SECTION INTERIOR LIGHTING SYSTEM

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Precaution for Technicians Using Medical Electric	В
OPERATION PROHIBITION	
 WARNING: Parts with strong magnet is used in this vehicle. Technicians using a medical electric device such as pacemaker must never perform operation on the vehicle, as magnetic field can affect the device function by approaching to such parts. 	С
NORMAL CHARGE PRECAUTION	D
WARNING:	
• If a technician uses a medical electric device such as an implantable cardiac pacemaker or an implantable cardioverter defibrillator, the possible effects on the devices must be checked with the device manufacturer before starting the charge operation.	E
• As radiated electromagnetic wave generated by on board charger at normal charge operation may effect medical electric devices, a technician using a medical electric device such as implantable cardiac pacemaker or an implantable cardioverter defibrillator must not enter the vehicle compartment (including luggage room) during normal charge operation.	F
Precaution at telematics system operation	G
 WARNING: If a technician uses implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), avoid the device implanted part from approaching within approximately 220 mm (8.66 in) from interior/exterior antenna. 	Н
 The electromagnetic wave of TCU might affect the function of the implantable cardiac pacemaker or the implantable cardioverter defibrillator (ICD), when using the service, etc. If a technician uses other medical electric devices than implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), the electromagnetic wave of TCU might affect the function of the device. The possible effects on the devices must be checked with the device manufacturer before TCU use. 	J
Precaution at intelligent key system operation	
WARNING: • If a technician uses implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD),	Κ
avoid the device implanted part from approaching within approximately 220 mm (8.66 in) from inte- rior/exterior antenna.	INL
• The electromagnetic wave of intelligent key might affect the function of the implantable cardiac pacemaker or the implantable cardioverter defibrillator (ICD), at door operation, at each request switch exercises are at engine starting.	-
 If a technician uses other medical electric devices than implantable cardiac pacemaker or implant- able cardioverter defibrillator (ICD), the electromagnetic wave of intelligent key might affect the func- tion of the device. The possible effects on the devices must be checked with the device manufacturer before intelligent key use. 	M
Point to Be Checked Before Starting Maintenance Work	
The high voltage system may starts automatically. It is required to check that the timer air conditioner and timer charge (during EVSE connection) are not set before starting maintenance work.	0
If the timer air conditioner or timer charge (during EVSE connection) is set, the high voltage system starts automatically even when the power switch is in OFF state.	Ρ

Precaution for Removing 12V Battery

When removing the 12V battery, turn ON/OFF the power switch and check that the charging status indicator does not blink. The 12V battery must be removed within one hour after checking the indicator lamp. **NOTE:**

• The automatic 12V battery charge control may start even when the power switch is in OFF state.

INL-3

PRECAUTIONS

< PRECAUTION >

• The automatic 12V battery charge control does not start within approximately one hour when the power switch is turned ON/OFF.

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the power switch ON, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the power switch OFF, disconnect the 12V battery, and wait at least 3 minutes before performing any service.

< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION COMPONENT PARTS

Component Parts Location

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No.	Part	Description	
1.	IPDM E/R	Controls the integrated relay according to the request signal from BCM (via CAN com- munication). Refer to <u>PCS-5</u> , " <u>Component Parts Location</u> " for detailed installation lo- cation.	I
2.	ВСМ	 Activates the interior room lamp timer depending on the vehicle condition to turn the interior room lamps ON/OFF. Operates the interior room lamp battery saver depending on the vehicle condition to cut the interior room lamp power supply. Detects each switch condition by the combination switch reading function. Judges the illumination lamp ON/OFF status depending on the vehicle condition. And then it transmits position light request signal to IPDM E/R and combination meter (with CAN communication). Refer to <u>BCS-5, "BODY CONTROL SYSTEM : Component Parts Location"</u> for detailed installation location. 	J K
3.	Door lock and unlock switch	Refer to DLK-12, "Component Parts Location".	
4.	Front door request switch (driver side)	Refer to DLK-12, "Component Parts Location".	NЛ
5.	Front door lock assembly (driver side) (door key cylinder switch)	Refer to DLK-12, "Component Parts Location".	IVI
6.	Door switch	Refer to DLK-12, "Component Parts Location".	Ν
7.	Back door switch	Refer to DLK-12, "Component Parts Location".	
8.	Luggage room lamp	Refer to INL-6, "Bulb Specifications".	
9.	Room lamp	Refer to INL-6, "Bulb Specifications".	0
10.	Remote keyless entry receiver	Refer to DLK-12, "Component Parts Location".	
11.	Optical sensor	Refer to EXL-6, "Component Parts Location".	P
12.	Map lamp	Refer to INL-6, "Bulb Specifications".	1
13.	Combination meter	Receives the dimmer signal from BCM (via CAN communication) Refer to <u>MWI-6, "METER SYSTEM : Component Parts Location"</u> for detailed installa- tion location.	
14.	Power switch	Refer to DLK-12, "Component Parts Location".	
15.	AV control unit	Receives the dimmer signal from BCM. Refer to <u>AV-10, "Component Parts Location"</u> for detailed installation location.	

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COMPONENT PARTS

< SYSTEM DESCRIPTION >

Bulb Specifications

Item	Туре	Wattage (W)
Map lamp	Wedge	8
Glove box lamp	_	1.4
Room lamp	_	8
Luggege room lamp	_	8

SYSTEM INTERIOR ROOM LAMP CONTROL SYSTEM

INTERIOR ROOM LAMP CONTROL SYSTEM : System Description

SYSTEM DIAGRAM



OUTLINE

- Interior room lamps* are controlled by interior room lamp timer control function of BCM.
- *: Map lamp and room lamp (when map lamp switch and room lamp switch are in DOOR position). • Luggage room lamp is controlled by luggage room lamp control function of BCM.
- Power switch illumination is controlled by the power switch illumination control function of BCM.

