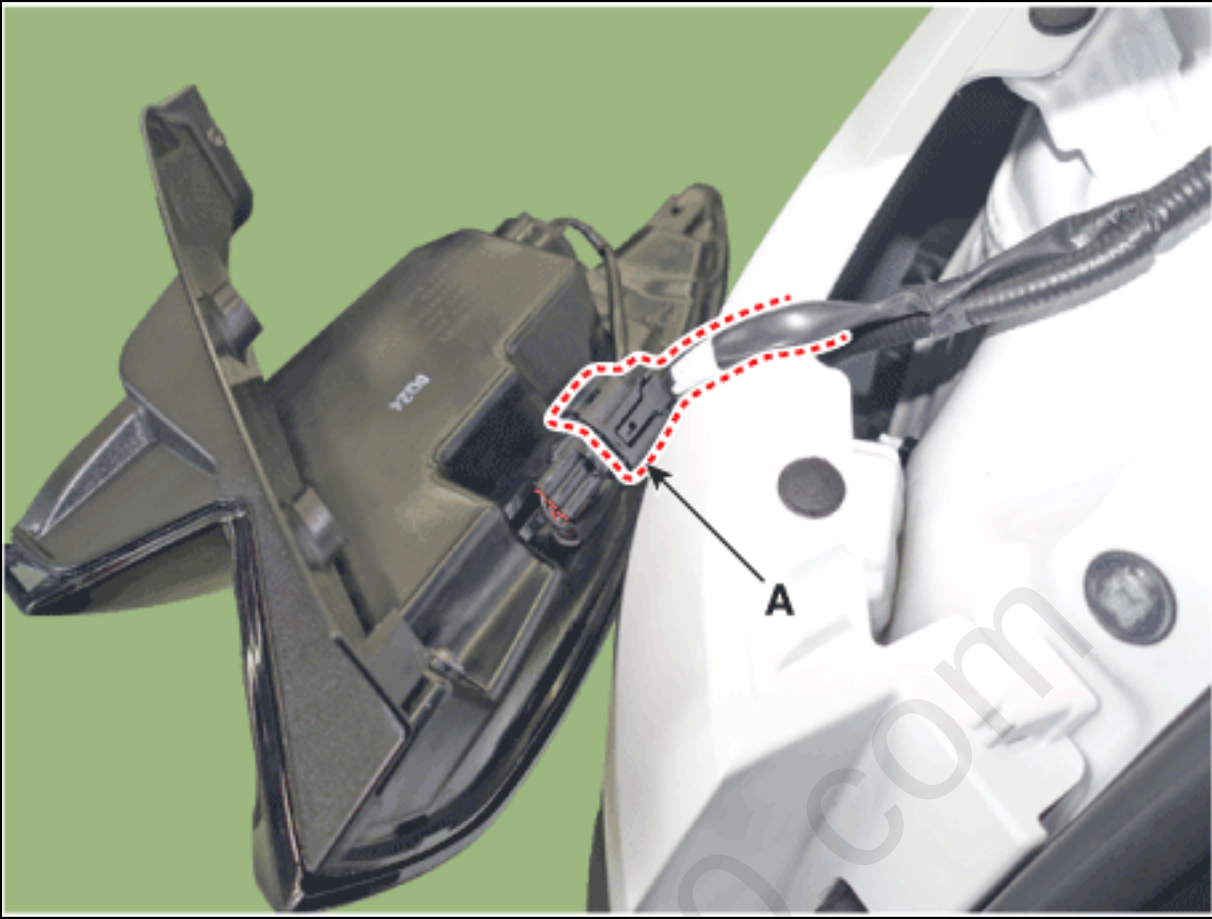
- Take care not to bend or scratch the bumper cover and panels.

