LAMP

7770-20/7880-10/8310-01/8310-10/8310-15/8320-01/8320-10/8320-16/8320-20/8530-01/8610-01/8610-04/8610-08/8610-09/8610-15/8610-16/



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FUSE

LAMP

8310-00

GENERAL INFORMATION

1. SPECIFICATIONS

1) Exterior Lamp

	Lamp	Туре	Specification	Quantity
	High beam	Bulb	H1 55W	1 EA × 2
	Low beam	Bulb	H7 55 W	1 EA × 2
Headlamp	LOW BOOM	HID	D5S 25W	1 EA × 2
rioddianip	Tail lamp/DRL	Bulb	W5W	1 EA × 2
	ran arrip/DIXE	LED	1 W	11 EA × 2
	Turn signal lamp	Bulb	PY21W	1 EA × 2
Fog lamp	Front	Bulb	H16 19W	1 EA × 2
i og amp	Rear	Bulb	P21W	1 EA
	Stop (tail) lamp (surface emission type)	LED	0.2 W	16 EA × 2
Rear combination	Stop lamp	LED	0.5 W	8 EA × 2
lamp	Turn signal lamp	Bulb	PY21W	1 EA × 2
	Backup lamp	Bulb	W16W	1 EA × 2
Outsi	de turn signal lamp	LED		1 EA × 2
Side repeater lamp		Bulb	WY5W	1 EA × 2
Rear reflex reflector License plate lamp	ar reflex reflector	Lens	-	1 EA × 2
	ense plate lamp	Bulb	W5W	1 EA × 2
High	High mounted stop lamp		0.2 W	10 EA
r light mounted stop famp		LED	0.2 W	22 EA

Modification basis	
Application basis	
Affected VIN	

2) Interior Lamp

Lamp	Туре	Specification	Quantity
Front room lamp	Bulb	10 W	1 EA × 2
Center room lamp	Bulb	10 W	1 EA × 1
Sun visor lamp	Bulb	5 W	1 EA × 2
Glove box lamp	Bulb	5 W	1 EA × 1
Luggage lamp	Bulb	5 W	1 EA × 1
Front door courtesy lamp	Lens	-	1 EA × 2
Tront door countesy lamp	Bulb	5 W	1 EA × 2
Door mood lamp	LED	0.5 W	1 EA × 2
IP center lower mood lamp	LED	0.5 W	1 EA × 1

2. AUTO LIGHT SENSOR SPECIFICATIONS

Item	Specifications
Operating voltage	9 to 16 V
Rated load	Max. 200 mA (relay load)
Operating temperature	-30℃ to +85℃
Mounting location	Top center of inner side of windshield glass

♣ NOTE

▶ LED

- The LED stands for "Light Emitting Diode" or "Luminescent Diode." LED is a semiconductor diode that emits incoherent narrow-spectrum light when electrically biased in the forward direction of the p-n junction, as in the common LED circuit. In short, it is an element that converts electric signals into light signals. Yellow, blue, red and white LEDs are currently available. The followings are the features of LED.
- It is not glaring and doesn't have short circuit unlike the conventional lamps. It is semi-permanent and doesn't generate heat. Its power consumption is much lower than that of conventional bulbs.

Luminous intensity

 Luminous intensity is an expression of the amount of light power emanating from a point source within a solid angle of one steradian. That is, this indicates an amount of light that passes through the unit area for the unit time. The SI unit of luminous intensity is candela (cd).

▶ Luminance

- Luminance describes the amount of light that passes through, is reflected, or emitted from a particular area, and falls within a given solid angle. It is measured in stilb (sb) or nit (nt).

► Illuminance (luminous intensity)

- This indicates the amount of light reaching a given area. Measuring unit is lux (lx) and it is not directly proportional to the brightness of the area as the reflection rate is not included.

Modification basis	
Application basis	
Affected VIN	

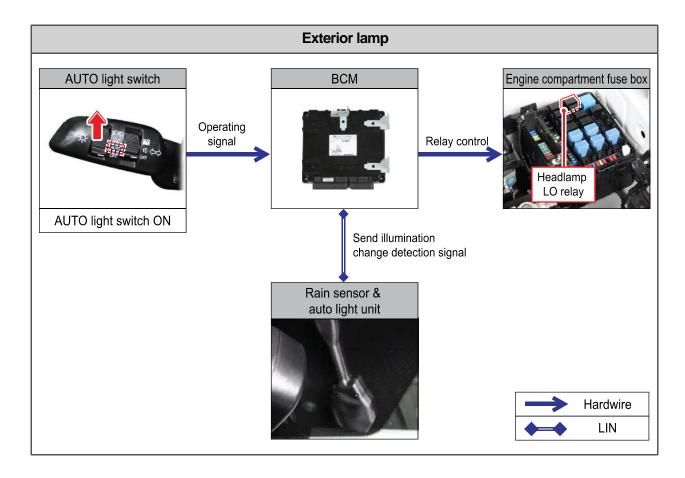
06-6 8310-00 T I V O L I

OVERVIEW AND OPERATING PROCESS

1. OVERVIEW

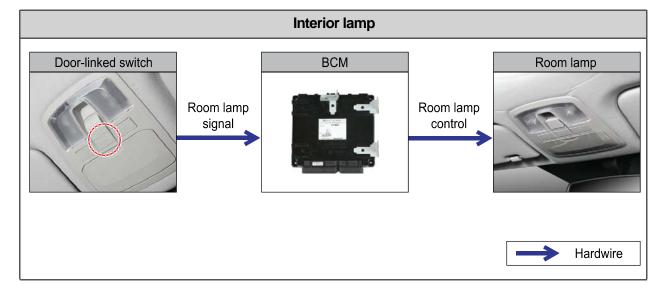
1) Exterior Lamp

The exterior lamps consist of multifunction light switch, headlamps, rear combination lamps, AUTO light sensor, fog lamps, side repeater lamps, license plate lamps, reflex reflector, and high mounted stop lamp, etc. The BCM controls the various lamps including the headlamps, tail lamps, AUTO lights, fog lamps by using the operation signals from the multifunction turn signal lamp switch. The AUTO light control system is to turn on or off the tail lamps and headlamps automatically. The AUTO light sensor unit for the system is installed behind the ECM mirror on the top center of the windshield glass. This sensor unit detects the ambient brightness and automatically turns on or off the tail lamps and headlamps when the multifunction turn signal lamp switch is move to the AUTO position.



2) Interior Lamp

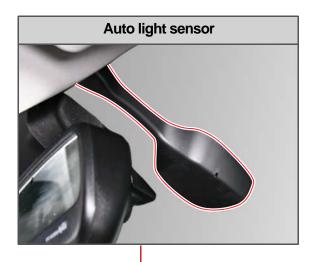
The interior lamps include 2 front room lamps, a center room lamp, a glove box lamp, 2 sun visor lamps, a luggage room lamp, 2 door courtesy lamps (front door), 2 door mood lamps (front door), an IP center lower mood lamp. The BCM controls the lamps according to the signals with the front room lamp coupled switch in door coupled operation side.



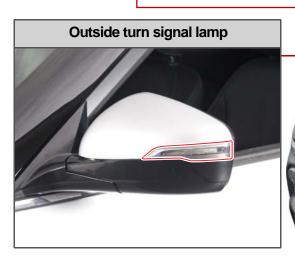
2. COMPONENTS

1) Exterior Lamp

▶ Front / Side

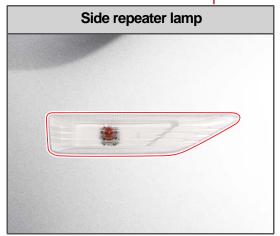




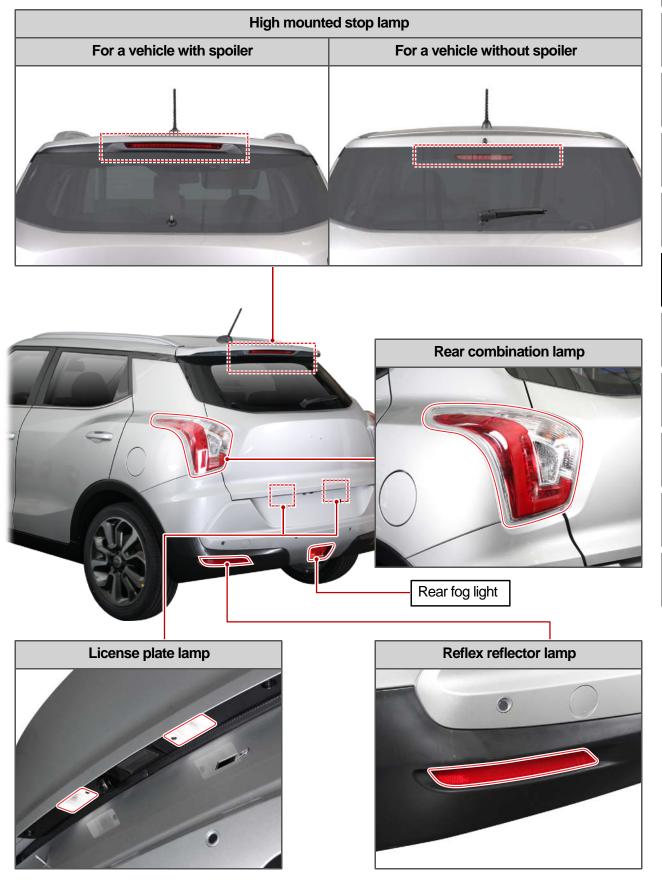








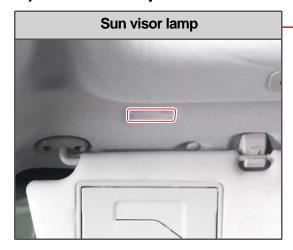
▶ Rear



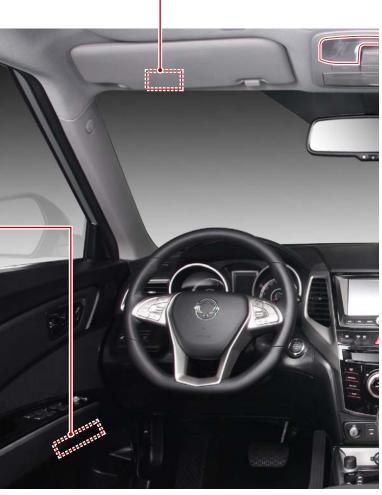
Modification basis	
Application basis	
Affected VIN	

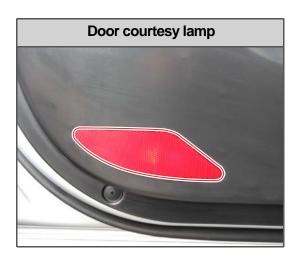
06-10 8310-00 T I V O L I

2) Interior Lamp







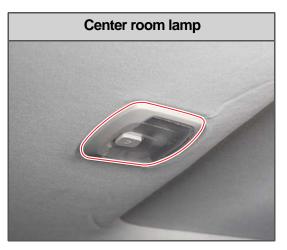




LAMP
TIVOLI 2015.03

Modification basis	
Application basis	
Affected VIN	





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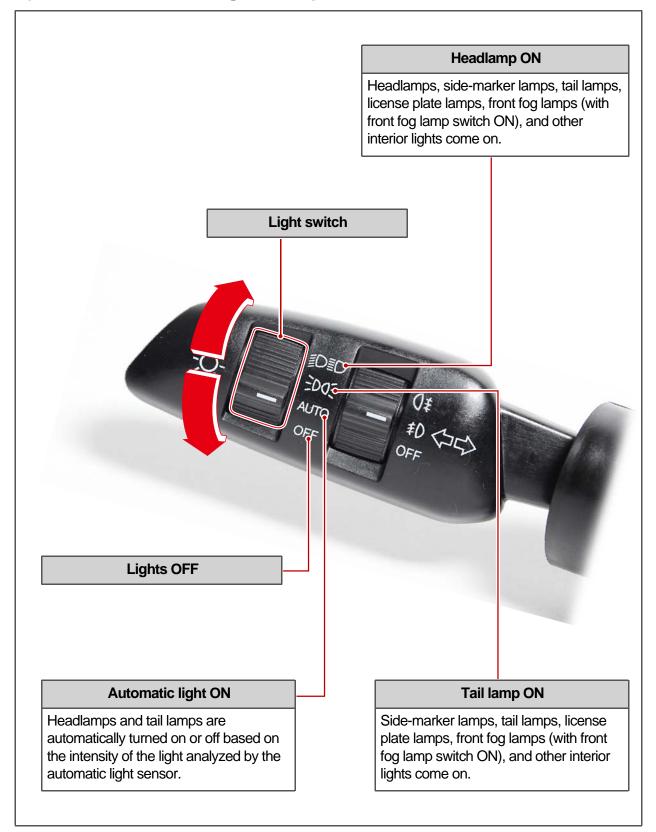


Modification basis	
Application basis	
Affected VIN	

06-12 8310-00

3. OPERATING PROCESS

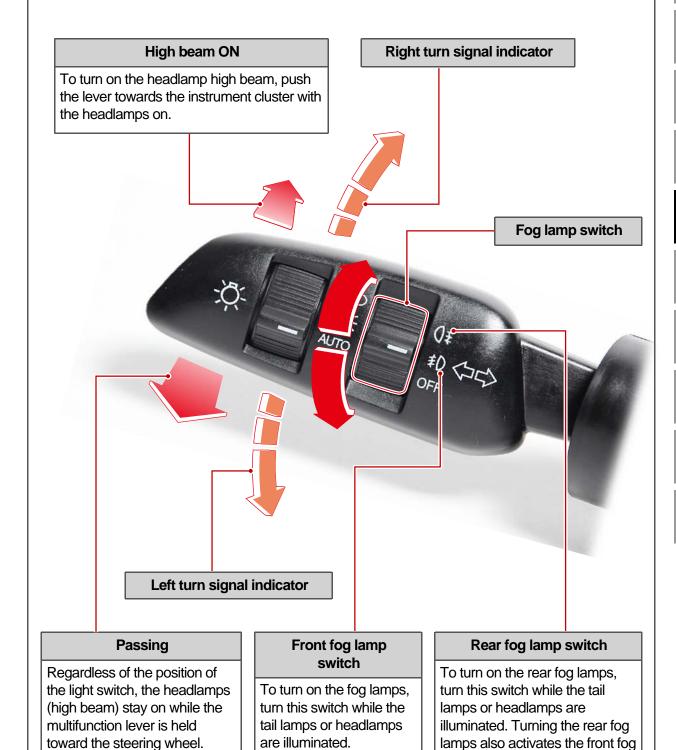
1) Multifunction Turn Signal Lamp Switch



LAMP

TIVOLI 2015.03

Modification basis
Application basis
Affected VIN



Modification basis	
Application basis	
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lamps.

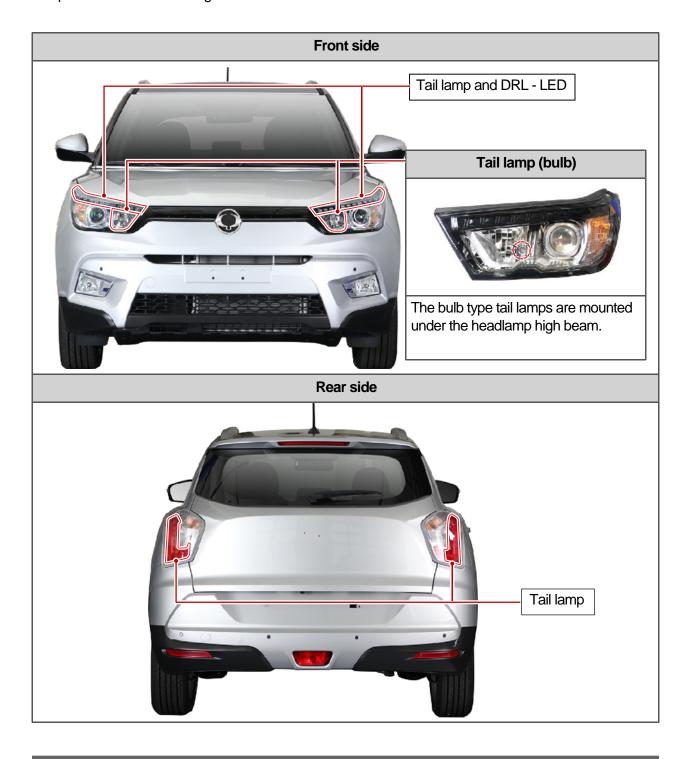
06-14 8310-00 T I V O L I

2) Exterior Lamp

(1) Tail lamp

The tail lamp relay is operated by the BCM when the BCM receives a signal from the multifunction switch. For a vehicle with DRL, the BCM activates the tail lamp relay and DRL relay at the same time when the ignition is turned on.

The DRLs go off and the tail lamps stay on when the tail lamp switch signal from the multifunction switch is input to the BCM with the ignition ON.



► Tail lamp ON warning

Operation 1.

A. The driver door is opened with the tail lamp switch ON and ACC or IGN OFF (ignition key removed). The BCM outputs the tail lamp ON warning signal for 10 seconds (T2).

B.

Operation 2.

- C. The tail lamp switch is turned OFF or the driver door is closed while the tail lamp ON warning is activated.
- D. The tail lamp ON warning output is stopped immediately.

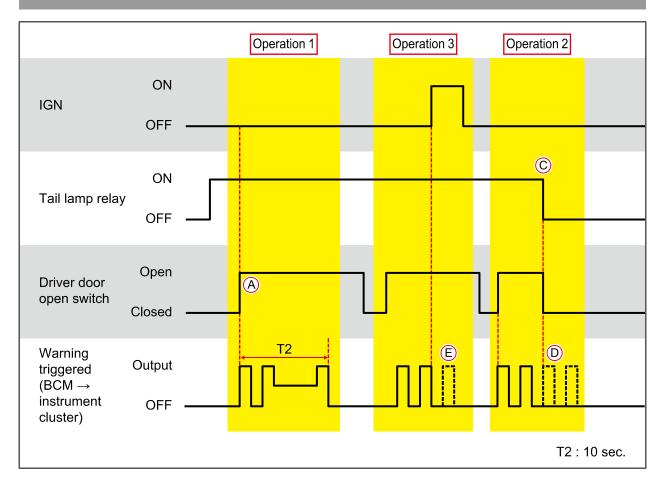
Operation 3.

E. The tail lamp ON warning is not activated when the ignition is ON.



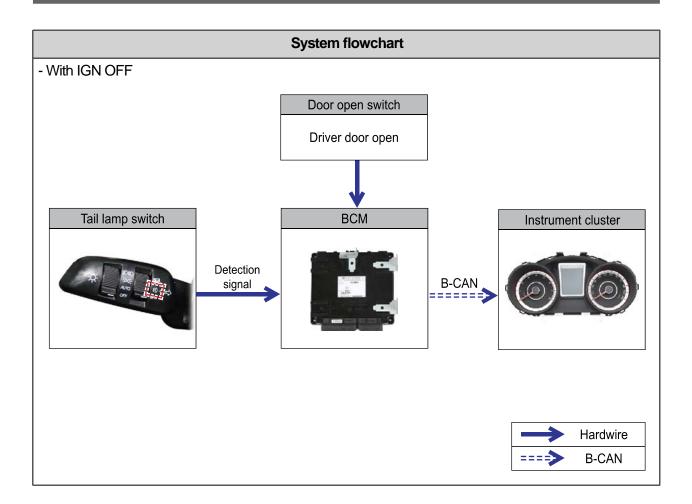
♣ NOTE

When the tail lamp switch is operated (OFF \rightarrow ON) during the tail lamp ON warning, the tail lamp ON warning is not activated again.