INTERIOR ROOM LAMP TIMER CONTROL

Interior Room Lamp Timer Basic Operation



NOTE:

A: Sets the interior room lamp gradual brightening and dimming time.

B: Gradually dims from 100% to 0% and gradually brightens 0% to 100% in 1 second.

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< SYSTEM DESCRIPTION >

- The interior room lamp turns ON and OFF (gradual brightening and dimming) by the interior room lamp timer.
- BCM judges the vehicle condition with the following items. It activates the interior room timer.
- Power switch status
- Door switch signal (except back door)
- Door lock/unlock signal (Remote keyless entry receiver, each door request switch, door lock/unlock switch, door key cylinder switch)

NOTE:

Each function of interior room lamp timer can be set by CONSULT. Refer to <u>INL-18</u>, <u>"INT LAMP : CONSULT Function (BCM - INT LAMP)"</u>.

Interior Room Lamp ON Operation

- BCM always turns the interior room lamp ON when any door opens except back door.
- BCM activates the interior room lamp timer in any of the following conditions to turn the interior room lamp ON for a period of time.
- Status of all doors except back door changes from open to close
- Power switch is turned $\dot{\text{ON}} \rightarrow \text{OFF}$
- Door unlock signal is detected when all doors close except back door with power switch OFF

NOTE:

The timer restarts if new condition is input during the timer operating time.

Interior Room Lamp OFF Operation

BCM stops the timer in any of the following conditions to turn the interior room lamp OFF.

- The timer operating time is expired
- Power switch is turned OFF \rightarrow ACC/ON
- Door lock signal is detected with all doors close except back door.

LUGGAGE ROOM LAMP CONTROL

BCM turns luggage room lamp ON when the following condition is detected.

Back door switch is ON

BCM turns luggage room lamp OFF when the following condition is detected.

Back door switch is OFF

POWER SWITCH ILLUMINATION CONTROL

Power Switch Illumination Basic Operation

BCM provides the power supply to turn the power switch illumination ON.

Power Switch Illumination ON Operation

BCM turns the power switch illumination ON in the following conditions.

- Power switch ON
- Any of the following conditions with power switch OFF/ACC
- Traction motor start permission is entered
- Driver side door is $LOCK \rightarrow UNLOCK$
- Driver side door is open

Power Switch Illumination OFF Operation

BCM turns the power switch illumination OFF in any of the following conditions.

- The push-button power switch illumination ON conditions are not satisfied.
- Any of the following conditions with power switch OFF.
- The power switch illumination ON conditions do not change (15 seconds after the power switch OFF)
- Driver side door is UNLOCK \rightarrow LOCK



INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

< SYSTEM DESCRIPTION >

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Description

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SYSTEM DIAGRAM



OUTLINE

- Interior room lamp battery saver is controlled by BCM.
- BCM turns applicable lamps OFF depending on the vehicle condition. This function prevents the 12V battery from over-discharging if the driver neglects turning OFF the lamps.

Applicable lamps

- Map lamp
- Room lamp
- Luggage room lamp

INTERIOR ROOM LAMP BATTERY SAVER FUNCTION

- When the power switch is turned to other position than ON, BCM operates the timer for a period of time to cut the interior room lamp power supply.
- BCM restarts the timer when any of the following signals changes while operating the timer.
- Power switch status
- Door switch signal (ALL)
- Door lock/unlock signal (remote keyless entry receiver, each door request switch, door lock and unlock switch, door key cylinder switch)
- BCM provides the interior room lamp power supply continuously when the power switch position is ON. **NOTE:**

Each function of interior room lamp battery saver can be set by CONSULT. Refer to <u>INL-19, "BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)"</u>.



ILLUMINATION CONTROL SYSTEM

< SYSTEM DESCRIPTION >

ILLUMINATION CONTROL SYSTEM : System Description

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SYSTEM DIAGRAM



OUTLINE

Each illumination lamp is controlled by each function of BCM and IPDM E/R.

Control by BCM

- Combination switch reading function
- Headlamp control function

Control by IPDM E/R

Relay control function

Control by combination meter

Meter illumination control function (Refer to <u>MWI-31, "METER ILLUMINATION CONTROL : System Description"</u>.)

ILLUMINATION CONTROL

- BCM detects the combination switch condition by the combination switch reading function.
- BCM transmits position light request signal to IPDM E/R and combination meter according to tail lamp ON condition.

Tail lamp ON condition

- Lighting switch 1ST
- Lighting switch 2ND
- Lighting switch AUTO, and the auto light function ON judgment
- Lighting switch AUTO, with the front fog lamp switch ON and the power switch ON
- IPDM E/R turns the integrated tail lamp relay ON according to position light request signal. It provides the power supply to each illumination lamp.
- Combination meter enters in the nighttime mode according to position light request signal. Under the nighttime mode the combination meter controls the illuminance by controlling the each illumination lamp (ground side).

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AUTO LIGHT ADJUSTMENT SYSTEM

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AUTO LIGHT ADJUSTMENT SYSTEM : System Description

SYSTEM DIAGRAM



OUTLINE

Auto light adjustment system is controlled by each function of BCM, combination meter and AV control unit

Control by BCM

- Auto light system
- Auto light adjustment system

AUTO LIGHT ADJUSTMENT SYSTEM

Description

- BCM supplies voltage to the optical sensor when the power switch is turned ON or ACC.
- Optical sensor converts outside brightness (lux) to voltage and transmits the optical sensor signal to BCM.
- BCM judges dimming/brightening of combination meter and display according to brightness outside the vehicle, when power switch is ON.
- BCM transmits dimmer signal to combination meter via CAN communication, according to auto light adjustment conditions. Dimmer signal is also transmitted to AV control unit.