Rear Outside Combination Lamp

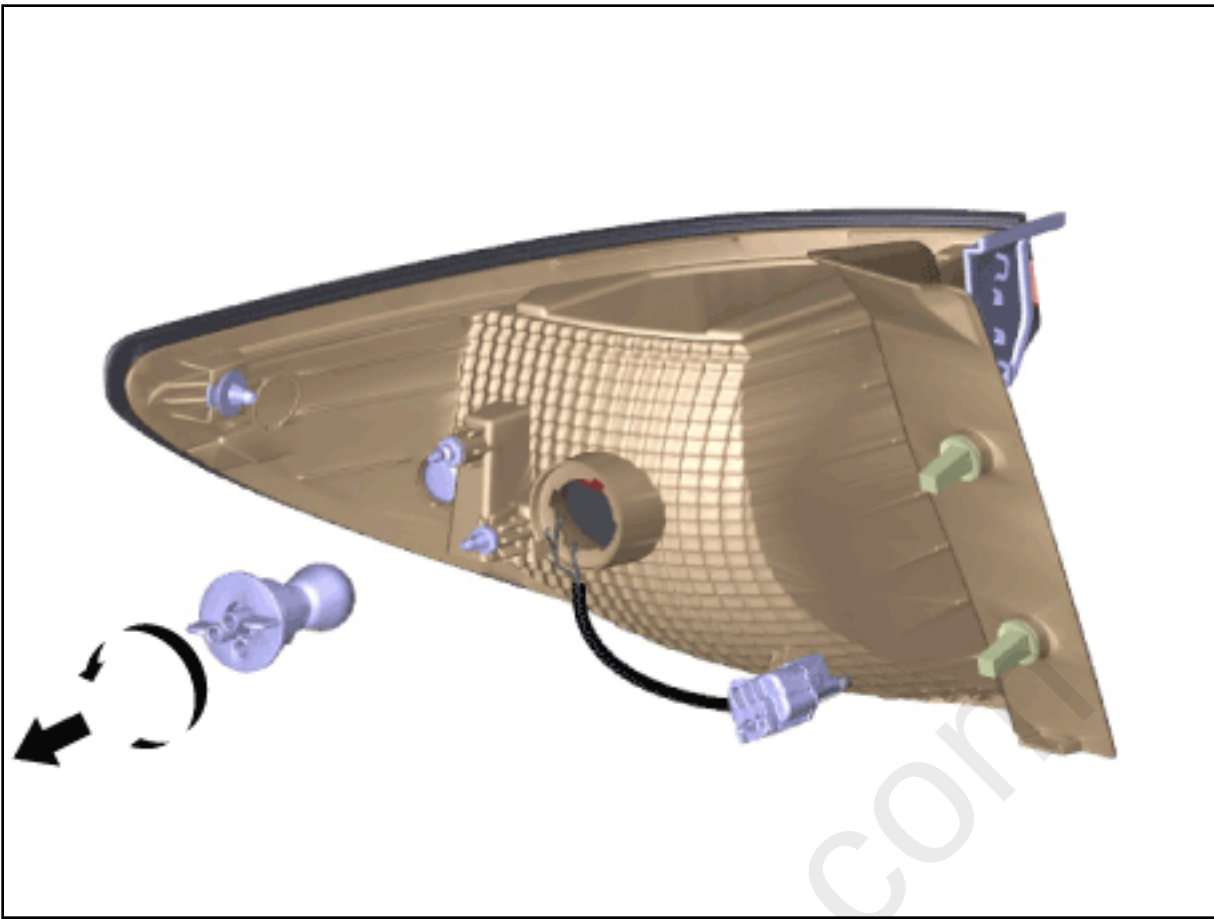
1. Disconnect the negative (-) battery terminal.
2. Loosen the mounting bolts then remove the outside rear combination lamp (A).



