

# SECTION **INL**

## INTERIOR LIGHTING SYSTEM

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# PRECAUTIONS

< PRECAUTION >

## PRECAUTION

### PRECAUTIONS

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

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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:**

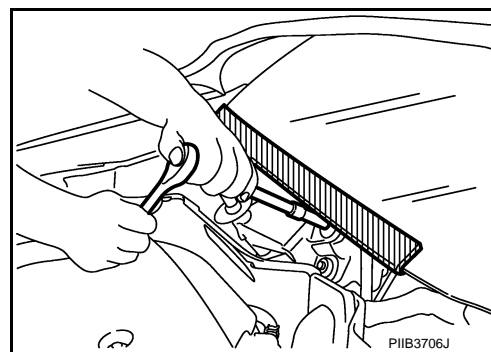
Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, 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 ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

#### Precaution for Procedure without Cowl Top Cover

INFOID:000000011518248

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc to prevent damage to windshield.



## PRECAUTIONS

### < PRECAUTION >

#### Precautions for Removing Battery Terminal

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- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

**NOTE:**

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

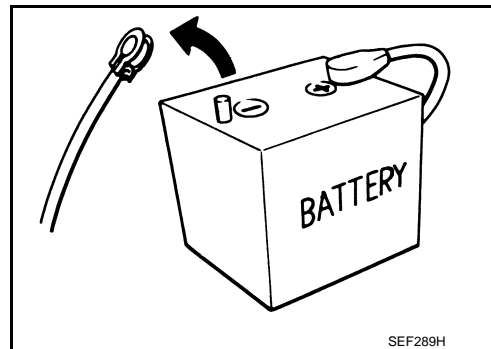
**NOTE:**

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

**NOTE:**

The removal of 12V battery may cause a DTC detection error.



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## COMPONENT PARTS

< SYSTEM DESCRIPTION >

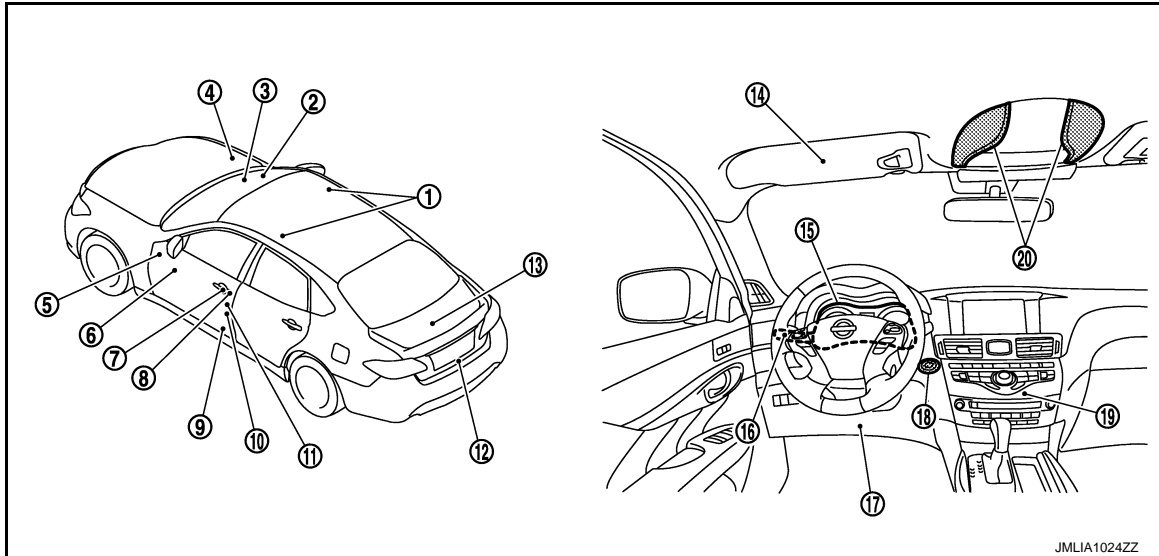
### SYSTEM DESCRIPTION

#### COMPONENT PARTS

#### INTERIOR LIGHTING SYSTEM

#### INTERIOR LIGHTING SYSTEM : Component Parts Location

INFOID:0000000011256418



- |   |  |                                 |
|---|--|---------------------------------|
| 1. Personal lamp*   | 2. Remote keyless entry receiver<br>Refer to <a href="#">DLK-10, "DOOR LOCK SYSTEM : Component Parts Location"</a> . | 3. Optical sensor               |
| 4. IPDM E/R<br>Refer to <a href="#">PCS-5, "IPDM E/R : Component Parts Location"</a> .  | 5. BCM<br>Refer to <a href="#">BCS-4, "BODY CONTROL SYSTEM : Component Parts Location"</a> .                         | 6. Door lock and unlock switch  |
| 7. Outside handle lamp  | 8. Front door request switch (driver side)   | 9. Step lamp                    |
| 10. Door switch   | 11. Front door lock assembly (driver side) (door key cylinder switch, unlock sensor)                                 | 12. Trunk closure assembly      |
| 13. Trunk room lamp   | 14. Vanity mirror lamp   | 15. Combination meter           |
| 16. Combination switch  | 17. Foot lamp  | 18. Push-button ignition switch |
| 19. AV control unit <ul style="list-style-type: none"><li>• Base audio without navigation:<br/>Refer to <a href="#">AV-13, "Component Parts Location"</a>.</li><li>• BOSE audio with navigation: Refer to <a href="#">AV-150, "Component Parts Location"</a>.</li></ul> | 20. Map lamp   |                                 |

\*: With personal lamp.

#### INTERIOR LIGHTING SYSTEM : Component Description

INFOID:0000000011256419

Part	Description
BCM	Controls the interior lighting system.
IPDM E/R	Controls the integrated relay according to the request signal from BCM (via CAN communication).
Remote keyless entry receiver	Receives the lock/unlock signal from Intelligent Key.

## COMPONENT PARTS

### < SYSTEM DESCRIPTION >

Part	Description
Combination switch (Lighting & turn signal switch)	Refer to <a href="#">BCS-7, "COMBINATION SWITCH READING SYSTEM : System Description"</a> .
<ul style="list-style-type: none"><li>• Door lock and unlock switch</li><li>• Door request switch</li><li>• Door key cylinder switch</li></ul>	Inputs the lock/unlock signal to BCM.
Door switch	Inputs the door switch signal to BCM.
Trunk closure assembly	Inputs the trunk lid open/close status signal to BCM.
Unlock sensor	Detects door lock condition of driver side door.
Optical sensor	Refer to <a href="#">EXL-12, "Optical Sensor"</a> .

# SYSTEM

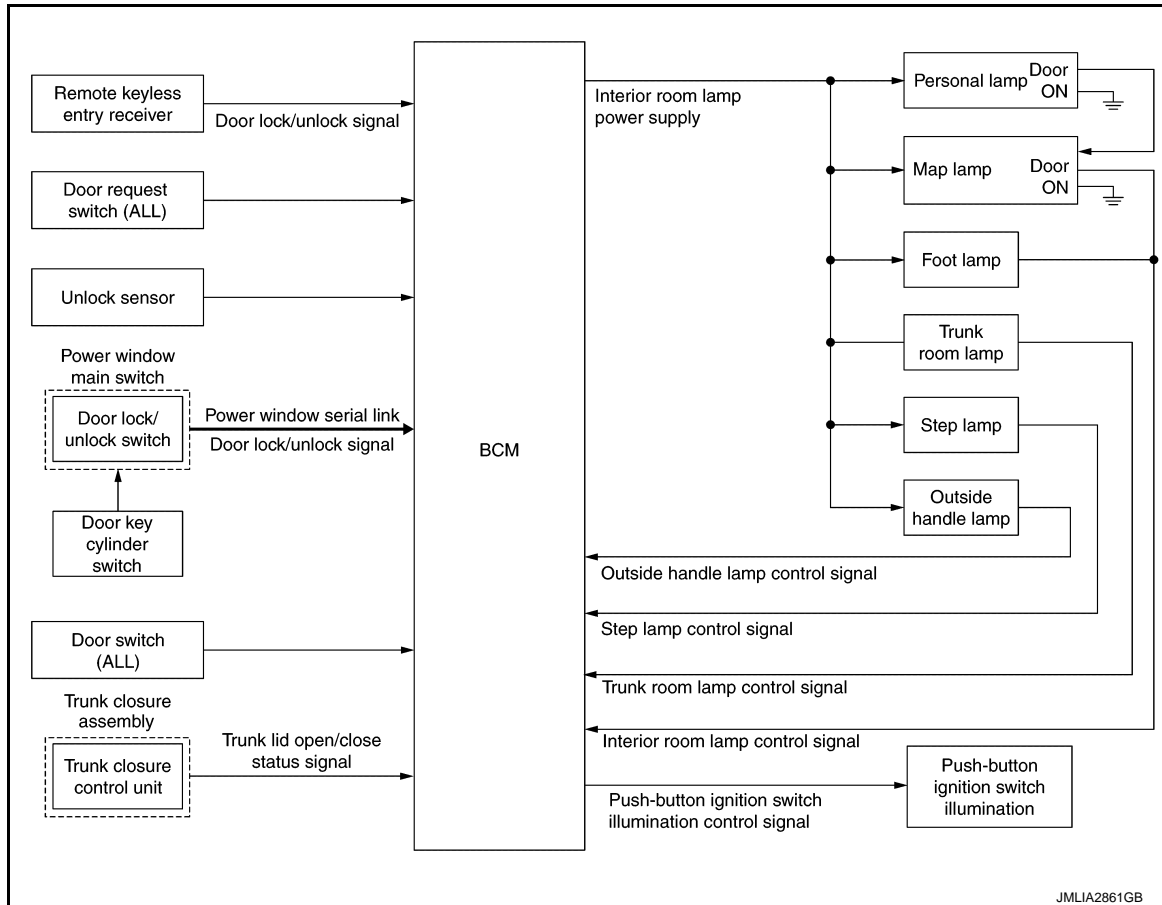
< SYSTEM DESCRIPTION >

## SYSTEM

### INTERIOR ROOM LAMP CONTROL SYSTEM

#### INTERIOR ROOM LAMP CONTROL SYSTEM : System Diagram

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#### INTERIOR ROOM LAMP CONTROL SYSTEM : System Description

INFOID:0000000011256421

##### OUTLINE

- Interior room lamps\* are controlled by interior room lamp timer control function of BCM.  
\*: Map lamp, foot lamp and personal lamp (when map lamp switch and personal lamp switch are in DOOR position).
- Step lamp is controlled by step lamp control function of BCM.
- Trunk room lamp is controlled by trunk room lamp control function of BCM.
- Outside handle lamp is controlled by outside handle lamp timer control function of BCM.
- Push-button ignition switch illumination is controlled by the push-button ignition switch illumination control function of BCM.
- Interior room lamps and outside handle lamp are illuminated by welcome light function of Intelligent Key system. Refer to [DLK-25. "WELCOME LIGHT FUNCTION : System Description"](#).

##### INTERIOR ROOM LAMP TIMER CONTROL

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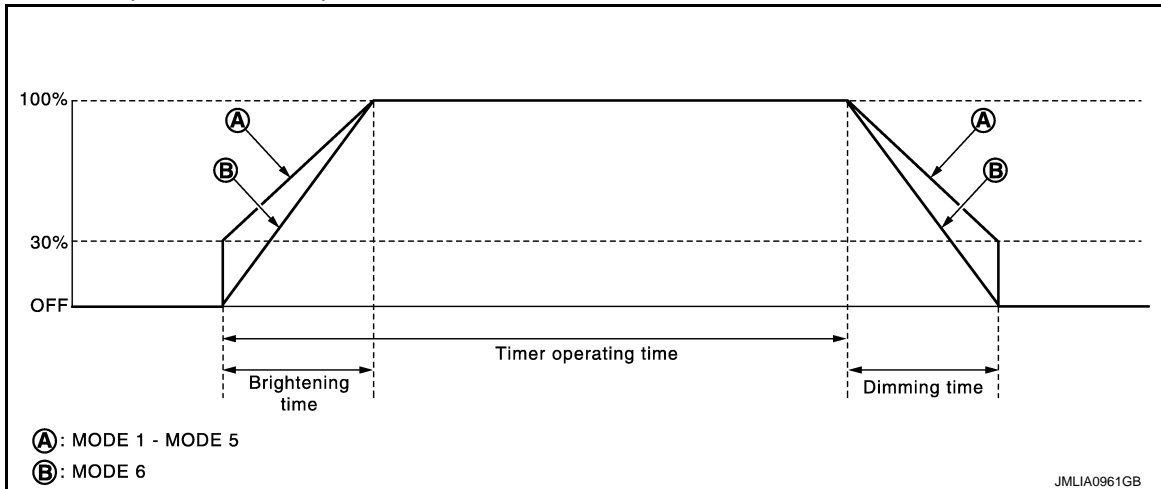
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# SYSTEM

## < SYSTEM DESCRIPTION >

### 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.

- 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.
  - Ignition switch status
  - Door switch signal
  - Door lock/unlock signal (Remote keyless entry receiver, each door request switch, door key cylinder switch, door lock/unlock switch)

#### NOTE:

Each function of interior room lamp timer can be set by CONSULT. Refer to [INL-15, "INT LAMP : CONSULT Function \(BCM - INT LAMP\)"](#).

#### Interior Room Lamp ON Operation

- BCM always turns the interior room lamp ON when any door opens.
- When all doors are closed, and any all door unlock operation is performed or ignition switch is turned OFF, BCM brightens interior room lamp to 30% brightness and maintains 30% brightness until any door opens.
- BCM activates the interior room timer in any of the following conditions to turn the interior room lamp ON for a period of time.
  - Any door opens before all doors close.
  - Ignition switch is turned ON → OFF.
  - Any door unlock signal is detected when all doors close with ignition switch OFF.

#### NOTE:

The timer is restarted 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 turns the interior room lamp OFF.

- The interior room lamp timer operating time is expired with all doors closed.
- Ignition switch position is other than OFF with all doors close.
- Any door lock operation is detected with all doors close.

#### TRUNK ROOM LAMP CONTROL

BCM controls the trunk room lamp (ground-side) to turn ON when trunk lid is open.

#### STEP LAMP CONTROL

BCM controls the step lamp (ground-side) to turn ON with any door switch ON.

#### OUTSIDE HANDLE LAMP TIMER CONTROL

##### Outside Handle Lamp Timer Basic Operation

- BCM controls the ground to turn the outside handle lamp ON.
- The outside handle lamp turns ON and OFF by the outside handle lamp timer.
- BCM judges the vehicle condition with the following items. It activates the outside handle lamp timer.
  - Ignition switch status
  - Door switch signal
  - Door lock/unlock signal (remote keyless entry receiver, each door request switch)



# SYSTEM

## < SYSTEM DESCRIPTION >

- Driver side door lock status

Outside Handle Lamp ON Operation

BCM activates the outside handle lamp timer in any of the following conditions to turn the outside handle lamp ON for a period of time.

- Any door opens.
- Any door opens before all doors close.
- Ignition switch is turned ON → OFF.
- Door unlock signal by remote keyless entry receiver or each door request switch is detected.
- Driver side door is locked

### NOTE:

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

Outside Handle Lamp OFF Operation

BCM stops the timer in any of the following conditions to turns the outside handle lamp OFF.

- The outside handle lamp timer operating time is expired.
- The interior room lamp OFF conditions.
- The interior room lamp timer operating time is expired.

## PUSH-BUTTON IGNITION SWITCH ILLUMINATION CONTROL

Push-button Ignition Switch Illumination Basic Operation

BCM controls the ON/OFF status of push-button ignition switch illumination according to vehicle status.

Heart Beat Operation

BCM repeats brightening and dimming operation of push-button ignition switch illumination when any of the following conditions are satisfied.

- Welcome light function operates.
- When ignition switch is OFF and any of the following conditions are satisfied.
  - Driver door changes from closed to open
  - Intelligent Key ID comparison is OK and driver side door changes from open to closed
  - ID comparison by Intelligent Key transponder is OK
  - Driver door is unlocked

Illumination ON Operation

When ignition switch is change from OFF to ON, push-button ignition switch illumination turns ON.

Dimming Operation

When ignition switch is change from ON to OFF, driver side is open and driver side door unlocked, push-button ignition switch illumination dims to 50% brightness.

Illumination OFF Operation

Push-button ignition switch illumination turns OFF when ignition switch turns OFF, while push-button ignition switch illumination is in ON status.

When push-button ignition switch illumination is at 50% brightness or, when in heartbeat status any of the following conditions are satisfied, push-button ignition switch illumination turns OFF.

- Driver side door from unlock to lock.
- 15 seconds after start of heartbeat operation.
- When welcome light function is not operating and any on the following conditions is satisfied.
  - Driver side door is closed
  - Intelligent Key ID comparison is NG
  - Comparison of Intelligent Key ID by transponder is NG

## INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

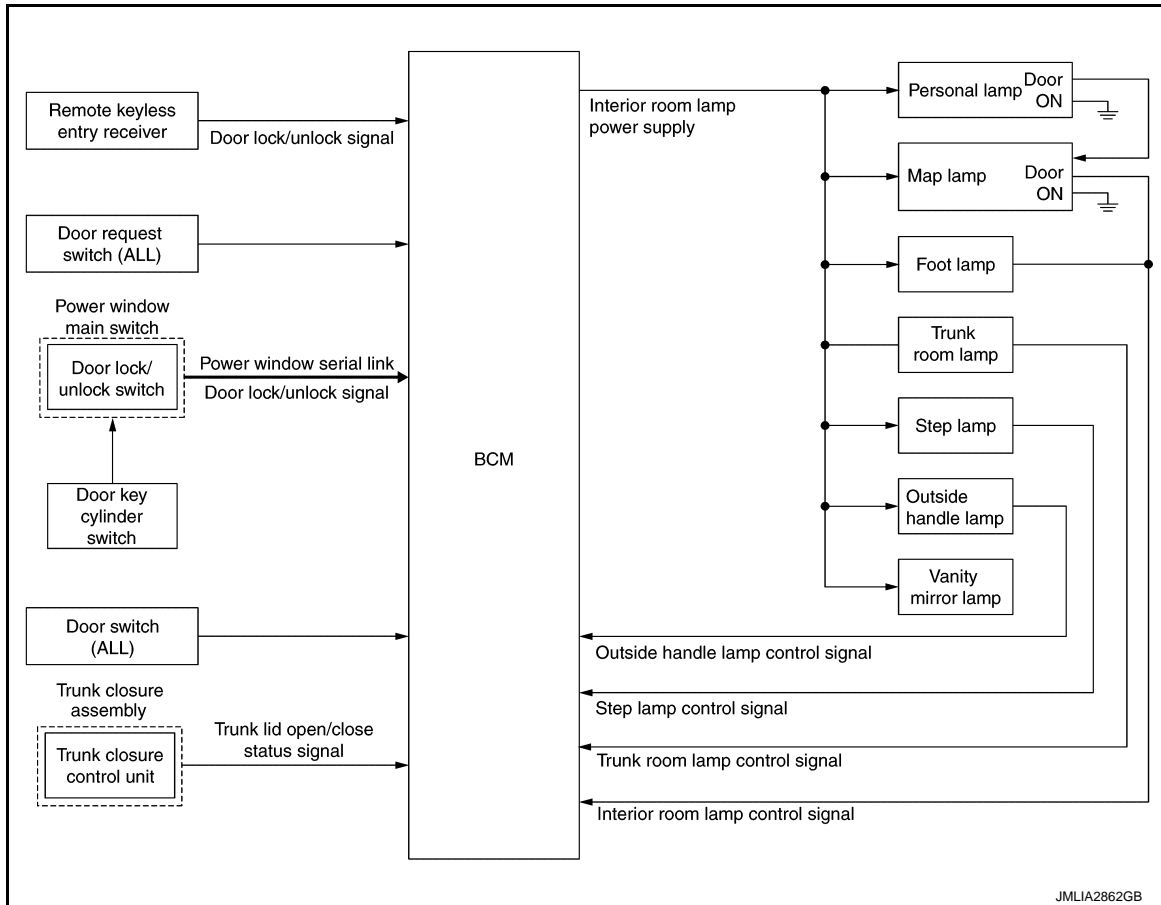
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# SYSTEM

< SYSTEM DESCRIPTION >

## INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Diagram

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## INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Description

INFOID:0000000011256423

### OUTLINE

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

### Applicable lamps

- Map lamp
- Personal lamp
- Foot lamp
- Trunk room lamp
- Step lamp
- Outside handle lamp
- Vanity mirror lamp

### INTERIOR ROOM LAMP BATTERY SAVER FUNCTION

- When the ignition switch is turned is other position than ON, BCM operates the timer for a period of time to cut the interior room lamp power supply.
- BCM restart the timer when any of the following signals changes while operating the timer.
  - Ignition switch status
  - Door switch signal (ALL)
  - Trunk lid open/close status signal
  - 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 ignition switch position is ON.
- When welcome light function operates.

### NOTE:

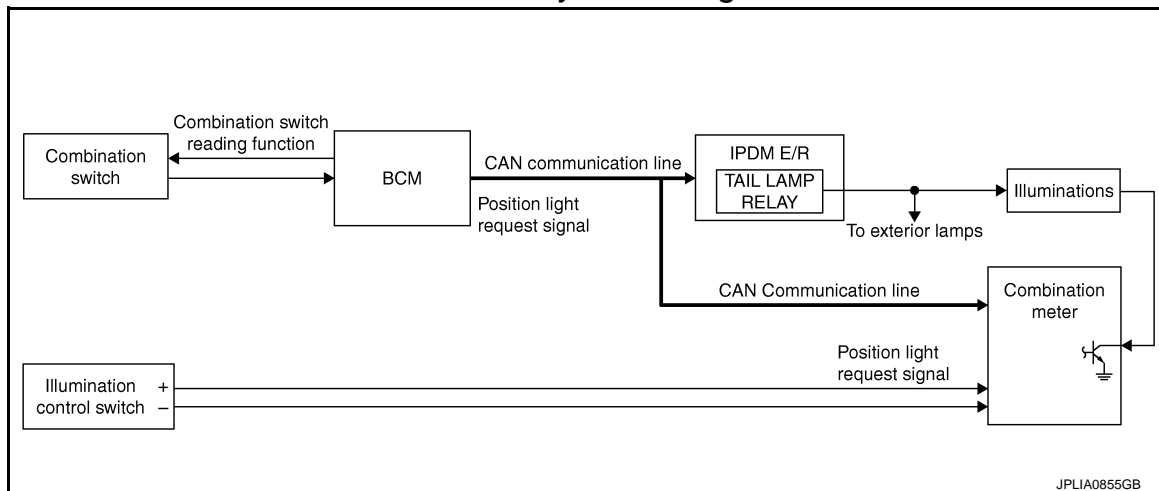
# SYSTEM

## < SYSTEM DESCRIPTION >

Each function of interior room lamp battery saver can be set by CONSULT. Refer to [INL-16. "BATTERY SAVER : CONSULT Function \(BCM - BATTERY SAVER\)"](#).

## ILLUMINATION CONTROL SYSTEM

### ILLUMINATION CONTROL SYSTEM : System Diagram



### ILLUMINATION CONTROL SYSTEM : System Description

INFOID:0000000011256425

#### 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 [MWI-16. "METER ILLUMINATION CONTROL : System Description"](#).)

#### 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 (With auto light system)
- 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).