Modification basis	
Application basis	
Affected VIN	

06-16 8310-00 T I V O L I



► Tail lamp automatic OFF

Operation 1.

A. The tail lamp relay and interior tail lamp relay are turned ON or OFF according to the operation of the tail lamp switch (ON/OFF).

Operation 2.

- B. The ignition is turned OFF or the ignition key is turned to ACC ON (ignition key removed) when the tail lamp switch is in ON position and the ignition is ON.
- C. The tail lamp relay and interior tail lamp relay are turned off when the driver's door is closed. (with the tail lamp switch ON)

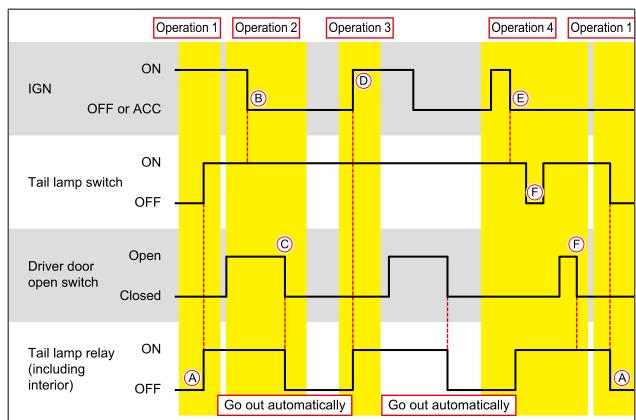
Operation 3.

D. When the ignition is turned ON (ignition key inserted) after the operation 2, the tail lamp relay and interior tail lamp relay are turned ON.

Operation 4.

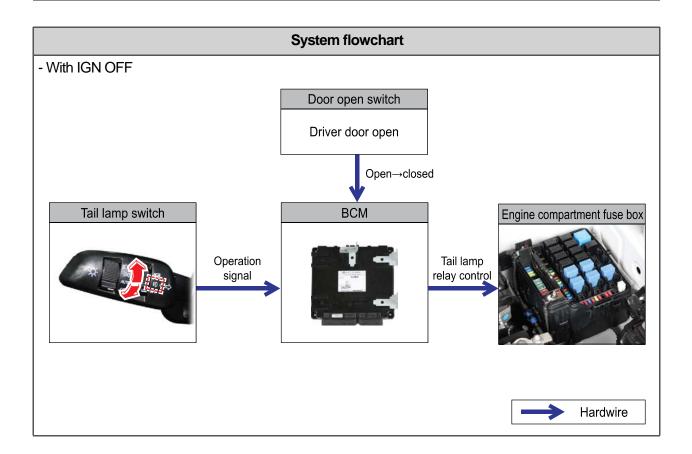
- E. The ignition is turned OFF or the ACC is turned ON (ignition key removed).
- F. When the tail lamp switch is operated (OFF \rightarrow ON), the tail lamp automatic off is not activated. (with the tail lamp switch ON)





Modification basis	
Application basis	
Affected VIN	

06-18 8310-00 T I V O L I



(3) AUTO light

The AUTO light control system is to turn on or off tail lamps and headlamps automatically. It is installed behind the ECM mirror in top center of the windshield glass. This sensor unit detects the ambient brightness and automatically turns on and off the tail lamps and headlamps while the multifunction light switch is in the AUTO position. The system turns on the lamps when passing through the tunnel during day driving and getting dark due to fog, rain or snow.



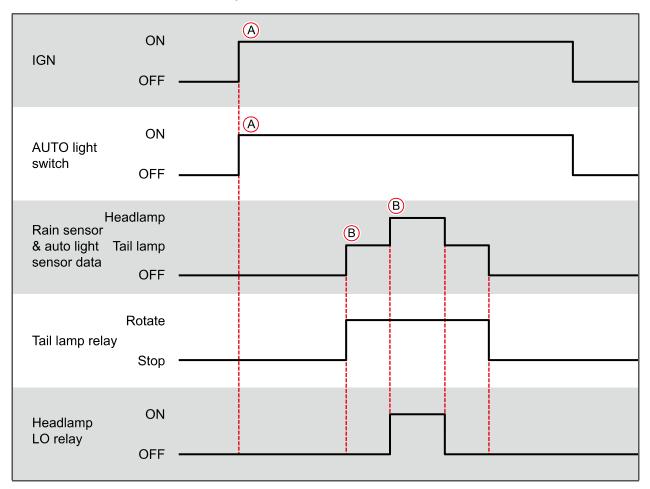
Modification basis	
Application basis	
Affected VIN	

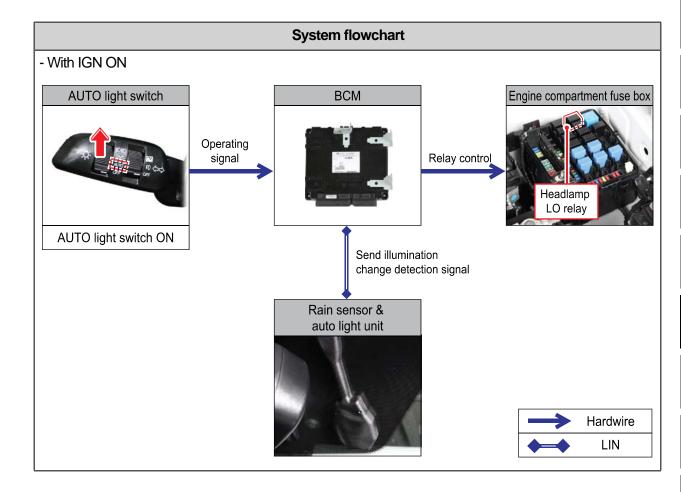
06-20 8310-00 T I V O L I

► Auto light control

Operation 1.

- A. The ignition is turned ON and AUTO light switch is in ON position.
- B. The tail lamp relay and headlamp LO relay are controlled automatically in accordance with the signals from the rain sensor and AUTO light unit.





Modification basis	
Application basis	
Affected VIN	

06-22 8310-00 T I V O L I

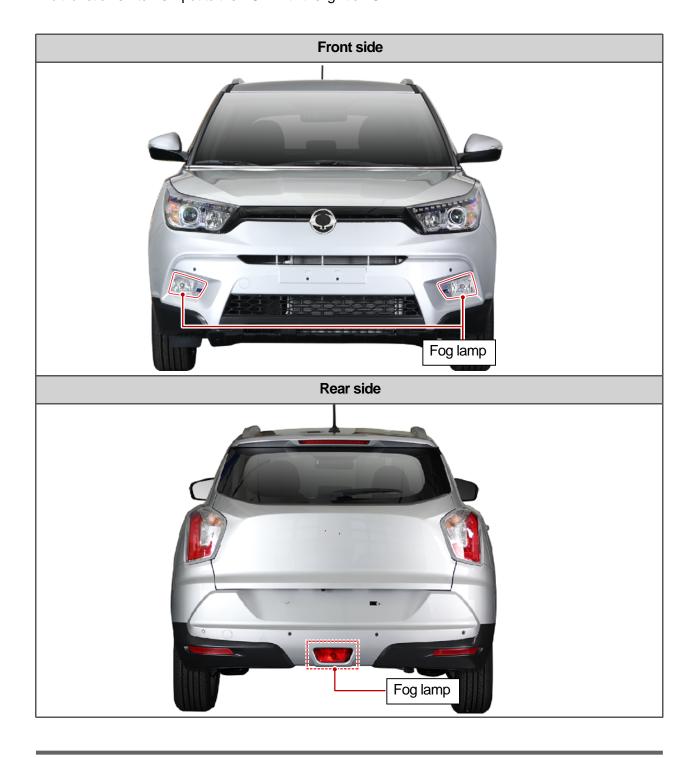
(4) Fog lamp

The fog lamps are operated by the fog lamp switch only when the tail lamps are operating.

Turning on the rear fog lamps also activates the front fog lamps.

The front and rear fog lamps go off when turning the ignition switch or tail lamp switch to the OFF position. For a vehicle with DRL, the BCM activates the tail lamp relay and DRL relay at the same time when the ignition is turned on.

The DRLs go off and the tail lamps with fog lamps stay on when the tail lamp switch signal from the multifunction switch is input to the BCM with the ignition ON.



LAMP

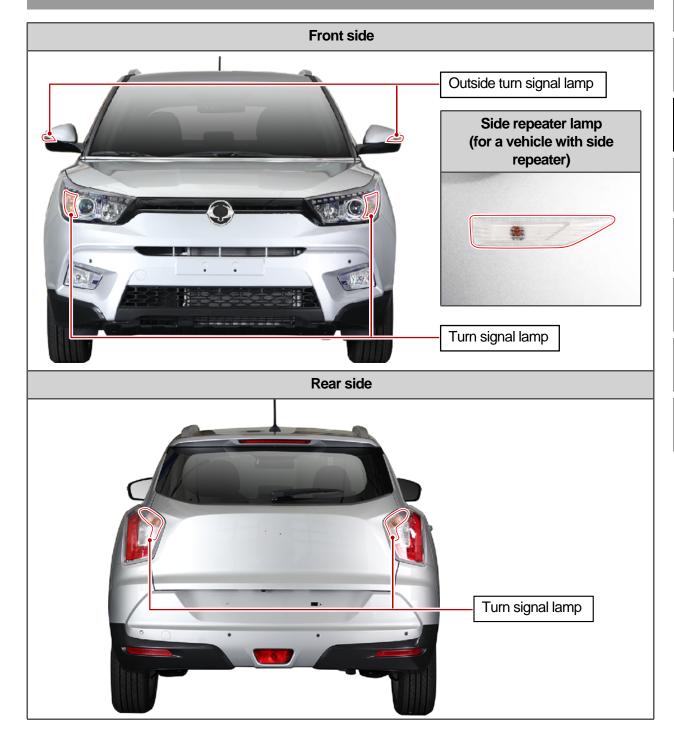
(5) Turn signal lamp and hazard warning lamp

Pushing up or down the multifunction turn signal lamp switch makes the turn signal lamp on the corresponding side flash. Pressing the hazard warning lamp switch makes the turn signal lamps flash on both sides at the same time.



♣ NOTE

The hazard warning lamp flashes during emergency hazard warning lamp control and air bag deployment.



Modification basis	
Application basis	
Affected VIN	

8310-00 06-24 TIVOL

► LH/RH turn signal lamp control

Operation 1.

- A. The LH (RH) turn signal lamp switch is turned ON with IGN ON.
- B. The LH (RH) turn signal lamp flashes 75 times per minute (T1) at a cycle of 0.4 sec. ON and 0.4 sec. OFF.
- C. When LH (RH) turn signal lamp switch is turned off, the LH (RH) turn signal lamp completes its operating cycle and goes out.

Operation 2.

- D. Abnormal current (less than 3 A or more than 7 A) detection signal is input during Operation 1.
- E. The LH (RH) turn signal lamp flashes 120 times per minute (T2) at a cycle of 0.25 sec. ON and 0.25 sec. OFF.

Operation 3.

F. The LH (RH) turn signal lamp is activated only with IGN ON.

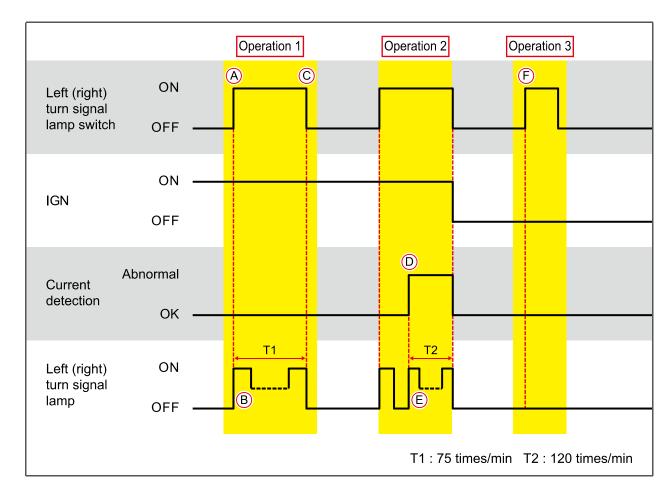


♣ NOTE

The LH (RH) turn signal lamp flashes 3 times once the corresponding lamp switch is turned ON.

- When the LH turn signal lamp switch is turned OFF during the 3 times flashing, the turn signal lamp goes out after the flashing operation.
- When the LH turn signal lamp switch is turned ON during the 3 times flashing, the turn signal lamp flashes 3 more times.
- When the RH turn signal lamp switch is turned ON during the 3 times flashing, the LH turn signal lamp goes out immediately and the RH turn signal lamp flashes 3 times before switching off.

LAMP



06-26 8310-00 T I V O L I

► Hazard warning lamp switch control

Operation 1.

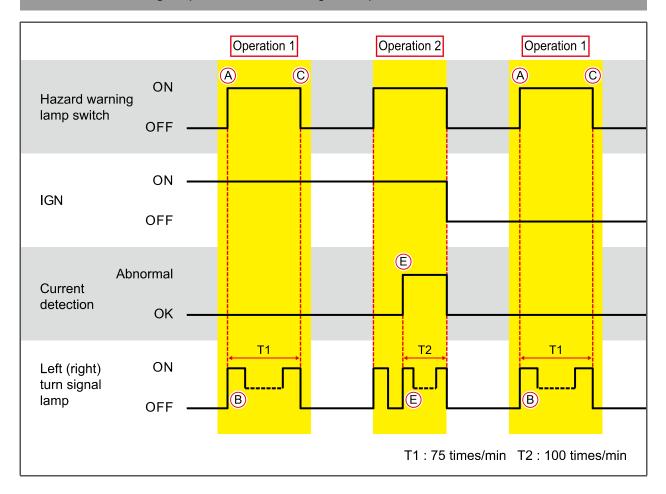
- A. The hazard warning lamp switch is turned ON with IGN ON or OFF.
- B. The hazard warning lamp flashes 75 times per minute (T1) at a cycle of 0.4 sec. ON and 0.4 sec. OFF.
- C. When the hazard warning lamp switch is turned off, the hazard warning lamp completes its operating cycle and goes out.

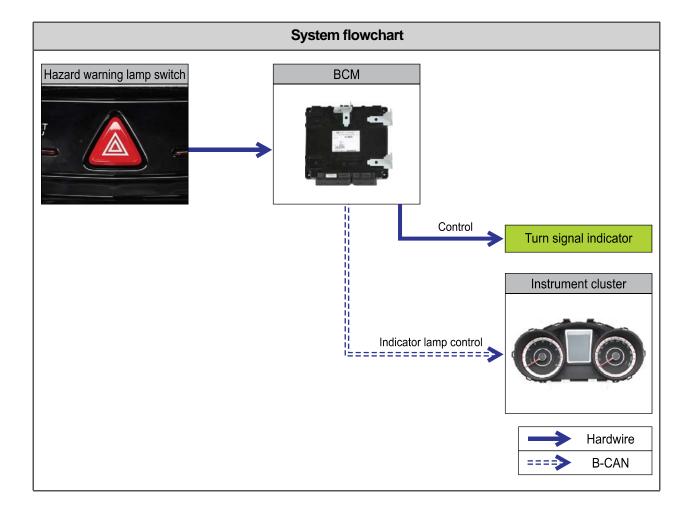
Operation 2.

- D. Abnormal current (less than 3 A or more than 7 A) detection signal is input during Operation 1.
- E. The hazard warning lamp flashes 120 times per minute (T2) at a cycle of 0.25 sec. ON and 0.25 sec. OFF.

₿ NOTE

- The hazard warning lamp functions at B+ or more.
- The allowed time difference between the LH and RH turn signal lamp operations is within 0.1 seconds.
- The hazard warning lamp overrides the turn signal lamp.





Modification basis	
Application basis	
Affected VIN	

06-28 8310-00 T I V O L I

► Emergency hazard warning lamp control (coupled with ESP)

The stop lamps flash rapidly and hazard warning lamp flashes for 10 seconds automatically to warn a following vehicle at the time of abrupt braking or operating of ESP system.

Conditions for activating emergency braking signal

- A. The stop lamps flash at intervals of 0.25 seconds as long as the emergency braking signal is received, at the vehicle speed of 50 km/h or higher.
- B. Even though the vehicle speed falls to 50 km/h or lower at the status of point A above, stop lamps keep flashing.
- C. If the vehicle speed is below 50 km/h when emergency braking signal is no longer received, the hazard warning lamps flash for up to 10 seconds.
- D. Both the stop lamps and hazard warning lamp flash when conditions in points A and B are met during the auto hazard warning lamp operation.

Conditions for deactivating emergency braking signal

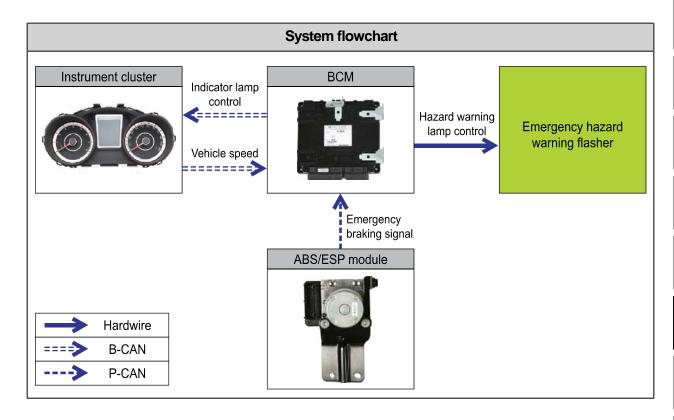
- E. The stop lamps go out immediately when operating hazard warning lamp switch manually during operation A.
- F. The stop lamps go out immediately when emergency braking signal is no longer received.
- G. The hazard warning lamp goes out 10 seconds after completing operation C.
- H. The hazard warning lamp goes out when turning the hazard warning switch to off during operation C. The hazard warning lamp goes out when the vehicle speed increases by more than 10 km/h (no
- I. emergency braking signal received).

Conditions for not activating emergency braking signal

- J. If the vehicle speed is above 50 km/h when emergency braking signal is no longer received, the hazard warning lamp does not flash.
- K. The Emergency braking signal is not activated when operating hazard warning lamp switch.



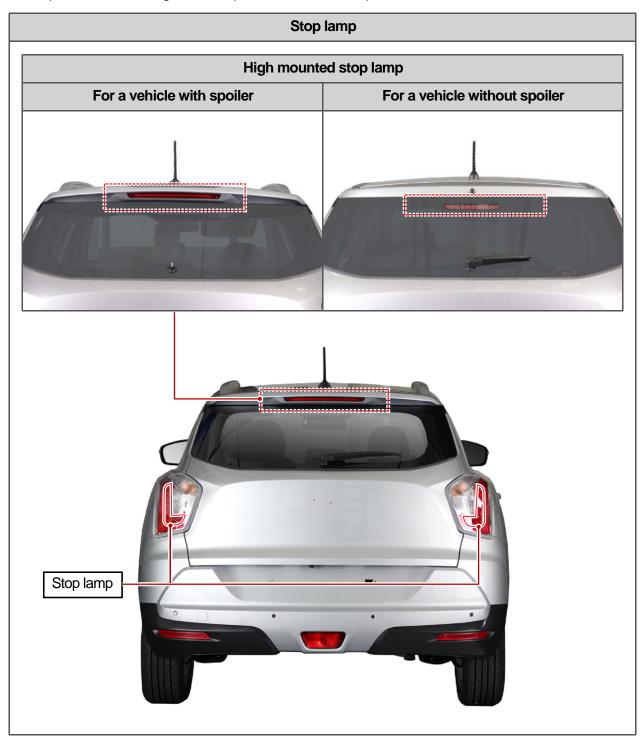
- Priority: Manual operation of hazard warning lamp → emergency braking signal → auto hazard warning lamp
- The BCM operates the stop lamps regardless of ignition status when brake pedal switch depressed signal is received.