NOTE:

As to dimming/brightening timing, the sensitivity depends on settings. The settings can be changed with CON-SULT. Refer to <u>EXL-25, "HEADLAMP : CONSULT Function (BCM - HEAD LAMP)"</u>.

< SYSTEM DESCRIPTION >





<u>< SYSTEM DESCRIPTION ></u> DIAGNOSIS SYSTEM (BCM) COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

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APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description		
Work Support	hanges the setting for each system function.		
Self Diagnostic Result	Displays the diagnosis results judged by BCM.		
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.		
Data Monitor	The BCM input/output signals are displayed.		
Active Test	The signals used to activate each device are forcibly supplied from BCM.		
Ecu Identification	The BCM part number is displayed.		
Configuration	Read and save the vehicle specification.Write the vehicle specification when replacing BCM.		

SYSTEM APPLICATION

BCM can perform the following functions for each system. **NOTE:**

It can perform the diagnosis modes except the following for all sub system selection items.

×: Applicable item

Quetere	Sub system collection item		Diagnosis mode		
System	Sub system selection item	Work Support	Data Monitor	Active Test	
Door lock	DOOR LOCK	×	×	×	
Rear window defogger	REAR DEFOGGER		×	×	
Warning chime	BUZZER		×	×	
Interior room lamp timer	INT LAMP	×	×	×	
Exterior lamp	HEAD LAMP	×	×	×	
Wiper and washer	WIPER	×	×	×	
Turn signal and hazard warning lamps	FLASHER	×	×	×	
_	AIR CONDITONER*		×	×	
Intelligent Key system	INTELLIGENT KEY	×	×	×	
Combination switch	COMB SW		×		
Body control system	BCM	×			
NVIS - NATS	IMMU	×	×	×	
Interior room lamp battery saver	BATTERY SAVER	×	×	×	
Back door open	TRUNK		×		
Theft warning alarm	THEFT ALM	×	×	×	
RAP system	RETAINED PWR		×		
Signal buffer system	SIGNAL BUFFER		×	×	
TPMS	AIR PRESSURE MONITOR	×	×	×	

*: This item is displayed, but not used.

FREEZE FRAME DATA (FFD)

The BCM records the following vehicle condition at the time a particular DTC is detected, and displays on CONSULT.

< SYSTEM DESCRIPTION >

CONSULT screen item	Indication/Unit	Description			
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected			
Odo/Trip Meter	km	Total mileage (Odomete	r value) of the moment a particular DTC is detected		
	SLEEP>LOCK		While turning BCM status from low power consumption mode to normal mode [Power supply position is OFF (LOCK)]		
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode [Power supply position is OFF (OFF)]		
	LOCK>ACC		While turning power supply position from OFF (LOCK) to ACC		
	ACC>ON		While turning power supply position from ACC to ON		
	RUN>ACC		While turning power supply position from READY (RUN) to ACC (Except emergency stop operation)		
	CRANK>RUN		While turning power supply position from READY (CRANK) to READY (RUN)		
	RUN>URGENT		While turning power supply position from READY (RUN) to ACC (Emergency stop operation)		
	ACC>OFF	Power supply position	While turning power supply position from ACC to OFF (OFF)		
Vehicle Condition	OFF>LOCK	status of the moment a particular DTC is de- tected*	While turning power supply position from OFF (OFF) to OFF (LOCK)		
	OFF>ACC		While turning power supply position from OFF (OFF) to ACC		
	ON>CRANK		While turning power supply position from ON to READY (CRANK)		
	OFF>SLEEP		While turning BCM status from normal mode [Power supply position is OFF (OFF)] to low power consumption mode		
	LOCK>SLEEP		While turning BCM status from normal mode [Power supply posi- tion is OFF (LOCK)] to low power consumption mode		
	LOCK		Power supply position is OFF (LOCK)		
	OFF		Power supply position is OFF (OFF)		
	ACC		Power supply position is ACC		
	ON		Power supply position is ON		
	ENGINE RUN		Power supply position is READY (RUN)		
	CRANKING		Power supply position is READY (CRANK)		
IGN Counter	0 - 39	 The number of times that power switch is turned ON after DTC is detected The number is 0 when a malfunction is detected now. The number increases like 1 → 2 → 338 → 39 after returning to the normal condition whenever power switch OFF → ON. The number is fixed to 39 until the self-diagnosis results are erased if it is over 39. 			
NOTE:	1	1			

*: Refer to the following for details of the power supply position.

• OFF (OFF, LOCK): Power switch OFF

ACC: Power switch ACC

ON: Power switch ON

• READY (CRANK): Shifting to vehicle condition READY (Transmitting the READY signal from BCM to VCM)

READY (RUN): Vehicle condition READY

Power supply position shifts to "OFF (LOCK)" from "OFF (OFF)", when power switch is in the OFF position, shift position is in the P position, and any of the following conditions are met.

Closing door

- Opening door
- Door is locked using door request switch
- Door is locked using Intelligent Key

The power supply position shifts to "ACC" when the power switch (push switch) is pushed at "OFF (LOCK)".