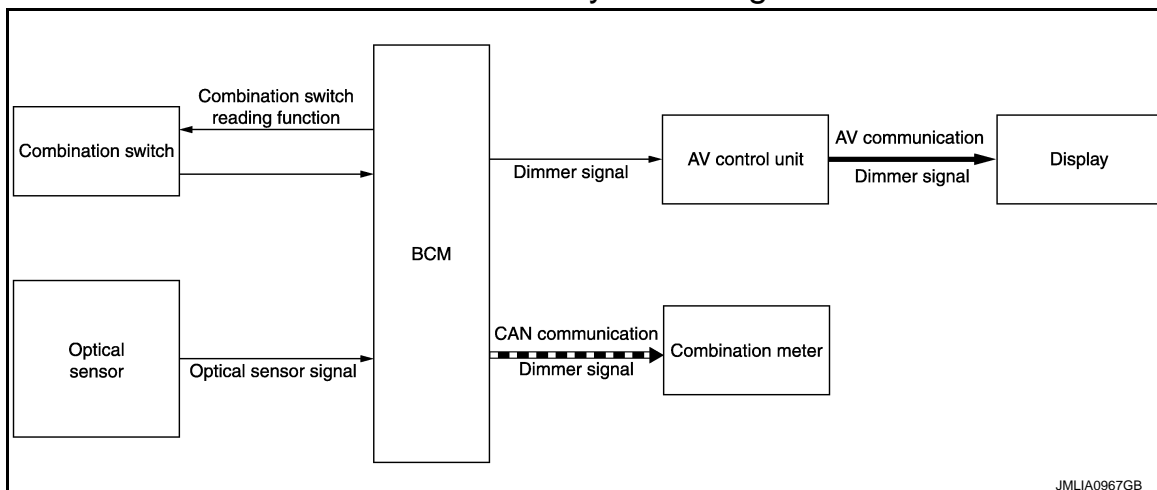
## AUTO LIGHT ADJUSTMENT SYSTEM

# SYSTEM

## < SYSTEM DESCRIPTION >

### AUTO LIGHT ADJUSTMENT SYSTEM : System Diagram

INFOID:000000011256426



### AUTO LIGHT ADJUSTMENT SYSTEM : System Description

INFOID:000000011256427

#### 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 ignition switch is turned ON or ACC.
- Optical sensor converts outside brightness (lux) to voltage and transmits the optical sensor signal to BCM.
- BCM judges dims/brightness of combination meter and display according to brightness outside the vehicle, when ignition 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 dims/brightness timing, the sensitivity depends on settings. The settings can be changed with CONSULT. Refer to [EXL-26. "HEADLAMP : CONSULT Function \(BCM - HEAD LAMP\)".](#)

Auto Light Adjustment Timing Table

When the ignition switch is ON, the combination meter and display turns dims/brightness in the following condition.

Combination meter and display	Dims/brightness timing
Dims	Outside brightness is 1250 lx or less for 3 seconds or more.
Brightness	Outside brightness is 2500 lx or more for 5 seconds or more.

BCM turns combination meter and display dims when outside brightness obtained from the optical sensor signal is 1250 lx or less for 3 seconds or more. And BCM turns combination meter and display brightness when outside brightness from the optical sensor signal is 2500 lx or more for 5 seconds or more.

# DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

## 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	Changes 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	<ul style="list-style-type: none"> <li>Read and save the vehicle specification.</li> <li>Write the vehicle specification when replacing BCM.</li> </ul>

### 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

System	Sub system selection item	Diagnosis mode		
		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*		×	×
<ul style="list-style-type: none"> <li>Intelligent Key system</li> <li>Engine start system</li> </ul>	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
IVIS - NATS	IMMU	×	×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Trunk lid open	TRUNK		×	
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
—	AIR PRESSURE MONITOR*	×	×	×

\*: This item is 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.

# DIAGNOSIS SYSTEM (BCM)

## < 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 (Odometer value) of the moment a particular DTC is detected	
Vehicle Condition	SLEEP>LOCK	Power position status of the moment a particular DTC is detected*	While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK"*)
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)
	LOCK>ACC		While turning power supply position from "LOCK" *to "ACC"
	ACC>ON		While turning power supply position from "ACC" to "IGN"
	RUN>ACC		While turning power supply position from "RUN" to "ACC" (Vehicle is stopping and selector lever is except P position.)
	CRANK>RUN		While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)
	RUN>URGENT		While turning power supply position from "RUN" to "ACC" (Emergency stop operation)
	ACC>OFF		While turning power supply position from "ACC" to "OFF"
	OFF>LOCK		While turning power supply position from "OFF" to "LOCK"*
	OFF>ACC		While turning power supply position from "OFF" to "ACC"
	ON>CRANK		While turning power supply position from "IGN" to "CRANKING"
	OFF>SLEEP		While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply position is "LOCK"*) to low power consumption mode
	LOCK		Power supply position is "LOCK" (Ignition switch OFF with steering is locked.)*
	OFF		Power supply position is "OFF" (Ignition switch OFF with steering is unlocked.)
	ACC		Power supply position is "ACC" (Ignition switch ACC)
	ON		Power supply position is "IGN" (Ignition switch ON with engine stopped)
	ENGINE RUN		Power supply position is "RUN" (Ignition switch ON with engine running)
	CRANKING		Power supply position is "CRANKING" (At engine cranking)
IGN Counter	0 - 39	The number of times that ignition switch is turned ON after DTC is detected <ul style="list-style-type: none"> <li>• The number is 0 when a malfunction is detected now.</li> <li>• The number increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON.</li> <li>• The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.</li> </ul>	

### NOTE:

\*: Power supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever 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 push-button ignition switch (push switch) is pushed at "LOCK".

### INT LAMP

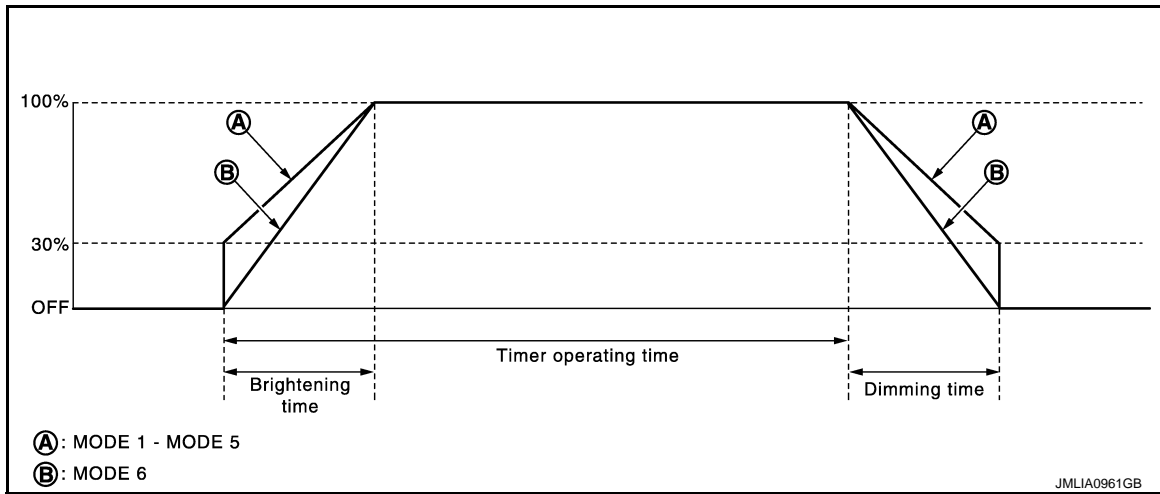
# DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

## INT LAMP : CONSULT Function (BCM - INT LAMP)

INFOID:0000000011256429

### WORK SUPPORT



Service item	Setting item	Setting	
SET I/L D-UNLCK INTCON	On*	With the interior room lamp timer function	
	Off	Without the interior room lamp timer function	
ROOM LAMP TIMER SET	MODE 2	7.5 sec.	Sets the interior room lamp ON time. (Timer operating time)
	MODE 3*	15 sec.	
	MODE 4	30 sec.	
ROOM LAMP ON TIME SET	MODE 1	0.5 sec.	Sets the interior room lamp gradual brightening time.
	MODE 2	1 sec.	
	MODE 3	2 sec.	
	MODE 4	3 sec.	
	MODE 5	0 sec.	
	MODE 6*	Gradually brightens from 0% to 100% brightness in 1 second.	
ROOM LAMP OFF TIME SET	MODE 1	0.5 sec.	Sets the interior room lamp gradual dimming time.
	MODE 2	1 sec.	
	MODE 3	2 sec.	
	MODE 4	3 sec.	
	MODE 5	0 sec.	
	MODE 6*	Gradually dims from 100% to 0% in 1 second.	
R LAMP TIMER LOGIC SET	MODE 1*	Interior room lamp timer activates with synchronizing all doors.	
	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)

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
REQ SW-RR [On/Off]	<b>NOTE:</b> The item is indicated, but not monitored.
REQ SW-RL [On/Off]	
PUSH SW [On/Off]	Push switch status input from push-button ignition switch
UNLK SEN -DR [On/Off]	Driver door unlock status input from 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]	<b>NOTE:</b> The item is indicated, but not monitored.
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
KEY CYL LK-SW [On/Off]	Lock switch status received from key cylinder lock/unlock switch
KEY CYL UN-SW [On/Off]	Unlock switch status received from key cylinder lock/unlock switch
TRNK/HAT MNTR [On/Off]	Trunk lid open/close status received from trunk closure assembly
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
INT LAMP	On	Outputs the interior room lamp control signal to turn the interior room lamps ON. [Map lamp, personal lamp, foot lamp (when applicable lamps switch is in DOOR position.)]
	Off	Stops the interior room lamp control signal to turn the interior room lamps OFF.
STEP LAMP TEST	On	Outputs the step lamp control signal to turn the step lamps ON.
	Off	Stops the step lamp control signal to turn the step lamps ON.

## BATTERY SAVER

### BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

INFOID:0000000011256430

## WORK SUPPORT



# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Service item	Setting item	Setting	
ROOM LAMP TIMER SET	MODE 1	30 min.	Sets the interior room lamp battery saver timer operating time. <b>NOTE:</b> The factor setting is 10 minutes. The setting cannot be returned to the factory setting, when the setting is changed once.
	MODE 2	60 min.	
	MODE 3	15 min.	
BATTERY SAVER SET	On*	With the exterior lamp battery saver function	
	Off	Without the exterior lamp battery saver function	
IGN BATTERY SAVER SET	MODE 1	Without	Sets the ignition battery saver timer operating time.
	MODE 2	30 min.	
	MODE 3*	10 min.	
	MODE 4	5 min.	
	MODE 5	60 min.	
ACC BATTERY SAVER SET	MODE 1	Without	Sets the accessory battery saver timer operating time.
	MODE 2*	30 min.	
	MODE 3	10 min.	
	MODE 4	5 min.	
	MODE 5	60 min.	

\*: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)
REQ SW-RR [On/Off]	<b>NOTE:</b> The item is indicated, but not monitored.
REQ SW-RL [On/Off]	
PUSH SW [On/Off]	Push switch status input from push-button ignition switch
UNLK SEN-DR [On/Off]	Driver door unlock status input from 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]	<b>NOTE:</b> The item is indicated, but not monitored.
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

## DIAGNOSIS SYSTEM (BCM)

### < SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
KEY CYL LK-SW [On/Off]	Lock switch status received from key cylinder lock/unlock switch
KEY CYL UN-SW [On/Off]	Unlock switch status received from key cylinder lock/unlock switch
TRNK/HAT MNTR [On/Off]	Trunk lid open/close status received from trunk closure assembly
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
BATTERY SAVER	Off	Cuts the interior room lamp power supply to turn interior room lamps OFF.
	On	Outputs the interior room lamp power supply to turn interior room lamps ON.*

\*: Each lamp switch is in ON position.

ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

INFOID:0000000011256431

ECU	Reference
BCM	<a href="#">BCS-33, "Reference Value"</a>
	<a href="#">BCS-53, "Fail-safe"</a>
	<a href="#">BCS-54, "DTC Inspection Priority Chart"</a>
	<a href="#">BCS-55, "DTC Index"</a>

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# INTERIOR ROOM LAMP CONTROL SYSTEM

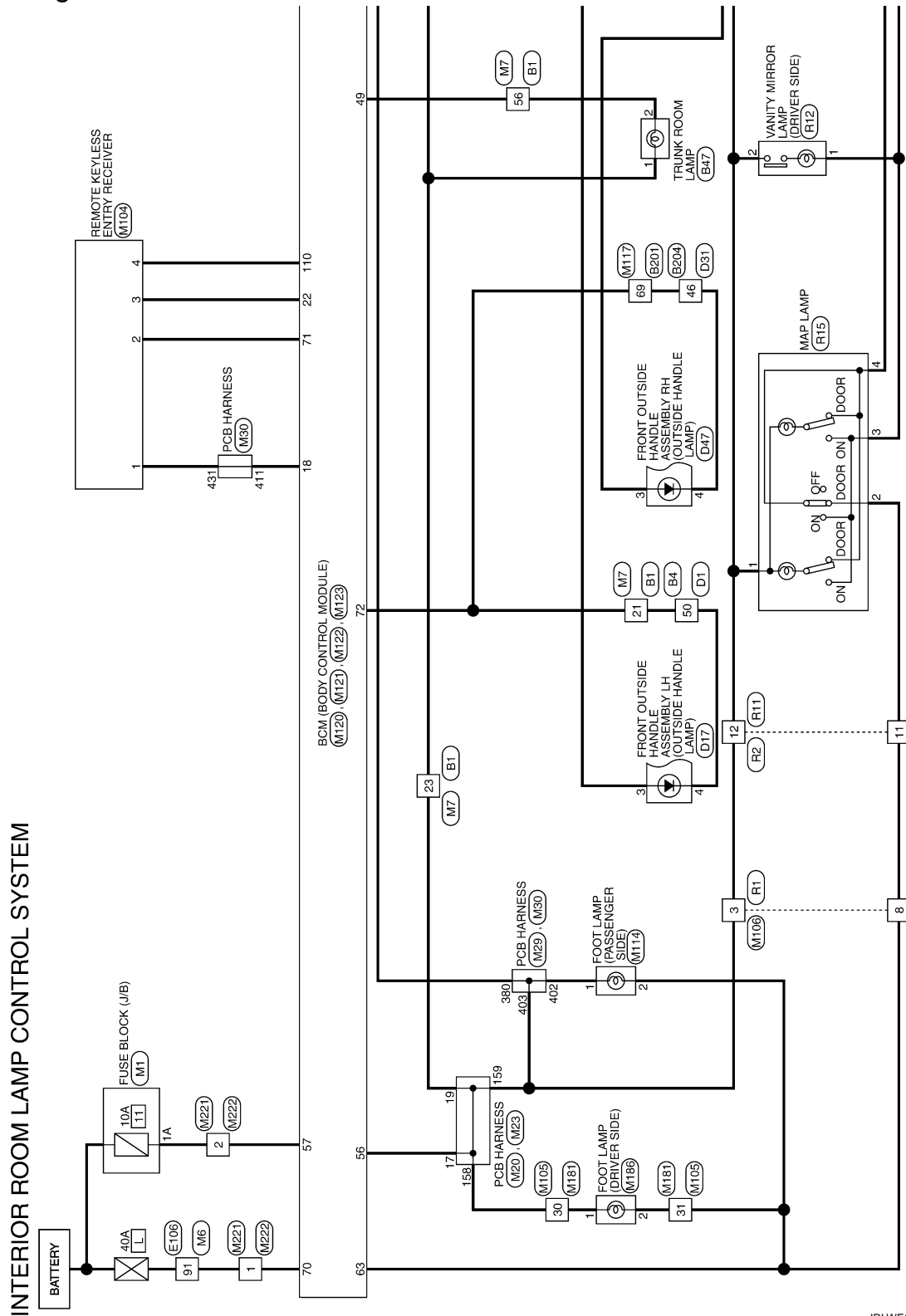
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## WIRING DIAGRAM

### INTERIOR ROOM LAMP CONTROL SYSTEM

Wiring Diagram

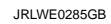
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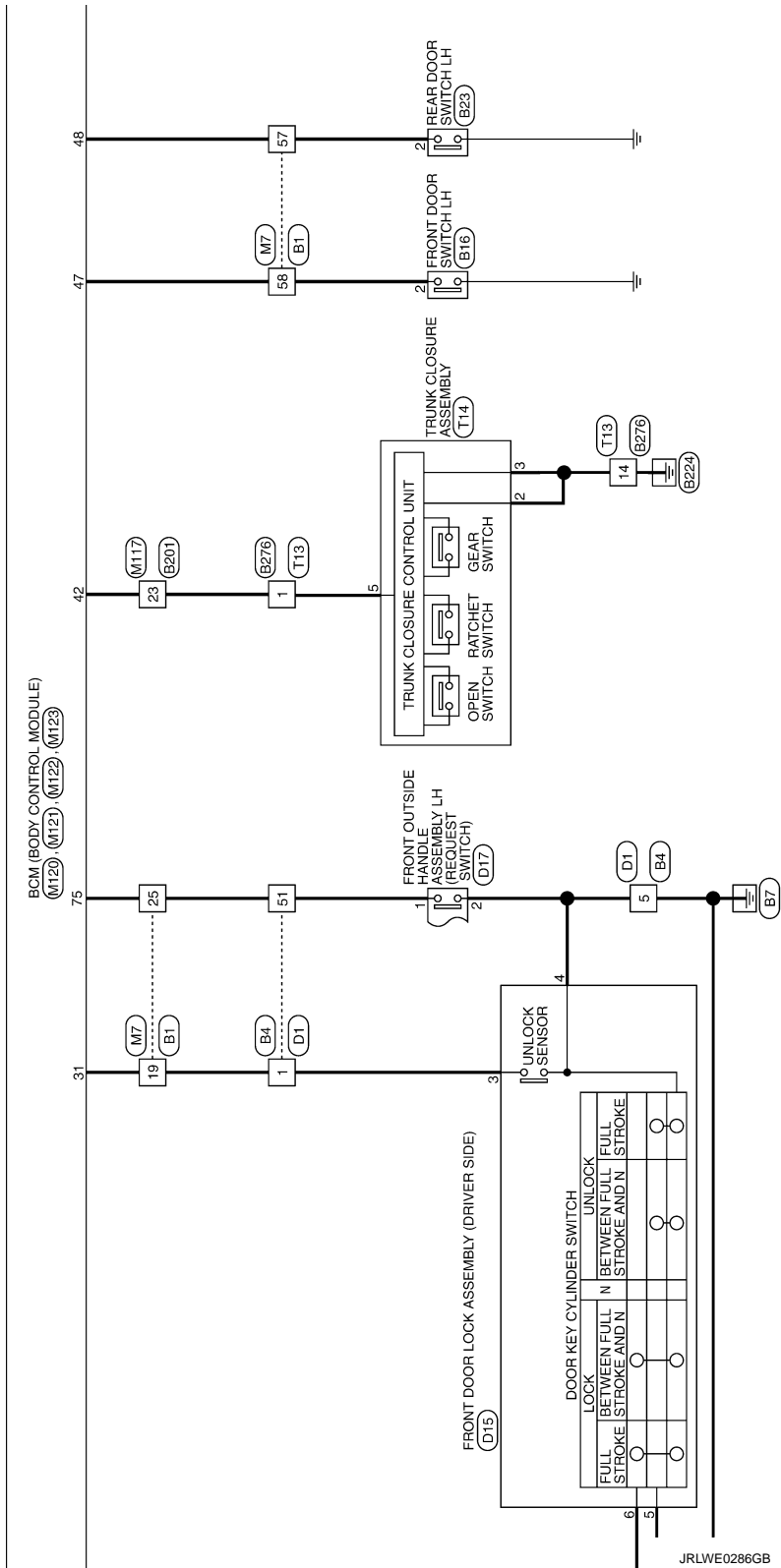
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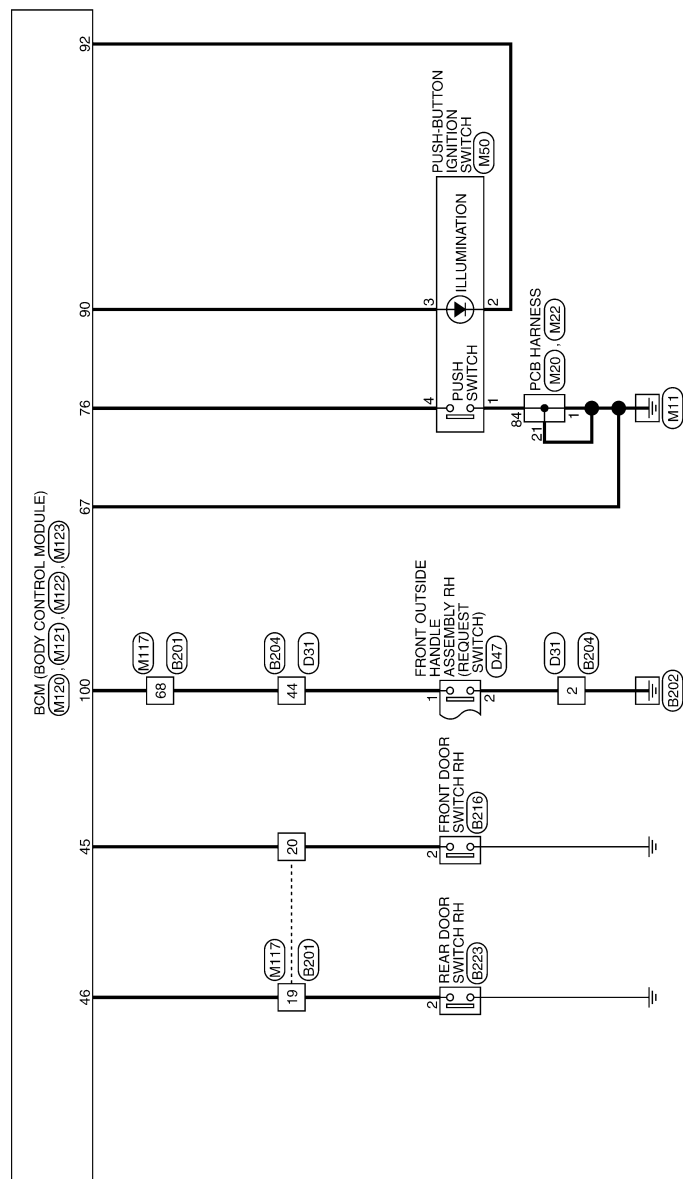
# INTERIOR ROOM LAMP CONTROL SYSTEM

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# INTERIOR ROOM LAMP CONTROL SYSTEM

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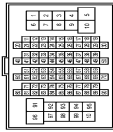
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# INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

## INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

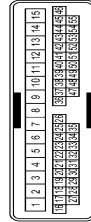


Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	W	-
4	LG	-
5	P	-
7	GR	-
8	Y	-
9	LG	-
10	V	-
11	GR	- [With climate controlled seat]
11	L	- [With heated seat]
12	GR	- [With heated seat]
12	P	- [With climate controlled seat]
13	BR	-
14	R	-
15	O	-
16	V	-
17	B	-
18	R	-
19	W	-
20	L	-
21	B	-
22	LG	-
23	V	-
24	Y	-
25	G	-
26	GR	-
27	SB	-
28	L/O	-
29	W/L	-
30	SHIELD	-
32	L	-
33	R	-
34	G	-
35	SHIELD	-
36	G	-