06-30 8310-00 T I V O L I

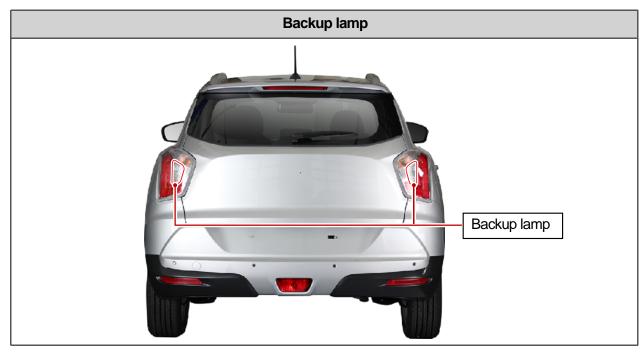
(7) Stop lamp

Depressing the brake pedal turns on the stop lamps using a signal from the stop lamp switch fitted to the brake pedal, and releasing the brake pedal turns off the lamps.



(8) Backup lamp

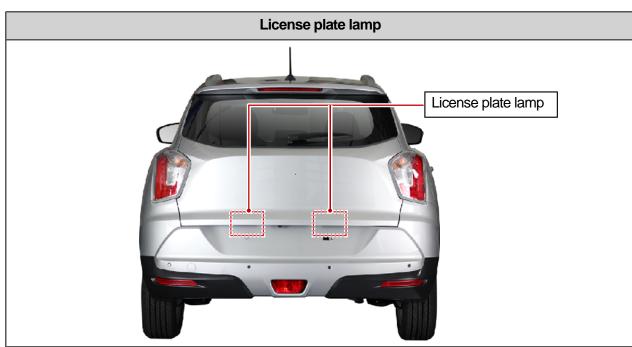
When shifting the TGS lever into the "R" position with the ignition switch ON, the backup lamps come on. If the lever is placed in other positions, the lamps go out.



(9) License plate lamp

When the tail lamps, AUTO light, high beam and low beam come on or go out by the signals from the multifunction switch, the license plate lamps also come on or go out.

For a vehicle with DRL, the BCM activates the tail lamp relay when the ignition is turned on.



Modification basis	
Application basis	
Affected VIN	

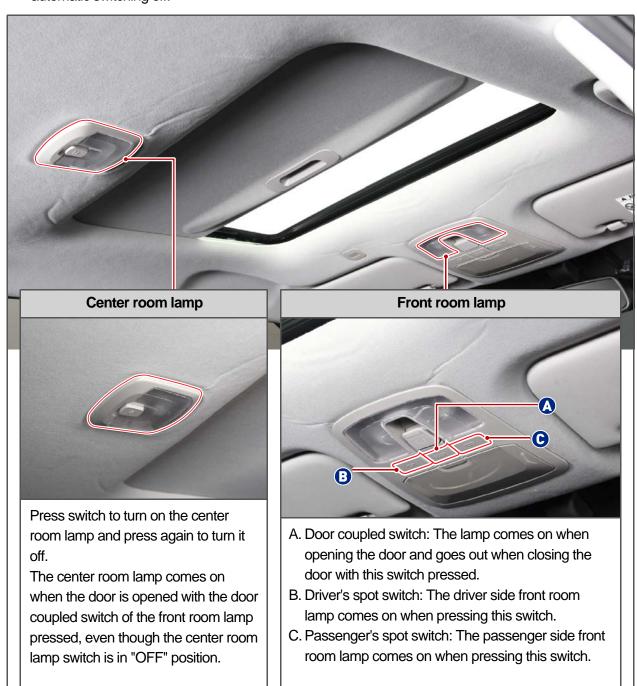
06-32 8310-00 T I V O L I

2) Interior Lamp

(1) Front room lamp and center room lamp

- When the room lamp switch is in the door coupled position and any of the driver/passenger/ rear (LH & RH) doors is opened, the room lamp comes on.

- The room lamp goes out automatically after 10 minutes of illumination when the ignition is turned off (ignition key is removed) and any door is open.
- The sleep mode is deactivated when the door status is changed or UNLOCK signal is received after automatic switching off.



▶ Door coupled room lamp control

Operation 1.

A. When all doors are closed with IGN ON, the room lamp goes out immediately.

Operation 2.

- B. All doors are closed with IGN OFF.
- C. The room lamp stays on for 2 seconds (T1) and then fades out over 3 seconds (T2) and goes off.
 - When the ignition is turned ON while the room lamp is fading out, the lamp goes out immediately.

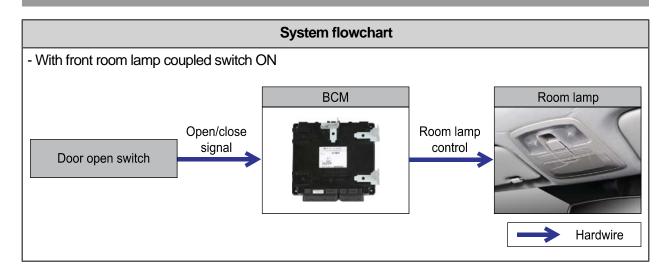
Operation 3.

- D. When the UNLOCK signal by the smart key (REKES key) is received with IGN OFF (ignition key E. removed) and all doors closed, the room lamp remains ON for 30 seconds (T3).
 - When the UNLOCK signal is received again while the room lamp is ON, the lamp remains ON for another 30 seconds.



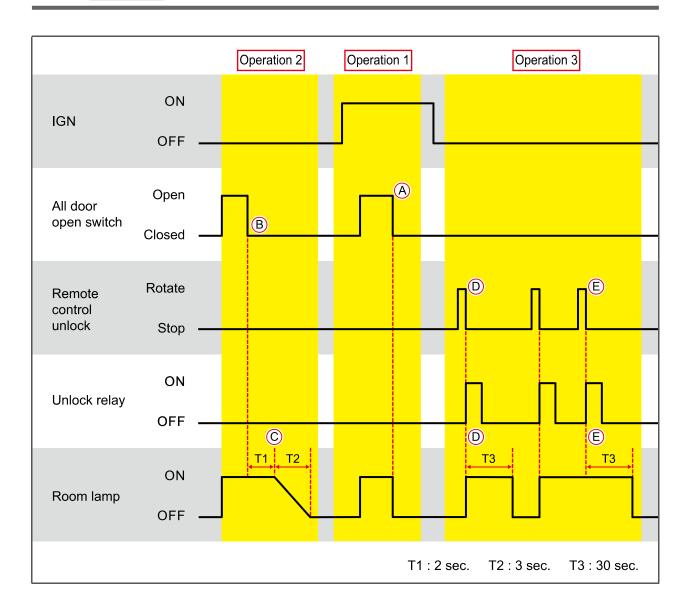
♣ NOTE

- The room lamp stays on when a door is opened during fading out. (The lamp fades out or goes out immediately when the door is closed)
- When the open driver/passenger/rear (LH or RH) doors are closed the room lamp fades out. When the system is arming, the room lamp goes out immediately.



Modification basis	
Application basis	
Affected VIN	

06-34 8310-00 T I V O L I



► Room lamp cut off control

Operation 1.

A. The lamp is turned off when entering sleep mode or armed mode.

Operation 2.

- B. When the ignition is turned OFF (ignition key removed) with the room lamp switch ON, the room lamp comes on for 10 minutes and then goes out automatically.
- C. When the room lamp is turned off automatically, the room lamp automatic switching off signal is sent to the instrument cluster before entering sleep mode.

Operation 3.

D. When the ignition key is turned to ACC or IGN ON position (ignition key inserted) with the room lamp auto off, the room lamp comes on.



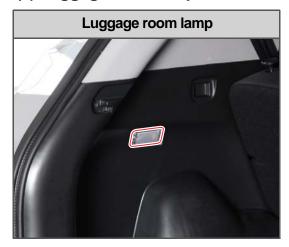
NOTE

When the room lamp cut off operation is activated, the BCM sends cut off operation signal to the instrument cluster through B-CAN to prevent the battery discharge.

Modification basis	
Application basis	
Affected VIN	

06-36 8310-00 T I V O L I

(2) Luggage room lamp



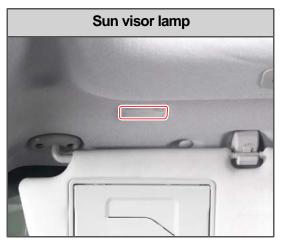
The luggage room lamp comes on when the tailgate is opened and goes off as soon as the tailgate is closed.

(3) Glove box lamp



The glove box lamp comes on when the glove box is opened after the tail lamp switch is operated.

(4) Sun visor lamp



The sun visor lamp comes on when the sun visor vanity mirror cover is opened.

LAMP
TIVOLI 2015.03

Modification basis	
Application basis	
Affected VIN	

(5) Door courtesy lamp



The door courtesy lamp comes on when the driver's door or passenger's door is opened.

(6) Door mood lamp



The door mood lamp comes on when the tail lamp switch is operated.

(7) IP center lower mood lamp



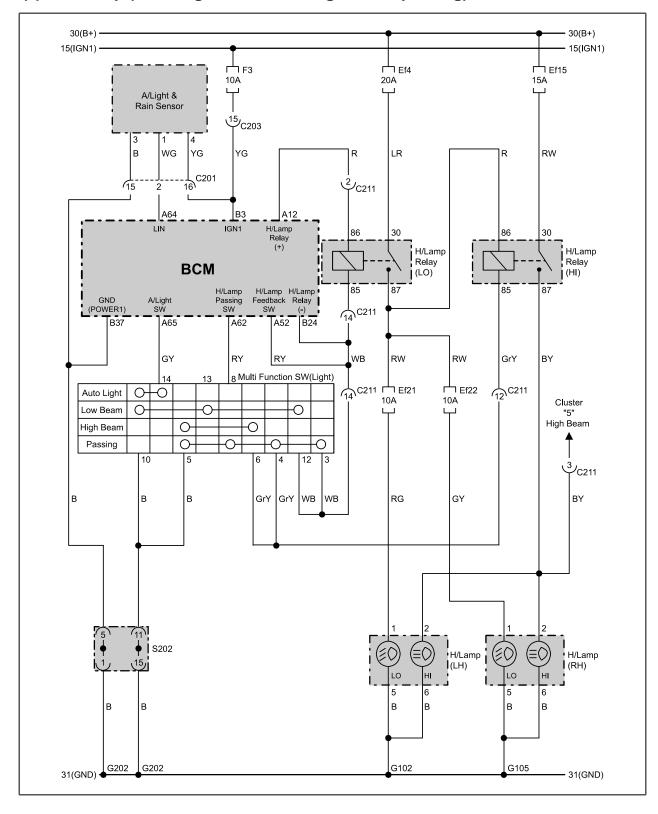
The IP center lower mood lamp comes on when the tail lamp switch is operated.

Memo	
- Memo	

4. CIRCUIT DIAGRAM

1) Exterior Lamp

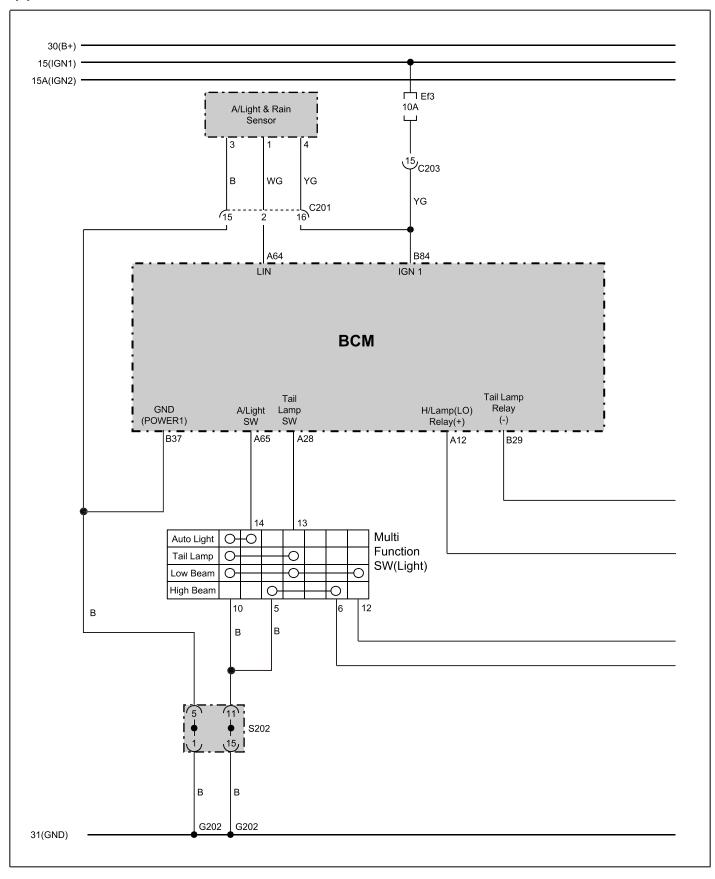
(1) Headlamp (AUTO light, low beam, high beam, passing)



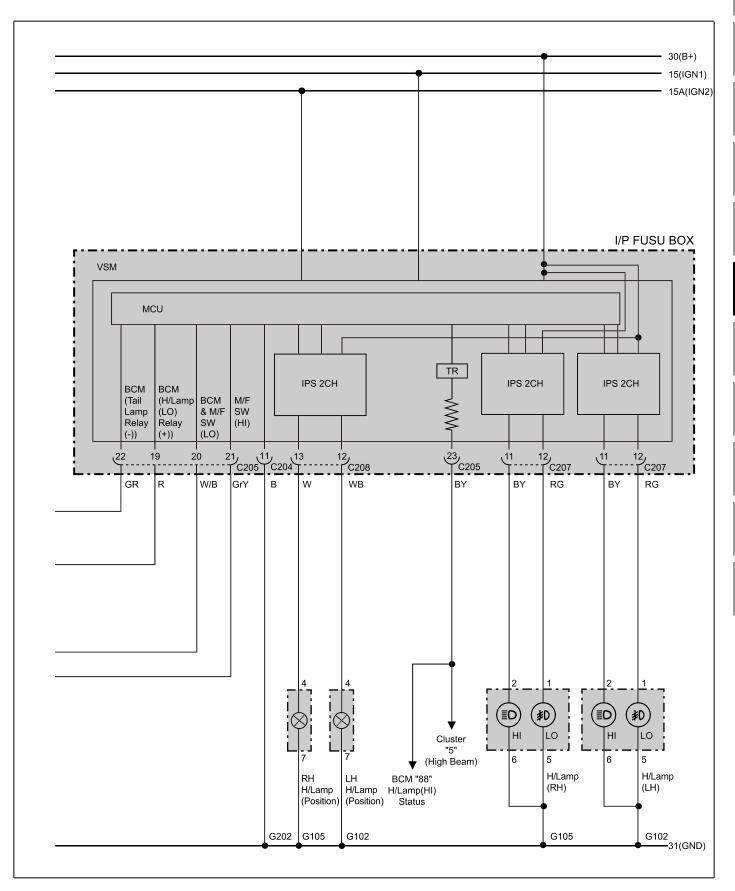
Modification basis	
Application basis	
Affected VIN	

06-40 8310-00 T I V O L I

(2) VSM



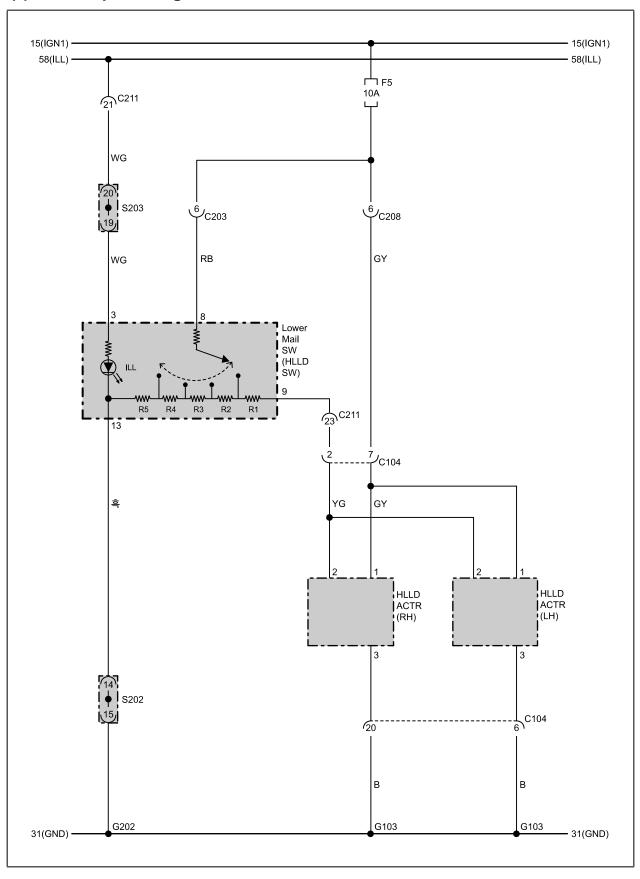
Modification basis	
Application basis	
Affected VIN	