INT LAMP

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< SYSTEM DESCRIPTION >

INT LAMP : CONSULT Function (BCM - INT LAMP)

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WORK SUPPORT



Service item	Setting item	Setting		
		With the i	nterior room lamp timer function	
SET I/E D-ONLER INTCOM	Off	Without the interior room lamp timer function		
	MODE 2	7.5 sec.		
ROOM LAMP TIMER SET	MODE 3 [*]	15 sec.	Sets the interior room lamp ON time. (Timer operating time)	
	MODE 4	30 sec.		
	MODE 1	0.5 sec.		
	MODE 2	1 sec.	Sets the interior room lamp gradual brightening time.	
	MODE 3	2 sec.	Setting cannot be returned to setting at shipment if it is	
ROOM LAMP ON TIME SET	MODE 4	3 sec.	changed once.	
	MODE 5	0 sec.		
	Factory setting	Gradually brightens from 0% to 100% brightness in 1 second.		
	MODE 1	0.5 sec.		
	MODE 2	1 sec.	Sets the interior room lamp gradual dimming time.	
	MODE 3	2 sec.	Setting cannot be returned to setting at shipment if it is	
ROOM LAMP OFF TIME SET	MODE 4	3 sec.	changed once.	
	MODE 5	0 sec.		
	Factory setting	Gradually dims from 100% to 0% in 1 second.		
	MODE 1*	Interior room lamp timer activates with synchronizing all doors.		
R LAWF HIVER LOGIC 321	MODE 2	Interior room lamp timer activates with synchronizing the driver door only.		

*: Factory setting

DATA MONITOR

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	The switch status input from request switch (driver side)
REQ SW-AS [On/Off]	The switch status input from request switch (passenger side)

< SYSTEM DESCRIPTION >

Monitor item [Unit]	Description	А
REQ SW-RR [On/Off]	NOTE:	
REQ SW-RL [On/Off]	The item is indicated, but not monitored.	В
PUSH SW [On/Off]	The switch status input from power switch	С
UNLK SEN -DR [On/Off]	Driver door unlock status input unlock sensor	
DOOR SW-DR [On/Off]	The switch status input from front door switch (driver side)	D
DOOR SW-AS [On/Off]	The switch status input from front door switch (passenger side)	E
DOOR SW-RR [On/Off]	The switch status input from rear door switch RH	
DOOR SW- RL [On/Off]	The switch status input from rear door switch LH	F
DOOR SW- BK [On/Off]	The switch status input from back door switch	G
CDL LOCK SW [On/Off]	Lock switch status input from door lock and unlock switch	
CDL UNLOCK SW [On/Off]	Unlock switch status input from door lock and unlock switch	Н
KEY CYL LK-SW [On/Off]	Lock switch status received from door key cylinder switch	I
KEY CYL UN-SW [On/Off]	Unlock switch status received from door key cylinder switch	
TRNK/HAT MNTR [On/Off]	NOTE: The item is indicated, but not monitored.	J
RKE-LOCK [On/Off]	Lock signal status received from remote keyless entry receiver	K
RKE-UNLOCK [On/Off]	Unlock signal status received from remote keyless entry receiver	N

ACTIVE TEST

Test item	Operation	Description	•
INT LAMP	On	Outputs the interior room lamp control signal to turn the interior room lamps ON. [Map lamp, room lamp (when applicable lamps switch is in DOOR position.)]	-
	Off	Stops the interior room lamp control signal to turn the interior room lamps OFF.	_
STED I AMD TEST	On	NOTE:	1
STEP LAWF TEST	Off	The item is indicated, but can not tested	

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

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WORK SUPPORT

Service item	Setting item		Setting
	MODE 1	30 min.	
ROOM LAMP TIMER SET	MODE 2	60 min.	Sets the interior room lamp battery saver timer operating time
	MODE 3 [*]	15 min.	

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< SYSTEM DESCRIPTION >

Service item	Setting item	Setting
BATTERY SAVER SET	On [*]	With the exterior lamp battery saver function
	Off	Without the exterior lamp battery saver function

*:Factory setting

DATA MONITOR

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	The switch status input from request switch (driver side)
REQ SW-AS [On/Off]	The switch status input from front request switch (passenger side)
REQ SW-RR [On/Off]	NOTE:
REQ SW-RL [On/Off]	The item is indicated, but not monitored.
PUSH SW [On/Off]	The switch status input from power switch
UNLK SEN-DR [On/Off]	Driver door unlock status input unlock sensor
DOOR SW-DR [On/Off]	The switch status input from front door switch (driver side)
DOOR SW-AS [On/Off]	The switch status input from front door switch (passenger side)
DOOR SW-RR [On/Off]	The switch status input from rear door switch RH
DOOR SW- RL [On/Off]	The switch status input from rear door switch LH
DOOR SW- BK [On/Off]	The switch status input from back door switch
CDL LOCK SW [On/Off]	Lock switch status input from door lock and unlock switch
CDL UNLOCK SW [On/Off]	Unlock switch status input from door lock and unlock switch
TRNK/HAT MNTR [On/Off]	NOTE: The item is indicated, but not monitored
KEY CYL LK-SW [On/Off]	Lock switch status received from door key cylinder switch
KEY CYL UN-SW [On/Off]	Unlock switch status received from door key cylinder switch
RKE-LOCK [On/Off]	Lock signal status received from remote keyless entry receiver
RKE-UNLOCK [On/Off]	Unlock signal status received from remote keyless entry receiver

ACTIVE TEST

Test item	Operation	Description
	Off	Cuts the interior room lamp power supply to turn interior room lamps OFF.
BATTERT SAVER	On	Outputs the interior room lamp power supply to turn interior room lamps ON.*

*: Each lamp switch is in ON position.