37	SB	-
40	SHIELD	-
41	GR/V	-
42	W/L	-
43	L	-
44	B	-
45	V	-
46	P	-
47	O	-
48	Y	-
49	BR	-
50	SB	-
51	V	-
52	LG	-
53	G	-
55	G	-
56	P	-
57	BR	-
58	LG	-
59	Y	-
60	W	-
61	B	-
62	LG	-
63	V	-
65	O	-
66	BR	-
67	V	-
68	LG	-
69	GR	-
70	R	-
72	L	-
73	P	-
74	L	-
75	P	-
76	Y	-
77	R	-
78	W	-
79	G	-
81	LG	-
82	BR	-
83	SB	-
84	Y	-
85	W	-
86	R	-
87	G	-
88	GR	-
91	SB	-
92	G	-
96	Y	-

97	O	-
98	SB	-
99	LG	-

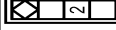
Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	GR	-
3	B	-
4	L	-
5	B/W	-
6	L	-
7	R	-
8	B	-
9	W	-
10	LG	-
11	P	-
12	GR	-
13	B/W	-
14	SB	-
15	O	-
16	G	-
17	Y	-
18	BR	-
19	GR	-
20	O	-
21	LG	-
22	L	-
23	SB	-
24	V	-
25	W/L	-
26	L/O	-
27	V	-
28	W	-
29	SB	-
30	L	-

31	LG	-
32	O	-
33	V	-
34	BR	-
35	B/R	-
36	P	-
37	BR	-
38	W	-
39	O	-
40	L	-
41	W	-
42	B	-
43	R	-
44	G	-
45	Y	-
46	V	-
47	SB	-
48	GR	-
49	LG	-
50	B	-
51	G	-
52	R	-
53	B	-
54	V	-
55	SHIELD	-

Connector No.	B16
Connector Name	FRONT DOOR SWITCH LH
Connector Type	A03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
2	LG	-

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# INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

## INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	NH10FW-CS10



6	5	4	3	2	1
13	12	11	10	9	8
20	19	18	17	16	15
14	13	12	11	10	9
8	7	6	5	4	3
2	1	0	9	8	7

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	P	-
3	R	-
4	G	-
7	B	-
8	W	-
9	V	-
10	Y	-
12	Y	-

Connector No.	B23
Connector Name	REAR DOOR SWITCH-LH
Connector Type	A03FW



2
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Terminal No.	Color Of Wire	Signal Name [Specification]
2	BR	-

Connector No.	B47
Connector Name	TRUNK ROOM LAMP
Connector Type	C02FW



0	2	1
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Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	P	-

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS16-TM4



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	12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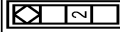
# INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

## INTERIOR ROOM LAMP CONTROL SYSTEM

26	L	-
27	W	-
28	B	-
29	R	-
30	SHIELD	-
31	G	-
32	G	-
33	R	-
35	P	-
36	B/R	-
37	BR	-
38	SB	-
39	P	-
44	SB	-
46	B	-
53	L	-
54	B	-
55	V	-

Connector No.	B216
Connector Name	FRONT DOOR SWITCH RH
Connector Type	A03FW



Terminal Color Of No.	Wire	Signal Name [Specification]
2	GR	-

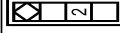
Connector No.	B218
Connector Name	WIPE TO WIRE
Connector Type	NH10FW-CS10



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13	12	11	10	9	8
20	19	18	17	16	15
14	13	12	11	10	9
8	7	6	5	4	3
2	1	-	-	-	-

Terminal Color Of No.	Wire	Signal Name [Specification]
1	LG	-
2	GR	-
3	O	-
4	P	-
7	B	-
8	P	-
9	O	-
10	W	-
12	Y	-

Connector No.	B223
Connector Name	REAR DOOR SWITCH RH
Connector Type	A03FW



Terminal Color Of No.	Wire	Signal Name [Specification]
2	BR	-

Connector No.	B276
Connector Name	WIPE TO WIRE
Connector Type	NS16MW-CS



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43	44	45	46	47	48	49
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820	821	822	823	824	825	826
827	828	829	830	831	832	833
834	835	836	837	838	839	840
841	842	843	844	845	846	847
848	849	850	851	852	853	854
855	856	857	858	859	860	861
862	863	864	865	866	867	868
869	870	871	872	873	874	875
876	877	878	879	880	881	882
883	884	885	886	887	888	889
890	891	892	893	894	895	896
897	898	899	900	901	902	903
904	905	906	907	908	909	910
911	912	913	914	915	916	917
918	919	920	921	922	923	924
925	926	927	928	929	930	931
932	933	934	935	936	937	938
939	940	941	942	943	944	945
946	947	948	949	950	951	952
953	954	955	956	957	958	959
960	961	962	963	964	965	966
967	968	969	970	971	972	973
974	975	976	977	978	979	980
981	982	983	984	985	986	987
988	989	990	991	992	993	994
995	996	997	998	999	1000	1001

Terminal Color Of No.	Wire	Signal Name [Specification]
1	R	-
2	GR	-
3	W	-
6	W	-
8	R	-
7	B	-
8	B	-
9	O	-
10	BR	-
11	L	- [Without around view monitor]
11	W	- [With around view monitor]
12	LW	- [Without around view monitor]
12	R	- [With around view monitor]
13	B	- [Without around view monitor]
13	L/R	- [With around view monitor]
14	B/R	-
15	Y	-

Connector No.	D1
Connector Name	WIPE TO WIRE
Connector Type	TH40FW-CS15

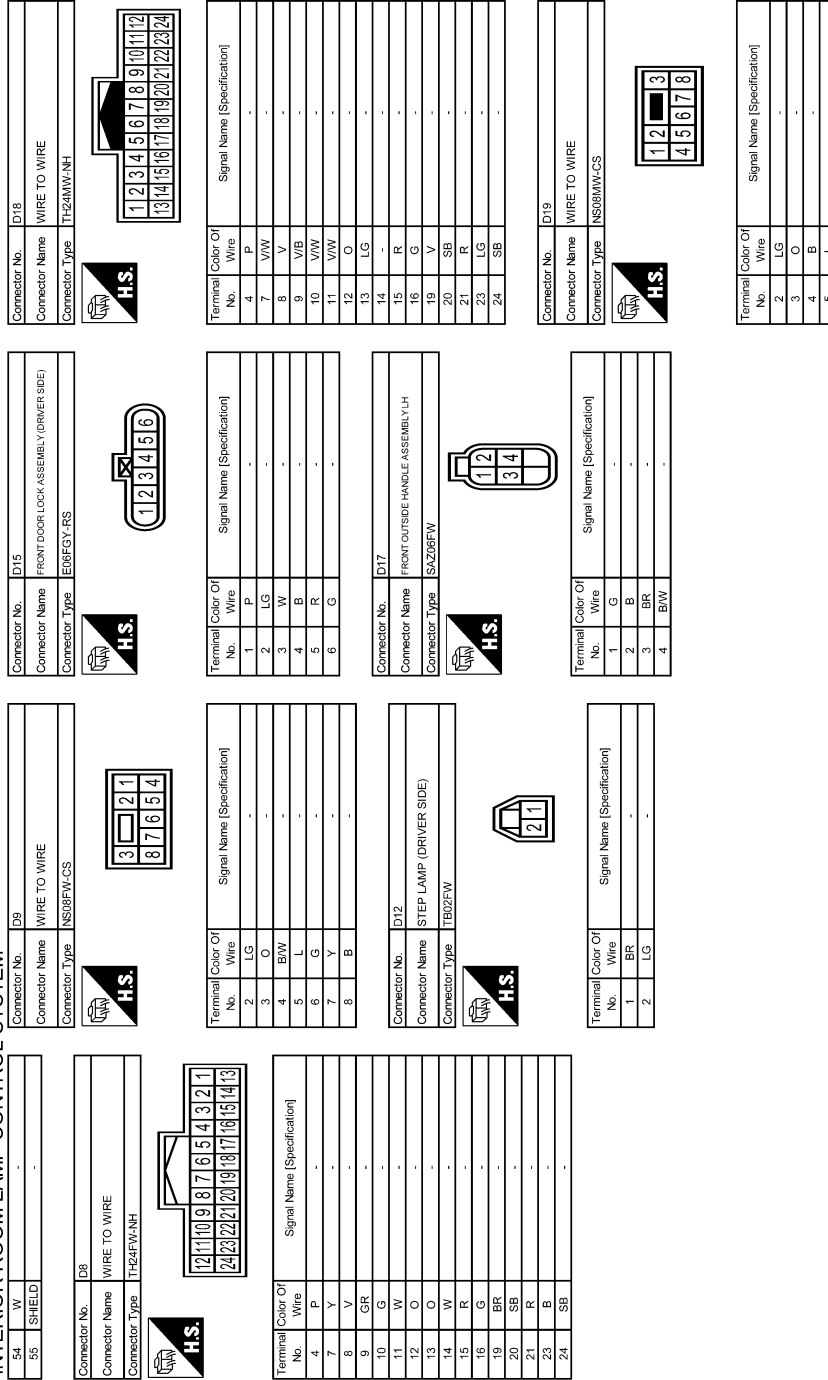


1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

# INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

## INTERIOR ROOM LAMP CONTROL SYSTEM



# INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

## INTERIOR ROOM LAMP CONTROL SYSTEM

6	G	-
7	Y	-
8	B	-

Connector No.	D22
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS



3	4	5	6	7
9	10	11	12	13
15	16			

Terminal No.	Color Of Wire	Signal Name [Specification]
3	B	ENCODER +
4	Y	*B
5	G	MOTOR UNDR
6	L	MOTOR UP DR
7	B	GND
9	O	IGN
10	LG	ENCODER GND
11	P	ENCODER SIG1
12	LG	ENCODER SIG2
13	-	COM
15	R	LOCK SW
16	G	UNLOCK SW

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

Terminal No.	Color Of Wire	Signal Name [Specification]
2	B	-
3	BW	-
5	GR	-

9	V	-
10	R	-
11	L	-
12	Y	-
13	BR	-
14	G	-
15	SB	-
16	G	-
17	P	-
18	BR	-
19	GR	-
20	V	-
21	LG	-
22	SB	-
23	G	-
24	Y	-
25	BR	-
26	L	-
27	W	-
28	B	-
29	R	-
30	SHIELD	-
31	G	-
32	P	-
33	L	-
35	W	-
36	L	-
37	P	-
38	SB	-
39	O	-
44	SB	-
46	BW	-
53	L	-
54	B	-
55	V	-

Connector No.	D42
Connector Name	STEP LAMP (PASSENGER SIDE)
Connector Type	TB02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	SB	-

Connector No.	D47
Connector Name	FRONT OUTSIDE HANDLE ASSEMBLY RH
Connector Type	SAZ06FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	B	-
3	G	-
4	BW	-

Connector No.	D51
Connector Name	WIRE TO WIRE
Connector Type	NH10MW-CS10



1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20				

Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	V	-
3	R	-
4	L	-
7	B	-
8	P	-
9	W	-
10	V	-
12	LG	-

Connector No.	D57
Connector Name	STEP LAMP (REAR LH)
Connector Type	TB02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	V	-

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# INTERIOR ROOM LAMP CONTROL SYSTEM

## < WIRING DIAGRAM >

### INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	NH10MW-CS10

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20				



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	V	-
3	R	-
4	L	-
7	B	-
8	P	-
9	W	-
10	V	-
12	LG	-

Connector No.	D77
Connector Name	STEP LAMP (REAR RH)
Connector Type	TB02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	V	-



Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20				



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	W	-
3	SB	-
4	LG	-
5	O	-
6	W	-
7	GR	-
8	G	-
9	Y	-
10	BR	-
11	SB	-
12	L	-
13	GR	-
14	GR	-
15	V	-
16	Y	-
17	GR	-
18	V	-
20	BR	-
21	P	-
22	L	-
23	P	-
27	SHIELD	-
28	L/O	-
29	W/L	-
31	BR	-
32	G	-
33	O	-
34	Y	-
36	G	-
37	V	-
41	BR	-
44	W	-
45	L	-
46	GR	-
47	V	-

48	G	-
49	O	-
50	LG	-
54	R	-
55	B	-
60	W	-
61	G	-
62	Y	-
63	BR	-
64	B	-
65	Y	-
66	R	-
67	SB	-
68	G	-
69	SHIELD	-
70	W	-
71	W	-
72	R	-
73	G	-
74	Y	-
75	B	-
76	SHIELD	-
77	O	-
78	SB	-
80	V	-
82	SB	-
83	GR	-
84	Y	-
85	Y	-
86	L	-
87	V	-
88	BR	-
89	LG	-
90	W	-
91	W	-
92	P	-
93	LG	-
94	BR	-
95	W	-
97	R	-
98	Y	-
99	V	-
100	V	-

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2



3A	2A	1A
8A	6A	5A
4A		

Terminal No.	Color Of Wire	Signal Name [Specification]
1A	R	-
2A	W	-
3A	Y	-
4A	W	-
5A	V	-
6A	Y	-
8A	Y	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20				

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	W	-
3	SB	-
4	LG	-
5	W	-
6	W	-
7	BG	-
8	G	-
9	Y	-
10	W	-
11	R	-
12	V	-
13	LG	-

JRLWE0524GB

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P

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# INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

## INTERIOR ROOM LAMP CONTROL SYSTEM

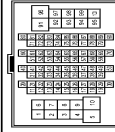
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15	V	-
16	B	-
17	GR	-
18	V	-
20	SB	-
21	BR	-
22	L	-
23	P	-
27	SHIELD	-
28	V	-
29	SB	-
31	EG	-
32	P	-
33	R	-
34	EG	-
36	V	-
37	G	-
41	BR	-
44	BR	-
45	Y	-
46	EG	-
47	V	-
48	G	-
49	EG	-
50	W	-
54	W	-
55	G	-
60	GR	-
61	B	-
62	LG	-
63	BR	-
64	L	- [With ICC] - [Without ICC]
64	SB	- [Without ICC]
65	R	- [With ICC]
65	Y	- [Without ICC]
66	P	-
67	L	-
68	R	-
69	SHIELD	-
70	B	-
71	W	-
72	R	-
73	G	-
74	Y	-
75	B	-
76	SHIELD	-
77	B	-
78	V	-
80	G	-

82	B	-
83	EG	-
84	SB	-
85	Y	-
86	L	-
87	V	-
88	V	-
89	LG	-
90	EG	-
91	W	-
92	EG	-
93	G	-
94	Y	-
95	W	-
97	SB	-
98	R	-
99	W	-
100	L	-

Connector No. M7

Connector Name WIRE TO WIRE

Connector Type TH60MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	Y	-
4	BR	-
5	P	-
7	G	-
8	Y	-
9	G	-
10	V	-
11	L	-
11	V	- [With heated seat] - [With climate controlled seat]
12	GR	- [With heated seat]
12	P	- [With climate controlled seat]
13	BR	-
14	GR	-
15	EG	-
16	V	-

17	BG	-
18	L	- [Without CAN gateway] - [With CAN gateway]
19	Y	-
20	L	-
21	B	-
22	LG	-
23	W	-
24	V	-
25	G	-
26	BR	-
27	SB	-
28	P	-
29	L	-
30	SHIELD	-
32	L	-
33	P	-
34	W	-
35	SHIELD	-
36	EG	-
37	SB	-
41	SB	-
42	V	-
44	B	-
45	BG	-
46	P	-
47	L	-
48	LG	-
49	BR	-
50	V	-
51	V	-
52	P	-
53	BG	-
55	G	-
56	SB	-
57	P	-
58	LG	-
59	Y	-
60	GR	-
61	B	-
62	LG	-
63	BR	-
65	W	-
66	R	-
67	V	-
68	LG	-
68	SB	-
70	V	-
72	L	-

Connector No. M20

Connector Name PCB HARNESS

Connector Type TH40FB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	B	-
3	Y	-
4	G	-
5	R	-
6	W	-
11	BR	-
12	R	-
15	B	-
16	SHIELD	-
17	R	-
18	P	-
19	W	-

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# INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

## INTERIOR ROOM LAMP CONTROL SYSTEM

Terminal No.	Color Of Wire	Signal Name [Specification]
21	B	-
22	R	- [With ICC]
22	Y	- [Without ICC]
23	L	- [With ICC]
23	SB	- [Without ICC]
24	L	-
27	P	-
31	V	-
33	V	-
35	L	-
36	P	-
38	L	-
40	Y	-

Connector No.	Connector Name	Connector Type
M22	PCB HARNESS	TH40FB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
103	B	-
104	BR	-
105	R	-
107	Y	-
108	Y	-
109	BR	-
110	Y	-
112	B	-
113	P	-
114	L	-
116	B	-
117	B	- [With VK engine]
117	B	- [With VQ engine]
118	B	-
119	LG	-
120	V	-

Connector No.	Connector Name	Connector Type
M23	PCB HARNESS	TH40FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
81	L	-
82	P	-
83	B	-
84	B	-
85	B	-
86	B	-
87	B	-
88	B	-
89	Y	-
91	V	-
92	V	-
93	B	-
94	B	-
95	LG	-
96	BR	-
97	G	-
98	G	-
99	G	-
100	G	-
101	L	-
102	P	-

Terminal No.	Color Of Wire	Signal Name [Specification]
121	R	-
122	V	-
123	B	-
124	B	-
126	B	-
131	SB	-
132	LG	-
133	L	-
134	L	-
135	P	-
136	P	-
137	Y	-
138	L	-
141	W	-
142	W	-
145	B	-
146	LG	-
147	B	-

Terminal No.	Color Of Wire	Signal Name [Specification]
149	B	-
150	P	-
151	L	-
152	B	-
153	W	-
154	W	-
155	W	-
158	R	-
159	R	-

Connector No.	Connector Name	Connector Type
M29	PCB HARNESS	TH40FB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
361	W	-
362	W	-
363	Y	-
365	B	-
367	B	-
368	G	-
374	B	-
375	B	-
376	V	-
377	V	-
378	B	-
380	R	-
381	G	-
392	V	-
394	GR	-
395	P	-
396	L	-
400	V	-

Connector No.	Connector Name	Connector Type
M30	PCB HARNESS	TH40FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
402	R	-
403	R	-
406	B	-
407	V	-
408	B	-
409	B	-
410	B	-
411	B	-
413	Y	-
414	BR	-
416	LG	-
417	B	-
419	SB	-
420	SHIELD	-
422	V	-
427	P	-
428	V	-
429	P	-
430	LG	-
431	B	-
432	Y	-
435	V	-
436	B	-
437	B	-
438	P	-
439	L	-
440	B	-

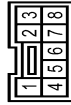
JRLWE0526GB

# INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

## INTERIOR ROOM LAMP CONTROL SYSTEM

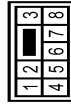
Connector No.	M150
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TK08FBR



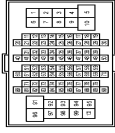
Connector No.	M105
Connector Name	WIPE TO WIRE
Connector Type	TH40FW-NH



Connector No.	M106
Connector Name	WIPE TO WIRE
Connector Type	NS08MW-CS



Connector No.	M117
Connector Name	WIPE TO WIRE
Connector Type	TH80FW-CS(6-TM4)



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	B	-
3	R	-
4	BR	-
5	GR	-
6	Y	-
7	V	-
8	W	-

Connector No.	M104
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Type	TH04FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
2	R	-
3	B	-
5	LG	-
6	P	-
7	L	-
8	P	-
9	B	-
10	W	-
11	W	-
12	SB	-
13	G	-
14	SB	-
15	BR	-
16	V	-
17	P	-
18	G	-
22	BG	-
23	B	-
25	W	-
30	R	-
31	BR	-
32	L	-
33	P	-
34	LG	-
35	W	-
36	LG	-
37	L	-
38	BG	-
39	SHIELD	-
40	W	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GND
2	BR	SIGNAL OUTPUT
3	GR	RSSI
4	R	BATTERY

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	R	-
4	BG	-
5	Y	-
6	R	-
7	B	-
8	L	-

Connector No.	M114
Connector Name	FOOT LAMP (PASSENGER SIDE)
Connector Type	G02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	BR	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
3	Y	-
6	R	-
7	W	-
8	V	-
11	R	-
12	G	-
13	W	-
14	L	-
15	R	- [Without ADAS]
15	Y	- [With ADAS]
17	GR	-
18	P	-
19	BR	-
20	GR	-
21	Y	-
22	LG	-
23	R	-
24	BG	-
25	BG	-
26	W	-
28	V	-
29	P	-
30	B	-
31	G	-
32	Y	-
40	SHIELD	-
41	R	-
42	V	-
45	SB	-
46	BG	-
46	L	- [With heated seat]
47	G	- [With climate controlled seat]
47	GR	- [With climate controlled seat]
48	V	-
49	BG	-

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# INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

## INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	M120	BCM (BODY CONTROL MODULE)
Connector Name	TH40FB-NH	
Connector Type		

50	LG	-
51	SB	-
52	Y	-
53	W	-
54	B	-
55	G	-
56	B	-
57	G	-
58	R	-
59	W	-
60	LG	-
61	LG	-
62	V	-
63	R	-
64	SB	-
65	LG	-
66	L	-
67	Y	-
68	SB	-
69	B	-
70	L	-
71	L	-
72	L	-
73	P	-
74	B	-
75	L	-
76	SHIELD	-
77	G	-
78	R	-
79	L	-
80	G	-
81	EG	-
82	BR	-
83	GR	-
84	V	-
85	LG	-
86	V	-
87	R	-
88	Y	-
89	BR	-
90	L	-
91	Y	-
93	G	- [With heated seat]
93	W	- [With climate controlled seat]
94	V	-
96	W	-
97	Y	-
98	BR	-
99	G	-
100	Y	-



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
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Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	RR WINDOW DEFGRPLY CONT
2	EG	COMBI SW INPUT 5
3	SB	COMBI SW INPUT 4
4	L	COMBI SW INPUT 3
5	G	COMBI SW INPUT 2
6	P	COMBI SW INPUT 1
8	V	POWER WINDOW SW COMM
9	P	STOP LAMP SW 1
11	R	RAIN SENSOR SERIAL LINK
14	W	OPTICAL SENSOR
16	SB	DIMMER SIGNAL
17	Y	SENSOR PWR SPLY
18	B	RECEIVER / SENSOR GND
19	V	TURN SIG RH OUTPUT (FRONT)
20	G	TURN SIG LH OUTPUT (FRONT)
21	P	NATS ANT AMP
22	GR	KYLS ENT RECEIVER RSSI
23	G	SECURITY IND CONT
24	L	DONGLE LINK
25	G	NATS ANT AMP
26	G	I-KEY IDENTIFICATION
29	G	HAZARD SW
30	O	TR LID OPNR SW
31	W	DR DOOR UNLK SENSOR
32	BR	COMBI SW OUTPUT 5
33	R	COMBI SW OUTPUT 4
34	V	COMBI SW OUTPUT 3
35	Y	COMBI SW OUTPUT 2
36	LG	COMBI SW OUTPUT 1
37	R	P POSITION
39	L	CAN-H
40	P	CAN-L

Connector No.	M121	BCM (BODY CONTROL MODULE)
Connector Name	FEA09FB-FHAG-SA	
Connector Type		



41	42	44	45	46	47	48	49	50	51	53	55
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Terminal No.	Color Of Wire	Signal Name [Specification]
41	W	TR KEY CYLINDER SW
42	R	TRUNK LID OPEN/CLOSE STATUS
44	V	TR LID OP CANCEL SW
45	GR	PASSENGER DOOR SW
46	BR	REAR RT DOOR SW
47	LG	DRIVER DOOR SW
48	P	REAR LH DOOR SW
49	SB	TR ROOM LAMP CONT
51	BG	TR LID OPEN REQ SW
53	LG	TRUNK LID OPEN REQUEST
55	BR	RR DOOR UNLK OUTPUT