3. Disconnect the rear combination lamp connector (A).

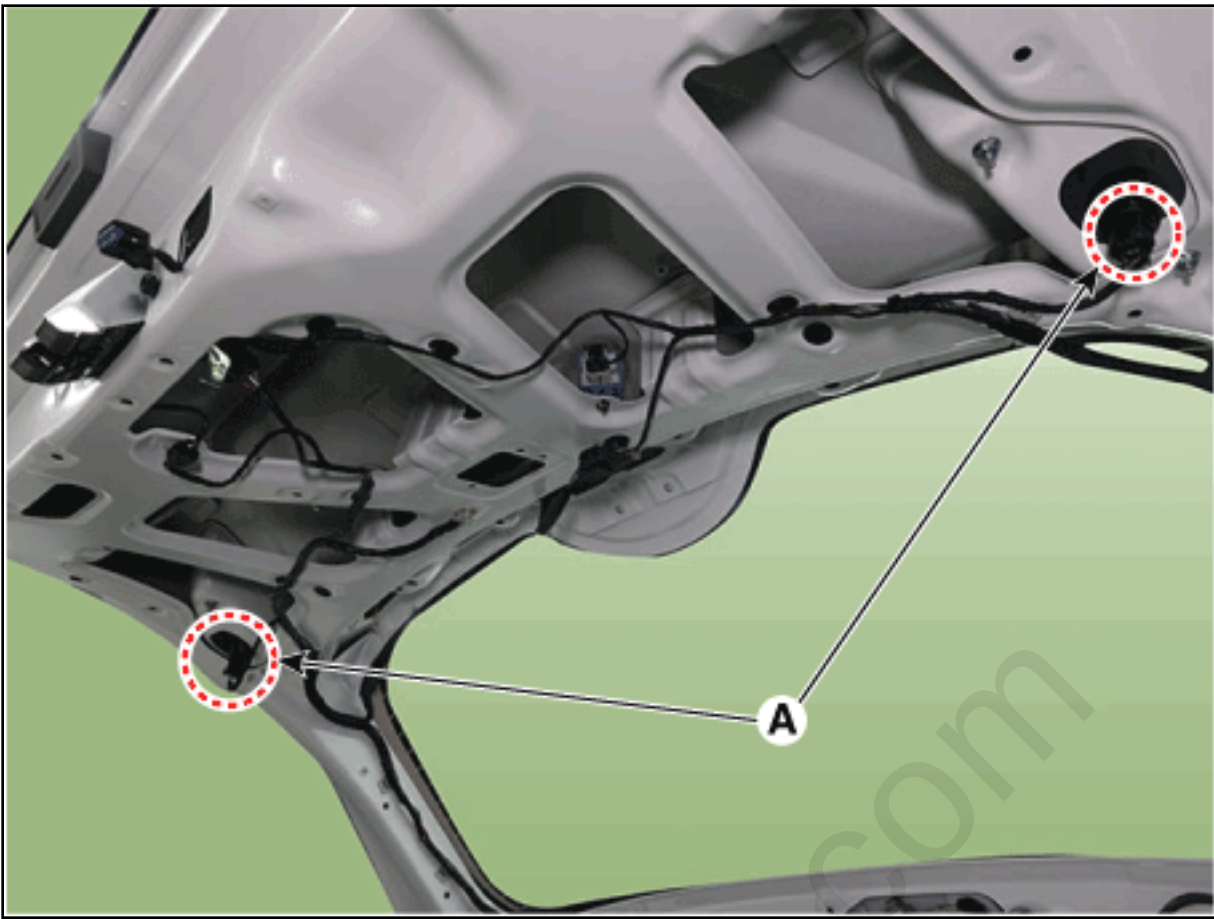


4. Remove the bulb after turning it in the counter clock-wise direction.



Rear Inside Combination Lamp

5. Remove the tail gate lower trim.
(Refer to Body - "Tail Gate Trim")
6. Disconnect the rear inside combination lamp connector (A).