< ECU DIAGNOSIS INFORMATION > ECU DIAGNOSIS INFORMATION BCM

List of ECU Reference

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ECU	Reference	C
	BCS-32, "Reference Value"	
RCM	BCS-52, "Fail-safe"	
BCM	BCS-53. "DTC Inspection Priority Chart"	D
	BCS-54, "DTC Index"	

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WIRING DIAGRAM

INTERIOR ROOM LAMP CONTROL SYSTEM

Wiring Diagram



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JCLWA4757GB

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JCLWA4758GB

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JCLWA4759GB

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JCLWA4760GB

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ILLUMINATION

Wiring Diagram





Revision: 2010 November



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< WIRING DIAGRAM >



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< WIRING DIAGRAM >



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< WIRING DIAGRAM >



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HuZARD SW Connector No. M10 BK DOOR OFEVER SW Connector Name BCM (BODY CONTROL MODULE) ORBIS SW OUTPUT 4 Connector Name BCM (BODY CONTROL MODULE) COMBI SW OUTPUT 4 Connector Name BCM (BODY CONTROL MODULE) COMBI SW OUTPUT 4 Connector Name BCM (BODY CONTROL MODULE) COMBI SW OUTPUT 3 Connector Name BCM (BODY CONTROL MODULE) COMBI SW OUTPUT 1 Connector Name BCM (BODY CONTROL MODULE) COMPIL SW OUTPUT 1 CONNEL SW OUTPUT 1 MA COMPIL SW OUTPUT 1 CONNEL SW OUTPUT 1 MA COMPIL SW OUTPUT 1 CONNEL SW OUTPUT 1 MA COMPIL SW OUTPUT 1 CONNEL SW OUTPUT 1 MA CAN-H CONNEL SW OUTPUT 1 MA	Mini Color Signal Name (Specification) Min Color Signal Name (Specification) Box (EOOY CONTROL MODULE) 7 Color Branci Roopi (Altri Specification) Box (EOOY CONTROL MODULE) 7 Color Dimeri Song (Altri Specification) Box (EOOY CONTROL MODULE) 7 Color Matri Specification) Dimeri Song (Altri Specification) Box (EOOY CONTROL MODULE) 7 Color Matri Specification) Dimeri Specification) Box (EO) Box (Altri Specification) Dimeri Specification) Dimeri Specification) Bix (FIC) Min (Specification) Dimeri Specification) Dimeri Specification) Min Robult Ame (Specification) Dimeri Robult Americation Dimeri Robult Americation Min Robult Americation Dimeri Robult Americation Dimeri Robult Americation Min Robult Americation Dimeri Robult Americation Dimeri Robult Americation Min Robult Americation Dimerication Dimerication Min Robult Americation Dimerication Dimerication Min Robult Americation Dimerication Dimerication Min Robult Americation
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Revision: 2010 November

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BASIC INSPECTION DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000006922561





DETAILED FLOW **1.**INTERVIEW FOR MALFUNCTION

Interview the symptom to the customer.

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >
>> GO TO 2.
2.SYMPTOM CHECK
Check the symptom from the customer's information.
>> GO TO 3. 3 PASIC INSPECTION
Check the operation of each part. Check that any symptom easure other than the interviewed symptom
Check the operation of each part. Check that any symptom occurs other than the interviewed symptom.
>> GO TO 4.
4.SELF-DIAGNOSIS WITH CONSULT
Perform the self-diagnosis with CONSULT. Check that any DTC is detected.
Is any DTC detected?
YES >> GO TO 5. NO >> GO TO 6
5. TROUBLE DIAGNOSIS BY DTC
Perform the trouble diagnosis for the detected DTC. Specify the malfunctioning part.
>> GO TO 9.
6.FAIL-SAFE ACTIVATION CHECK
Check that the symptom is applied to the fail-safe activation.
Does the fail-safe activate?
YES >> GO TO 7. NO >> GO TO 8.
7.SYSTEM DIAGNOSIS
Perform the system diagnosis for the system that the fail-safe activates. Specify the malfunctioning part.
>> GO TO 9.
8.SYMPTOM DIAGNOSIS
Perform the symptom diagnosis. Specify the malfunctioning part.
9 MALEUNCTION PART REPAIR
Repair or replace the malfunctioning part
Repair of replace the manufactioning part.
>> GO TO 10.
10. REPAIR CHECK (SELF-DIAGNOSIS WITH CONSULT)
Perform the self-diagnosis with CONSULT. Check that any DTC is not detected. Erase DTC if DTC is detected before the repair. Check that DTC is not detected again.
Is any DTC detected?
YES >> GO TO 5.
11. REPAIR CHECK (OPERATION CHECK)
Check the operation of each part
Does it operate normally?
YES >> INSPECTION END

NO >> GO TO 3.

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

Description

Provides the interior room lamp power supply. Also cuts the power supply when the interior room lamp battery saver is activating.

Component Function Check

1.CHECK INTERIOR ROOM LAMP POWER SUPPLY FUNCTION

CONSULT ACTIVE TEST

- 1. Turn power switch ON.
- 2. Turn each interior room lamp ON.
- Map lamp
- Room lamp
- Luggage room lamp
- 3. Select "BATTERY SAVER" of BCM (BATTERY SAVER) active test item.
- 4. With operating the test items, check that each interior room lamp turns ON/OFF.

Off : Interior room lamp OFF

On : Interior room lamp ON

Does each interior room lamp turn ON/OFF?

- YES >> Interior room lamp power supply circuit is normal.
- NO >> Refer to INL-42, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:000000006922564

1.CHECK INTERIOR ROOM LAMP POWER SUPPLY OUTPUT

CONSULT ACTIVE TEST

- 1. Turn power switch OFF.
- 2. Disconnect the following connectors.
- Map lamp
- Room lamp
- Luggage room lamp
- 3. Turn power switch ON.
- 4. Select "BATTERY SAVER" of BCM (BATTERY SAVER) active test item.
- 5. With operating the test item, check voltage between BCM harness connector and ground.