Connector No.	M122	BCM (BODY CONTROL MODULE)
Connector Name	FEA09FW-FHAG-SA	
Connector Type		



56	57	58	59	60	61	62	63	65	66	67	68	69	70
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Terminal No.	Color Of Wire	Signal Name [Specification]
56	R	INT ROOM LAMP PWR SPLY
57	R	BAT (FUSE)
58	L	SENS CANCEL SW
59	G	PASS DOOR UNLK OUTPUT
60	G	TURN SIG LH OUTPUT (SIDE, REAR)
61	V	TURN SIG RH OUTPUT (SIDE, REAR)
62	V	STEP LAMP CONT
63	L	ROOM LAMP-TIMER CONT
65	V	ALL DOOR, FL LID LOCK OUTPUT

66	LG	DR DOOR, FL LID UNLK OUTPUT
67	B	GND
68	O	PW PWR SPLY (IGN)
69	Y	PW PWR SPLY (BAT)
70	W	BAT (FL)

Connector No.	M123	BCM (BODY CONTROL MODULE)
Connector Name	TH40FW-NH	
Connector Type		



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
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Terminal No.	Color Of Wire	Signal Name [Specification]
71	BR	KYLS ENT RECEIVER COMM
72	B	OUTS HD LAMP OUTPUT
73	V	ON IND
75	G	DR DOOR REQ SW
76	BR	PUSH SW
78	BR	DRIVER DOOR ANT+
79	SB	DRIVER DOOR ANT-
80	LG	PASSENGER DOOR ANT+
81	V	PASSENGER DOOR ANT-
82	V	REAR BMPR ANT+
83	SB	REAR BMPR ANT-
84	BR	ROOM ANT1+
85	Y	ROOM ANT1-
86	R	ROOM ANT2+
87	G	ROOM ANT2-
88	V	TRUNK ROOM ANT+
89	SB	TRUNK ROOM ANT-
90	R	PUSH-BTN IGN SW / LL PWR
91	GR	LOCK IND
92	B	PUSH-BTN IGN SW / LL GND
93	V	I-KEY WARN BUZZER
96	SB	ACC RELAY CONT
97	SB	STARTER RELAY CONT
98	B	IGN RELAY (RPM E/R) CONT
99	R	IGN RELAY (F/B) CONT
100	SB	PASS DOOR REQ SW
102	BR	PIN POSITION
104	GR	AT SHIFT SELECT PWR SPLY
105	R	STOP LAMP SW 2

JRLWE0528GB

# INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

## INTERIOR ROOM LAMP CONTROL SYSTEM

106	B	BLWR RELAY CONT
109	Y	ACC IND
110	R	RECEIVER PWR SPLY

Connector No.	M181
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
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Terminal No.	Color Of Wire	Signal Name [Specification]
2	R	-
3	B	-
5	R	-
6	BR	-
7	L	-
8	P	-
9	B	-
10	W	-
11	LG	-
12	SB	-
13	G	-
14	SB	-
15	BR	-
16	V	-
17	P	-
18	G	-
22	BG	-
23	B	-
25	W	-
30	R	-
31	BR	-
32	L	-
33	P	-
34	LG	-
35	W	-
36	LG	-
37	L	-
38	BG	-
39	SHIELD	-
40	W	-

Connector No.	M182
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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Terminal No.	Color Of Wire	Signal Name [Specification]
3	LG	M-CAN L
4	B	EARTH
5	B	EARTH
6	L	CAN-H
7	V	KLUE
8	LG	IGN SW
11	SB	M-CAN H
12	P	CAN-L
13	L	CAN-H
14	P	CAN-L
16	W	POWER

Connector No.	M185
Connector Name	FOOT LAMP (DRIVER SIDE)
Connector Type	G02FW



0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
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Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	BR	-

Connector No.	M221
Connector Name	WIRE TO WIRE
Connector Type	M03FW-LC



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
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Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	R	-
3	W	-

Connector No.	M222
Connector Name	WIRE TO WIRE
Connector Type	M03MW-LC



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
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Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	R	-
3	Y	-

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



3	2	1	8	7	6	5	4
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Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	R	-
4	BG	-
5	Y	-
6	GR	-
7	B	-
8	BR	-

Connector No.	R2
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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Terminal No.	Color Of Wire	Signal Name [Specification]
2	G	-
5	SHIELD	-
6	R	-
7	G	-
8	B	-
9	B	-
10	P	-
11	BR	-
12	R	-
13	BR	-
14	V	-
17	LG	-
18	L	-

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# INTERIOR ROOM LAMP CONTROL SYSTEM

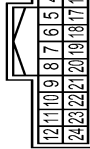
< WIRING DIAGRAM >

## INTERIOR ROOM LAMP CONTROL SYSTEM

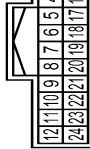
Connector No.	R12
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	1	2
Color Of Wire	B	V
Signal Name [Specification]	-	-



Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	SHIELD	-
3	R	-
4	G	-
5	B	-
6	B	-
7	R	-
8	B	-
9	B	-
10	R	-
11	BR	-
12	R	-
13	BR	-
14	V	-
15	L	-
16	G	-
17	L	-
18	LG	-
19	R	-
20	G	-
21	R	-
22	B	-
23	GR	-

Connector No.	R14
Connector Name	PERSONAL LAMP
Connector Type	TH24FW-NH



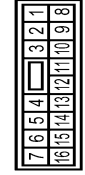
Terminal No.	1	2	3
Color Of Wire	V	B	Y
Signal Name [Specification]	-	-	-

Connector No.	R15
Connector Name	MAP LAMP
Connector Type	TK08FGY



Terminal No.	1	2	3	4	5	6
Color Of Wire	V	SB	B	Y	BY	G
Signal Name [Specification]	-	-	-	-	-	-

Connector No.	T13
Connector Name	WIPE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Color Of Wire	Y	G	B	W	R	G	O	V	L	W	B	R	L	P	-
Signal Name [Specification]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

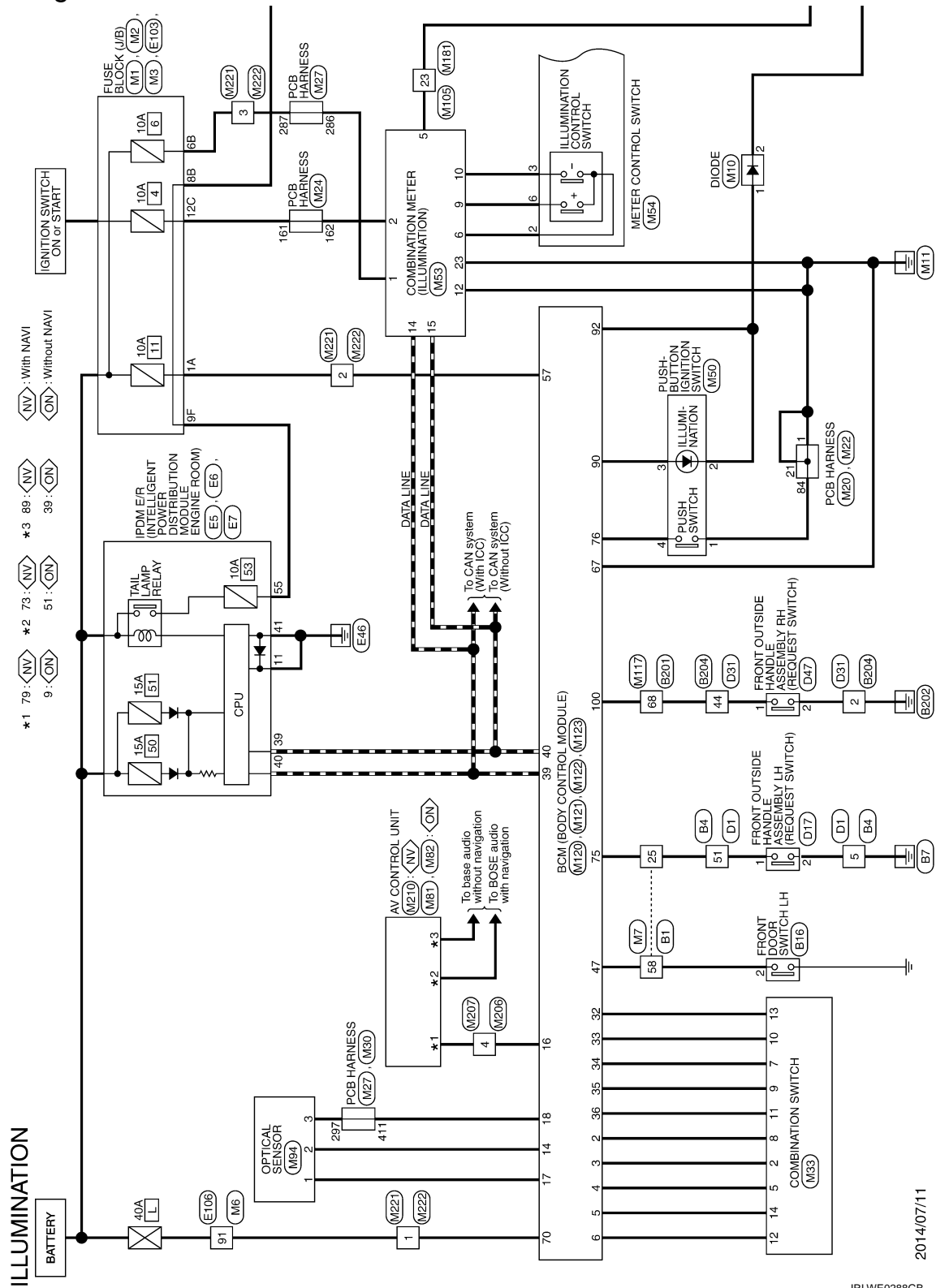
Connector No.	T14
Connector Name	TRUNK CLOSURE ASSEMBLY
Connector Type	NS06FW-CS



Terminal No.	1	2	3	4	5	6
Color Of Wire	G	L	P	Y	R	-
Signal Name [Specification]	-	-	-	-	-	-

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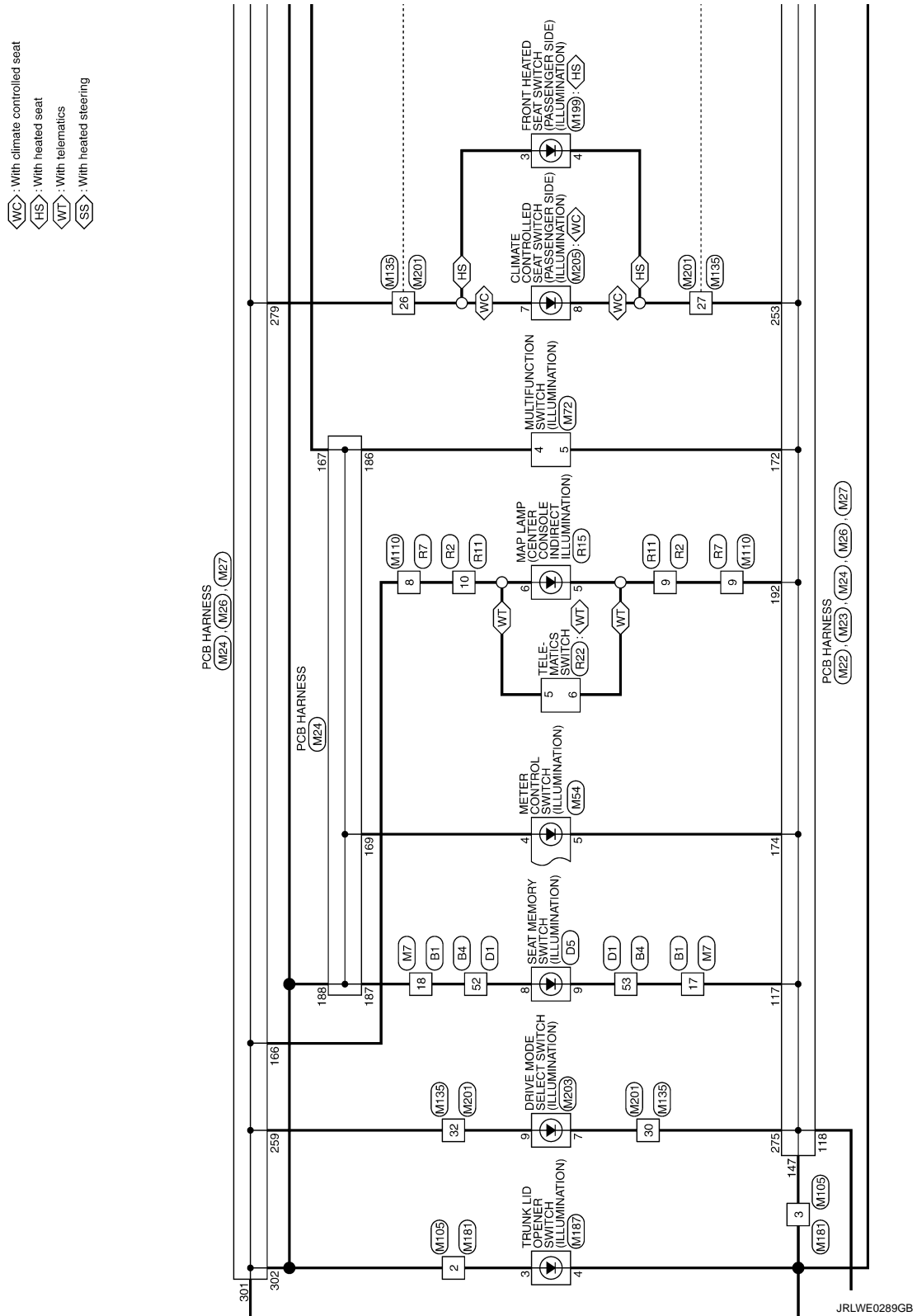
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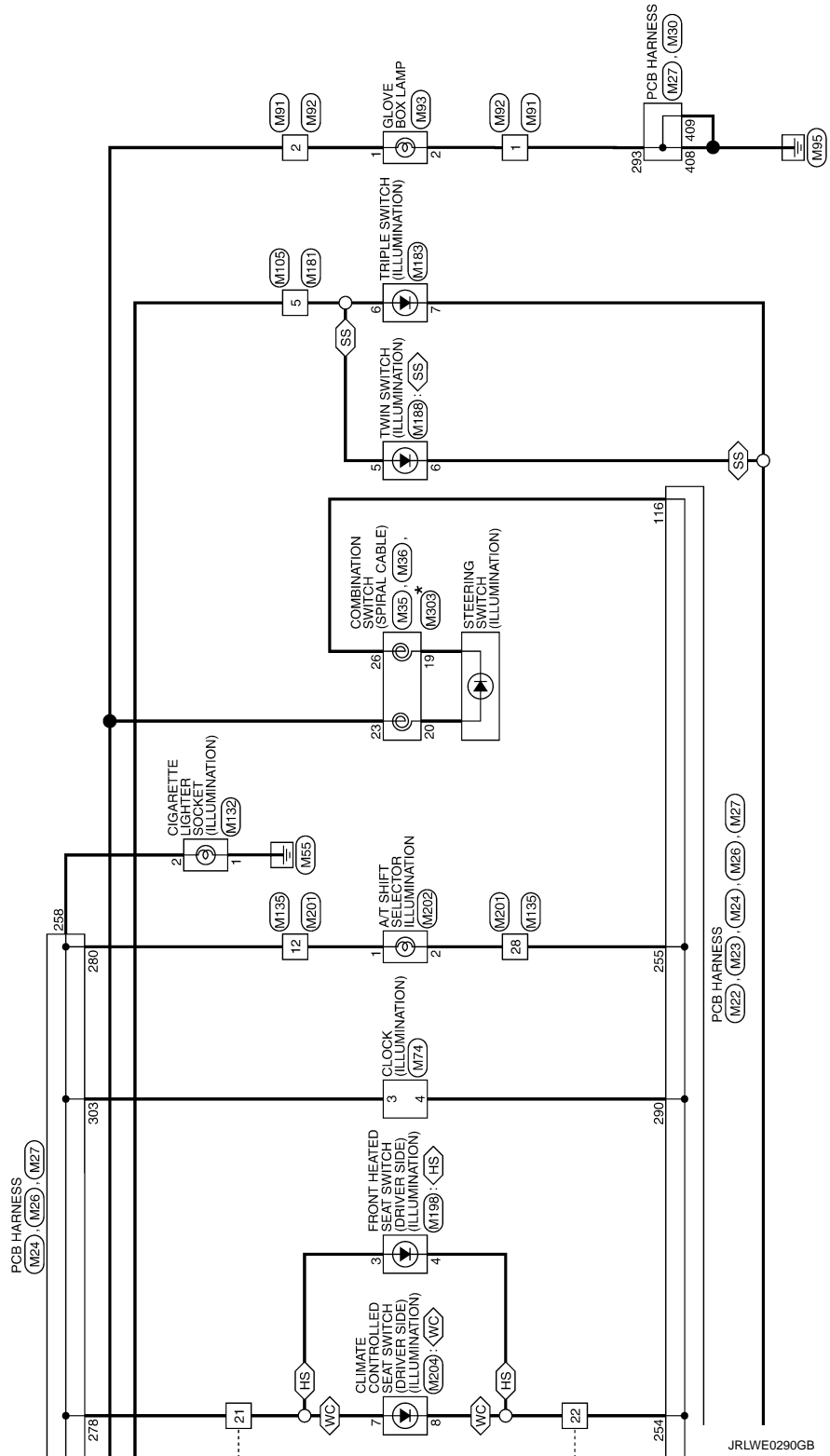
## < WIRING DIAGRAM >



# ILLUMINATION

## < WIRING DIAGRAM >

★: This connector is not shown in "Harness Layout".



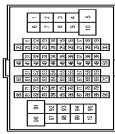
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# ILLUMINATION

< WIRING DIAGRAM >

## ILLUMINATION

Connector No.	B1
Connector Name	WIPE TO WIRE
Connector Type	TH80FW-CS16-TM4

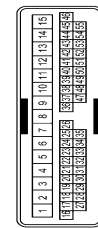


Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	W	-
4	LG	-
5	P	-
7	GR	-
8	Y	-
9	LG	-
10	V	-
11	GR	- [With climate controlled seat] - [With heated seat]
11	L	- [With heated seat]
12	GR	- [With climate controlled seat]
12	P	-
13	BR	-
14	R	-
15	O	-
16	V	-
17	B	-
18	R	-
19	W	-
20	L	-
21	B	-
22	LG	-
23	V	-
24	Y	-
25	G	-
26	GR	-
27	SB	-
28	L/O	-
29	W/L	-
30	SHIELD	-
32	L	-
33	R	-
34	G	-
35	SHIELD	-
36	G	-

37	SB	-
40	SHIELD	-
41	GR/V	-
42	W/L	-
43	L	-
44	B	-
45	V	-
46	P	-
47	O	-
48	Y	-
49	BR	-
50	SB	-
51	V	-
52	LG	-
53	G	-
55	G	-
56	P	-
57	BR	-
58	LG	-
59	Y	-
60	W	-
61	B	-
62	LG	-
63	V	-
65	O	-
66	BR	-
67	V	-
68	LG	-
69	GR	-
70	R	-
72	L	-
73	P	-
74	L	-
75	P	-
76	Y	-
77	R	-
78	W	-
79	G	-
81	LG	-
82	BR	-
83	SB	-
84	Y	-
85	W	-
86	R	-
87	G	-
88	GR	-
91	SB	-
92	G	-
96	Y	-

97	O	-
98	SB	-
99	LG	-

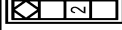
Connector No.	B4
Connector Name	WIPE TO WIRE
Connector Type	TH40MW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	GR	-
3	B	-
4	L	-
5	B/W	-
6	L	-
7	R	-
8	B	-
9	W	-
10	LG	-
11	P	-
12	GR	-
13	B/W	-
14	SB	-
15	O	-
16	G	-
17	Y	-
18	BR	-
19	GR	-
20	O	-
21	LG	-
22	L	-
23	SB	-
24	V	-
25	W/L	-
26	L/O	-
27	V	-
28	W	-
29	SB	-
30	L	-

31	LG	-
32	O	-
33	V	-
34	BR	-
35	B/R	-
36	P	-
37	BR	-
38	W	-
39	O	-
40	L	-
41	W	-
42	B	-
43	R	-
44	G	-
45	Y	-
46	V	-
47	SB	-
48	GR	-
49	LG	-
50	B	-
51	G	-
52	R	-
53	B	-
54	V	-
55	SHIELD	-

Connector No.	B16
Connector Name	FRONT DOOR SWITCH LH
Connector Type	A03FW





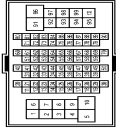
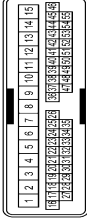
Terminal Color Of Wire	Signal Name [Specification]
2	LG

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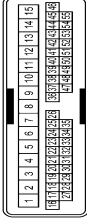
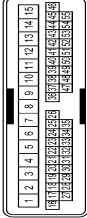
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# ILLUMINATION

< WIRING DIAGRAM >

<b>ILLUMINATION</b>		<b>B201</b>	
Connector No.	B201	Connector No.	B204
Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4	Connector Type	TH40MW-CS15
			
			
Terminal No.	Wire	Terminal No.	Wire
1	Y	2	B/W
3	R	3	B/W
6	R	5	Y
7	W	8	R
8	V	10	R
11	R	11	V
12	G	12	Y
13	Y	13	BR
14	L	14	LG
15	R	15	GR
15	Y	16	G
17	GR	17	O
18	P	18	BR
19	BR	19	GR
20	GR	20	V
21	Y	21	LG
22	GR	22	W
23	R	23	O
24	V	24	Y
25	B	25	BR
26	W	26	L
28	V	27	W
29	P	28	B
30	O	29	R
31	B/R	30	SHIELD
32	Y	31	G
40	SHIELD	32	G
41	W/R	33	R
42	V	35	P
45	SB	36	B/R
46	R	37	BR
46	Y	38	SB
47	G	39	P
47	GR	44	SB
48	V	46	B
49	O	53	L

<b>ILLUMINATION</b>		<b>B204</b>	
Connector No.	B204	Connector No.	B204
Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15	Connector Type	TH40MW-CS15
			
			
Terminal No.	Wire	Terminal No.	Wire
2	B/W	2	B/W
3	B/W	3	B/W
5	Y	5	Y
8	R	8	R
10	R	10	R
11	V	11	V
12	Y	12	Y
13	BR	13	BR
14	LG	14	LG
15	GR	15	GR
16	G	16	G
17	O	17	O
18	BR	18	BR
19	GR	19	GR
20	V	20	V
21	LG	21	LG
22	W	22	W
23	O	23	O
24	Y	24	Y
25	BR	25	BR
26	L	26	L
27	W	27	W
28	B	28	B
29	R	29	R
30	SHIELD	30	SHIELD
31	G	31	G
32	G	32	G
33	R	33	R
35	P	35	P
36	B/R	36	B/R
37	BR	37	BR
38	SB	38	SB
39	P	39	P
44	SB	44	SB
46	B	46	B
53	L	53	L