Modification basis	
Application basis	
Affected VIN	

06-42 8310-00

(3) Headlamp Leveling

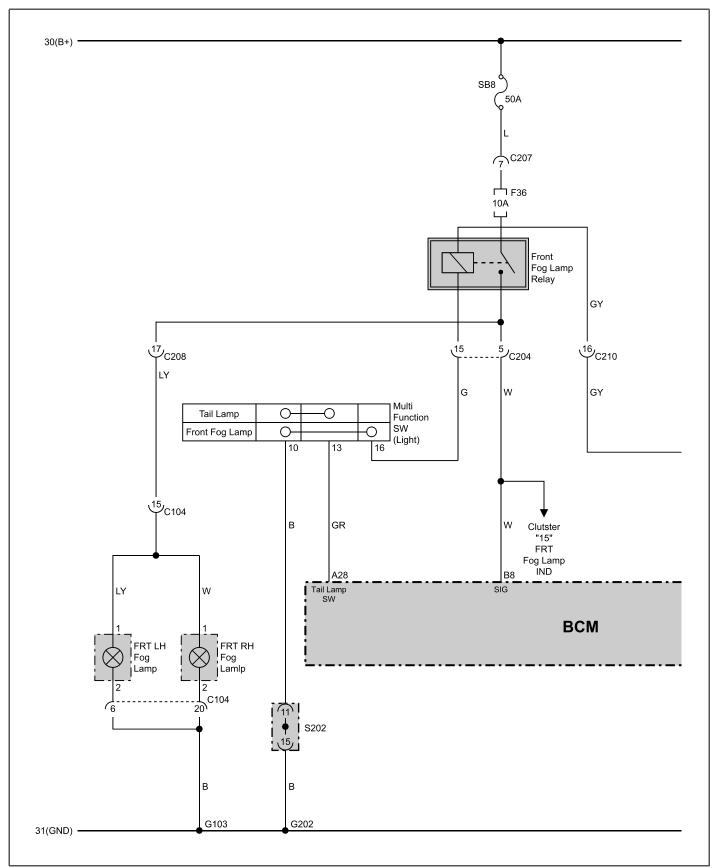


Modification basis	
Application basis	
Affected VIN	

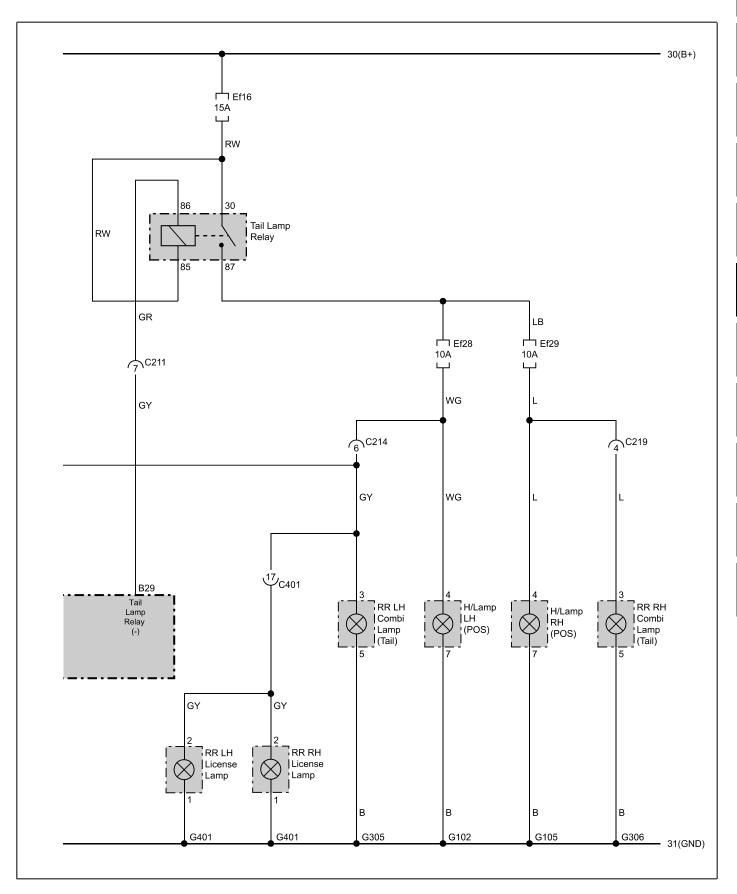
Memo		
Weme		

06-44 8310-00 T I V O L I

(4) Tail lamp, front fog lamp



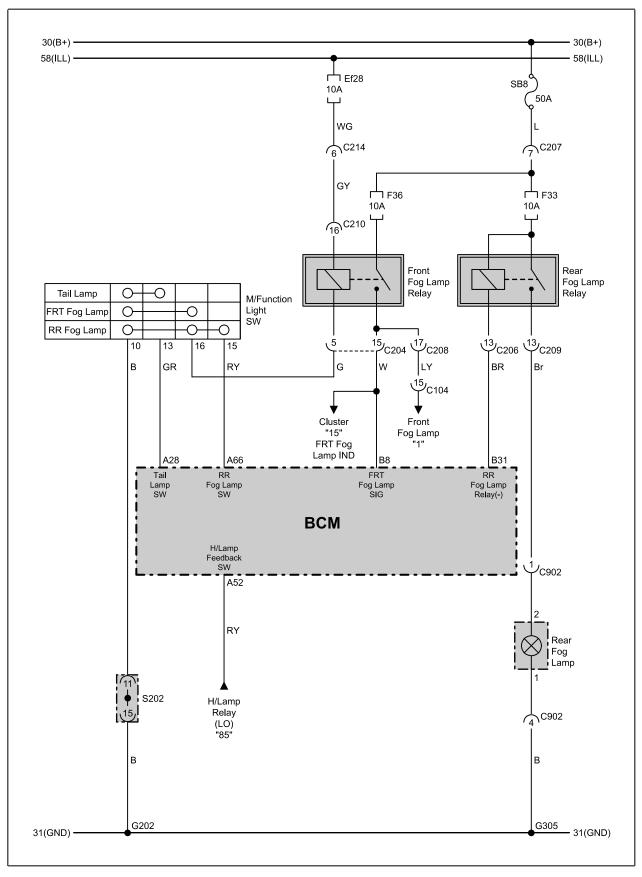
Modification basis	
Application basis	
Affected VIN	



Modification basis	
Application basis	
Affected VIN	

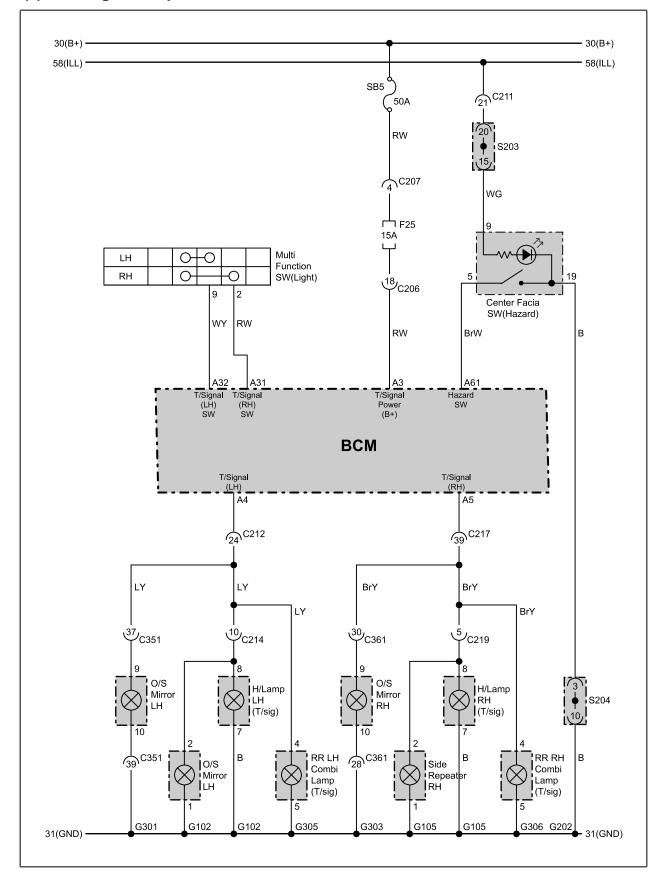
06-46 8310-00 T I V O L I

(5) Fog lamp



Modification basis	
Application basis	
Affected VIN	

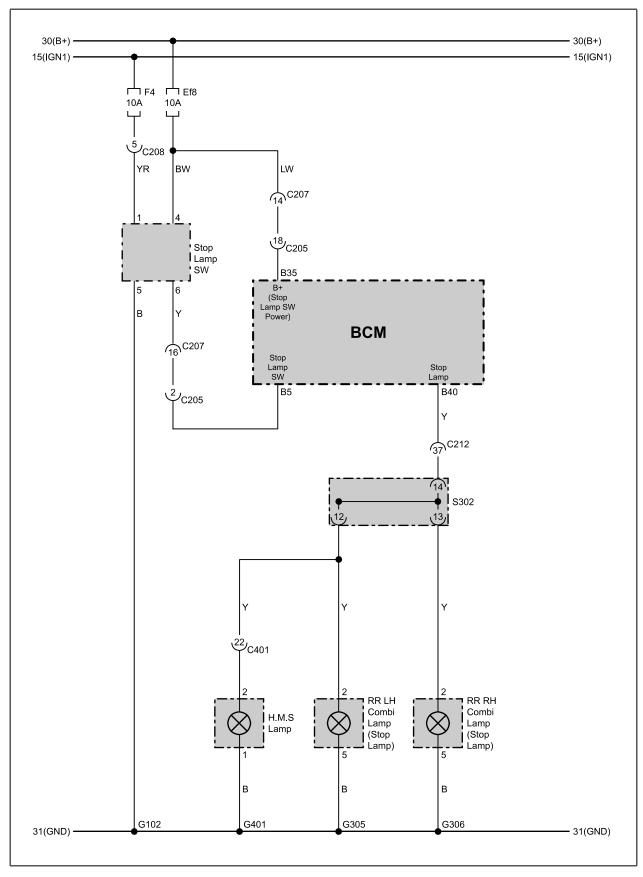
(6) Turn signal lamp



Modification basis	
Application basis	
Affected VIN	

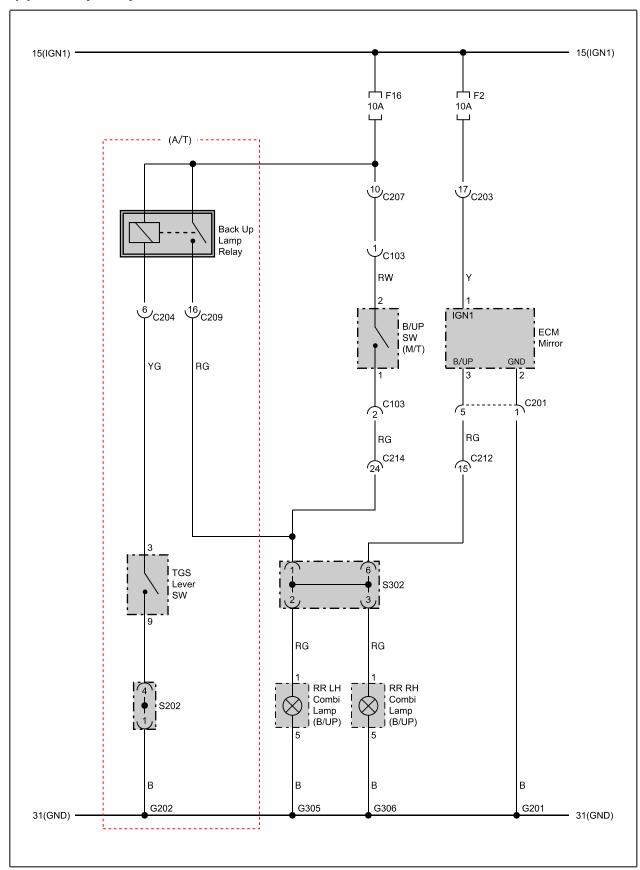
06-48 8310-00 T I V O L I

(7) Stop lamp



Modification basis	
Application basis	
Affected VIN	

(8) Backup lamp

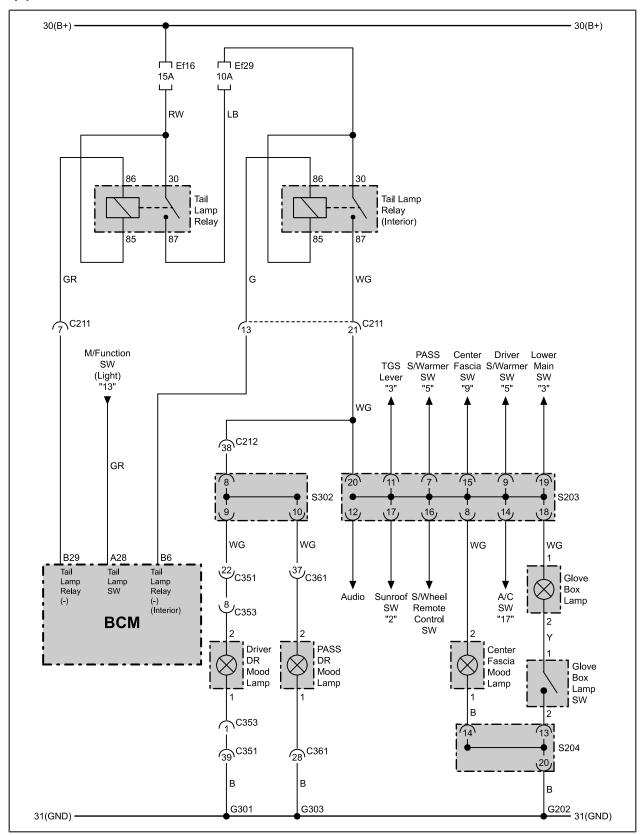


Modification basis	
Application basis	
Affected VIN	

06-50 8310-00 T I V O L I

2) Interior Lamp

(1) Interior illumination



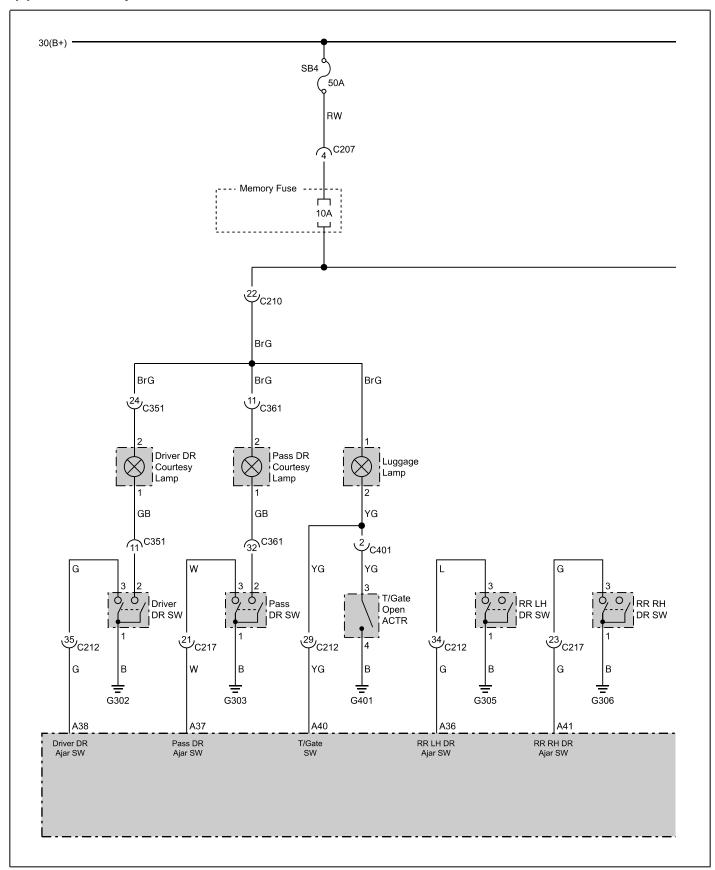
LAMP

Modification basis	
Application basis	
Affected VIN	

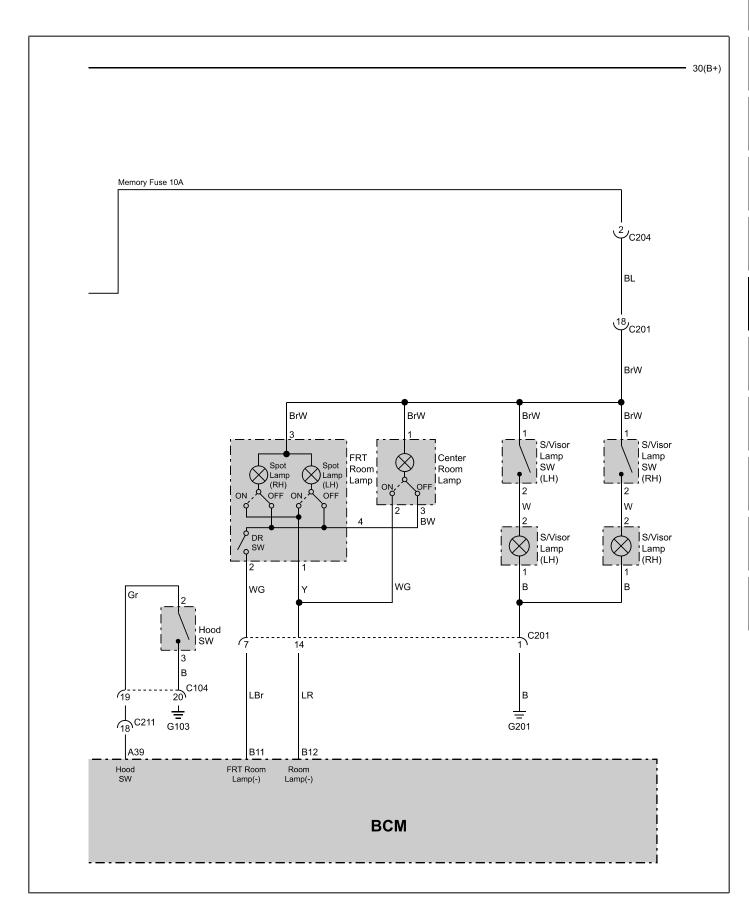
Memo		
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06-52 8310-00 T I V O L I

(2) Interior lamp



LAMP



Modification basis	
Application basis	
Affected VIN	

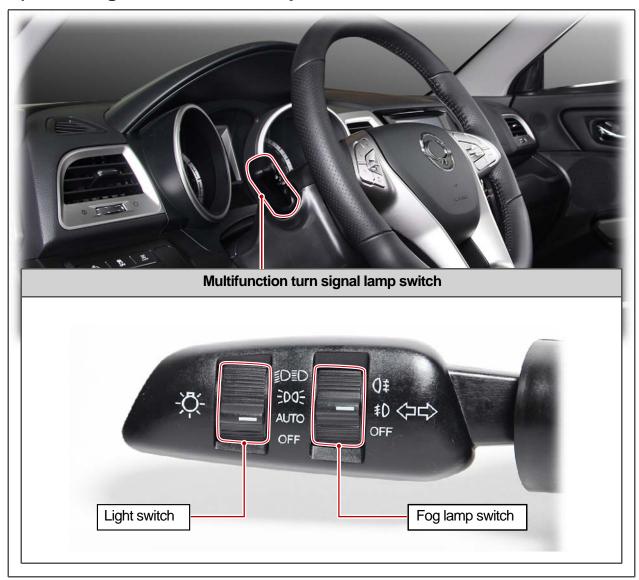
CONFIGURATION AND FUNCTIONS

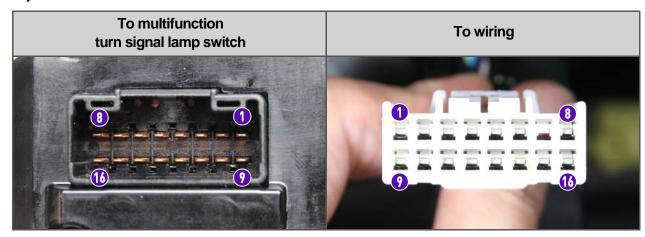
8530-01 MULTIFUNCTION TURN SIGNAL LAMP SWITCH

1) Overview

The multifunction turn signal lamp switch turns on or off the headlamps (high beam, low beam), tail lamps, fog lamps, turn signal lamps, license plate lamps, and other interior lights. The BCM controls the various lamps including the headlamps, tail lamps, AUTO lights, fog lamps by using the operation signals from the multifunction turn signal lamp switch. The AUTO light control system is to turn on or off the tail lamps and headlamps automatically. The AUTO light sensor unit for the system is installed behind the ECM mirror on the top center of the windshield glass. This sensor unit detects the ambient brightness and automatically turns on or off the tail lamps and headlamps when the multifunction turn signal lamp switch is move to the AUTO position.