B	CM				Maltana
(+)	(—)	Test	item	Voltage (Approx.)
Connector	Terminal				
Meg	56	Ground	BATTERY SAVER	Off	0 V
1009	50	Giodila	BATTERT SAVER	On	12 V

Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 3.

2.CHECK INTERIOR ROOM LAMP POWER SUPPLY OPEN CIRCUIT

1. Turn power switch OFF.

- 2. Disconnect the BCM connector.
- 3. Check continuity between BCM harness connector and each interior room lamp harness connector.

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INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

BC	,IVI	Each Ir	iterior room lamp		Continuity
Connector	Terminal	Connect	or	Terminal	Continuity
		Map lamp	R4	6	
M69	56	Room lamp	R5	2	Existed
		Luggage room lamp	B11	1	
YES >> Check NO >> Repai CHECK INTER Turn power sv Disconnect th	<pre> for internal sl r or replace ha liOR ROOM L witch OFF. e BCM conneg uity between B </pre>	hort circuit of each interior arnesses. AMP POWER SUPPLY S ctor.	r room lamp.		
	BCM				
Connec	tor	Terminal	Ground		Continuity
M69		56			Not existed
<u>s the inspection re</u>	esult normal?	r toPCS 76 "Pomoval on	d Installation"		
<u>s the inspection r</u> YES >> Repla NO >> Repai	esult normal? ice BCM. Refe ir or replace ha	r to <u>BCS-76. "Removal an</u> arnesses.	ud Installation" .		

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INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL CIRCUIT

Description

Controls each interior room lamp (ground side) by PWM signal. **NOTE:** PWM signal control period is approximately 250 Hz (in the gradual brightening/dimming).

Component Function Check

CAUTION:

Before performing the diagnosis, check that the following is normal.

- Interior room lamp power supply
- Map lamp bulb
- Room lamp bulb

1.CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

CONSULT ACTIVE TEST

- 1. Switch the map lamp switch and room lamp switch to DOOR.
- 2. Turn power switch ON.
- 3. Select "INT LAMP" of BCM (INT LAMP) active test item.
- 4. With operating the test items, check that each interior room lamp turns ON/OFF (gradual brightening/dimming).

On : Interior room lamp gradual brightening

Off : Interior room lamp gradual dimming

Does the interior room lamp turns ON/OFF (gradual brightening/dimming)?

- YES >> Interior room lamp control circuit is normal.
- NO >> Refer to INL-44, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

(E)CONSULT ACTIVE TEST

- 1. Turn power switch OFF.
- 2. Remove all the bulbs of map lamp and room lamp.
- 3. Turn power switch ON.
- 4. Select "INT LAMP" of BCM (INT LAMP) active test item.
- 5. With operating the test item, check continuity between BCM harness connector and ground.

_	B	СМ		Tost itom		Continuity
	Connector	Terminal	Ground	Ground On	Continuity	
	Meo	63	Giodila		On	Existed
	MOS	05			Off	Not existed

Is the inspection result normal?

YES >> GO TO 2.

Fixed ON>>GO TO 3.

Fixed OFF>>Replace BCM. Refer to <u>BCS-76. "Removal and Installation"</u>.

2. CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

1. Turn power switch OFF.

- 2. Disconnect BCM connector, map lamp and room lamp connectors.
- 3. Check continuity between BCM harness connector and map lamp harness connector.

В	СМ	Мар	lamp	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M69	63	R4	5	Existed

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INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

4. Check continuity between BCM harness connector and room lamp harness connector.

					A
B	BCM Room lamp		Continuity		
Connector	Terminal	Connector	Terminal	Continuity	
M69	63	R5	1	Existed	В

Is the inspection result normal?

YES >> Replace map lamp or room lamp.

NO >> Repair or replace harnesses.

3. check interior room lamp control short circuit

1. Turn power switch OFF.

- 2. Disconnect BCM connector, map lamp connector and room lamp connector.
- 3. Check continuity between BCM harness connector and ground.

					F
-	B	CM		Continuity	
-	Connector	Terminal	Ground	Continuity	
-	M69	63		Not existed	F

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-76, "Removal and Installation".

NO >> Repair or replace harnesses.

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< DTC/CIRCUIT DIAGNOSIS >

LUGGAGE ROOM LAMP CIRCUIT

Description

Controls the luggage room lamp (ground side) to turn the luggage room lamp ON and OFF.

Diagnosis Procedure

CAUTION:

Before performing the diagnosis, check that the following is normal.

- Interior room lamp power supply
- Luggage room lamp bulb

1.CHECK LUGGAGE ROOM LAMP OUTPUT

- 1. Turn power switch OFF.
- 2. Remove the luggage room lamp bulb.

3. Check continuity between BCM harness connector and ground.

BCM			Condition		Continuity	
Connector	Terminal	Ground	Condition		Continuity	
P10	40	Ground	Back door	Open	Existed	
ВТО	49			Closed	Not existed	

Is the inspection result normal?

YES >> GO TO 2.

Fixed ON>>GO TO 3.

Fixed OFF>>Replace BCM. Refer to <u>BCS-76, "Removal and Installation"</u>.

2. CHECK LUGGAGE ROOM LAMP OPEN CIRCUIT

1. Disconnect BCM connector.

2. Check continuity between BCM harness connector and luggage room lamp harness connector.

BCM		Luggage	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
B10	49	B11	2	Existed

Is the inspection result normal?

YES >> Replace luggage room lamp.

NO >> Repair or replace harnesses.