7. Disconnect the rear view camera connector (A).



8. Loosen the mounting nuts and remove the rear inside combination lamp (A).



Installation

Rear Outside Combination Lamp

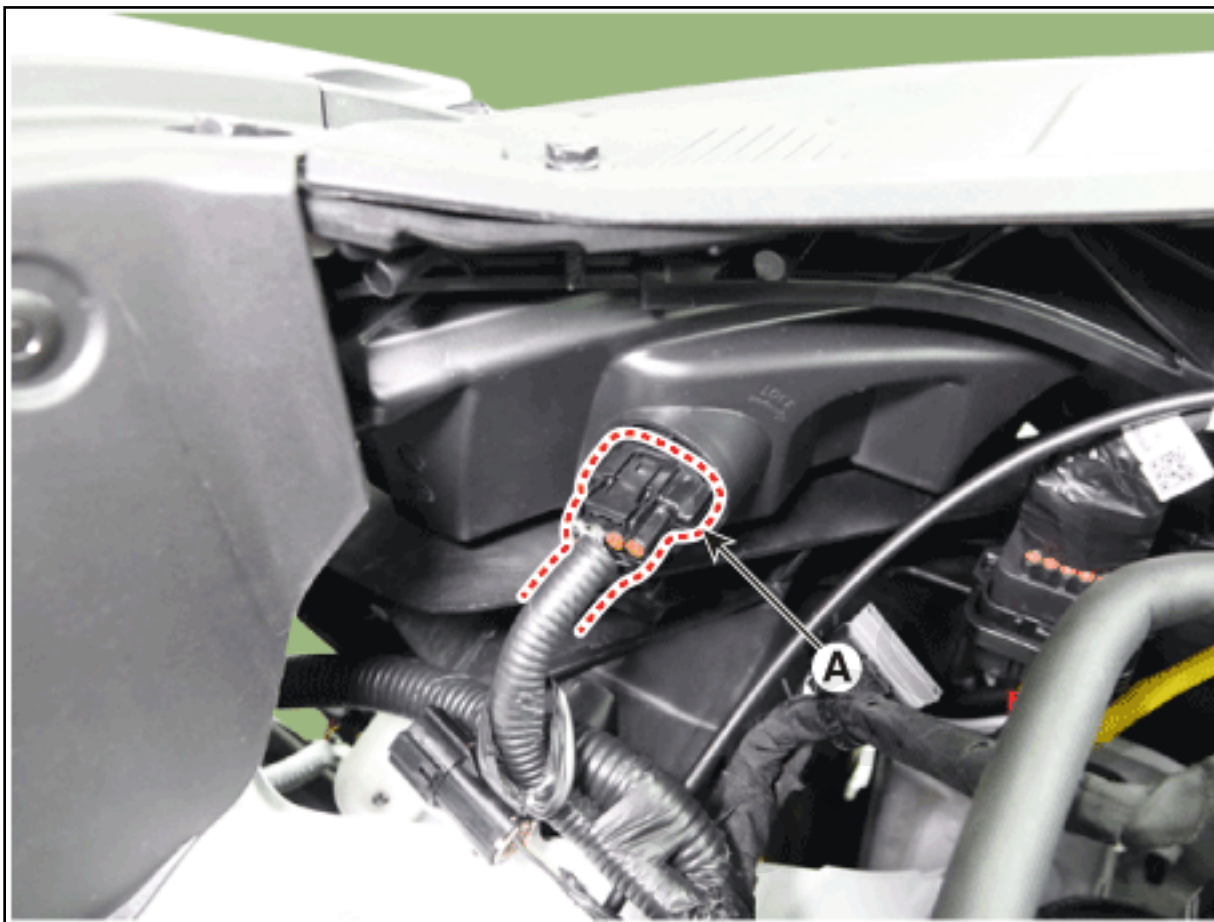
1. Connect the rear outside combination lamp connector.
2. Install the rear outside combination lamp.
3. Connect the negative (-) battery terminal.