2) Mounting Location and Components





Pin No.	Function	Pin No.	Function
1	Ground (turn signal lamp)	9	Left turn signal indicator signal
2	Right turn signal indicator signal	10	Ground (light/fog lamps/hazard warning lamp)
3	Headlamp switch (passing)	11	-
4	Headlamp high beam signal (passing)	12	Headlamp switch signal (passing)
5	Ground (dimmer)	13	Tail lamp switch signal
6	Headlamp high beam signal (dimmer)	14	AUTO light switch signal
7	-	15	Rear fog lamp switch signal
8	Headlamp switch (passing)	16	Front fog lamp switch signal

Modification basis	
Application basis	
Affected VIN	

06-56 8310-01 T I V O L I

8310-01 HEADLAMP ASSEMBLY

1) Overview

The headlamp assembly consists of the high beam, low beam, turn signal lamps, DRLs and tail lamps.

2) Mounting Location



LAMP

TIVOLI 2015.03

Modification basis	
Application basis	
Affected VIN	

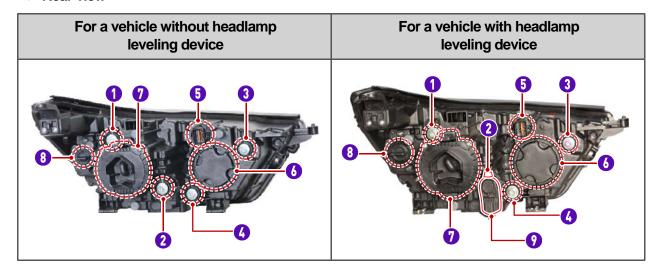
► Front view



Modification basis	
Application basis	
Affected VIN	

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► Rear view



- 1. Low beam LH/RH adjusting screw
- 2. Low beam up/down adjusting screw
- 3. High beam left/right adjusting screw
- 4. High beam up/down adjusting screw
- 5. Headlamp connector

- 6. High beam cap
- 7. Low beam cap
- 8. Turn signal lamp socket
- 9. Headlamp leveling actuator



Pin No.	Function	Pin No.	Function
1	Low beam power supply	5	Low beam ground
2	High beam power supply	6	High beam ground
3	DRL power supply	7	DRL/tail lamp/turn signal lamp ground
4	Tail lamp power supply	8	Turn signal lamp power supply

0000-00 HEADLAMP LEVELING DEVICE

1) Overview

The headlamp aiming angle varies by the ground clearance which changes depending on the number of passengers or weight of cargo. For a vehicle with HID system, the headlamp leveling device allows the headlamp leveling actuator to adjust the height of the headlamp reflector in 4 stages (0~3 level) depending on the electrical signal from the headlamp leveling switch which is operated manually, in order to compensate for the aiming angle variation due to the vehicle load.

2) Mounting Location



Headlamp leveling device fitted at the back side of headlamp assembly can adjust headlamp aiming angle.

Headlamp leveling actuator



Headlamp leveling switch



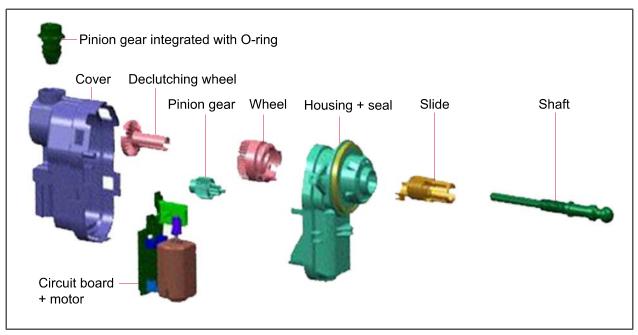
With the headlights ON, the level of headlight can be adjusted in 4 stages (0~3 level) by turning the switch when the vehicle heights of front and back are different due to the number of passengers and the loading conditions of the vehicle.

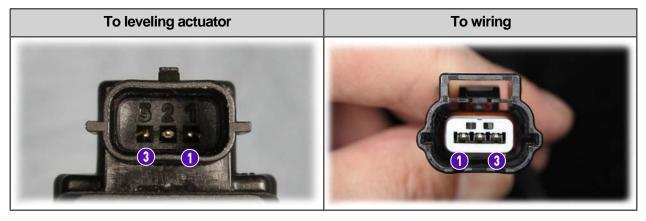
- Rotate downward the switch (towards 0 level) down to raise the headlamp aiming angle.
- Rotate upward the switch (towards 3 level) up to lower the headlamp aiming angle.

Modification basis	
Application basis	
Affected VIN	

06-60 0000-00 T I V O L I

3) Components





Pin No.	Function
1	Power supply
2	Feedback signal
3	Ground

Modification basis	
Application basis	
Affected VIN	

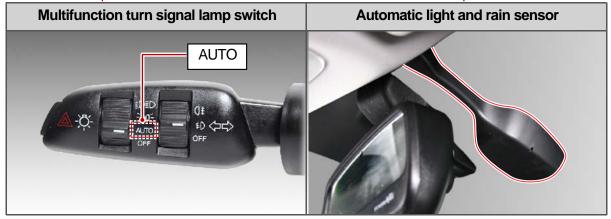
8610-09 AUTO LIGHT AND RAIN SENSOR MODULE

1) Overview

The AUTO light control system is to turn on or off tail lamps and headlamps automatically. It is installed behind the ECM mirror in top center of the windshield glass. This sensor unit detects the ambient brightness and automatically turns on and off the tail lamps and headlamps while the multifunction light switch is in the AUTO position. The system turns on the lamps when passing through the tunnel during day driving and getting dark due to fog, rain or snow.

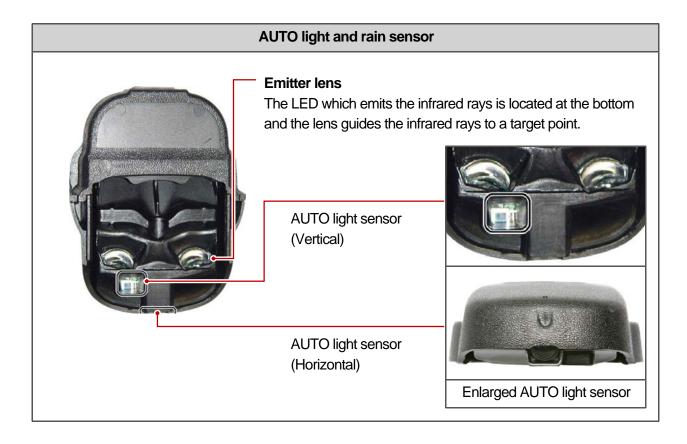
2) Mounting Location



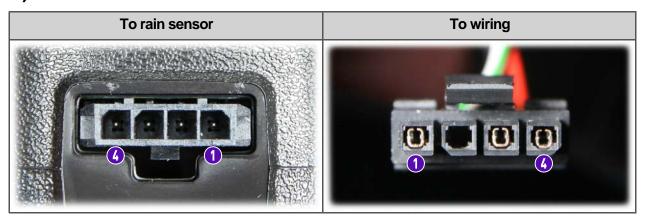


Modification basis	
Application basis	
Affected VIN	

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3) Connector



Pin No.	Function
1	LIN communication (BCM)
2	-
3	Ground
4	IGN 1

LAMP

8310-10 FRONT FOG LAMP ASSEMBLY

1) Overview

The front fog lamp assembly is mounted to the front bumper.

The front fog lamp comes on when the fog lamp switch is turned on with the ignition on and tail lamp on. For a vehicle with DRL, the BCM activates the tail lamp relay and DRL relay at the same time when the ignition is turned on.

The DRLs go off and the tail lamps with fog lamps stay on when the tail lamp switch signal from the multifunction switch is input to the BCM with the ignition ON.

2) Mounting Location



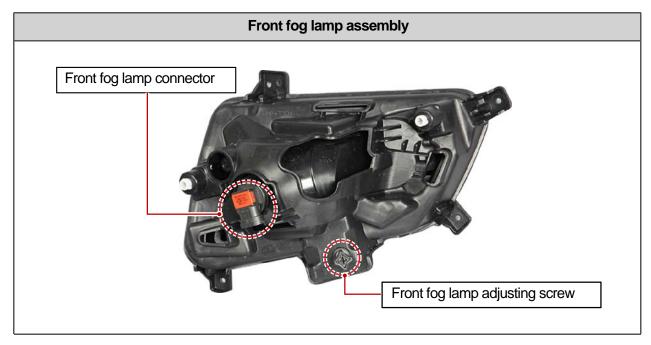
► Front view

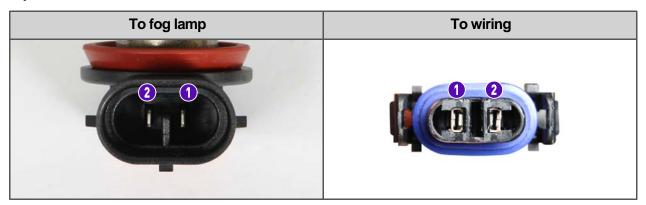


Modification basis	
Application basis	
Affected VIN	

06-64 8310-10 T I V O L I

► Rear view





Pin No.	Function	Pin No.	Function
1	Front fog lamp power supply	2	Front fog lamp ground

Modification basis	
Application basis	
Affected VIN	

8320-20 REAR FOG LAMP ASSEMBLY

1) Overview

The rear fog lamp assembly is mounted to the rear bumper.

For a vehicle with DRL, the BCM activates the tail lamp relay and DRL relay at the same time when the ignition is turned on.

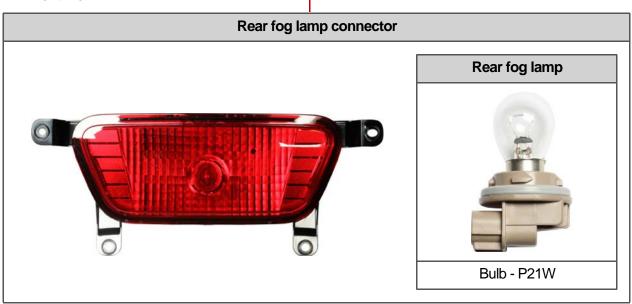
The DRLs go off and the tail lamps with fog lamps stay on when the tail lamp switch signal from the multifunction switch is input to the BCM with the ignition ON.

Turning on the rear fog lamps also activates the front fog lamps.

2) Mounting Location



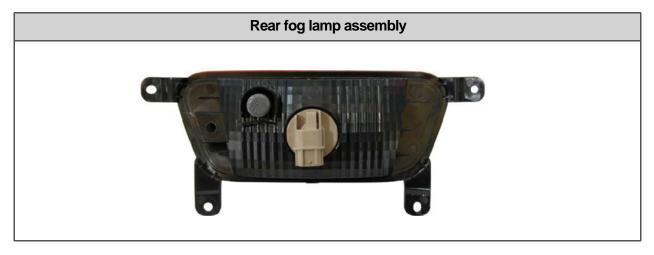
► Front view

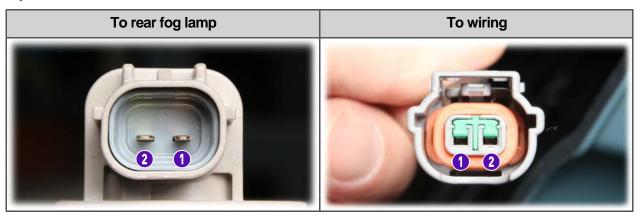


Modification basis	
Application basis	
Affected VIN	

06-66 8320-20 T I V O L I

► Rear view





Pin No.	Function	Pin No.	Function
1	Rear fog lamp ground	2	Rear fog lamp power supply

8320-01 REAR COMBINATION LAMP ASSEMBLY

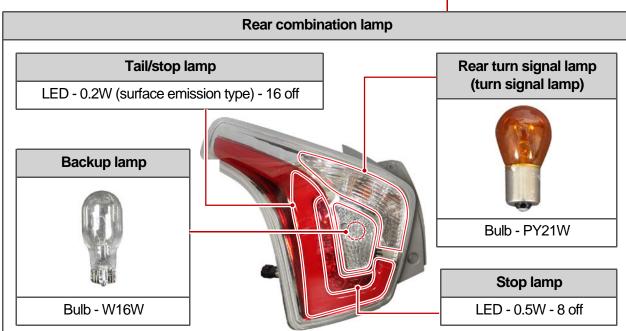
1) Overview

The rear combination lamp assembly consists of the rear tail lamp (LED), rear turn signal lamp, backup lamp and stop lamp (LED).

2) Mounting Location



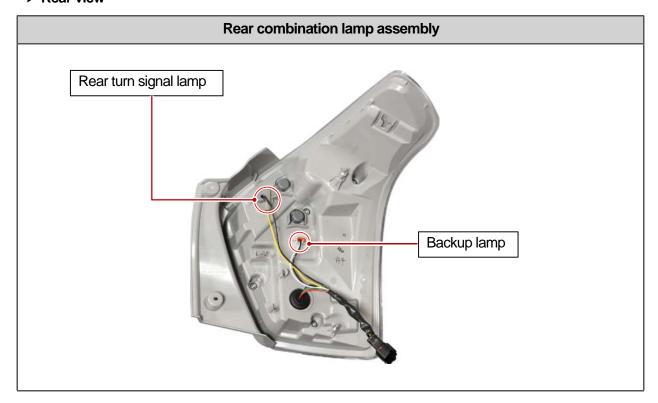
► Front view

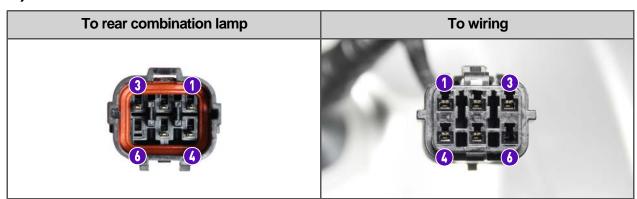


Modification basis	
Application basis	
Affected VIN	

06-68 8320-01 T I V O L I

► Rear view





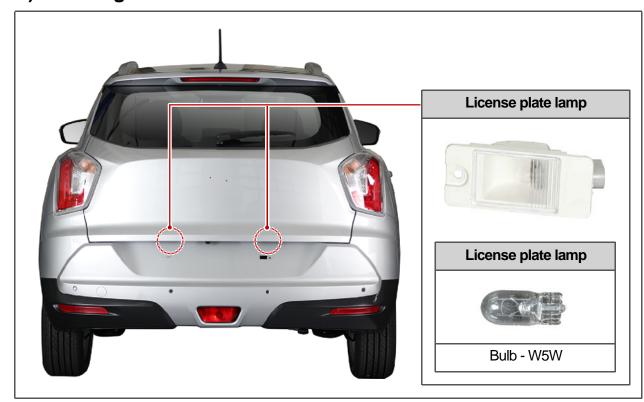
Pin No.	Function	Pin No.	Function
1	Backup lamp power	4	Turn signal lamp power supply
2	Stop lamp power	5	Ground (tail lamp/turn signal lamp/backup lamp/stop lamp)
3	Tail lamp power supply	6	-

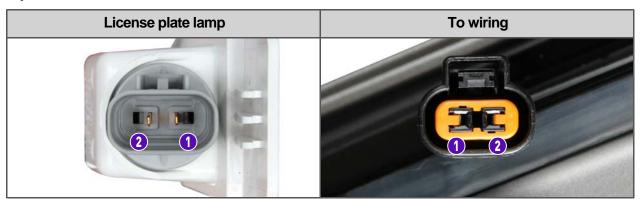
8320-10 LICENSE PLATE LAMP ASSEMBLY

1) Overview

The license plate lamp assembly is fitted on the tailgate.

2) Mounting Location





Pin No.	Function	Pin No.	Function
1	License plate lamp ground	2	Tail lamp power supply

Modification basis	
Application basis	
Affected VIN	

8320-16 HIGH MOUNTED STOP LAMP ASSEMBLY

1) Overview

The high mounted stop lamp is fitted on the spoiler or tailgate.

Depressing the brake pedal turns on the stop lamps using the signal from the stop lamp switch fitted to the brake pedal, and releasing the brake pedal turns off the lamps.

2) Mounting Location



High mounted stop lamp		
For a vehicle with rear spoiler	For a vehicle without rear spoiler	
LED - 0.2W - 22 off	LED - 0.2W - 10 off	

To high mounted stop lamp	To wiring
2 1	

7880-10 REFLEX REFLECTOR LAMP ASSEMBLY

1) Overview

The reflex reflector lamp is fitted to the rear bumper. This is a reflector which reflects the light emitted from headlamp of a following vehicle.

2) Mounting Location

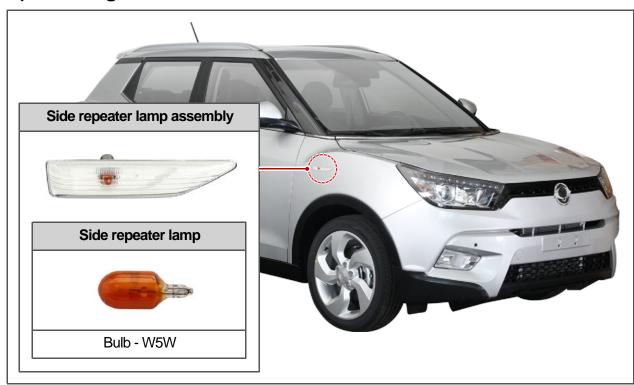


8310-15 SIDE REPEATER LAMP ASSEMBLY

1) Overview

The side repeater lamp is mounted on the fender. It flashes when the left/right turn signal lamps or hazard warning lamp is operated with the ignition on.

2) Mounting Location



3) Connector

To side repeater lamp	To wiring

Pin No.	Function	Pin No.	Function
1	Turn signal lamp ground	2	Turn signal lamp power supply

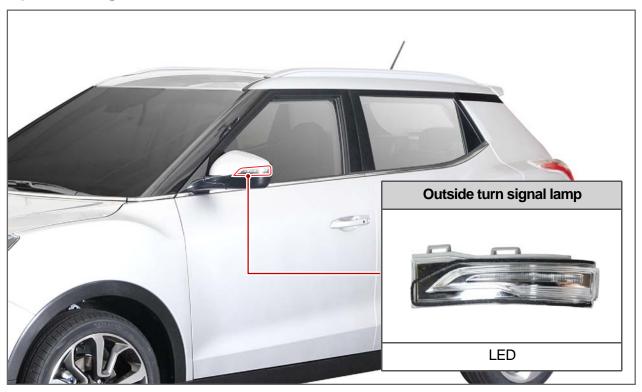
Modification basis	
Application basis	
Affected VIN	

0000-00 OUTSIDE TURN SIGNAL LAMP ASSEMBLY

1) Overview

The outside turn signal lamp is mounted to the LH/RH outside rearview mirror.

2) Mounting Location



3) Connector

To outside turn signal lamp	To wiring

Pin No.	Function	Pin No.	Function
1	Ground (outside rearview mirror connector Pin no. 10)	2	Turn signal lamp power (outside rearview mirror connector Pin no. 9)

LAMP

Modification basis	
Application basis	
Affected VIN	

7770-20 OVERHEAD CONSOLE ASSEMBLY(INTEGRATED WITH FRONT ROOM LAMP)

1) Overview

The front room lamp is controlled by the BCM. The front room lamp comes on when opening the driver's or passenger's door (with the door coupled operation switch ON). When closing the driver's or passenger's door, the front room lamp stays on for 2 seconds and then fades out over 3 seconds (with the door coupled operation switch ON). The front room lamp comes on or goes off depending on the operation of the front room lamp ON/OFF switch (spot switch).