 ${\it 3.}$ check luggage room lamp short circuit

1. Disconnect BCM connector.

2. Check continuity between BCM harness connector and ground.

BC	CM		Continuity
Connector	Terminal	Ground	Continuity
B10	49		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-76, "Removal and Installation"</u>.

NO >> Repair or replace harnesses.

INFOID:000000006922568

POWER SWITCH ILLUMINATION CIRCUIT

< DTC		AGNOSIS >							
POV	VER SVVI		INATI	ON CI	RCUII				А
Desc	cription							INFOID:000000006922570	
Provic	les the power	supply and the g	ground to	o control	the power s	witch illumina	tion.		В
Com	ponent Fur	nction Check						INFOID:000000006922571	
1.сн	IECK POWER	SWITCH ILLUN	ΛΙΝΑΤΙΟ	N OPER	ATION				С
CO 1. Tu 2. So 3. W	NSULT ACTIN urn the power elect "ENGINE /ith operating t	/E TEST switch ON. E SW ILLUMI" of the test items, ch	[:] BCM (II neck that	NTELLIG t the pow	ENT KEY) a er switch illu	active test iter imination turn	n. Is ON/OFF.		D
	On : Po	ower switch illu	iminatio	n ON					Ε
	Off : P	ower switch illu	iminatio	n OFF					
Does YES NO	<u>the power swi</u> >> Power s >> Refer to	tch illumination t switch illumination INL-47, "Diagnetics	urn ON/ on circuit osis Proc	<u>OFF?</u> is norma <u>cedure"</u> .	al.				F
Diag	nosis Proc	edure						INFOID:000000006922572	G
1.сн	IECK POWER	SWITCH ILLUN	/INATIO	N POWE	R SUPPLY	OUTPUT			
1. Tu 2. D 3. C	urn power swi isconnect pow heck voltage b	tch OFF. /er switch conne petween power s	ctor. switch ha	irness co	nnector and	ground.			H
	(+	·)						Voltago	1
	Power	switch	(-)		Condition		(Approx.)	1
	Connector	Ierminal					ON	12 V	J
	M25	5	Gro	ound	Power switch	illumination -	OFF	0 V	12
<u>Is the</u> YES NO 2. CH	inspection res >> GO TO >> GO TO IECK POWER urn the power isconnect BCI	sult normal? 4. 2. SWITCH ILLUN switch OFF. M connector.		N POWE	ER SUPPLY		UIT	nostor	INL
3. U	neck continuit	y between BCIVI	narness	connect	or and the p	ower switch r	narness con	inector.	
		BCM			Power	switch		Continuity	Ν
	Connector M70	Termin	al	Co	M25	Termina	al	Evisted	
<u>Is the</u>	inspection res	sult normal?				5		EXISTOR	0
YES NO 3. CH Check	>> GO TO >> Repair IECK POWER	3. or replace harne SWITCH ILLUN tween BCM harr	sses. /INATIO ness con	N POWE	R SUPPLY	SHORT CIRC	CUIT		Ρ
		BCM							
	Connector		Termina	al		Ground		Continuity	
	M70		90					Not existed	

POWER SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-76, "Removal and Installation"</u>.

NO >> Repair or replace harnesses.

4. CHECK POWER SWITCH ILLUMINATION GROUND CIRCUIT

1. Turn the power switch OFF.

2. Check continuity between power switch harness connector and ground.

Power	switch		Continuity
Connector	Terminal	Ground	Continuity
M25	6	-	Existed

Is the inspection result normal?

YES >> Replace power switch.

NO >> Repair or replace harnesses.

INTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

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CAUTION:

Perform the self-diagnosis with CONSULT before the symptom diagnosis. Perform the trouble diagnosis if any DTC is detected.

Symptom	Possible cause	Inspection item
All the following lamps do not turn ON. Map lamp Room lamp Luggage room lamp 	 Harness between BCM and each interior room lamp BCM 	Interior room lamp power supply cir- cuit Refer to <u>INL-42</u> .
 Interior room lamp does not turn ON even though the door is open. (It turns ON when turning the interior room lamp ON.) Interior room lamp does not turn OFF even though the door is closed. 	 Harness between BCM and each door switch Harness between BCM and each interior room lamp BCM 	Door switch circuit Refer to <u>DLK-92</u> . Interior room lamp control circuit Refer to <u>INL-44</u> .
Interior room lamp timer does not activate. (It turns ON/ OFF when the door opens/closes.)	_	Check the interior room lamp setting. Refer to INL-18.
 Luggage room lamp does not turn ON even though the back door is open. Luggage room lamp does not turn OEE even 	 Harness between BCM and back door switch Harness between BCM and lug- 	Back door switch circuit Refer to <u>DLK-92</u> .
though the back door is closed.	gage room lamp BCM 	Refer to <u>INL-46</u> .
Power switch illumination does not illuminate.	Harness between BCM and power switchBCM	Power switch illumination circuit Refer to INL-47.
Interior room lamp battery saver does not activate.	BCM	Replace BCM. Refer to <u>BCS-76</u> .

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< REMOVAL AND INSTALLATION > REMOVAL AND INSTALLATION MAP LAMP

Exploded View

INFOID:000000006922574



Pawl ز___

1.

4.

: Metal clip

Removal and Installation

CAUTION:

• Disconnect the 12V battery negative terminal or remove power circuit fuse while performing the operation to electric leakage.

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< REMOVAL AND INSTALLATION >

- Never touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Never touch the glass surface of the bulb with bare hands because the surface is very hot just after the lamp is turned OFF to prevent a burns.

REMOVAL

2.