50	R	50	R
51	GR	51	GR
52	LG	52	LG
53	P	53	P
56	P	56	P
57	W	57	W
58	O	58	O
59	Y	59	Y
61	SB	61	SB
62	L	62	L
63	W	63	W
64	SB	64	SB
65	LG	65	LG
66	L	66	L
67	Y	67	Y
68	SB	68	SB
69	B	69	B
71	L	71	L
72	L	72	L
73	R	73	R
74	B	74	B
75	L	75	L
76	SHIELD	76	SHIELD
77	G	77	G
78	R	78	R
79	P	79	P
80	G	80	G
81	O	81	O
82	BR	82	BR
83	GR	83	GR
84	V	84	V
85	LG	85	LG
86	W	86	W
87	O	87	O
88	Y	88	Y
89	BR	89	BR
90	L	90	L
91	BR	91	BR
93	O	93	O
93	Y	93	Y
94	GR	94	GR
96	W	96	W
97	P	97	P
98	LG	98	LG
99	LG	99	LG
100	Y	100	Y

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# ILLUMINATION

## < WIRING DIAGRAM >


### ILLUMINATION

Connector No.	D5	SEAT MEMORY SWITCH
Connector Name	TH16FW-NH	
Connector Type		

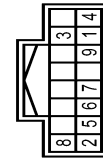


Terminal No.	Wire	Signal Name [Specification]
1	R	
2	V	
3	W	
4	B	
5	LG	
6	GR	
7	O	
8	Y	
9	BW	

Connector No.	D5	SEAT MEMORY SWITCH
Connector Name	TH16FW-NH	
Connector Type		




Terminal No.	Wire	Signal Name [Specification]
1	R	
2	V	
3	W	
4	B	
5	LG	
6	GR	
7	O	
8	Y	
9	BW	



Terminal No.	Wire	Signal Name [Specification]
1	R	
2	V	
3	W	
4	B	
5	LG	
6	GR	
7	O	
8	Y	
9	BW	

Connector No.	D17	FRONT OUTSIDE HANDLE ASSEMBLY LH
Connector Name	SAZ06FW	
Connector Type		




Terminal No.	Wire	Signal Name [Specification]
1	G	
2	B	
3	BR	
4	BW	

Connector No.	D31	WIRE TO WIRE
Connector Name	TH40FW-CS15	
Connector Type		




Terminal No.	Wire	Signal Name [Specification]
2	B	
3	BW	
5	GR	
9	V	
10	R	
11	L	
12	Y	
13	BR	
14	G	
15	SB	
16	G	
17	P	
18	BR	
19	GR	
20	V	
21	LG	

Terminal No.	Wire	Signal Name [Specification]
22	SB	
23	G	
24	Y	
25	BR	
26	L	
27	W	
28	B	
29	R	
30	SHIELD	
31	G	
32	P	
33	L	
35	W	
36	L	
37	P	
38	SB	
39	O	
44	SB	
46	BW	
53	L	
54	B	
55	V	

Connector No.	D47	FRONT OUTSIDE HANDLE ASSEMBLY RH
Connector Name	SAZ06FW	
Connector Type		




Terminal No.	Wire	Signal Name [Specification]
1	SB	
2	B	
3	G	
4	BW	

Connector No.	E5	IPDM ER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Name	TH20FW-CS12-M4-1V	
Connector Type		




Terminal No.	Wire	Signal Name [Specification]
4	W	ENG SOL
5	P	IGN COIL
6	R	ECM V8 [With VQ engine]
6	SB	ECM V8 [With VK engine]
7	R	ETC [With VK engine]
7	Y	ETC [With VQ engine]
8	L/Y	A/C COMP [With VK engine]
8	P	A/C COMP [With VQ engine]
10	V	ECM BAT
11	B	P-GND
12	G	ABS ECU
13	GR	FUEL PUMP [With VQ engine]
13	W	FUEL PUMP [With VK engine]
16	V	WIPER AUTOSTOP
18	Y	IGN SIGNAL
22	BR	ALT-C
23	P	DTL RLY
24	O	HOOD SW
25	LG	SUB ECU
30	BR	PUSH START SW
31	BR	NP SW [With VK engine]
31	W	NP SW [With VQ engine]
36	GR	FIL IGN SW

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# ILLUMINATION

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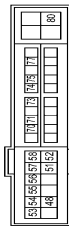
## ILLUMINATION

Connector No.	E5
Connector Name	POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH80FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
39	P	CANL
40	L	CANL
41	B	SGND
42	V	MOTOR FAN RLY CONT [With VK engine]
43	Y	MOTOR FAN RLY CONT [With VQ engine]
44	SB	DETENT SW
45	GR	HORN RLY [With VK engine]
46	LG	HORN RLY [With VQ engine]
47	G	HORN SW
48	BR	START CONT

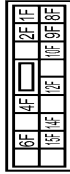
Connector No.	E7
Connector Name	POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH20FW-CS12-M4



Terminal No.	Color Of Wire	Signal Name [Specification]
48	P	DTRL DEICER
51	O	WASH MTR
52	G	INJECTOR #1
53	L	FR WIPER HI
54	P	FR WIPER LO
55	R	TAU/L LUMI
56	GR	O2 SENS #1
57	V	O2 SENS #2
58	BR	AT ECU
70	LG	SSOFF

71	O	MOTRLY
73	G	START (G-E/R)
74	R	START (G-E/G)
75	Y	OIL PRESSURE SW
77	B	FPR
80	W	STARTER MOTOR

Connector No.	E103
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
10F	GR	-
12F	Y	-
14F	W	-
15F	V	-
1F	SB	-
2F	LG	-
4F	G	-
6F	O	-
8F	BR	-
9F	R	-

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	W	-
3	SB	-
4	LG	-
5	O	-
6	W	-
7	GR	-
8	G	-
9	Y	-
10	BR	-
11	SB	-
12	L	-
13	GR	-
14	GR	-
15	V	-
16	Y	-
17	GR	-
18	V	-
20	BR	-
21	P	-
22	L	-
23	P	-
27	SHIELD	-
28	L/O	-
29	W/L	-
31	BR	-
32	G	-
33	O	-
34	Y	-
36	G	-
37	V	-
41	BR	-
44	W	-
45	L	-
46	GR	-
47	V	-
48	G	-
49	O	-
50	LG	-
54	R	-
55	B	-
60	W	-
61	G	-
62	Y	-
63	BR	-
64	B	-
65	Y	-
66	R	-

67	SB	-
68	G	-
69	SHIELD	-
70	W	-
71	W	-
72	R	-
73	G	-
74	Y	-
75	B	-
76	SHIELD	-
77	O	-
78	SB	-
80	V	-
82	SB	-
83	GR	-
84	Y	-
85	Y	-
86	L	-
87	V	-
88	BR	-
89	LG	-
90	W	-
91	W	-
92	P	-
93	LG	-
94	BR	-
95	W	-
97	R	-
98	Y	-
99	V	-
100	V	-

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2



Terminal No.	Color Of Wire	Signal Name [Specification]
1A	R	-
2A	W	-
3A	Y	-

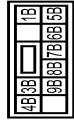
# ILLUMINATION

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## ILLUMINATION

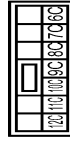
4A	W	-
5A	V	-
6A	Y	-
8A	Y	-

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1B	R	-
3B	P	-
4B	G	-
5B	SB	-
6B	W	- [With VQ engine]
7B	Y	- [With VK engine]
8B	R	-
9B	R	-

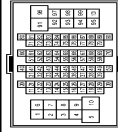
Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
10C	LG	-
11C	LG	-
12C	O	-
6C	R	-
7C	B	-

8C	B	-
9C	L	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	W	-
3	SB	-
4	LG	-
5	W	-
6	W	-
7	BG	-
8	G	-
9	Y	-
10	W	-
11	R	-
12	V	-
13	LG	-
14	L	-
15	V	-
16	B	-
17	GR	-
18	V	-
20	SB	-
21	BR	-
22	L	-
23	P	-
27	SHIELD	-
28	V	-
29	SB	-
31	BG	-
32	P	-
33	R	-
34	BG	-
36	V	-
37	G	-
41	BR	-

44	BR	-
45	Y	-
46	BG	-
47	V	-
48	G	-
49	BG	-
50	W	-
54	W	-
55	G	-
60	GR	-
61	B	-
62	LG	-
63	BR	-
64	L	- [With ICC]
64	SB	- [Without ICC]
65	R	- [With ICC]
65	R	- [Without ICC]
66	Y	-
67	P	-
68	R	-
69	SHIELD	-
70	B	-
71	W	-
72	R	-
73	G	-
74	Y	-
75	B	-
76	SHIELD	-
77	B	-
78	V	-
80	G	-
82	B	-
83	BG	-
84	SB	-
85	Y	-
86	L	-
87	V	-
88	V	-
89	LG	-
90	BG	-
91	W	-
92	BG	-
93	G	-
94	Y	-
95	W	-
97	SB	-
98	R	-
99	W	-
100	L	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	Y	-
4	BR	-
5	P	-
7	G	-
8	Y	-
9	G	-
10	V	-
11	L	-
11	V	- [With heated seat]
12	GR	- [With climate controlled seat]
12	P	- [With heated seat]
13	BR	-
14	GR	-
15	BG	-
16	V	-
17	BG	-
18	L	-
18	Y	- [Without CAN gateway]
19	W	- [With CAN gateway]
20	L	-
21	B	-
22	LG	-
23	W	-
24	V	-
25	G	-
26	BR	-
27	SB	-
28	P	-
29	L	-
30	SHIELD	-
32	L	-
33	P	-
34	W	-
35	SHIELD	-
36	BG	-

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# ILLUMINATION

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## ILLUMINATION

37	SB	-
41	SB	-
42	V	-
43	L	-
44	B	-
45	BG	-
46	P	-
47	L	-
48	LG	-
49	BR	-
50	V	-
51	V	-
52	P	-
53	BG	-
55	G	-
56	SB	-
57	P	-
58	LG	-
59	V	-
60	GR	-
61	B	-
62	LG	-
63	BR	-
65	W	-
66	R	-
67	V	-
68	LG	-
69	SB	-
70	V	-
72	L	-
73	P	-
74	L	-
75	P	-
76	G	-
77	Y	-
78	SB	-
79	W	-
81	LG	-
82	BR	-
83	BG	-
84	B	-
85	W	-
86	G	-
87	R	-
88	G	-
91	W	-
92	G	-
95	W	-
97	RG	-
98	Y	-

99	LG	-
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Connector No.	M10
Connector Name	DIODE
Connector Type	24335, C9602



Terminal Color Of Wire	Signal Name [Specification]
1 B	-
2 B	-

Connector No.	M20
Connector Name	PCB HARNESS
Connector Type	TH40FB-NH



Terminal Color Of Wire	Signal Name [Specification]
1 B	-
2 B	-
3 Y	-
4 G	-
5 R	-
6 W	-
11 BR	-
12 R	-
15 B	-
16 SHIELD	-
17 R	-
18 P	-
19 W	-
21 W	-
22 R	- [With ICC]

22	Y	- [Without ICC]
23	L	- [With ICC]
23	SB	- [Without ICC]
24	L	-
27	P	-
31	V	-
33	V	-
35	L	-
36	P	-
38	L	-
40	Y	-

Connector No.	M22
Connector Name	PCB HARNESS
Connector Type	TH40FB-NH



Terminal Color Of Wire	Signal Name [Specification]
81 L	-
82 P	-
83 B	-
84 B	-
85 B	-
86 B	-
87 B	-
88 B	-
89 Y	-
91 V	-
92 V	-
93 B	-
94 B	-
95 LG	-
96 BR	-
97 G	-
98 G	-
99 G	-
100 G	-
101 L	-
102 P	-
103 B	-
104 BR	-

105	R	-
107	Y	-
108	Y	-
109	BR	-
110	Y	-
112	B	-
113	P	-
114	L	-
116	B	-
117	B	- [With VK engine]
117	BG	- [With VQ engine]
118	B	-
119	LG	-
120	V	-

Connector No.	M23
Connector Name	PCB HARNESS
Connector Type	TH40FB-NH



Terminal No.	Color Of Wire	Signal Name (Specification)
121	R	-
122	V	-
123	BG	-
124	BG	-
126	B	-
131	SB	-
132	LG	-
133	L	-
134	L	-
135	P	-
136	P	-
137	Y	-
138	L	-
141	W	-
142	W	-
145	B	-
146	LG	-
147	B	-
149	B	-

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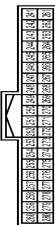
Terminal No.	Color Of Wire	Signal Name [Specification]
151	L	-
152	B	-
153	W	-
154	W	-
155	W	-
156	R	-
157	R	-
158	R	-
159	R	-

Connector No.	M24
Connector Name	PCB HARNESS
Connector Type	TH40FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
192	B	-
193	SB	-
194	BR	-
195	SB	-
196	R	-
197	R	-
198	R	-
199	R	-
200	SB	-

Connector No.	M26
Connector Name	PCB HARNESS
Connector Type	TH40FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
273	R	-
274	R	-
275	Y	-
276	B	-
277	G	-
278	R	-
279	R	-
280	Y	-

Connector No.	M27
Connector Name	PCB HARNESS
Connector Type	TH40FB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
311	W	-
312	B	-
313	B	-
314	Y	-
315	G	-
316	R	-
317	W	-
318	SHIELD	-
319	V	-
320	W	-

Connector No.	M30
Connector Name	PCB HARNESS
Connector Type	TH40FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
161	BG	-
162	BG	-
164	V	-
165	V	-
166	R	-
167	LG	-
169	R	-
171	BG	-
172	B	-
174	W	-
176	L	-
177	P	-
178	Y	-
179	L	-
180	LG	-
182	BR	- [With VG engine or with VK engine without ICC]
182	R	- [With VK engine with ICC]
183	G	-
184	V	-
185	P	-
186	R	-
187	L	-
187	Y	- [Without CAN gateway]
188	L	- [With CAN gateway]
189	B	-
190	V	-
191	LG	-

Terminal No.	Color Of Wire	Signal Name [Specification]
241	L	-
242	L	-
243	R	- [With ICC]
243	Y	- [Without ICC]
244	L	- [With ICC]
244	SB	- [Without ICC]
245	B	-
246	B	-
247	B	-
248	SHIELD	-
251	SHIELD	-
252	B	-
253	B	-
254	B	-
254	W	- [With heated seat]
255	B	-
258	R	-
259	L	-
260	BG	-
261	P	-
262	P	-
267	P	-
268	Y	-
269	G	-
270	Y	-
271	BR	-
272	G	-

Terminal No.	Color Of Wire	Signal Name [Specification]
281	O	-
282	BG	-
283	BG	-
284	BG	-
286	W	-
287	Y	-
289	SHIELD	-
290	B	-
291	SHIELD	-
292	B	-
293	B	-
294	B	-
295	B	-
296	GR	-
297	B	-
298	B	-
299	L	-
300	W	-
301	R	-
302	R	-
303	R	-
304	SHIELD	-
305	P	-
306	V	-
309	G	-
310	R	-

Terminal No.	Color Of Wire	Signal Name [Specification]
402	R	-
403	R	-
406	B	-
407	V	-
408	B	-
409	B	-
410	B	-
411	B	-
413	Y	-
414	BR	-
416	LG	-
417	B	-
419	SB	-
420	SHIELD	-
422	V	-
427	P	-
428	V	-
439	P	-
430	LG	-
431	B	-
432	Y	-
435	V	-
436	BG	-
437	B	-

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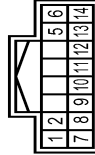
# ILLUMINATION

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### ILLUMINATION

438	P	-
439	L	-
440	B	-

Connector No.	M33
Connector Name	COMBINATION SWITCH
Connector Type	TH16FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	FR WASHER (-)
2	SB	OUTPUT 4
5	L	OUTPUT 3
6	B	GND
7	V	INPUT 3
8	BG	OUTPUT 5
9	Y	INPUT 2
10	R	INPUT 4
11	LG	INPUT 1
12	P	OUTPUT 1
13	BR	INPUT 5
14	G	OUTPUT 2

Connector No.	M35
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FY-EX-1V



Terminal No.	Color Of Wire	Signal Name [Specification]
23	R	-
28	Y	-
29	Y	-

30	Y	-
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Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-1V



Terminal No.	Color Of Wire	Signal Name [Specification]
24	P	-
25	SB	-
26	B	-
31	L	-
32	Y	-
33	B	-
34	LG	-

Connector No.	M50
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TK08FR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	B	-
3	R	-
4	BR	-
5	GR	-
6	Y	-
7	V	-
8	W	-

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	TH09FW-NH



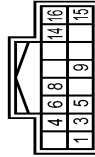
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BATTERY POWER SUPPLY
2	BG	IGNITION SIGNAL
3	GR	VEHICLE SPEED SIGNAL (2-PULSE)
4	R	VEHICLE SPEED SIGNAL (8-PULSE)
5	B	ILLUMINATION CONTROL SIGNAL
6	B	METER CONTROL SWITCH GROUND
7	SB	ENTER SWITCH SIGNAL
8	LG	SELECT SWITCH SIGNAL
9	G	ILLUMINATION CONTROL SWITCH SIGNAL (+)
10	GR	ILLUMINATION CONTROL SWITCH SIGNAL (-)
11	L	TRIP RESET SWITCH SIGNAL
12	B	GROUND
14	L	CANH
15	P	AIR BAG SIGNAL
16	R	LED HEADLAMP (RH) WARNING SIGNAL
17	G	LED HEADLAMP (LH) WARNING SIGNAL
18	V	WASHER LEVEL SWITCH SIGNAL
23	B	GROUND
24	B	FUEL LEVEL SENSOR GROUND
25	W	ALTERNATOR SIGNAL
26	V	PARKING BRAKE SWITCH SIGNAL
27	V	BRAKE FLUID LEVEL SWITCH SIGNAL
28	G	SECURITY SIGNAL
29	L	WASHER LEVEL SWITCH SIGNAL
32	G	PADDLE SHIFTER SHIFT DOWN SIGNAL
33	BG	PADDLE SHIFTER SHIFT UP SIGNAL
34	G	FUEL LEVEL SENSOR SIGNAL
35	W	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SEAT)
36	G	PASSENGER SEAT BELT WARNING SIGNAL
37	G	NON-MANUAL MODE SIGNAL
38	V	MANUAL MODE SHIFT DOWN SIGNAL
39	L	MANUAL MODE SHIFT UP SIGNAL
40	W	MANUAL MODE SIGNAL

Connector No.	M54
Connector Name	METER CONTROL SWITCH
Connector Type	TH12MW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	B	-
3	GR	-
4	R	-
5	W	-
6	G	-
9	BG	-
10	GR	-
11	LG	-
12	L	-

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH16FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GND
3	V	ACC
4	R	ILL
5	B	ILL CONT
6	SB	AV COMM (H)
8	LG	AV COMM (L)
9	BR	SW GND
14	SB	DISK EJECT SIGNAL
15	R	AIR BAG CUT OFF
16	G	HAZARD ON

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# ILLUMINATION

## ILLUMINATION

Connector No.	M74
Connector Name	CLOCK
Connector Type	TH4FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BATTERY POWER SUPPLY
2	B	GROUND
3	R	ILLUMINATION (+)
4	B	ILLUMINATION (-)

Connector No.	M81
Connector Name	AV CONTROL UNIT
Connector Type	TH18FW-CS2



Terminal No.	Color Of Wire	Signal Name [Specification]
2	G	SOUND SIGNAL FRONT LH (+)
3	L	SOUND SIGNAL FRONT LH (-)
4	GR	SOUND SIGNAL REAR LH (+)
5	G	SOUND SIGNAL REAR LH (-)
6	P	STRG SW A
7	V	ACC POWER SUPPLY
9	SB	ILLUMINATION
11	BR	SOUND SIGNAL FRONT RH (+)
12	R	SOUND SIGNAL FRONT RH (-)
13	P	SOUND SIGNAL REAR RH (+)
14	V	SOUND SIGNAL REAR RH (-)
15	B	STRG SW B
16	L	STRG SW B
19	Y	BATTERY POWER SUPPLY
20	B	GROUND

Connector No.	M82
Connector Name	AV CONTROL UNIT
Connector Type	TH4FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
36	BG	SIGNAL VCC
37	B	SIGNAL GND
38	G	VP
39	Y	COMM (DSP->CONT)
40	R	RGB AREA (VS) SIGNAL
41	SHIELD	SHIELD
42	W	RGB SYNC
43	R	RGB (R-RED) SIGNAL
44	B	RGB (G-GREEN) SIGNAL
45	W	RGB (B-BLUE) SIGNAL
46	V	COMPOSITE IMAGE SIGNAL
47	SB	COMPOSITE IMAGE GND
48	L	INVERTER VCC
49	LG	INVERTER GND
50	B	VP
51	BR	COMM (CONT->DSP)
52	SHIELD	SHIELD
57	SHIELD	SHIELD
58	SHIELD	SHIELD

Connector No.	M91
Connector Name	WIRE TO WIRE
Connector Type	TK02FBR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	R	-

Connector No.	M92
Connector Name	WIRE TO WIRE
Connector Type	TK02MBR-P



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	R	-

Connector No.	M93
Connector Name	GLOVE BOX LAMP
Connector Type	A02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	B	-

Connector No.	M94
Connector Name	OPTICAL SENSOR
Connector Type	TK03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	POWER
2	W	OUTPUT
3	B	GND

Connector No.	M105
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
2	R	-
3	B	-
5	LG	-
6	P	-
7	L	-
8	P	-
9	B	-
10	W	-
11	W	-
12	SB	-
13	G	-
14	SB	-
15	BR	-
16	V	-
17	P	-
18	G	-
22	BG	-

# ILLUMINATION

## < WIRING DIAGRAM >

### ILLUMINATION

23	B	-
25	W	-
30	R	-
31	BR	-
32	L	-
33	P	-
34	LG	-
35	W	-
36	LG	-
37	L	-
38	EG	-
39	SHIELD	-
40	W	-

Connector No.	M110
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	Y	-
3	W	-
4	R	-
5	L	-
6	B	-
7	BR	-
8	R	-
9	B	-
10	V	-
11	BR	-
12	G	-
13	L	-
20	V	-
21	R	-
22	G	-
23	L	-

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24

Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
3	Y	-
6	R	-
7	W	-
8	V	-
11	R	-
12	G	-
13	W	-
14	L	-
15	R	- [Without ADAS]
15	Y	- [With ADAS]
17	GR	-
18	P	-
19	BR	-
20	GR	-
21	Y	-
22	LG	-
23	R	-
24	B	-
25	EG	-
26	W	-
28	V	-
29	P	-
30	B	-
31	G	-
32	Y	-
40	SHIELD	-
41	R	-
42	V	-
45	SB	-
46	EG	-
46	L	- [With heated seat]
47	G	- [With climate controlled seat]
47	GR	- [With climate controlled seat]
48	V	- [With heated seat]
49	EG	-

50	LG	-
51	SB	-
52	Y	-
53	W	-
56	B	-
57	G	-
58	R	-
59	W	-
61	LG	-
62	V	-
63	R	-
64	SB	-
65	LG	-
66	L	-
67	Y	-
68	SB	-
69	B	-
71	L	-
72	L	-
73	P	-
74	B	-
75	L	-
76	SHIELD	-
77	G	-
78	R	-
79	L	-
80	G	-
81	EG	-
82	BR	-
83	GR	-
84	V	-
85	LG	-
86	V	-
87	R	-
88	Y	-
89	BR	-
90	L	-
91	Y	-
93	G	- [With heated seat]
93	W	- [With climate controlled seat]
94	V	-
96	W	-
97	Y	-
98	BR	-
99	G	-
100	Y	-