2) Mounting Location

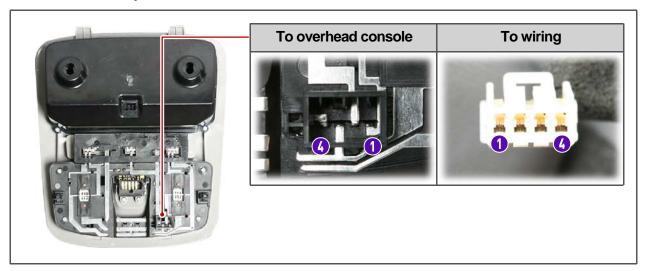


Modification basis	
Application basis	
Affected VIN	

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3) Connector

▶ Front room lamp



Pin No.	Function	Pin No.	Function
1	Front room lamp signal	3	Power (B+)
2	Door coupled front room lamp Switch ground	4	Door coupled center room lamp ground

▶ Sunroof



Pin No.	Function	Pin No.	Function
1	-	4	Slide
2	Illumination (power supply)	5	Tilt
3	Illumination (ground)	6	ACC

LAMP

Modification basis	
Application basis	
Affected VIN	

8610-01 CENTER ROOM LAMP ASSEMBLY

1) Overview

The center room lamp is mounted to the center of the head lining.

2) Mounting Location



3) Connector

To center room lamp	To wiring
3 1	

Pin No.	Function	Pin No.	Function
1	Center room lamp power supply (B+)	3	Door coupled center room lamp ground
2	Center room lamp switch signal		

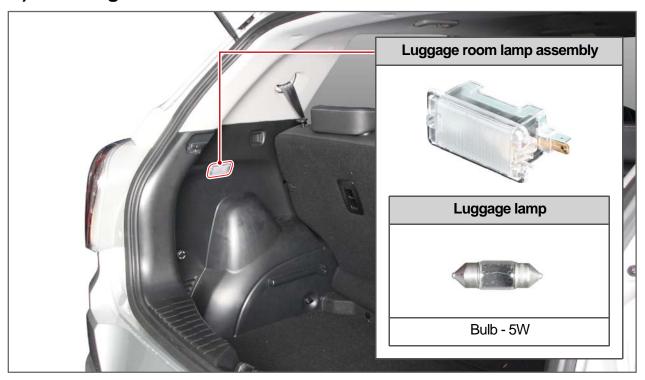
Modification basis	
Application basis	
Affected VIN	

0000-00 LUGGAGE ROOM LAMP ASSEMBLY

1) Overview

The luggage room lamp is mounted to the LH quarter lower trim.

2) Mounting Location



3) Connector

To luggage room lamp	To wiring
2	

Pin No.	Function	Pin No.	Function
1	Luggage lamp power supply	2	Tailgate open signal (ground)

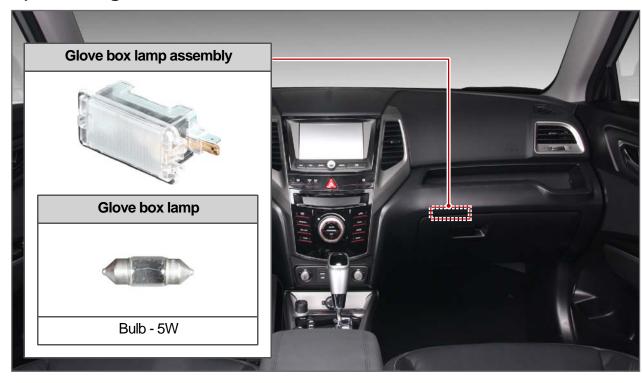
LAMP

8610-04 GLOVE BOX LAMP ASSEMBLY

1) Overview

The glove box lamp is mounted to the inner upper part of the glove box.

2) Mounting Location



3) Connector

To glove box lamp	To wiring
2	

Pin No.	Function	Pin No.	Function
1	Tail lamp power supply	2	Glove box switch (ground)

Modification basis	
Application basis	
Affected VIN	

06-80 8610-08 T I V O L I

8610-08 SUN VISOR LAMP ASSEMBLY

1) Overview

The sun visor lamp is mounted to the headlining which is shown when flipping down the sun visor. The sun visor lamp is turned on when opening the sun visor cover.

2) Mounting Location



3) Connector



Pin No.	Function	Pin No.	Function
1	Sun visor lamp power supply	2	Sun visor lamp switch (ground)

LAMP

Modification basis	
Application basis	
Affected VIN	

0000-00 DOOR COURTESY LAMP ASSEMBLY

1) Overview

The door courtesy lamps are mounted to the driver and passenger doors. They come on when any door is open and goes off when the door is closed.

2) Mounting Location

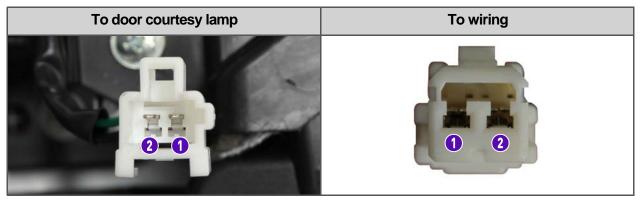


Door courtesy lamp assembly Courtesy lamp bulb holder Door courtesy lamp assembly mounting location **Door courtesy lamp** Bulb - 5W

Modification basis	
Application basis	
Affected VIN	

06-82 0000-00 T I V O L I

3) Connector



Pin No.	Function	Pin No.	Function
1	Door switch (ground)	2	Door courtesy lamp power supply

8610-15 FRONT DOOR MOOD LAMP ASSEMBLY

1) Overview

The front door mood lamp is mounted to the door trim. this lamp is turned on when the tail lamp switch is operated.

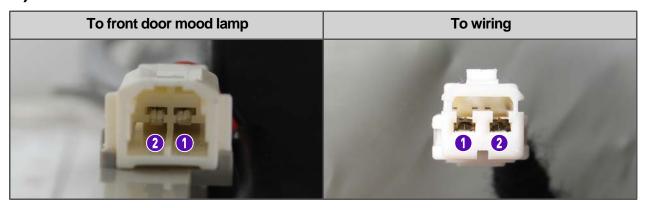
2) Mounting Location



Modification basis	
Application basis	
Affected VIN	

06-84 8610-15 T I V O L I

3) Connector



Pin No.	Function	Pin No.	Function
1	Door mood lamp ground	2	Door mood lamp power supply

8610-16 IP CENTER LOWER MOOD LAMP ASSEMBLY

1) Overview

The center lower mood lamp is located between the driver's seat heater switch and the passenger's seat heater switch on the center lower panel.

This lamp comes on when the tail lamp switch is operated.

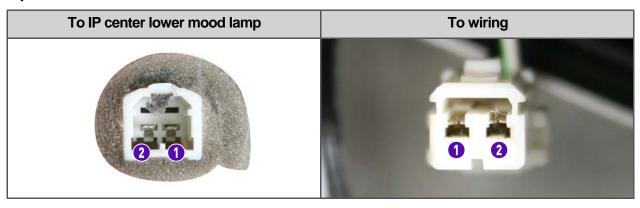
2) Mounting Location



Modification basis	
Application basis	
Affected VIN	

06-86 8610-16 T I V O L I

3) Connector



Pin No.	Function	Pin No.	Function	
1	Center fascia mood lamp ground	2	Center fascia mood lamp power supply	

REMOVAL AND INSTALLATION

8530-01 MULTIFUNCTION TURN SIGNAL LAMP SWITCH **ASSEMBLY**

Preceding work

- Disconnect the negative battery cable.





1. Remove the steering wheel.

♣ NOTE

Refer to "STEERING WHEEL" under "REMOVAL AND INSTALLATION" subsection of "BODY INTERIOR" section in "BODY" chapter.



2. Unscrew the 2 mounting screws on the shroud upper and lower panels.

Modification basis	
Application basis	
Affected VIN	

06-88 8530-01

T I V O L I



 Unscrew the mounting screw (A) for the shroud lower panel, and push down the steering column tilting lever in the direction of the arrow.



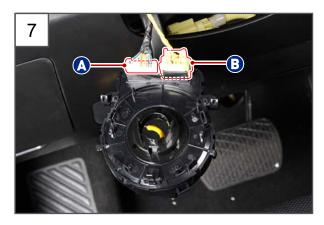
Prise apart the shroud upper panel (A) and lower panel (B) and remove the shroud lower panel.



6. Disengage the mountings (3 points) and lift out the contact coil assembly from the column shaft.



Contact coil assembly mountings



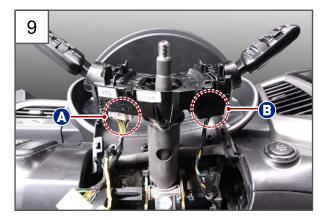
7. Disconnect the connectors (A) and (B) connected to the contact coil assembly.



8. Remove the contact coil assembly.



9. Disconnect the light switch connector (A) and the wiper switch connector (B).

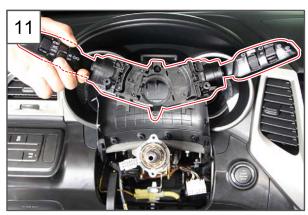




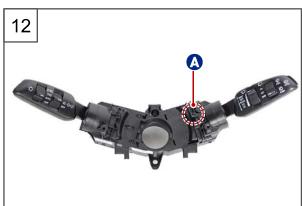
10. Remove the 2 mounting screws for the multifunction switch assembly.

Modification basis	
Application basis	
Affected VIN	

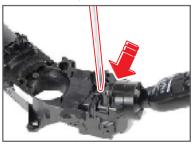
06-90 8530-01 T I



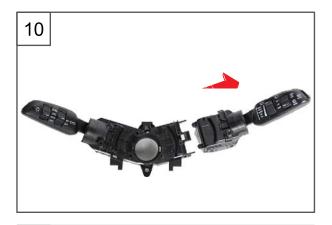
11. Remove the multifunction switch assembly.



12.Detach the multifunction wiper switch mounting (A) from the multifunction switch assembly with a flat bladed screwdriver.



10.Remove the multifunction wiper switch from the multifunction switch assembly.



11.Install in the reverse order of removal.



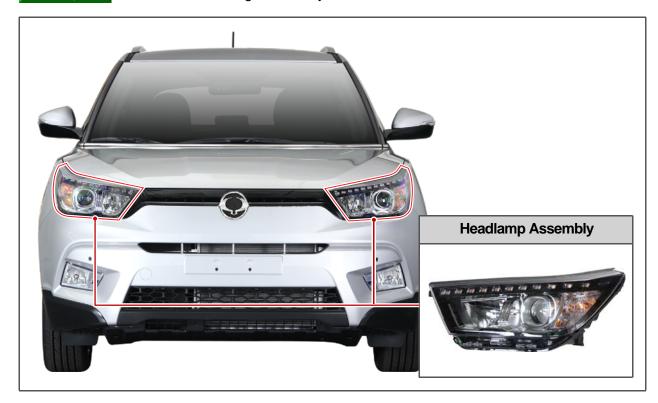
LAMP
TIVOLI 2015.03

Modification basis	
Application basis	
Affected VIN	

8310-01 HEADLAMP ASSEMBLY

Preceding work

- Disconnect the negative battery cable.





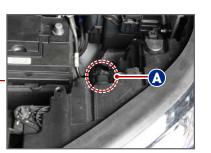
1. Remove the front bumper assembly.

♣ NOTE

Refer to "FRONT BUMPER ASSEMBLY" under "REMOVAL AND INSTALLATION" subsection of "BODY EXTERIOR" section in "BODY" chapter.

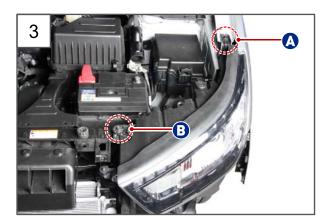


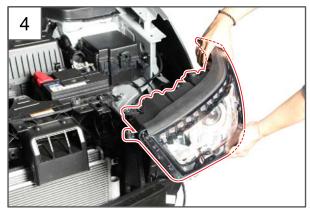
2. Disconnect the headlamp connector (A) on the upper side of the headlamp.



Modification basis	
Application basis	
Affected VIN	

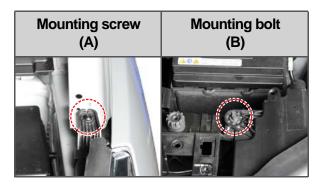
06-92 8310-01





3. Remove the mounting screw (A) and mounting bolt (B, 10 mm) on the upper side of the headlamp.

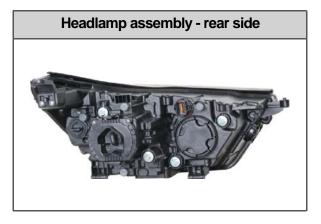
 $\mathbf{T} \quad \mathbf{I} \quad \mathbf{V} \quad \mathbf{O} \quad \mathbf{L} \quad \mathbf{I}$



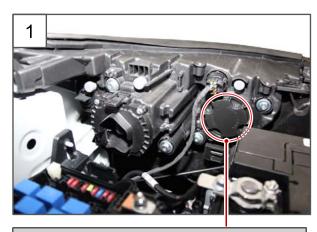
4. Remove the headlamp assembly.



5. Install in the reverse order of removal.



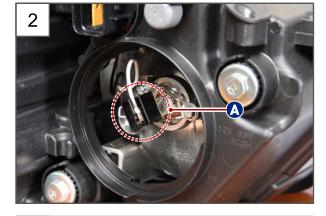
► Replacement of high beam bulb



1. Turn the high beam cap in the direction of the arrow at the rear side of the headlamp assembly to remove it.



2. Disconnect the connector (A) for the bulb of the high beam.



3. Press the high beam bulb retaining pin in the direction of the arrow to detach it.

3	
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4. Remove the high beam bulb.

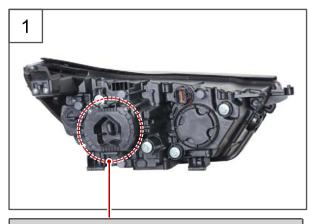


5. Install the new bulb in the reverse order of removal.

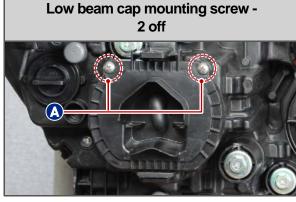
► Replacement of low beam HID

Preceding work

- Remove the headlamp assembly.



1. Remove the 2 mounting screws (A) for the low beam cap at the rear side of the headlamp assembly.



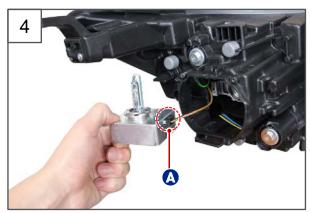
2. Remove the low beam cap.



3. Remove the 2 mounting screws (A) for the low beam (HID) to remove the low beam.

Modification basis	
Application basis	
Affected VIN	

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3. Disconnect the low beam (HID) connector (A) to remove the low beam (HID).



4. Install the new bulb in the reverse order of removal.



MARNING

- Please note that there is a high risk of electrical shock when removing and replacing the components for the HID headlamps.
- The vehicle with HID headlamps has a higher possibility of personal injury from electrical shock because of the high-voltage current in the lamps and related systems.
- Any modifications or alterations of a vehicle without HID headlamps to add HID system could seriously affect its roadworthiness and safety and may lead to an accident resulting in serious injury or death

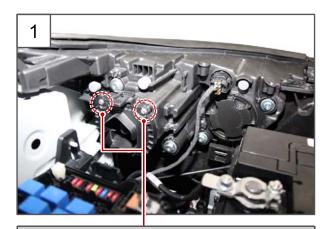


A CAUTION

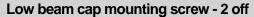
- The driver should use the headlamp leveling switch properly according to the number of passengers or weight of cargo, so that the drivers of oncoming vehicles are not dazzled.
- Refer to "(5) Headlamp leveling switch" under "LOWER MAIN SWITCH ASSEMBLY" subsection of "CONFIGURATION AND FUNCTIONS" section in "SWITCH" chapter.

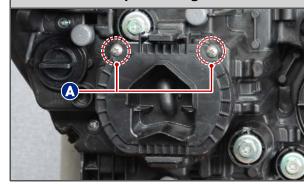
LAMP

► Replacement of low beam bulb

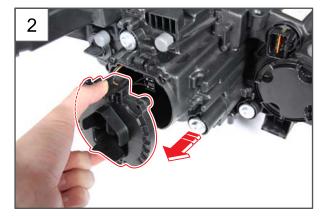


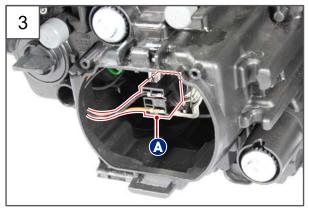
1. Remove the 2 mounting screws (A) for the low beam cap at the rear side of the headlamp assembly.





2. Remove the low beam cap.





3. Disconnect the connector (A) for the bulb of the low beam.

Modification basis	
Application basis	
Affected VIN	

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4. Press the low beam bulb retaining pin in the direction of the arrow to detach it.

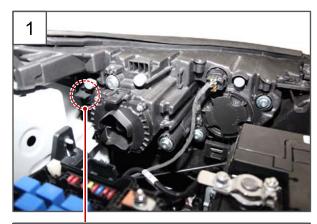


5. Pull out the low beam bulb in the direction of the arrow to remove it.



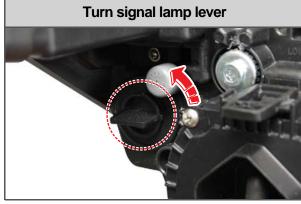
6. Install the new bulb in the reverse order of removal.

▶ Replacement of front turn signal lamp bulb



1. Turn the turn signal lamp bulb and socket in the direction of the arrow at the rear side of the headlamp assembly to remove it.

8310-01



2. Remove the turn signal lamp bulb and socket.



3. Remove the turn signal lamp bulb from the socket while pressing it downward.

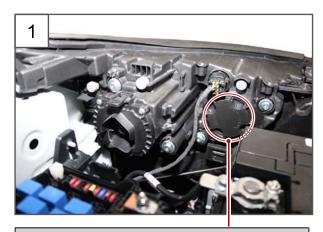
|--|

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4. Install the new bulb in the reverse order of removal.

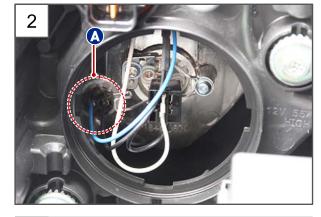
► Replacement of tail lamp bulb (bulb type)



 Turn the high beam cap in the direction of the arrow at the rear side of the headlamp assembly to remove it.



2. Remove the tail lamp bulb cap (A).



3. Remove the tail lamp bulb.



06-102 8310-01 $\mathbf{T} \quad \mathbf{I} \quad \mathbf{V} \quad \mathbf{0} \quad \mathbf{L} \quad \mathbf{I}$



4. Install the new bulb in the reverse order of removal.

8310-01 HOW TO ADJUST HEADLAMP AIMING

1) How To Adjust Headlamp Aiming

Adjust the aiming of the headlamp by turning the up/down/left/right adjusting screws of the high-beam and low-beam lamps using a cross-tip screwdriver.