1. Remove the lens.

Disengage lens fixing pawls with a remover tool (A). CAUTION:

Apply protective tape (B) on the parts to protect it from damage.

1. Disengage lamp unit fixing pawls with a remover tool (A).

/ヘ、: Pawl



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🕂 : Pawl

Remove the lamp unit.

- 2. Disconnect harness connector, and then remove lamp unit.
- Remove the headlining. Refer to <u>INT-29, "Removal and Installation".</u>
- 4. Disengage map lamp assembly fixing pawls, and then remove map lamp assembly.

A : Pawl



INSTALLATION

Install in the reverse order of removal.

Replacement

INFOID:000000006922576

CAUTION:

- Ρ Disconnect the 12V battery negative terminal or remove power circuit fuse while performing the operation to electric leakage.
- · Never touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Never touch the glass surface of the bulb with bare hands because the surface is very hot just after the lamp is turned OFF to prevent a burns.

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MAP LAMP

< REMOVAL AND INSTALLATION >

• Leaving the bulb removed from housing for a long period of time can deteriorate performance of the lens and reflector (causing dirty or clouding). Always prepare a new bulb and have it on hand when replacing the bulb.

MAP LAMP BULB

- 1. Remove the lens.
- 2. Remove the bulb.

< REMOVAL AND INSTALLATION >

GLOVE BOX LAMP

Exploded View

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Glove box assembly 1.

∠___ : Pawl

<□ : Vehicle front

Replacement

CAUTION:

- Disconnect the 12V battery negative terminal or remove power circuit fuse while performing the operation to electric leakage.
- · Never touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Never touch the glass surface of the bulb with bare hands because the surface is very hot just after the lamp is turned OFF to prevent a burns.
- Leaving the bulb removed from housing for a long period of time can deteriorate performance of the Ν lens and reflector (causing dirty or clouding). Always prepare a new bulb and have it on hand when replacing the bulb.

GLOVE BOX LAMP BULB

1. Remove glove box assembly. Refer to IP-13, "Removal and Installation".

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GLOVE BOX LAMP

< REMOVAL AND INSTALLATION >

2. Rotate the bulb & socket assembly counterclockwise and unlock it and then remove bulb & socket assembly.



< REMOVAL AND INSTALLATION > **ROOM LAMP**

Exploded View

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Removal and Installation

CAUTION:

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4.

- Disconnect the 12V battery negative terminal or remove power circuit fuse while performing the Ρ operation to electric leakage.
- Never touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Never touch the glass surface of the bulb with bare hands because the surface is very hot just after the lamp is turned OFF to prevent a burns.

REMOVAL

< REMOVAL AND INSTALLATION >

 Disengage lens fixing pawls with a remover tool (A), and then remove lens.
 CAUTION:

Apply protective tape (B) on the parts to protect it from damage

八:Pawl



- 2. Using a remover tool (A), press the metal clip (B), and then disengage.
- 3. Pull downward and then disengage the room lamp mounting pawls.

CAUTION:

Be careful not to disengage the pawls forcibly. Doing so may cause damage to the headliner by pawls that are fully engaged to the headliner.

Δ	: Pawl
[]	: Metal clip

4. Disconnect the harness connector, and then remove room lamp assembly.

INSTALLATION

Install in the reverse order of removal.

Replacement

CAUTION:

- Disconnect the 12V battery negative terminal or remove power circuit fuse while performing the operation to electric leakage.
- Never touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Never touch the glass surface of the bulb with bare hands because the surface is very hot just after the lamp is turned OFF to prevent a burns.
- Leaving the bulb removed from housing for a long period of time can deteriorate performance of the lens and reflector (causing dirty or clouding). Always prepare a new bulb and have it on hand when replacing the bulb.

ROOM LAMP BULB

 Disengage lens fixing pawls with a remover tool (A), and then remove lens.
 CAUTION:

Apply protective tape (B) on the parts to protect it from damage.

∴ : Pawl

2. Remove the bulb.

Revision: 2010 November





LUGGAGE ROOM LAMP

< REMOVAL AND INSTALLATION >

LUGGAGE ROOM LAMP

Exploded View

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- کے : Pawl

Removal and Installation

CAUTION:

Disconnect the 12V battery negative terminal or remove power circuit fuse while performing the operation to electric leakage.

REMOVAL

Disengage luggage room lamp fixing pawl with a remover tool 1.

(A). **CAUTION:**

Apply protective tape (B) on the parts to protect it from damage.





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LUGGAGE ROOM LAMP

< REMOVAL AND INSTALLATION >

2. Disconnect harness connector, and then remove luggage room lamp.

INSTALLATION

Install in the reverse order of removal.

Replacement

INFOID:000000006922584

CAUTION:

- Disconnect the 12V battery negative terminal or remove power circuit fuse while performing the operation to electric leakage.
- Never touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Never touch the glass surface of the bulb with bare hands because the surface is very hot just after the lamp is turned OFF to prevent a burns.
- Leaving the bulb removed from housing for a long period of time can deteriorate performance of the lens and reflector (causing dirty or clouding). Always prepare a new bulb and have it on hand when replacing the bulb.

LUGGAGE ROOM LAMP BULB

- 1. Remove luggage room lamp assembly. Refer to INL-57, "Removal and Installation".
- 2. Disengage shade fixing pawls with a remover tool (A), and then remove shade.

∠___ : Pawl



3. Remove the bulb.

SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS) SERVICE DATA AND SPECIFICATIONS (SDS)

Bulb Specifications

INFOID:00000006922585 B

Item	Туре	Wattage (W)	_
Map lamp	Wedge	8	_ (
Glove box lamp		1.4	_
Room lamp	_	8	[
Luggege room lamp	_	8	_

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