Connector No.	M120
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	RR WINDOW DEFG RLY CONT
2	EG	COMBI SW INPUT 5
3	SB	COMBI SW INPUT 4
4	L	COMBI SW INPUT 3
5	G	COMBI SW INPUT 2
6	P	COMBI SW INPUT 1
8	V	POWER WINDOW SW COMM
9	P	STOP LAMP SW 1
11	R	RAIN SENSOR SERIAL LINK
14	W	OPTICAL SENSOR
16	SB	DIMMER SIGNAL
17	Y	SENSOR PWR SPLY
18	B	RECEIVER / SENSOR GND
19	V	TURN SIG RH OUTPUT (FRONT)
20	G	TURN SIG LH OUTPUT (FRONT)
21	P	NATS ANT AMP.
22	GR	KYLS ENT RECEIVER RSSI
23	G	SECURITY IND CONT
24	L	DONGLE LINK
25	G	NATS ANT AMP.
26	G	I-KEY IDENTIFICATION
29	G	HAZARD SW
30	O	TR LID OPNR SW
31	W	DR DOOR UNLK SENSOR
32	BR	COMBI SW OUTPUT 5
33	R	COMBI SW OUTPUT 4
34	V	COMBI SW OUTPUT 3
35	Y	COMBI SW OUTPUT 2
36	LG	COMBI SW OUTPUT 1
37	R	P POSITION
39	L	CANH
40	P	CANH

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## ILLUMINATION

Connector No.	M121
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FB-FH46-SA



41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
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Terminal No.	Color Of Wire	Signal Name [Specification]
41	W	TR KEY CYLINDER SW
42	R	TRUNK LID OPEN/CLOSE STATUS
43	V	TR LID OP CANCEL SW
44	GR	PASSENGER DOOR SW
45	BR	REAR RH DOOR SW
46	LG	DRIVER LH DOOR SW
47	P	TR ROOM LAMP CONT
48	SB	TR LID OPEN REQ SW
49	BG	TR LID OPEN REQUEST
50	LG	RR DOOR UNLK OUTPUT
51	BR	

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FH46-SA



56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
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Terminal No.	Color Of Wire	Signal Name [Specification]
56	R	INT ROOM LAMP PWR SPLY
57	R	BAT (FUSE)
58	L	SENS CANCEL SW
59	G	PASS DOOR UNLK OUTPUT
60	G	TURN SIG LH OUTPUT (SIDE, REAR)
61	V	TURN SIG RH OUTPUT (SIDE, REAR)
62	V	STEP LAMP CONT
63	L	ROOM LAMP-TIMER CONT
64	V	ALL DOOR, FL LID LOCK OUTPUT

66	LG	DR DOOR, FL LID UNLK OUTPUT
67	B	GND
68	O	PW PWR SPLY (IGN)
69	Y	PW PWR SPLY (BAT)
70	W	BAT (FL)

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW-NH



71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
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Terminal No.	Color Of Wire	Signal Name [Specification]
71	BR	KYLS ENT RECEIVER COMM
72	B	OUTS HD LAMP OUTPUT
73	V	ON IND
74	G	DR DOOR REQ SW
75	BR	PUSH SW
76	BR	DRIVER DOOR ANT+
77	SB	DRIVER DOOR ANT-
78	LG	PASSENGER DOOR ANT+
79	V	PASSENGER DOOR ANT-
80	V	REAR BMPR ANT+
81	SB	REAR BMPR ANT-
82	BR	ROOM ANT1+
83	Y	ROOM ANT1-
84	R	ROOM ANT2+
85	G	ROOM ANT2-
86	V	TRUNK ROOM ANT+
87	SB	TRUNK ROOM ANT-
88	GR	PUSH-BTN IGN SW ILL PWR
89	B	LOCK IND
90	V	PUSH-BTN IGN SW ILL GND
91	SB	I-KEY WARN BUZZER
92	SB	ACC RELAY COIT
93	B	STARTER RELAY COIT
94	R	IGN RELAY (JRM, E/R) CONT
95	R	IGN RELAY (F/B) CONT
96	BR	PASS DOOR REG SW
97	BR	PIN POSITION
98	GR	AT SHFT SELECT PWR SPLY
99	R	STOP LAMP SW 2

106	B	BLWR RELAY CONT
107	Y	ACC IND
108	R	RECEIVER PWR SPLY

Connector No.	M132
Connector Name	CIGARETTE LIGHTER SOCKET
Connector Type	NS03FW-CS



3	2	1
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Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	- [With heated seat]
2	R	- [With heated seat]
3	Y	- [With heated seat]

Connector No.	M135
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH



16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17

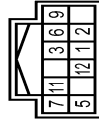
# ILLUMINATION

< WIRING DIAGRAM >

## ILLUMINATION

13	G	-
14	SB	-
15	BR	-
16	V	-
17	P	-
18	G	-
22	BG	-
23	B	-
25	W	-
30	R	-
31	BR	-
32	L	-
33	P	-
34	LG	-
35	W	-
36	LG	-
37	L	-
38	BG	-
39	SHIELD	-
40	W	-

Connector No.	M183
Connector Name	TRIPLE SWITCH
Connector Type	TH12FB-NH



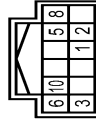
Terminal No.	Wire	Signal Name [Specification]
1	LG	-
2	BR	- [With ICC]
3	SB	- [Without ICC]
5	BR	-
6	R	-
7	B	-
9	W	-
11	B	-
12	L	-

Connector No.	M187
Connector Name	TRUNK LID OPENER SWITCH
Connector Type	TH38FB-NH



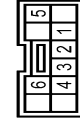
Terminal No.	Wire	Signal Name [Specification]
1	BG	-
2	B	-
3	R	-
4	B	-

Connector No.	M188
Connector Name	TWIN SWITCH
Connector Type	TH12FGY-NH



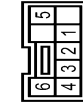
Terminal No.	Wire	Signal Name [Specification]
1	G	-
2	SB	-
3	B	-
5	BG	-
6	B	-
8	W	-
10	B	-

Connector No.	M188
Connector Name	FRONT HEATED SEAT SWITCH (DRIVER SIDE)
Connector Type	TK10FW



Terminal No.	Wire	Signal Name [Specification]
1	P	-
2	V	-
3	B	-
4	B	-
5	W	-
6	B	-

Connector No.	M199
Connector Name	FRONT HEATED SEAT SWITCH (PASSENGER SIDE)
Connector Type	TK08FBR



Terminal No.	Wire	Signal Name [Specification]
1	L	-
2	G	-
3	R	-
4	R	-
5	Y	-
6	B	-

Connector No.	M201
Connector Name	WIPE TO WIPE
Connector Type	TH32MV-NH



Terminal No.	Wire	Signal Name [Specification]
1	Y	-
2	BG	-
5	V	-
6	P	-
7	SB	-
10	G	-
11	L	-
12	R	-
13	W	-
14	L	-
15	G	-
16	Y	-
17	W	-
18	BR	-
19	GR	-
20	B	-
21	R	-
22	B	-
23	BG	-
24	V	-
25	B	-
26	R	-
27	B	-
27	R	- [With climate controlled seat]
28	B	- [With heated seat]
29	B	-
30	B	-
32	R	-

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# ILLUMINATION

< WIRING DIAGRAM >

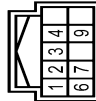
## ILLUMINATION

Connector No.	M202
Connector Name	A/T SHIFT SELECTOR ILLUMINATION
Connector Type	TK02FBR-B



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	B	-

Connector No.	M203
Connector Name	DRIVE MODE SELECT SWITCH
Connector Type	TH10FBN-H



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	L	-
3	G	-
4	Y	-
6	B	-
7	B	-
9	R	-

Connector No.	M204
Connector Name	CLIMATE CONTROLLED SEAT SWITCH (DRIVER SIDE)
Connector Type	TK10FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BG	-
2	V	-
3	P	-
4	BR	-
5	GR	-
6	B	-
7	R	-
8	B	-

Connector No.	M205
Connector Name	CLIMATE CONTROLLED SEAT SWITCH (PASSENGER SIDE)
Connector Type	TK08FBR



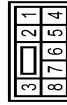
Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	G	-
3	L	-
4	BG	-
5	V	-
6	B	-
7	R	-
8	B	-

Connector No.	M206
Connector Name	WIPE TO WIRE
Connector Type	NS08MW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	BG	-
3	V	-
4	SB	-
5	B	-
6	G	-
7	R	-
8	SHIELD	-

Connector No.	M207
Connector Name	WIPE TO WIRE
Connector Type	NS08FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	BG	-
3	V	-
4	SB	-
5	B	-
6	G	-
7	R	-
8	SHIELD	-

Connector No.	M210
Connector Name	AV CONTROL UNIT
Connector Type	TH32FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
65	V	PARKING BRAKE SIGNAL
67	R	COMPOSITE IMAGE SIGNAL GND
68	W	COMPOSITE IMAGE SIGNAL
69	G	I-KEY IDENTIFICATION SIGNAL
70	P	-
71	SHIELD	-
72	G	MICROPHONE SHIELD
73	BR	MICROPHONE VCC
74	P	COMM (CONT->DISP)
75	LG	CANL
76	LG	AV COMM (L)
79	SB	AV COMM (L)
80	W	DIMMER SIGNAL
81	W	IGNITION SIGNAL
81	BG	REVERSE SIGNAL
82	R	VEHICLE SPEED SIGNAL (8-PULSE)
83	SHIELD	SHIELD
84	B	COMPOSITE IMAGE SYNC SIGNAL
87	R	MICROPHONE SIGNAL
88	SHIELD	SHIELD
89	Y	COMM (DISP->CONT)
90	L	CANH
91	SB	AV COMM (H)
92	SB	AV COMM (H)

JRLWE0543GB

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## ILLUMINATION

Connector No.	M221
Connector Name	WIRE TO WIRE
Connector Type	M03FW-LC



1	2
3	2

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	R	-
3	W	-

Connector No.	M222
Connector Name	WIRE TO WIRE
Connector Type	M03MW-LC



1	2
3	2

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	R	-
3	Y	-

Connector No.	M303
Connector Name	COMBINATION SWITCH (SPRAL CABLE)
Connector Type	TK08FGY



20	19	18	17	16	15	14	13
16	15	14	13	12	11	10	9

Terminal No.	Color Of Wire	Signal Name [Specification]
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-

Connector No.	R2
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24

Terminal No.	Color Of Wire	Signal Name [Specification]
2	G	-
5	SHIELD	-
6	R	-
7	G	-
8	B	-
9	B	-
10	P	-
11	BR	-
12	R	-
13	LG	-
14	V	-
17	LG	-

18	L
19	G
20	R
21	R
22	B
23	GR
24	P

Connector No.	R7
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



12	11	10	9	8	7	6	5	4	3	2	1
24	23	22	21	20	19	18	17	16	15	14	13

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	Y	-
3	W	-
4	R	-
5	L	-
6	B	-
7	R	-
8	P	-
9	B	-
10	V	-
11	BR	-
12	G	-
13	L	-
20	R	-
21	R	-
22	G	-
23	L	-
24	LG	-

Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



12	11	10	9	8	7	6	5	4	3	2	1
24	23	22	21	20	19	18	17	16	15	14	13

Terminal No.	Color Of Wire	Signal Name [Specification]
2	G	-
5	SHIELD	-
6	R	-
7	G	-
8	B	-
9	B	-
10	R	-
11	BR	-
12	R	-
13	BR	-
14	V	-
17	L	-
18	LG	-
19	R	-
20	G	-
21	R	-
22	B	-
23	GR	-
24	P	-

Connector No.	R15
Connector Name	MAP LAMP
Connector Type	TK08FGY



1	6	5	4	3	2	1
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

ILLUMINATION

< WIRING DIAGRAM >

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ILLUMINATION		
Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	SB	-
3	B	-
4	Y	-
5	B/Y	-
6	G	-

Connector No.	R22
Connector Name	TELEMATICS SWITCH
Connector Type	TH08FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	BR	-
3	G	-
5	SB	-
6	B	-
7	B	-

JRLWE0545GB

# DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

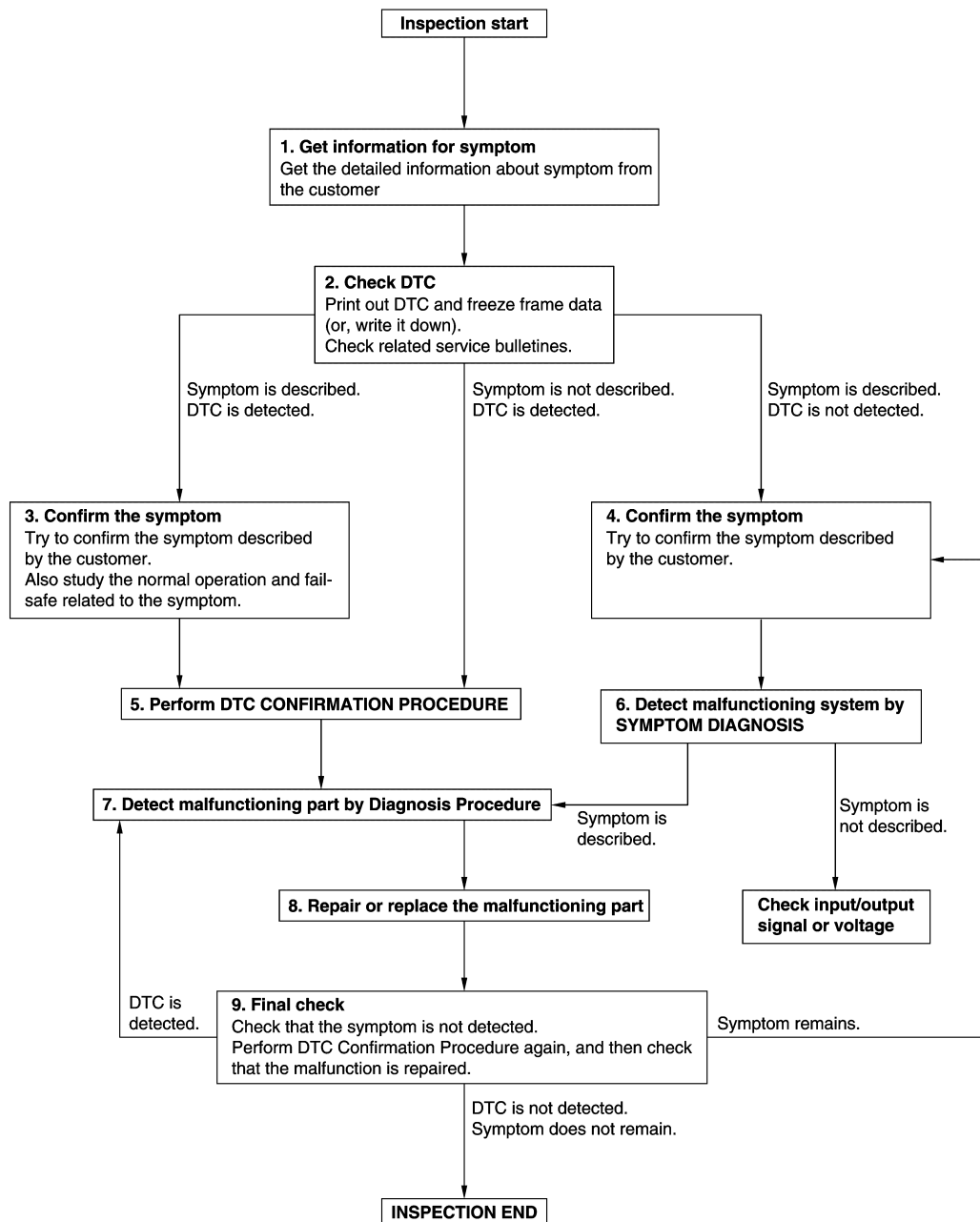
## BASIC INSPECTION

### DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:0000000011256434

#### OVERALL SEQUENCE



JMKIA8652GB

#### DETAILED FLOW

# DIAGNOSIS AND REPAIR WORK FLOW

## < BASIC INSPECTION >

### 1.GET INFORMATION FOR SYMPTOM

1. Get detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurs).
2. Check operation condition of the function that is malfunctioning.

>> GO TO 2.

### 2.CHECK DTC

1. Check DTC.
2. Perform the following procedure if DTC is detected.
  - Record DTC and freeze frame data (Print them out using CONSULT.)
  - Erase DTC.
  - Study the relationship between the cause detected by DTC and the symptom described by the customer.
3. Check related service bulletins for information.

#### Are any symptoms described and any DTC detected?

Symptom is described, DTC is detected>>GO TO 3.

Symptom is described, DTC is not detected>>GO TO 4.

Symptom is not described, DTC is detected>>GO TO 5.

### 3.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

Also study the normal operation and fail-safe related to the symptom.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

### 4.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6.

### 5.PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC CONFIRMATION PROCEDURE for the detected DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check self diagnostic results in real time. If two or more DTCs are detected, refer to DTC INSPECTION PRIORITY CHART, and determine trouble diagnosis order.

#### **NOTE:**

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC CONFIRMATION PROCEDURE is not included on Service Manual. This simplified check procedure is an effective alternative though DTC cannot be detected during this check.  
If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC CONFIRMATION PROCEDURE.

#### Is DTC detected?

YES >> GO TO 7.

NO >> Check according to [GI-44. "Intermittent Incident"](#).

### 6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

Detect malfunctioning system according to SYMPTOM DIAGNOSIS based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom.

#### Is the symptom described?

YES >> GO TO 7.

NO >> Monitor input data from related sensors or check voltage of related module terminals using CONSULT.

### 7.DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

## DIAGNOSIS AND REPAIR WORK FLOW

### < BASIC INSPECTION >

---

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to [GI-44, "Intermittent Incident"](#).

### 8. REPAIR OR REPLACE THE MALFUNCTIONING PART

---

1. Repair or replace the malfunctioning part.
2. Reconnect parts or connectors disconnected during Diagnosis Procedure again after repair and replacement.
3. Check DTC. If DTC is detected, erase it.

>> GO TO 9.

### 9. FINAL CHECK

---

When DTC is detected in step 2, perform DTC CONFIRMATION PROCEDURE again, and then check that the malfunction is repaired securely.

When symptom is described by the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Is DTC detected and does symptom remain?

YES-1 >> DTC is detected: GO TO 7.

YES-2 >> Symptom remains: GO TO 4.

NO >> Before returning the vehicle to the customer, always erase DTC.



# INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## DTC/CIRCUIT DIAGNOSIS

### INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

#### Description

INFOID:0000000011256435

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

#### Component Function Check

INFOID:0000000011256436

#### 1.CHECK INTERIOR ROOM LAMP POWER SUPPLY FUNCTION

##### CONSULT ACTIVE TEST

1. Turn ignition switch ON.
2. Turn each interior room lamp ON.
  - Personal lamp
  - Map lamp
  - Foot lamp
  - Trunk room lamp
  - Step lamp
  - Outside handle lamp
  - Vanity mirror 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 the interior room lamp turn ON/OFF?

YES >> Interior room lamp power supply circuit is normal.

NO >> Refer to [INL-57, "Diagnosis Procedure"](#).

#### Diagnosis Procedure

INFOID:0000000011256437

#### 1.CHECK INTERIOR ROOM LAMP POWER SUPPLY OUTPUT

##### CONSULT ACTIVE TEST

1. Turn ignition switch OFF.
2. Disconnect the following connectors.
  - Personal lamp
  - Map lamp
  - Foot lamp (both sides)
  - Trunk room lamp
  - Step lamp (ALL)
  - Outside handle lamp (both sides)
  - Vanity mirror lamp (both sides)
3. Turn ignition 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.

BCM		(-)	Test item		Voltage (Approx.)
(+)					
Connector	Terminal				
M122	56	Ground	BATTERY SAVER	Off	0 V
				On	12 V

Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 3.

# INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## 2.CHECK INTERIOR ROOM LAMP POWER SUPPLY OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect the BCM connector.
3. Check continuity between BCM harness connector and each interior room lamp harness connector.

BCM		Each interior room lamp		Continuity	
Connector	Terminal	Connector	Terminal		
M122	56	Personal lamp	R14	1	Existed
		Map lamp	R15		
		Foot lamp (driver side)	M186		
		Foot lamp (passenger side)	M114		
		Trunk room lamp	B47		
		Step lamp (driver side)	D12		
		Step lamp (passenger side)	D42		
		Step lamp (Rear LH)	D57		
		Step lamp (Rear RH)	D77		
		Outside handle lamp (driver side)	D17	3	
		Outside handle lamp (passenger side)	D47		
		Vanity mirror lamp (driver side)	R12	2	
		Vanity mirror lamp (passenger side)	R13		

Is the inspection result normal?

- YES >> Check for internal short circuit of each interior room lamp.  
 NO >> Repair or replace harnesses.

## 3.CHECK INTERIOR ROOM LAMP POWER SUPPLY SHORT CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect the BCM connector.
3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M122	56		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-91. "Removal and Installation"](#).  
 NO >> Repair or replace harnesses.

# INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## INTERIOR ROOM LAMP CONTROL CIRCUIT

### Description

INFOID:0000000011256438

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

INFOID:0000000011256439

#### NOTE:

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

- Interior room lamp power supply
- Map lamp bulb
- Personal lamp bulb
- Foot lamp bulb

### 1.CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

#### CONSULT ACTIVE TEST

1. Switch the map lamp switch to DOOR.
2. Turn ignition 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-59, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:0000000011256440

### 1.CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

#### CONSULT ACTIVE TEST

1. Turn ignition switch OFF.
2. Remove all the bulbs of map lamp, foot lamp and personal lamp.
3. Turn ignition 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.

BCM		Ground	Test item		Continuity
Connector	Terminal		INT LAMP	On	Existed
M122	63			Off	Not existed

Is the inspection result normal?

YES >> GO TO 2.

NO-1 >> Continuity exists and remains unchanged: GO TO 3.

NO-2 >> Continuity does not exist and remains unchanged: Replace BCM. Refer to [BCS-91, "Removal and Installation"](#).

### 2.CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector, map lamp connector, personal lamp connector and foot lamp connector.
3. Check continuity between BCM harness connector and foot lamp harness connector.

# INTERIOR ROOM LAMP CONTROL CIRCUIT

## < DTC/CIRCUIT DIAGNOSIS >

BCM		Foot lamp		Continuity
Connector	Terminal	Connector	Terminal	
M122	63	Driver side	M186	Existed
		Passenger side	M114	

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

BCM		Map lamp		Continuity
Connector	Terminal	Connector	Terminal	
M122	63	R15	2	Existed

5. Check continuity between personal lamp harness connector and map lamp harness connector.

Personal lamp		Map lamp		Continuity
Connector	Terminal	Connector	Terminal	
R14	3	R15	4	Existed

### Is the inspection result normal?

YES >> Replace map lamp, personal lamp or foot lamp.

NO >> Repair or replace harnesses.

## 3.CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM connector, map lamp connector, personal lamp connector and foot lamp connector.
- Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M122	63		Not existed

### Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-91, "Removal and Installation"](#).

NO >> Repair or replace harnesses.

# TRUNK ROOM LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## TRUNK ROOM LAMP CIRCUIT

### Description

INFOID:0000000011256441

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

### Diagnosis Procedure

INFOID:0000000011256442

#### NOTE:

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

- Interior room lamp power supply
- Trunk room lamp bulb

### 1.CHECK TRUNK ROOM LAMP OUTPUT

1. Turn ignition switch OFF.
2. Remove the trunk room lamp bulb.
3. Check continuity between BCM harness connector and ground.