► Cautions for adjusting aiming of headlamp

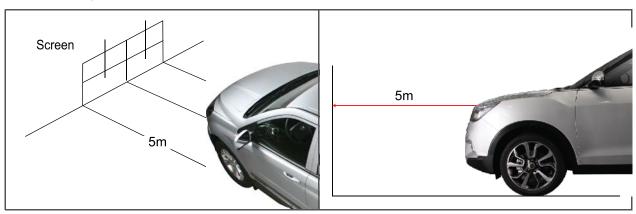
- Park the vehicle on a level ground.
- Set the vehicle unloaded only with a driver in it and set tire inflation pressure to the specified value.
- The distance from the center of the headlamp to the screen should be 5 m.
- Vertical line: passing the center of each headlamp
- Horizontal line: passing the center of each headlamp

(1) Basic settings for headlamp aiming

▶ Beam setting



▶ Screen alignment



Modification basis	
Application basis	
Affected VIN	

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2) Dimensions For Headlamp Aiming

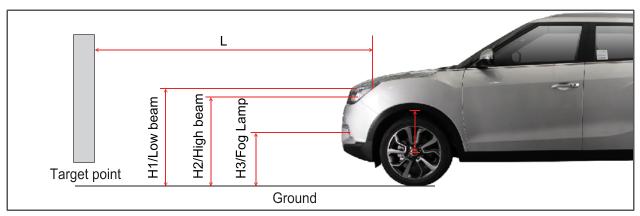
(1) Lamp type and distance

► Distance between lamps



W1: Distance between high beams W2: Distance between low beams W3: Distance between fog lamps H1: Low beam ground clearance H2: High beam ground clearance H3: Fog lamp ground clearance

► Lamp height



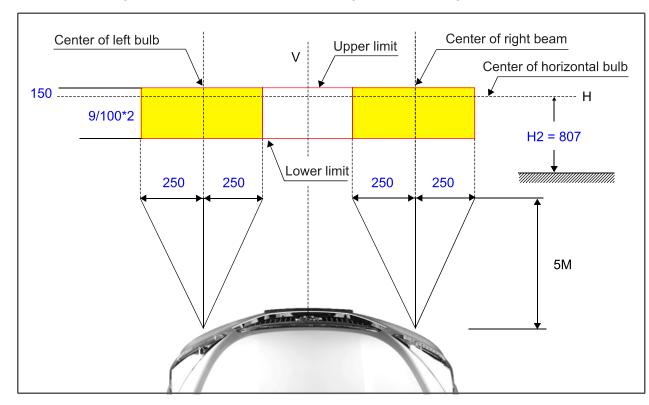
Lamp	Vehicle status	Distance (mm)					
Low	Unladen	H1	824	W2	1325		
beam	Laden (with 1 person)	H1	817	''-	1020		
High	Unladen	H2	807	W1	1060		5000
beam	Laden (with 1 person)	H2	800	"'	1000	_	
Fog lamp	Unladen	H3	475	W3	1394		
i og iamp	Laden (with 1 person)	H3	468		.501		

LAMP TIVOLI 2015.03

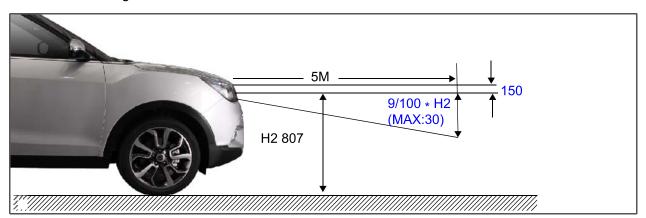
Modification basis	
Application basis	
Affected VIN	

(2) High beam aiming standard

- Turn on the headlamp high beam and adjust the headlamp so that the maximum intensity of the illuminated region is located within the allowable range shown in the figure below.



- Adjust the headlamp based on the position of the lower beam when adjusting using the contour because the high and low beams are linked as a unit.





♣ NOTE

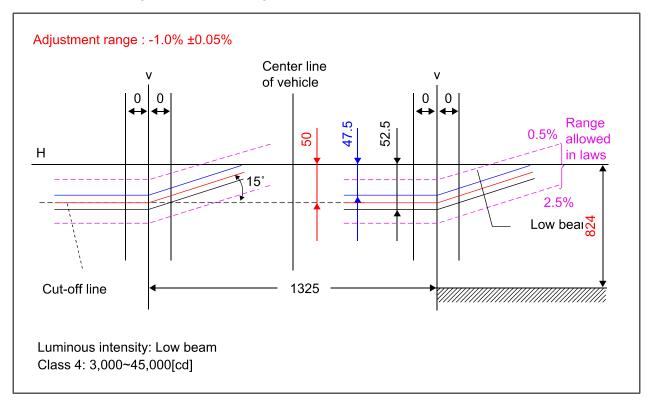
Luminous intensity: High beam 4 bulbs: 12,000 to 112,500 cd

Modification basis	
Application basis	
Affected VIN	

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(3) Low beam aiming standard

- Turn on the headlamp low beam and adjust the headlamp so that the cutoff line is positioned within the allowable range as shown in the figure below.



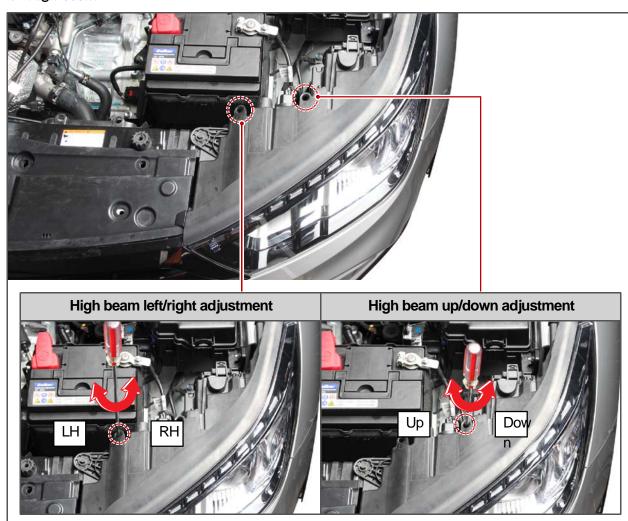


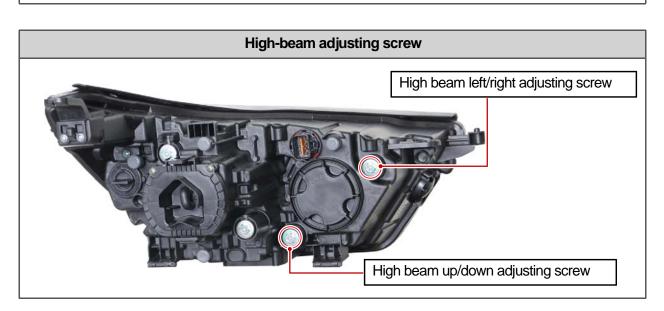
₿ NOTE

Adjustment range for low beam is based on the distance of 10 m.

(4) Adjusting headlamp aiming (driver side)

► High beam

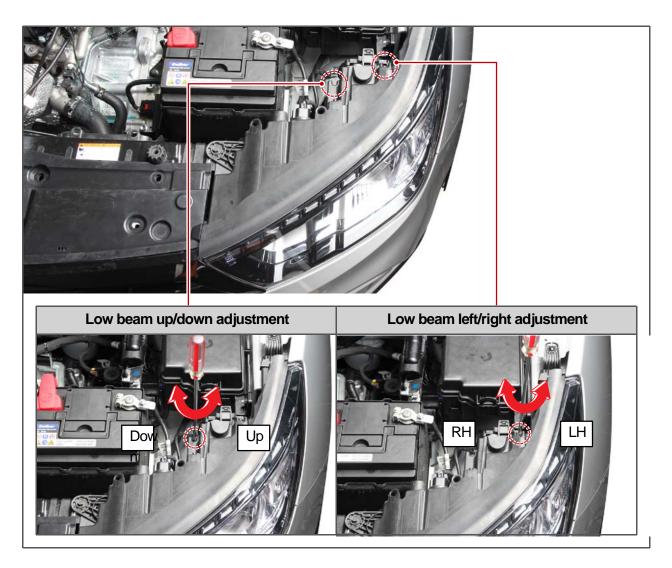


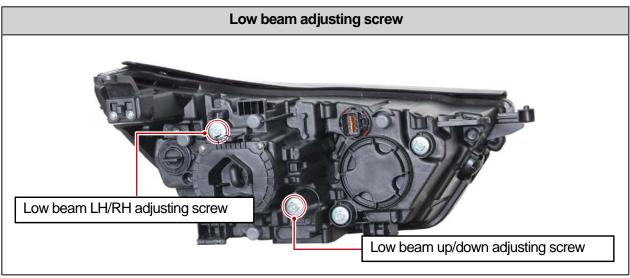


Modification basis	
Application basis	
Affected VIN	

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► Low beam





8610-09 AUTO LIGHT AND RAIN SENSOR MODULE

Preceding work

- Disconnect the negative battery cable.





1. Insert a screwdriver into the service holes at both sides of the styling cover to remove the cover.

A CAUTION

Otherwise, the cover or internal housing could be damaged.



2. Disconnect the connector from the AUTO light and rain sensor module.

Modification basis	
Application basis	
Affected VIN	

06-110 8610-09



3. Insert a screwdriver into the service holes at both sides of the cover to separate between the upper and lower covers.



4. Pull out the AUTO light sensor module in the direction of the arrow to remove it.



5. Install in the reverse order of removal.

LAMP
TIVOLI 2015.03

Modification basis	
Application basis	
Affected VIN	

8310-10 FRONT FOG LAMP ASSEMBLY

Preceding work

- Disconnect the negative battery cable.

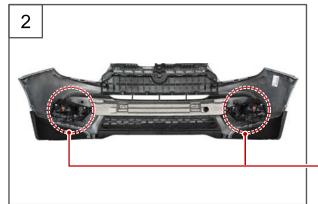




1. Remove the front bumper assembly.

♣ NOTE

Refer to "FRONT BUMPER ASSEMBLY" under "REMOVAL AND INSTALLATION" subsection of "BODY EXTERIOR" section in "BODY" chapter.



2. Unscrew the 4 mounting screws on the front fog lamp at the rear side of the front bumper.



Modification basis	
Application basis	
Affected VIN	

06-112 8310-10 T I V O L I

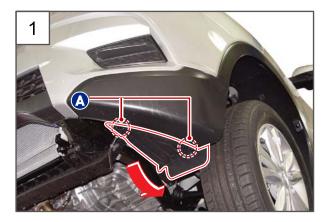


3. Remove the front fog lamp assembly.





► Replacement of front fog lamp bulb



1. Undo the 2 driver wheel house cover mounting screw rivets (A) under the vehicle and pull it out to the arrow direction.



2. Separate the wheel house cover and disconnect the front fog lamp connector (A).



3. Turn the fog lamp bulb in the direction of the arrow to remove it.



4. Install the new bulb in the reverse order of removal.

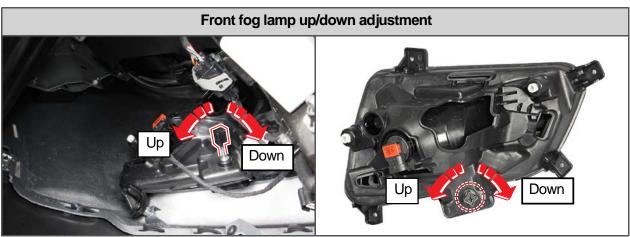
Modification basis	
Application basis	
Affected VIN	

06-114 8310-10 T I V O L I

8310-10 HOW TO ADJUST FRONT FOG LAMP AIMING

The front fog lamp is installed on the inside the front bumper and can be adjusted vertically by turning the knob attached to it. Turn the knob clockwise to raise the fog lamp and counterclockwise to lower it.





LAMP

TIVOLI 2015.03

Modification basis	
Application basis	
Affected VIN	

8320-01 REAR COMBINATION LAMP ASSEMBLY

Preceding work

- Disconnect the negative battery cable.



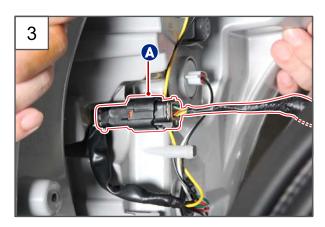


1. Unscrew the 2 mounting screws for the rear combination lamp.



2. Slide the rear combination lamp in the direction of the arrow to remove it.

Modification basis	
Application basis	
Affected VIN	



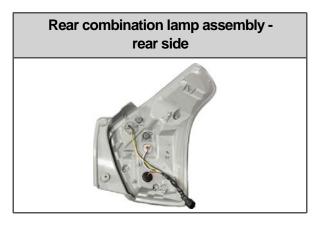
3. Disconnect the rear combination lamp assembly connector (A).



4. Remove the rear combination lamp assembly.



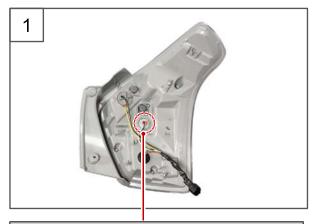
5. Install in the reverse order of removal.



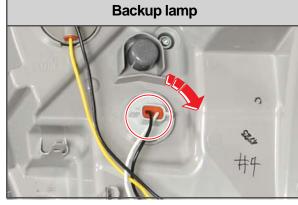
LAMP TIVOLI 2015.03

Modification basis	
Application basis	
Affected VIN	

► Replacement of backup lamp bulb



 Turn the backup lamp bulb socket in the direction of the arrow at the rear side of the rear combination lamp assembly to remove it.



2. Pull out the backup lamp bulb in the direction of the arrow.



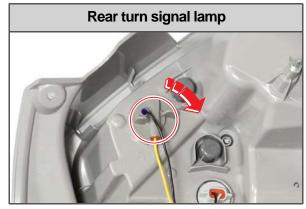
3. Install the new bulb in the reverse order of removal.

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	MUN	
W16W		

► Replacement of rear turn signal lamp



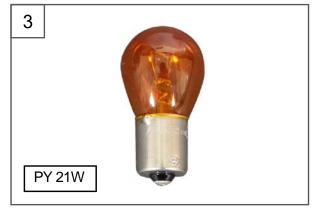
 Turn the rear turn signal lamp bulb socket in the direction of the arrow at the rear side of the rear combination lamp assembly to remove it.



2. Turn the turn signal lamp bulb in the direction of the arrow to remove it.



3. Install the new bulb in the reverse order of removal.



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8320-20 REAR FOG LAMP ASSEMBLY

Preceding work

- Disconnect the negative battery cable.





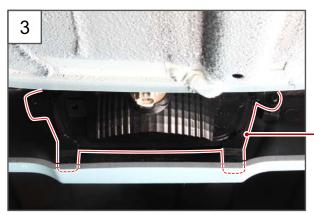
1. Disconnect the rear fog lamp connector (A) at the rear side of the rear bumper.



2. Disengage the retaining key for the rear fog lamp wiring with a flat bladed screwdriver.

Modification basis	
Application basis	
Affected VIN	

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3. Unscrew the 4 mounting screws for the rear fog lamp to remove the rear fog lamp.





► Replacement of rear fog lamp bulb



1. Disconnect the rear fog lamp connector (A) at the rear side of the rear bumper.



2. Turn the rear fog lamp bulb socket in the direction of the arrow to remove it.



3. Turn the rear fog lamp bulb in the direction of the arrow to remove it.



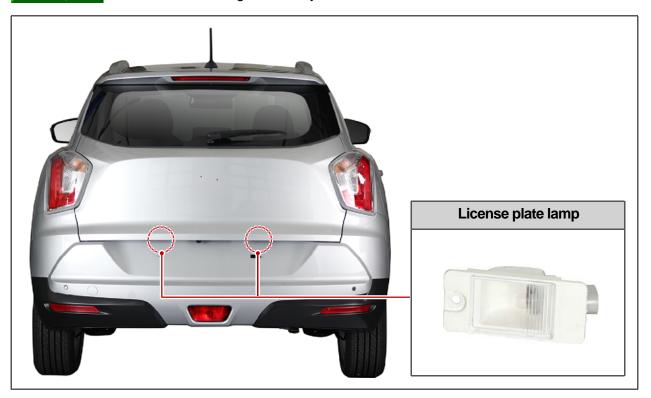
4. Install the new bulb in the reverse order of removal.

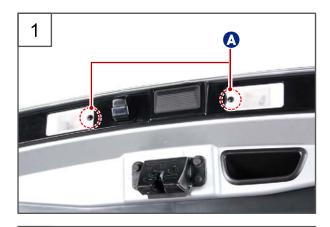
Modification basis	
Application basis	
Affected VIN	

8320-10 LICENSE PLATE LAMP ASSEMBLY

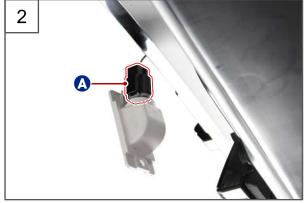
Preceding work

- Disconnect the negative battery cable.





1. Remove the mounting screws (A) for the license plate lamps from the tailgate rear garnish.



2. Disconnect the license plate lamp assembly connector (A).



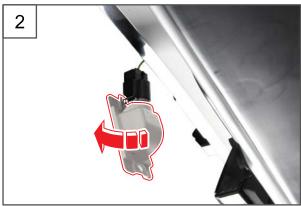
3. Remove the license plate lamp assembly.



▶ Replacement of license plate lamp bulb



1. Remove the mounting screws (A) for the license plate lamps from the tailgate rear garnish.



2. Turn the license plate lamp bulb socket in the direction of the arrow to remove the license plate lamp lens.



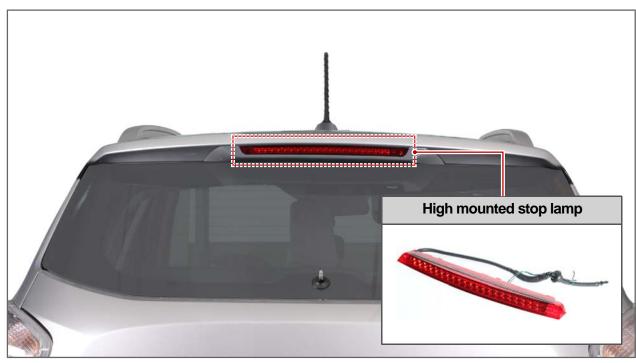
3. Remove the license plate lamp bulb.



4. Install the new bulb in the reverse order of removal.

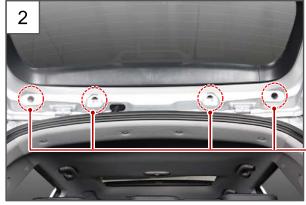
8320-16 HIGH MOUNTED STOP LAMP ASSEMBLY

1) For a Vehicle With Rear Spoiler





1. Remove the 4 blind plugs after opening the tailgate.



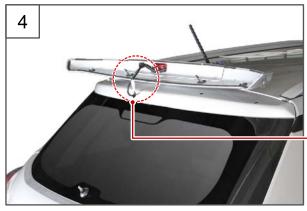
2. Remove the 4 rear spoiler mounting nuts (10 mm).



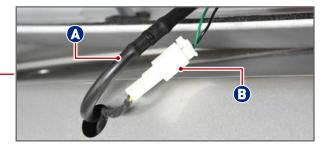
ŀ	Modification basis	
	Application basis	
	Affected VIN	



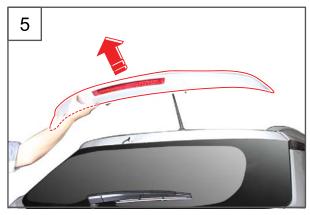
3. Swing the rear spoiler up.