Rear Inside Combination Lamp

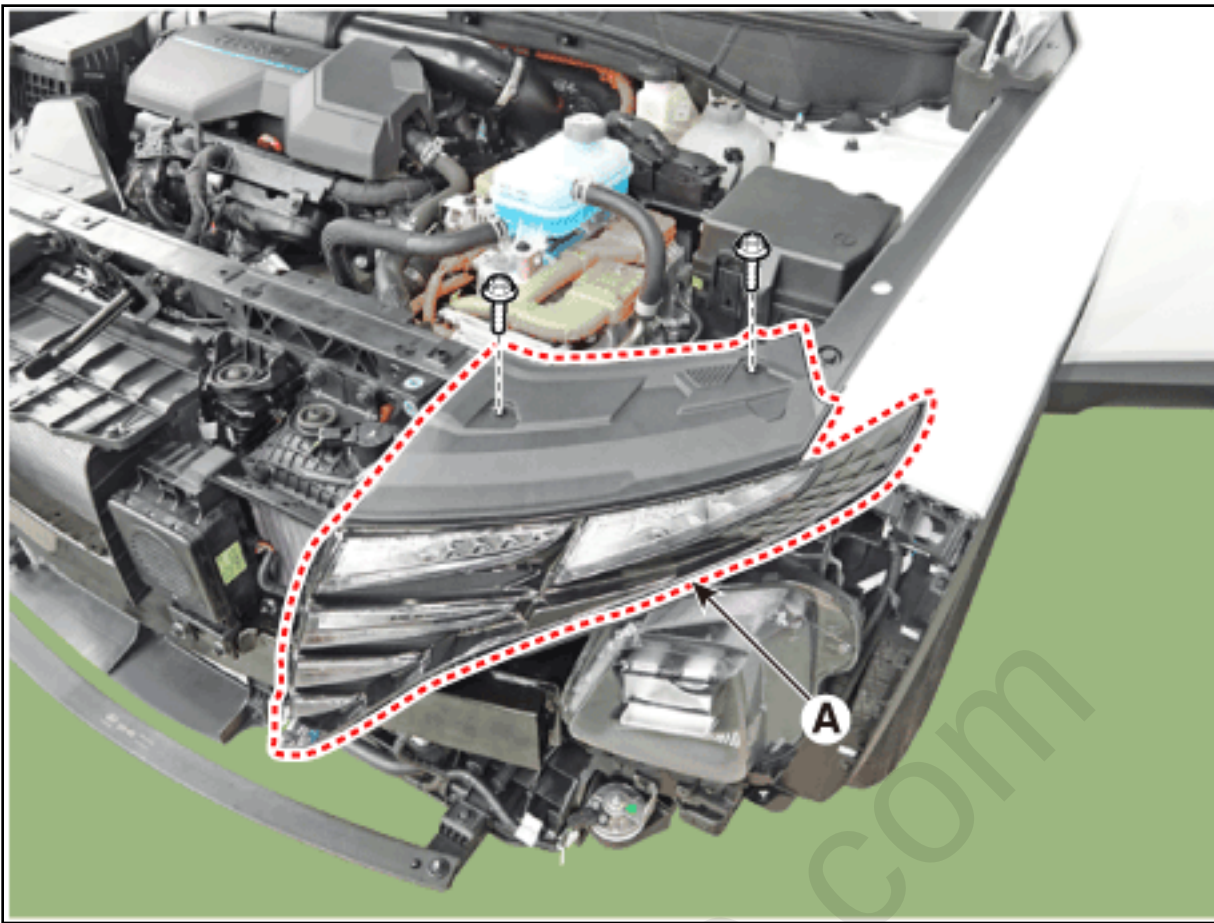
4. Connect the rear inside combination lamp connector.
5. Install the rear inside combination lamp.
6. Install the tail gate back pane molding.
7. Connect the negative (-) battery terminal.

Removal

1. Disconnect the negative (-) battery terminal.
2. Disconnect the daytime running light connector (A).



3. Loosen the mounting bolts and remove the daytime running light (A).



Installation

1. Install the daytime running light and connect the connector.
2. Connect the negative (-) battery terminal.