BCM		Ground	Condition		Continuity
Connector	Terminal		Trunk lid	Open	Existed
M121	49			Closed	Not existed

Is the inspection result normal?

YES >> GO TO 2.

NO-1 >> Continuity exists and remains unchanged: GO TO 3.

NO-2 >> Continuity does not exist and remains unchanged: Replace BCM. Refer to [BCS-91, "Removal and Installation"](#).

### 2.CHECK TRUNK ROOM LAMP OPEN CIRCUIT

1. Disconnect BCM connector and trunk room lamp connector.
2. Check continuity between BCM harness connector and trunk room lamp harness connector.

BCM		Trunk room lamp		Continuity
Connector	Terminal	Connector	Terminal	
M121	49	B47	2	Existed

Is the inspection result normal?

YES >> Replace trunk room lamp.

NO >> Repair or replace harnesses.

### 3.CHECK TRUNK ROOM LAMP SHORT CIRCUIT

1. Disconnect BCM connector and trunk room lamp connector.
2. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		Not existed
M121	49		

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-91, "Removal and Installation"](#).

NO >> Repair or replace harnesses.

# STEP LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## STEP LAMP CIRCUIT

### Description

INFOID:0000000011256443

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

### Component Function Check

INFOID:0000000011256444

#### NOTE:

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

- Interior room lamp power supply
- Step lamp bulb

### 1.CHECK STEP LAMP OPERATION

#### CONSULT ACTIVE TEST

1. Turn ignition switch ON.
2. Select "STEP LAMP TEST" of BCM (INT LAMP) active test item.
3. With operating the test items, check that step lamp turns ON/OFF.

On : Step lamp ON

Off : Step lamp OFF

Does the step lamp turn ON/OFF?

YES >> Step lamp circuit is normal.

NO >> Refer to [INL-62, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:0000000011256445

### 1.CHECK STEP LAMP OUTPUT

#### CONSULT ACTIVE TEST

1. Turn ignition switch OFF.
2. Remove the step lamp bulbs (ALL).
3. Turn ignition switch ON.
4. Select "STEP LAMP TEST" of BCM (INT LAMP) active test item.
5. With operating the test item, check continuity between BCM harness connector and ground.

BCM		Ground	Test item		Continuity
Connector	Terminal				
M122	62		STEP LAMP TEST	On	Existed
				Off	Not existed

Is the inspection result normal?

YES >> GO TO 2.

NO-1 >> Continuity exists and remains unchanged: GO TO 3.

NO-2 >> Continuity does not exist and remains unchanged: Replace BCM. Refer to [BCS-91, "Removal and Installation"](#).

### 2.CHECK STEP LAMP OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector, and step lamp connector.
3. Check continuity between BCM harness connector and step lamp harness connector.

BCM		Step lamp			Continuity
Connector	Terminal	Connector		Terminal	
M122	62	Driver side	D12	2	Existed
		Passenger side	D42		
		Rear LH	D57		
		Rear RH	D77		

## STEP LAMP CIRCUIT

### < DTC/CIRCUIT DIAGNOSIS >

#### Is the inspection result normal?

YES >> Replace step lamp.

NO >> Repair or replace harnesses.

### 3.CHECK STEP LAMP SHORT CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and step lamp connector.
3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M122	62		Not existed

#### Is the inspection result normal?

YES >> Repair or replace harnesses.

NO >> Replace BCM. Refer to [BCS-91, "Removal and Installation"](#).

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# OUTSIDE HANDLE LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## OUTSIDE HANDLE LAMP CIRCUIT

### Description

INFOID:0000000011256446

Controls the outside handle lamp (ground side) to turn the outside handle lamp ON and OFF.

### Diagnosis Procedure

INFOID:0000000011256447

#### NOTE:

Before performing the diagnosis, check that the interior room lamp power supply is normal.

#### 1.CHECK OUTSIDE HANDLE LAMP OUTPUT

1. Turn ignition switch OFF.
2. Disconnect outside handle lamp connector.
3. Check continuity between BCM harness connector and ground.

BCM		Ground	Condition		Continuity
Connector	Terminal				
M123	72		Any door	Open	Existed
				Closed	Not existed

Is the inspection result normal?

YES >> GO TO 2.

NO-1 >> Continuity exists and remains unchanged: GO TO 3.

NO-2 >> Continuity does not exist and remains unchanged: Replace BCM. Refer to [BCS-91, "Removal and Installation"](#).

#### 2.CHECK OUTSIDE HANDLE LAMP OPEN CIRCUIT

Check continuity between BCM harness connector and outside handle lamp harness connector.

BCM		Outside Handle lamp			Continuity
Connector	Terminal	Connector		Terminal	
M123	72	Driver side	D17	4	Existed
		Passenger side	D47		

Is the inspection result normal?

YES >> Replace outside handle lamp.

NO >> Repair or replace harnesses.

#### 3.CHECK OUTSIDE HANDLE LAMP SHORT CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M123	72		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-91, "Removal and Installation"](#).

NO >> Repair or replace harnesses.



# PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

### Description

INFOID:0000000011256448

Provides the power supply and the ground to control the push-button ignition switch illumination.

### Component Function Check

INFOID:0000000011256449

#### 1.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION OPERATION

##### CONSULT ACTIVE TEST

1. Turn ignition switch ON.
2. Select "ENGINE SW ILLUMI" of BCM (INTELLIGENT KEY) active test item.
3. With operating the test items, check that the push-button ignition switch illumination turns ON/OFF.

**On** : Push-button ignition switch illumination ON

**Off** : Push-button ignition switch illumination OFF

Does the push-button ignition switch illumination turn ON/OFF?

YES >> Push-button ignition switch illumination circuit is normal.

NO >> Refer to [INL-65, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:0000000011256450

#### 1.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION POWER SUPPLY OUTPUT

##### CONSULT ACTIVE TEST

1. Turn ignition switch ON.
2. Select "ENGINE SW ILLUMI" of BCM (INTELLIGENT KEY) active test item.
3. With operating the test items, check voltage between push-button ignition switch harness connector and ground.

(+)Push-button ignition switch		(-)	Condition	Voltage (Approx.)
Connector	Terminal			
M50	3	Ground	ENGINE SW ILLUMI	ON12 V
				OFF0 V

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

#### 2.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION POWER SUPPLY OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and push-button ignition switch connector.
3. Check continuity between BCM harness connector and the push-button ignition switch harness connector.

BCM		Push-button ignition switch		Continuity
Connector	Terminal	Connector	Terminal	
M123	90	M50	3	Existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harnesses.

#### 3.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION POWER SUPPLY SHORT CIRCUIT

Check continuity between BCM harness connector and ground.

# PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

## < DTC/CIRCUIT DIAGNOSIS >

BCM		Ground	Continuity
Connector	Terminal		
M123	90		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-91, "Removal and Installation"](#).

NO >> Repair or replace harnesses.

### 4. CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION GROUND CIRCUIT-1

1. Turn ignition switch OFF.
2. Turn lighting switch OFF.
3. Check voltage between BCM harness connector and ground.

(+)		(-)	Voltage (Approx.)
BCM			
Connector	Terminal		
M123	92	Ground	0 V

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace BCM. Refer to [BCS-91, "Removal and Installation"](#).

### 5. CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION GROUND CIRCUIT

1. Disconnect push-button ignition switch connector and BCM connector.
2. Check continuity between push-button ignition switch harness connector and BCM harness connector.

Push-button ignition switch		BCM		Continuity
Connector	Terminal	Connector	Terminal	
M50	2	M123	92	Existed

3. Check continuity between push-button ignition switch harness connector and ground.

Push-button ignition switch		Ground	Continuity
Connector	Terminal		
M50	2		Not existed

Is the inspection result normal?

YES >> Replace push-button ignition switch.

NO >> Repair or replace harnesses.

# INTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

## SYMPTOM DIAGNOSIS

### INTERIOR LIGHTING SYSTEM SYMPTOMS

#### Symptom Table

INFOID:0000000011256451

#### NOTE:

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. <ul style="list-style-type: none"> <li>• Map lamp</li> <li>• Personal lamp</li> <li>• Vanity mirror lamp</li> <li>• Foot lamp</li> <li>• Step lamp</li> <li>• Outside handle lamp</li> <li>• Trunk room lamp</li> </ul>	<ul style="list-style-type: none"> <li>• Harness between BCM and each interior room lamp</li> <li>• BCM</li> </ul>	Interior room lamp power supply circuit Refer to <a href="#">INL-57</a> .
<ul style="list-style-type: none"> <li>• Interior room lamp does not turn ON even though the door is open. (It turns ON when turning the interior room lamp ON.)</li> <li>• Interior room lamp does not turn OFF even though the door is closed.</li> </ul>	<ul style="list-style-type: none"> <li>• Harness between BCM and each door switch</li> <li>• Harness between BCM and each interior room lamp</li> <li>• BCM</li> </ul>	Door switch circuit Refer to <a href="#">DLK-87</a> . Interior room lamp control circuit Refer to <a href="#">INL-59</a> .
Interior room lamp timer does not activate. (It turns ON/ OFF when the door opens/closes.)	—	Check the interior room lamp setting. Refer to <a href="#">INL-15</a> .
<ul style="list-style-type: none"> <li>• Outside handle lamp does not turn ON even though the door is open.</li> <li>• Outside handle lamp does not turn OFF even though the door is closed.</li> </ul>	<ul style="list-style-type: none"> <li>• Harness between BCM and each door switch</li> <li>• Harness between BCM and outside handle lamp</li> <li>• BCM</li> </ul>	Door switch circuit Refer to <a href="#">DLK-87</a> . Outside handle lamp circuit Refer to <a href="#">INL-64</a> .
<ul style="list-style-type: none"> <li>• Trunk room lamp does not turn ON even though the trunk lid is open. (It turns ON when turning the trunk room lamp ON.)</li> <li>• Trunk room lamp or does not turn OFF even though the trunk lid is closed.</li> </ul>	<ul style="list-style-type: none"> <li>• Harness between BCM and trunk closure assembly</li> <li>• Harness between BCM and trunk room lamp</li> <li>• BCM</li> </ul>	Trunk lid open signal circuit Refer to <a href="#">DLK-101</a> . Trunk room lamp circuit Refer to <a href="#">INL-61</a> .
<ul style="list-style-type: none"> <li>• Step lamps (ALL) do not turn ON.</li> <li>• Step lamps (ALL) do not turn OFF.</li> </ul>	<ul style="list-style-type: none"> <li>• Harness between BCM and each step lamp</li> <li>• BCM</li> </ul>	Door switch circuit Refer to <a href="#">DLK-87</a> . Step lamp circuit Refer to <a href="#">INL-62</a> .
Push-button ignition switch illumination does not illuminate.	<ul style="list-style-type: none"> <li>• Harness between BCM and push-button ignition switch</li> <li>• BCM</li> </ul>	Push-button ignition switch illumination circuit Refer to <a href="#">INL-65</a> .
Interior room lamp battery saver does not activate.	BCM	Replace BCM. Refer to <a href="#">BCS-91</a> .

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# MAP LAMP

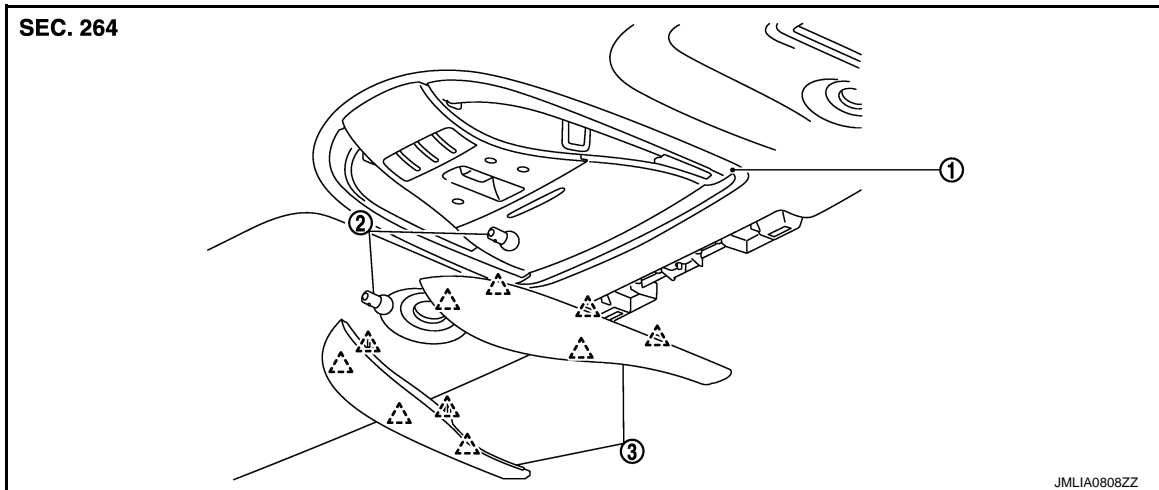
< REMOVAL AND INSTALLATION >

## REMOVAL AND INSTALLATION

### MAP LAMP

#### Exploded View

INFOID:0000000011256452



1. Map lamp assembly

2. Bulb

3. Lens

△ : Pawl

#### Removal and Installation

INFOID:0000000011256453

#### CAUTION:

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

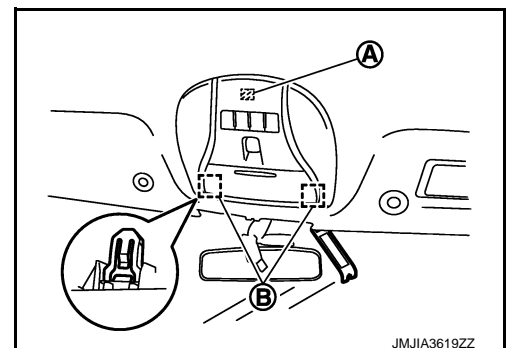
#### Removal

1. Remove front and rear assist grips (LH and RH). Refer to [INT-59, "Removal and Installation"](#).
2. Remove center pillar upper garnish (LH and RH). Refer to [INT-49, "CENTER PILLAR UPPER GARNISH : Removal and Installation"](#).
3. Remove partially front body side welt (headlining side).
4. Remove front pillar garnish. Refer to [INT-42, "FRONT PILLAR GARNISH : Removal and Installation"](#).
5. Remove front camera finisher. Refer to [INT-59, "Removal and Installation"](#).
6. Remove sun visor assembly (LH and RH). Refer to [INT-59, "Removal and Installation"](#).
7. Remove front roof finisher. Refer to [INT-59, "Removal and Installation"](#).
8. Remove sun visor holders (LH and RH). Refer to [INT-59, "Removal and Installation"](#).
9. Open sunroof glass.
10. Insert a remover tool between the headlining and roof panel, and disengage metal clips (B). Pull down map lamp assembly to disengage joint dual-lock fastener (A).

#### CAUTION:

- When removing, always use a remover tool that is made of plastic.
- Map lamp is crimped from back of headlining.
- To prevent damage of the sunroof, hold the sunroof with a rope or tape before removal operation.

□ : Metal clip



11. Remove map lamp assembly.

#### NOTE:

## MAP LAMP

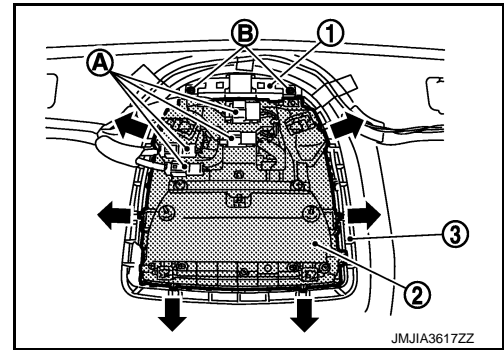
### < REMOVAL AND INSTALLATION >

Operate from the opening part of sunroof to ease the work.

- Remove harness connector (A).
- Remove screws (B), and then remove map lamp bracket (1).
- Remove map lamp back plate (3) from headlining while pressing engagement of each pawls in the direction as shown in the figure.

#### **CAUTION:**

**When removing, support map lamp assembly (2) by hand so that it does not drop during the operation.**



#### Installation

Install in the reverse order of removal.

#### Replacement


INFOID:0000000011256454

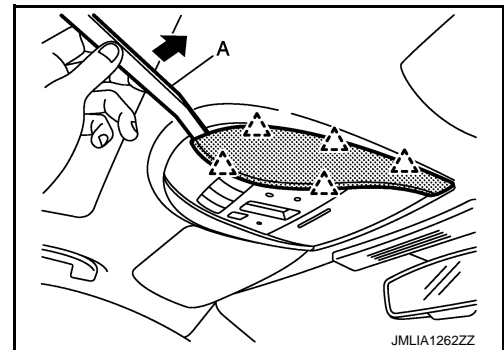
#### **CAUTION:**

- Disconnect the battery negative terminal or remove power circuit fuse while performing the operation to prevent 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.

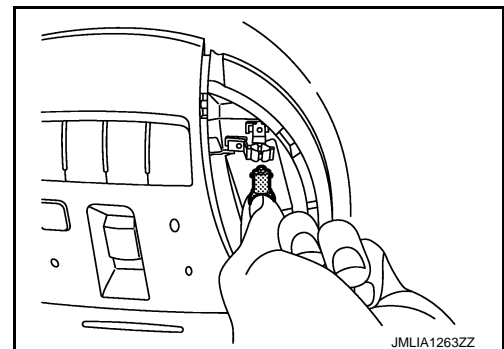
#### MAP LAMP BULB

1. Insert a remover tool (A) into the gap between the lens to disengage fixing pawls as shown by the arrow in the figure, and then remove the lens.

 : Pawl



2. Rotate the bulb clockwise or counterclockwise by 90° and remove the bulb as shown in the figure.



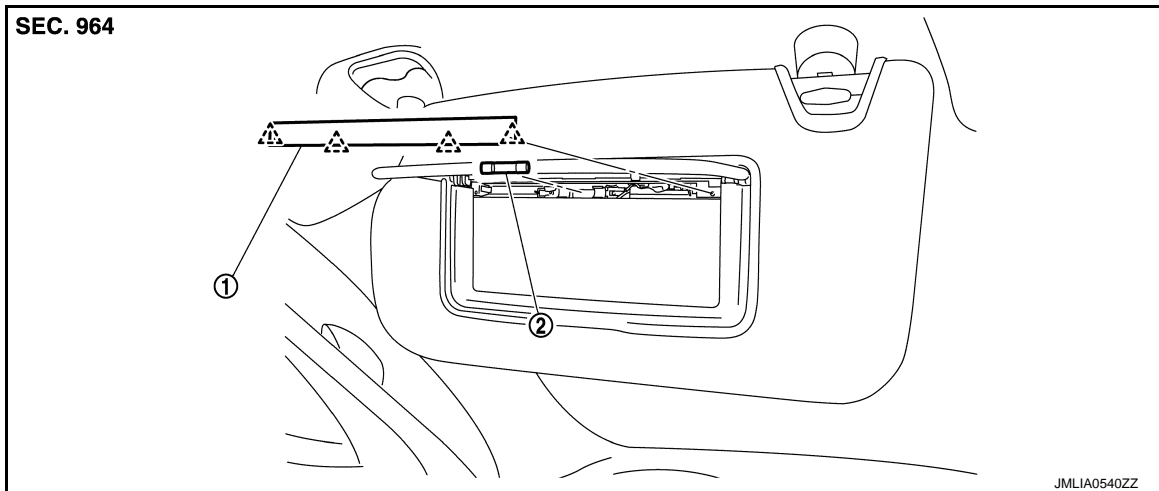
# VANITY MIRROR LAMP

< REMOVAL AND INSTALLATION >

## VANITY MIRROR LAMP

### Exploded View

INFOID:0000000011256455



### Replacement

INFOID:0000000011256456

#### CAUTION:

- Disconnect the 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.

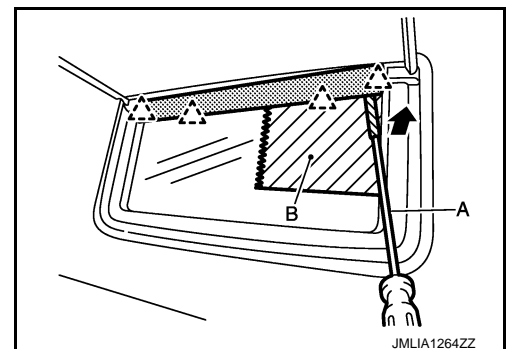
### VANITY MIRROR LAMP BULB

1. Insert a remover tool (A) into the gap between the lens to disengage fixing pawls as shown by the arrow in the figure, and then remove the lens.

△ : Pawl

#### CAUTION:

- Use a remover tool wrapped in tape.
- Apply protective tape (B) around the vanity mirror to protect the surface from damage.



2. Remove the bulb.

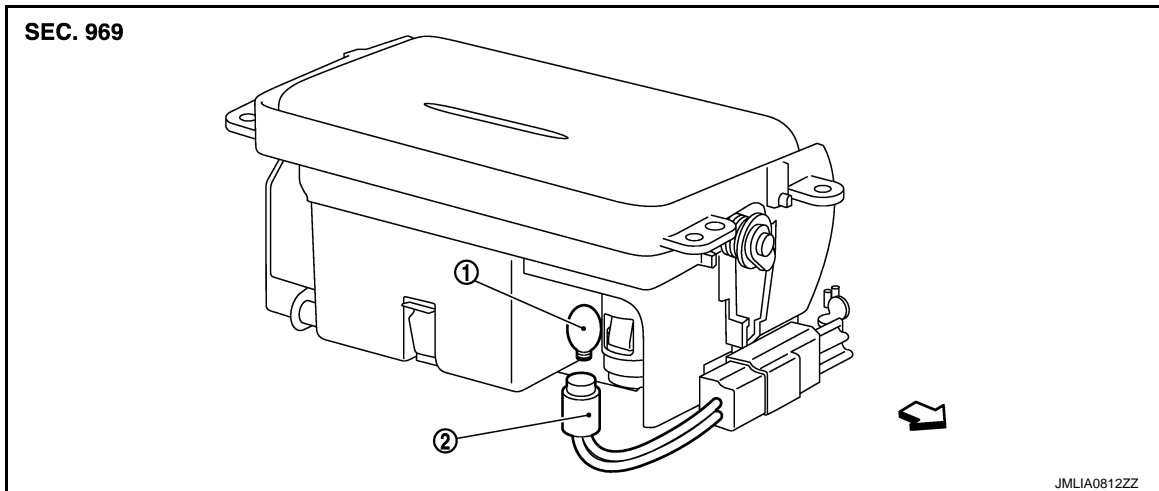
# CIGARETTE LIGHTER ILLUMINATION

< REMOVAL AND INSTALLATION >

## CIGARETTE LIGHTER ILLUMINATION

### Exploded View

INFOID:0000000011256457



1. Bulb

2. Bulb socket

⇐ : Vehicle front

### Removal and Installation

INFOID:0000000011256458

- Remove console finisher assembly. Refer to [IP-24, "Removal and Installation"](#).
- Remove ashtray assembly. Refer to [IP-23, "Exploded View"](#).

### Replacement

INFOID:0000000011256459

#### CAUTION:

- **Disconnect the 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.**

### CIGARETTE LIGHTER ILLUMINATION BULB

1. Remove console finisher assembly, and then remove ashtray assembly. Refer to [IP-24, "Removal and Installation"](#).
2. Rotate bulb socket counterclockwise to unlock it.
3. Remove the bulb.