4. Disconnect the rear washer hose (A) and the high mounted stop lamp connector (B).



5. Remove the rear spoiler.



Rear spoiler

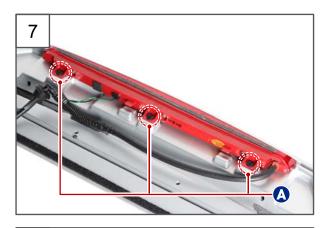
6. Remove the high mounted cover fitted to the rear spoiler.



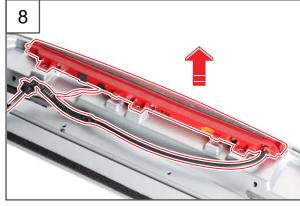
High-mounted cover

LAMP
TIVOLI 2015.03

Modification basis	
Application basis	
Affected VIN	



7. Unscrew the 3 mounting screws for the high mounted stop lamp.

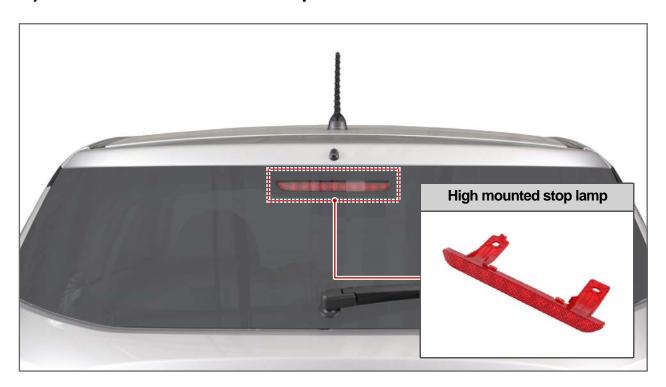


8. Remove the high mounted stop lamp from the rear spoiler.



Modification basis	
Application basis	
Affected VIN	

2) For a Vehicle Without Rear Spoiler

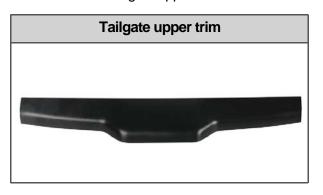




1. Prise apart the tailgate upper trim using a hand remover.

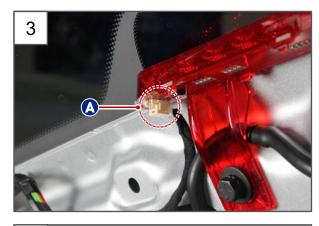


2. Remove the tailgate upper trim.

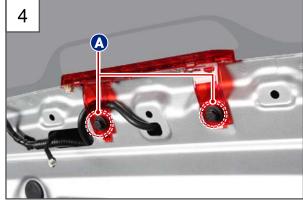


LAMP
TIVOLI 2015.03

Modification basis	
Application basis	
Affected VIN	



3. Disconnect the high mounted stop lamp connector (A).



4. Unscrew the 2 mounting bolts (10 mm) on the high mounted stop lamp.



5. Remove the high mounted stop lamp.



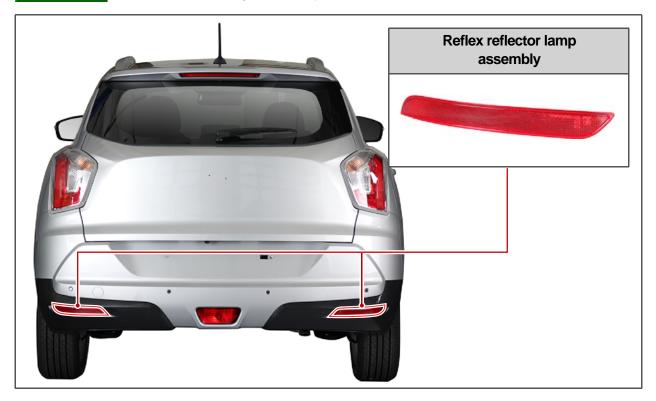
Modification basis	
Application basis	
Affected VIN	

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7880-10 REFLEX REFLECTOR LAMP ASSEMBLY

Preceding work

- Disconnect the negative battery cable.

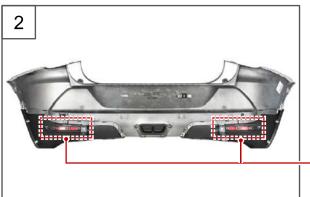




1. Remove the rear bumper.



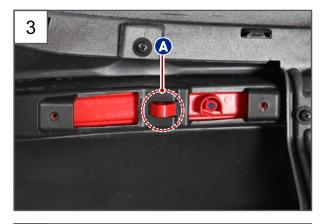
See "REAR BUMPER ASSEMBLY" under "REMOVAL AND INSTALLATION" subsection of "BODY EXTERIOR" in "BODY" chapter.



2. Unscrew the 2 mounting screws on the reflex reflector lamp assembly on each side.



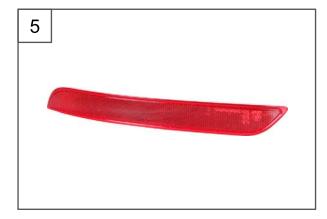
LAMP



3. Press the retaining clip (A) to disengage the reflex reflector lamp assembly.



4. Remove the reflex reflector lamp assembly.

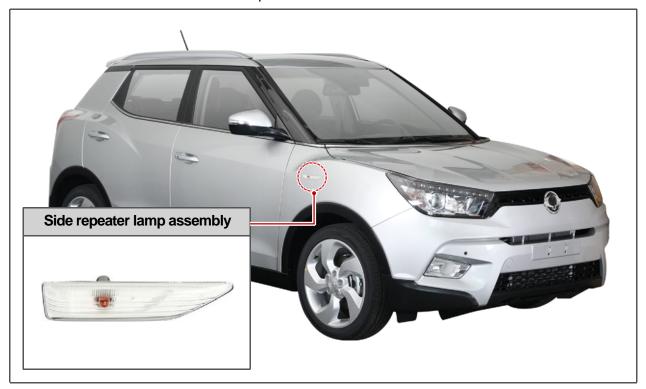


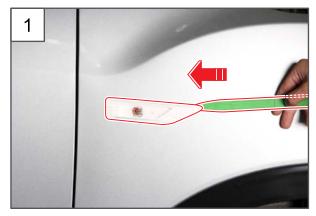
Modification basis	
Application basis	
Affected VIN	

8310-15 SIDE REPEATER LAMP ASSEMBLY

Preceding work

- Disconnect the negative battery cable.
- Remove the rear bumper.





1. Slide the side repeater lamp to the rear side with a hand remover to pry it off.



2. Disconnect the side repeater lamp connector (A).

Modification basis	
Application basis	
Affected VIN	

3

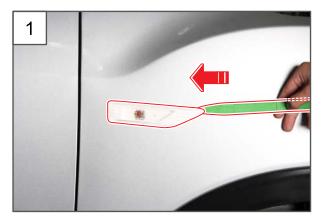
I V O L I

3. Remove the side repeater lamp assembly.



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▶ Replacement of side repeater lamp bulb



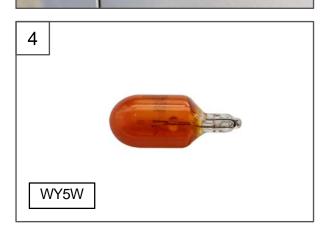
Slide the side repeater lamp to the rear side
 (A) with a hand remover to pry it off.



2. Turn the side repeater lamp lens to remove it.



3. Remove the side repeater lamp.



4. Install the new bulb in the reverse order of removal.

7770-20 OVERHEAD CONSOLE SWITCH ASSEMBLY

Preceding work

- Disconnect the negative battery cable.





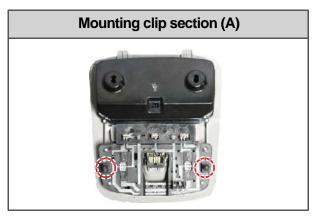


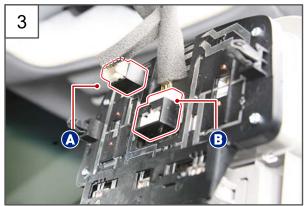
1. Unscrew the 2 mounting bolts (10 mm) on the overhead console.



2. Detach the overhead console by disengaging the clips (A).

Modification basis	
Application basis	
Affected VIN	





3. Disconnect the front room lamp connector (A) and the sunroof switch connector (B).



4. Remove the overhead console switch assembly.



▶ Replacement of front room lamp bulb



1. Prise apart the front room lamp bulb lens using a flat-bladed screwdriver.



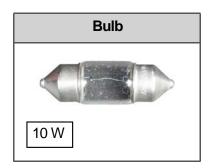
2. Remove the front room lamp bulb lens.



3. Remove the front room lamp bulb.



4. Install the new bulb in the reverse order of removal.



Modification basis	
Application basis	
Affected VIN	

8610-01 CENTER ROOM LAMP ASSEMBLY

Preceding work - Disconnect the negative battery cable.





1. Prise apart the center room lamp bulb lens using a flat-bladed screwdriver.



2. Unscrew the 2 mounting screws for the center room lamp.



3. Disengage the center room lamp assembly and disconnect the connector (A).



4

4. Remove the center room lamp assembly.



Modification basis	
Application basis	
Affected VIN	

▶ Replacement of center room lamp bulb



1. Prise apart the center room lamp bulb lens using a flat-bladed screwdriver.



2. Remove the center room lamp bulb lens.



3. Remove the center room lamp bulb.



4. Install the new bulb in the reverse order of removal.

Bulb
10 W

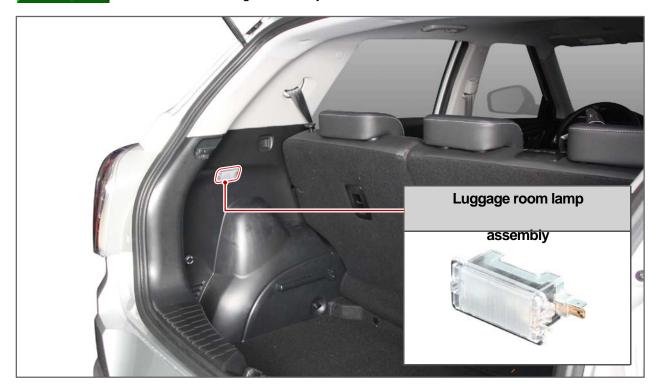
LAMP
TIVOLI 2015.03

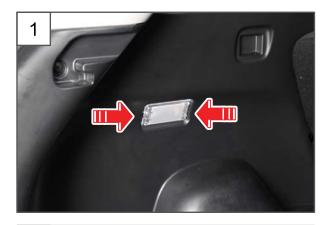
Modification basis	
Application basis	
Affected VIN	

LUGGAGE ROOM LAMP ASSEMBLY

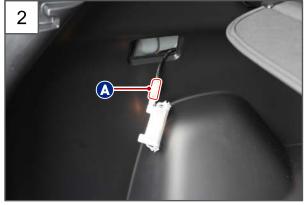
Preceding work

- Disconnect the negative battery cable.





1. Pry off the points indicated by the arrows to pull out the luggage room lamp assembly.



2. Disconnect the luggage room lamp assembly connector (A).

Modification basis	
Application basis	
Affected VIN	

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3. Remove the luggage room lamp assembly.



► Replacement of luggage room lamp bulb



1. Pry off the points indicated by the arrows to pull out the luggage room lamp assembly.



2. Remove the luggage room lamp bulb.



3

3. Install the new bulb in the reverse order of removal.

Modification basis	
Application basis	
Affected VIN	

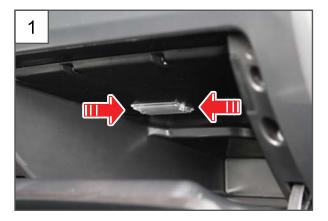
5 W

8610-04 GLOVE BOX LAMP

Preceding work

- Disconnect the negative battery cable.





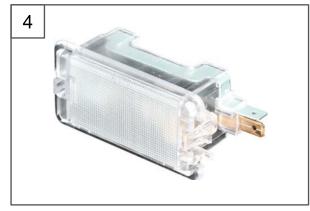
1. Pry off the points indicated by the arrows to pull out the glove box lamp assembly.



2. Disconnect the glove box lamp assembly connector (A).



3. Remove the glove box lamp.



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▶ Replacement of glove box lamp bulb



1. Pry off the points indicated by the arrows to pull out the glove box lamp assembly.



2. Remove the glove box lamp.



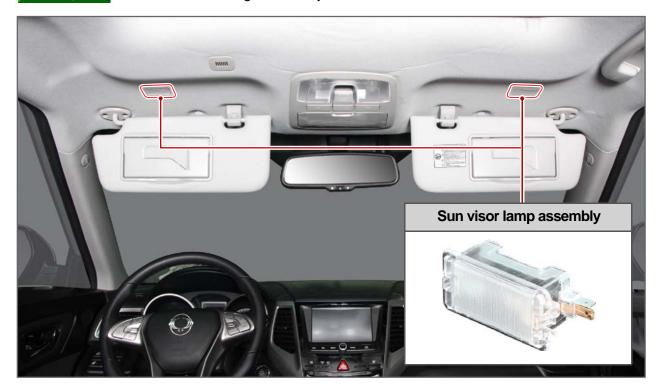
3. Install the new bulb in the reverse order of removal.

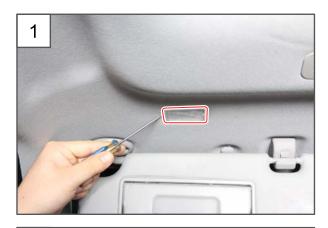


8610-08 SUN VISOR LAMP ASSEMBLY

Preceding work

- Disconnect the negative battery cable.





1. Separate the sun visor lamp assembly from the headlining using a flat-bladed screwdriver.



2. Disconnect the sun visor lamp connector (A).

Modification basis	
Application basis	
Affected VIN	

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3. Remove the sun visor lamp assembly.



▶ Replacement of sun visor lamp bulb



1. Separate the sun visor lamp assembly from the headlining using a flat-bladed screwdriver.



2. Remove the sun visor lamp.



3 5 W

4. Install the new bulb in the reverse order of removal.

Modification basis	
Application basis	
Affected VIN	

0000-00 DOOR COURTESY LAMP ASSEMBLY

Preceding work - Disconnect the negative battery cable.



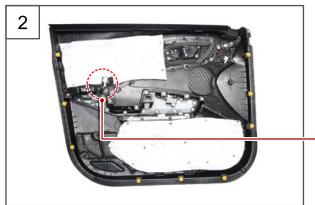


1. Remove the front door trim assembly.

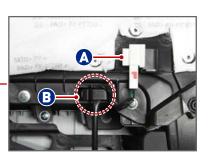


♣ NOTE

Refer to "FRONT DOOR TRIM" under "REMOVAL AND INSTALLATION" subsection of "BODY INTERIOR" section in "BODY" chapter.



2. Prise apart the door courtesy lamp mountings (A) and (B) from the door trim.





3. Turn the door courtesy lamp assembly in the direction of the arrow to remove it.



Modification basis	
Application basis	
Affected VIN	

▶ Replacement of door courtesy lamp bulb



1. Prise apart the front door courtesy lamp lens using a flat-bladed screwdriver.



2. Remove the front door courtesy lamp lens.



3. Press the front door courtesy lamp switch and remove the front door courtesy lamp bulb.



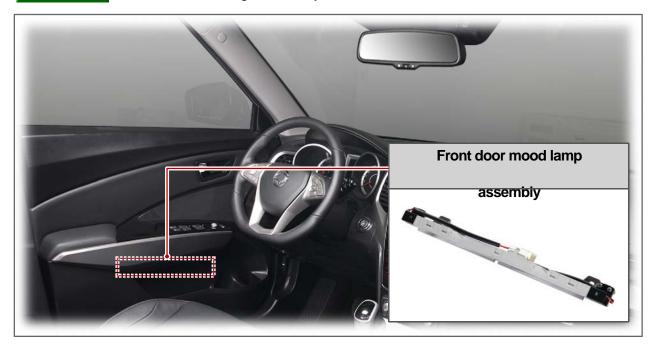
WEDGE 5W

Install the new bulb in the reverse order of removal.

8610-15 FRONT DOOR MOOD LAMP ASSEMBLY

Preceding work

- Disconnect the negative battery cable.

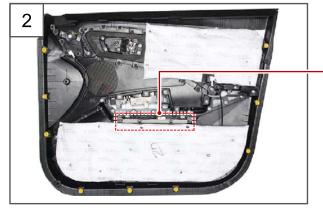




1. Remove the front door trim.

♣ NOTE

Refer to "FRONT DOOR TRIM" under "REMOVAL AND INSTALLATION" subsection of "BODY INTERIOR" section in "BODY" chapter.

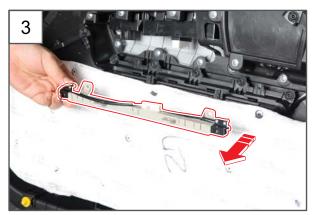


2. Remove the 4 mounting screws (A) for the front door mood lamp.

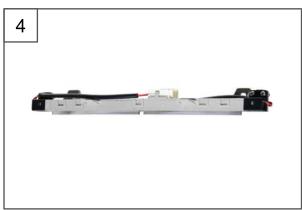


Modification basis	
Application basis	
Affected VIN	

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3. Remove the front door mood lamp assembly.



8610-16 IP CENTER LOWER MOOD LAMP ASSEMBLY

Preceding work

- Disconnect the negative battery cable.







1. Remove the center fascia LH panel by prying off the bottom (A) using a hand remover. (The same method applies to the RH panel.)

A CAUTION

Take care not to damage the fixing clips (5 off) when removing the center fascia LH panel.

Front view	Rear view

Modification basis	
Application basis	
Affected VIN	

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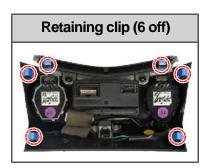


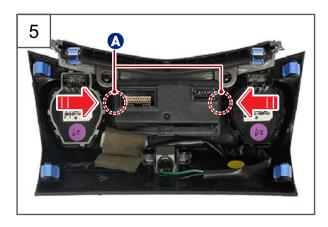
2. Separate the center lower panel using a hand remover.



4

- 3. Disconnect the connector at the rear side of the center lower panel.
 - (A)Driver's seat heater and ventilation switch connector
 - (B)Passenger's seat heater switch connector
 - (C)USB connector
 - (D)HDMI connector
 - (E)IP center lower mood lamp connector
- 4. Remove the center lower panel.





5. Disengage the HDMI jack assembly mountings (A) at the rear side of the center fascia front seat heater switch assembly panel.



6. Remove the HDMI jack assembly.



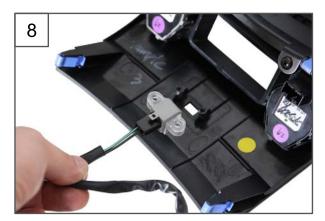


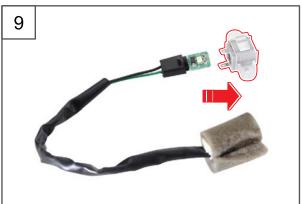
7. Unscrew the 2 mounting screws for the IP center lower mood lamp.



Modification basis	
Application basis	
Affected VIN	

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8. Remove the IP center lower mood lamp assembly.



9. Remove the IP center lower mood lamp lens.