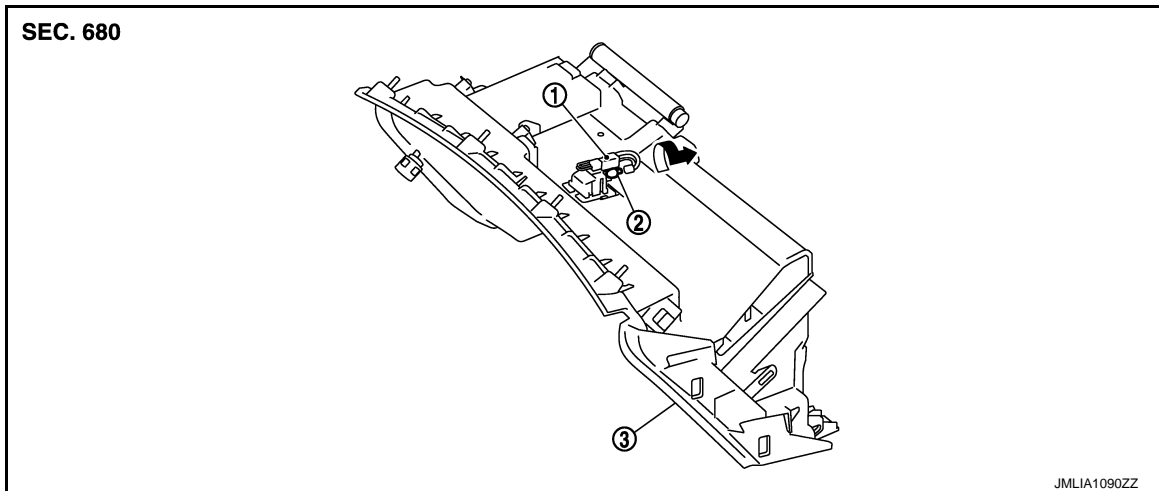
# GLOVE BOX LAMP

< REMOVAL AND INSTALLATION >

## GLOVE BOX LAMP

### Exploded View

INFOID:0000000011256463



1. Bulb socket

2. Bulb

3. Instrument lower panel RH

### Removal and Installation

INFOID:0000000011256464

Refer to [IP-12, "Exploded View"](#) for the instrument lower panel RH installation or removal.

### Replacement

INFOID:0000000011256465

#### CAUTION:

- Disconnect the 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.

### GLOVE BOX LAMP BULB

1. Remove instrument lower cover. Refer to [IP-13, "Removal and Installation"](#).
2. Remove glove box assembly, and then remove instrument lower panel RH. Refer to [IP-13, "Removal and Installation"](#).
3. Rotate the bulb socket counterclockwise to unlock it.
4. Remove the bulb.



# FOOT LAMP

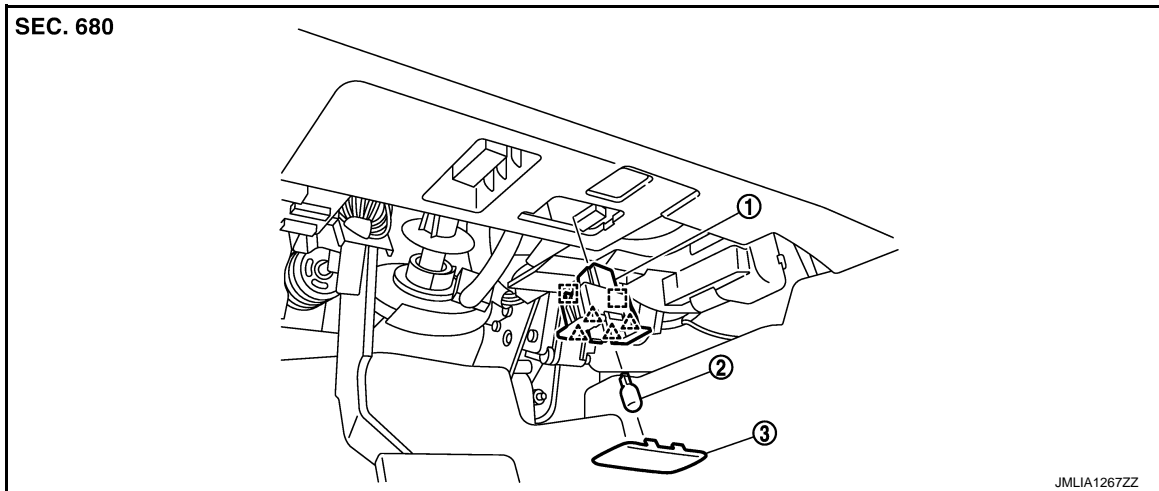
< REMOVAL AND INSTALLATION >

## FOOT LAMP

### DRIVER SIDE

#### DRIVER SIDE : Exploded View

INFOID:0000000011256466



1. Foot lamp case

2. Bulb

3. Lens

△ : Pawl

□ : Metal clip

#### DRIVER SIDE : Removal and Installation

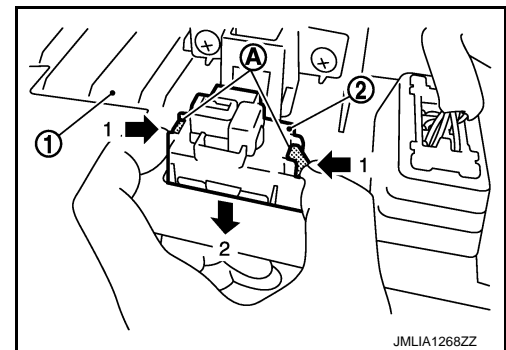
INFOID:0000000011256467

##### CAUTION:

- Disconnect the 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.

##### REMOVAL

1. Remove instrument lower panel. Refer to [IP-24. "Removal and Installation"](#)
2. Disconnect foot lamp harness connector.
3. Remove foot lamp case (2) downward from instrument lower panel (1) while pressing metal clips (A), in the directions indicated by arrows as shown in the figure.



##### INSTALLATION

Install in the reverse order of removal.

#### DRIVER SIDE : Replacement

INFOID:0000000011256468

##### CAUTION:

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

# FOOT LAMP

## < 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.
- 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.

### FOOT LAMP BULB

1. Remove the foot lamp assembly. Refer to [INL-73, "DRIVER SIDE : Removal and Installation"](#).


2. Remove the lens (1).

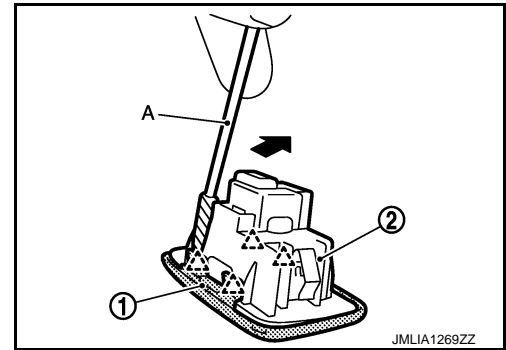
a. Insert a remover tool (A) into the gap between the lens and foot lamp case (2).

b. Disengage the lens fixing pawls, and then remove the lens.

**CAUTION:**

Use a remover tool wrapped in tape.

 : Pawl

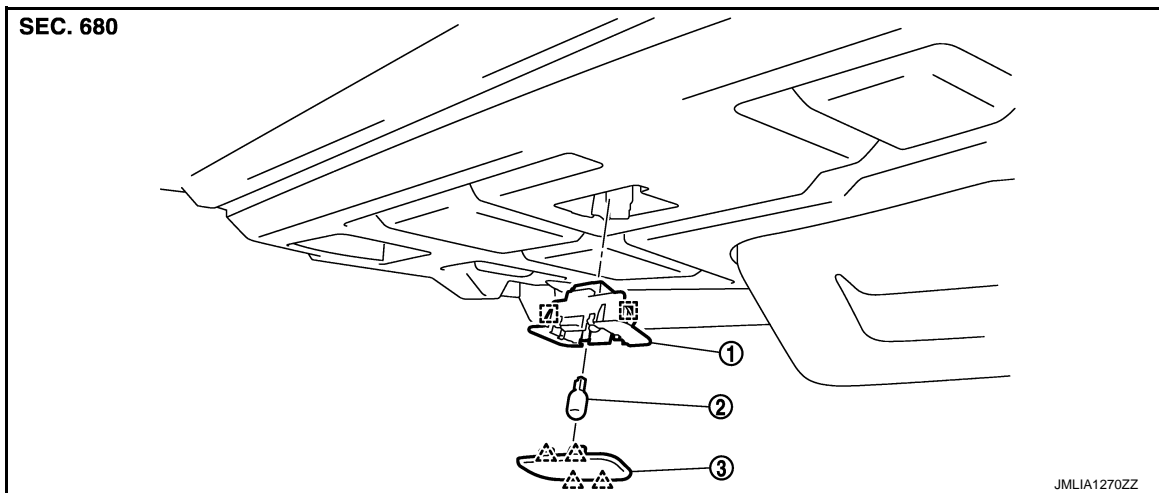


3. Remove the bulb.

### PASSENGER SIDE

#### PASSENGER SIDE : Exploded View


INFOID:0000000011256469



1. Foot lamp case

2. Bulb

3. Lens

 : Pawl

 : Metal clip

#### PASSENGER SIDE : Removal and Installation

INFOID:0000000011256470

**CAUTION:**

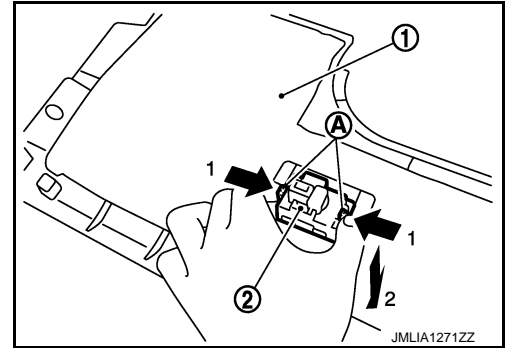
- Disconnect the battery negative terminal or remove power circuit fuse while performing the operation to electric leakage.
- Never touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Never touch the glass surface of the bulb with bare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

### REMOVAL

## FOOT LAMP

### < REMOVAL AND INSTALLATION >

1. Remove instrument lower cover. Refer to [IP-24, "Removal and Installation"](#).
2. Disconnect foot lamp harness connector.
3. Remove foot lamp case (2) downward from instrument lower cover (1) while pressing metal clips (A), in the directions indicated by arrows as shown in the figure.



### INSTALLATION

Install in the reverse order of removal.

### PASSENGER SIDE : Replacement

INFOID:0000000011256471

#### CAUTION:


- Disconnect the 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.

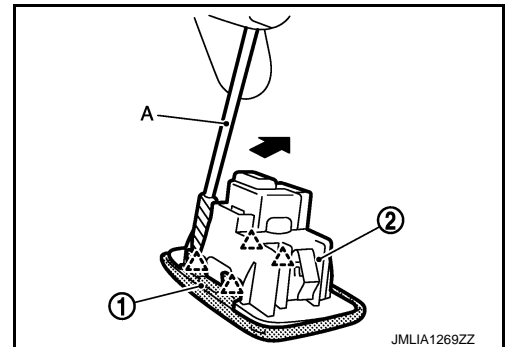
### FOOT LAMP BULB

1. Remove the foot lamp assembly. Refer to [INL-74, "PASSENGER SIDE : Removal and Installation"](#).
2. Remove the lens (1).
  - a. Insert a remover tool (A) into the gap between the lens and foot lamp case (2).
  - b. Disengage the lens fixing pawls, and then remove the lens.

#### CAUTION:

Use a remover tool wrapped in tape.

 : Pawl



3. Remove the bulb.

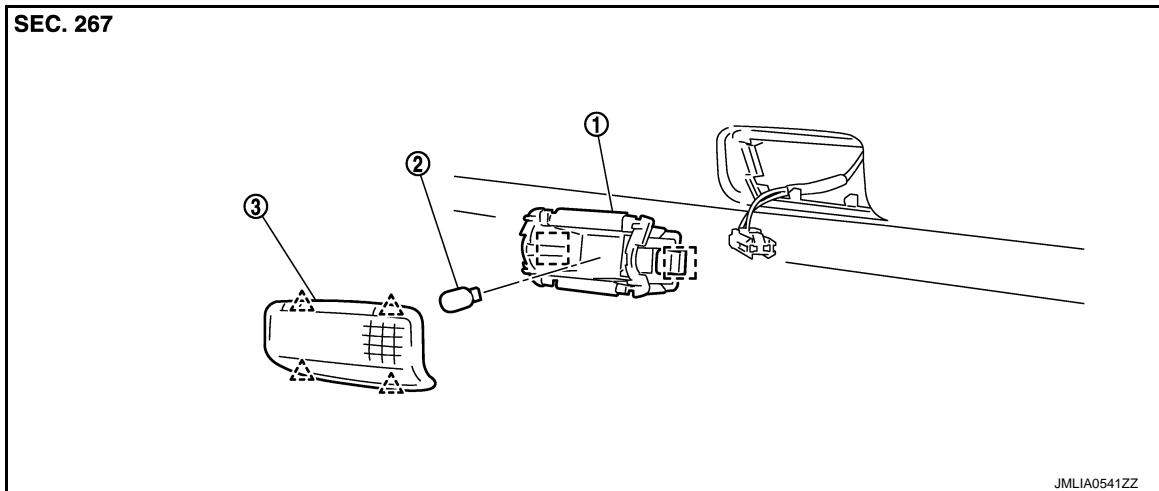
# STEP LAMP

< REMOVAL AND INSTALLATION >

## STEP LAMP

Exploded View

INFOID:0000000011256472



1. Step lamp case

2. Bulb

3. Lens

△ : Pawl

□ : Metal clip

## Removal and Installation

INFOID:0000000011256473

### CAUTION:

- Disconnect the 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.

### REMOVAL

1. Insert any appropriate tool into the gap between the step lamp case and door finisher to remove step lamp case.
2. Disconnect step lamp harness connector.

### INSTALLATION

Install in the reverse order of removal.

## Replacement

INFOID:0000000011256474

### CAUTION:

- Disconnect the 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.

### STEP LAMP BULB

1. Insert any appropriate tool into the gap between the lens to remove the lens.
2. Remove the bulb.

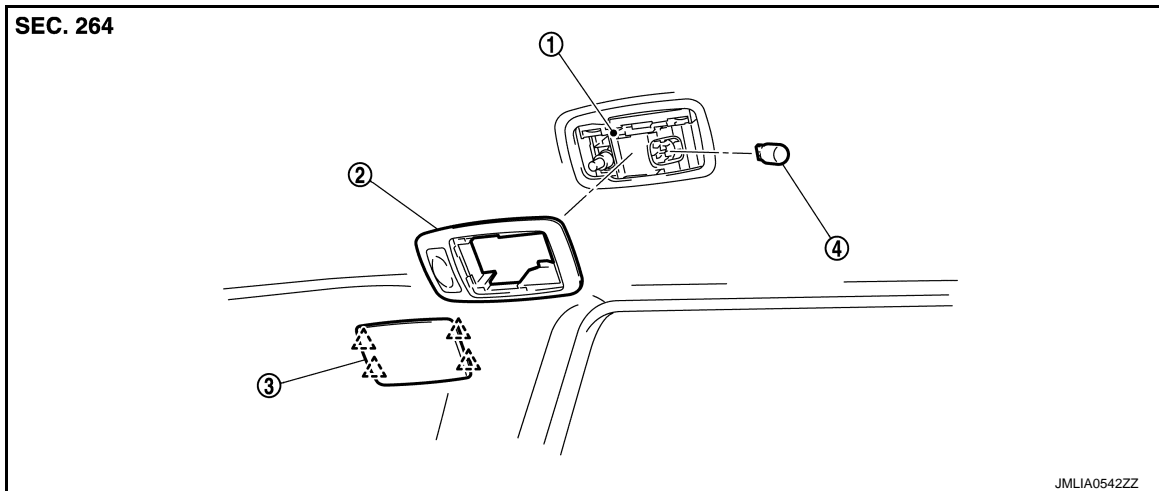
# PERSONAL LAMP

< REMOVAL AND INSTALLATION >

## PERSONAL LAMP

### Exploded View

INFOID:0000000011256475



### Removal and Installation

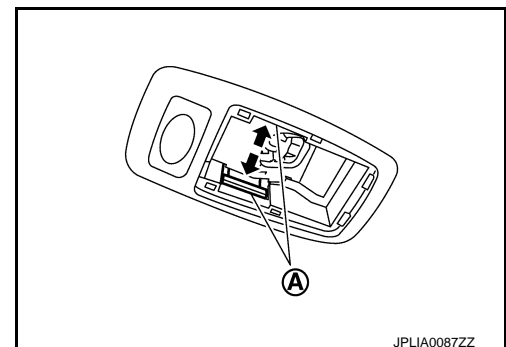
INFOID:0000000011256476

#### CAUTION:

- Disconnect the 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.
- Replace the personal lamp case as a set (right and left). After removing the headlining assembly, remove the personal lamp case. Refer to [INT-58, "Exploded View"](#).

#### REMOVAL

1. Remove headlining assembly. Refer to [INT-59, "Removal and Installation"](#).
2. Insert any appropriate tool into the gap between the lens to remove the lens.
3. Press the pawls (A) on both sides in the direction shown by the arrow in the figure using appropriate tool, and then pull out the personal lamp finisher.



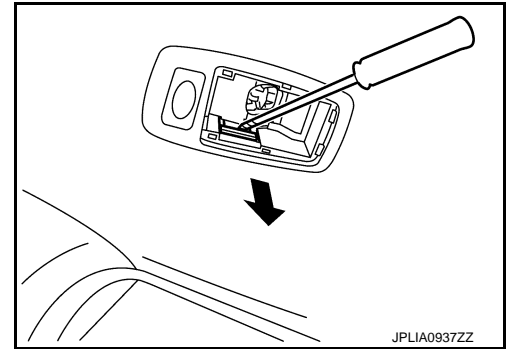
4. Remove personal lamp case from headlining assembly.

#### INSTALLATION

## PERSONAL LAMP

### < REMOVAL AND INSTALLATION >

Press the personal lamp finisher to the headlining. Pull the personal lamp case pawls in the direction shown by the arrow in the figure using appropriate tool.



### Replacement

INFOID:000000011256477

#### **CAUTION:**

- Disconnect the 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.

### PERSONAL LAMP BLUB

1. Insert any appropriate tool into the gap between the lens to remove the lens.
2. Remove the bulb.

# OUTSIDE HANDLE LAMP

< REMOVAL AND INSTALLATION >

## OUTSIDE HANDLE LAMP

### Exploded View

INFOID:0000000011256478

Always replace outside handle lamp together with outside handle as a set, when replacing since outside handle lamp is integrated with outside handle. Refer to [DLK-212. "OUTSIDE HANDLE : Removal and Installation"](#).

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
INL  
M  
N  
O  
P

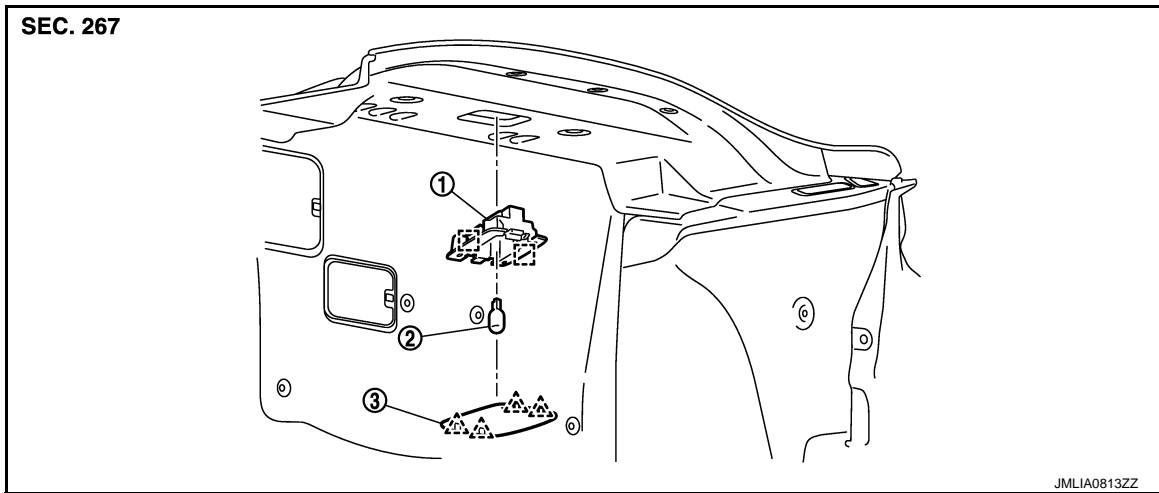
# TRUNK ROOM LAMP

< REMOVAL AND INSTALLATION >

## TRUNK ROOM LAMP

### Exploded View


INFOID:0000000011256479



1. Trunk room lamp case

2. Bulb

3. Lens

 : Pawl

 : Metal clip

### Removal and Installation


INFOID:0000000011256480

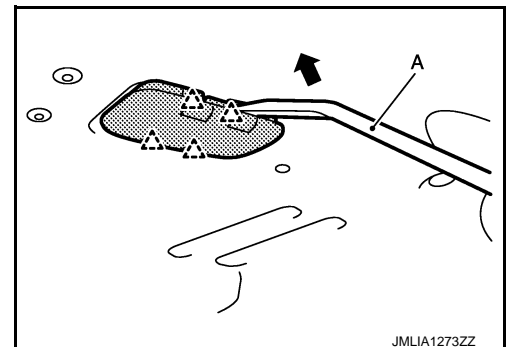
#### CAUTION:

- Disconnect the 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.

#### REMOVAL

1. Insert a remover tool (A) into the gap between the lens to disengage fixing pawls as shown by the arrow in the figure, and then remove the lens.

 : Pawl



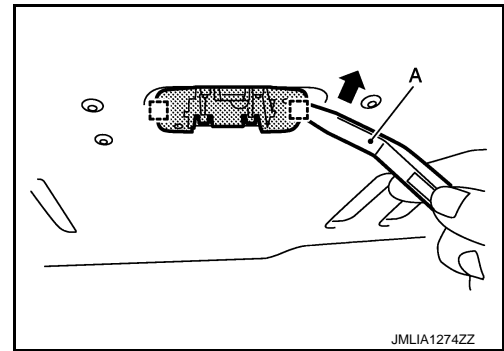


## TRUNK ROOM LAMP

### < REMOVAL AND INSTALLATION >

2. Insert a remover tool (A) into the gap between the trunk room lamp case to disengage fixing metal clips as shown by the arrow in the figure, and then remove the trunk room lamp case.

 : Metal clip



3. Disconnect trunk room lamp harness connector.

### INSTALLATION

Install in the reverse order of removal.

### Replacement


INFOID:0000000011256481

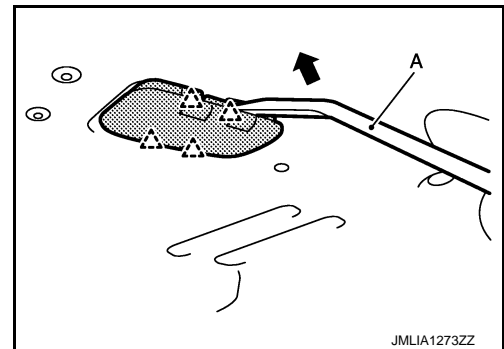
#### CAUTION:

- Disconnect the 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.

### TRUNK ROOM LAMP BULB

1. Insert a remover tool (A) into the gap between the lens to disengage fixing pawls as shown by the arrow in the figure, and then remove the lens.

 : Pawl



2. 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:0000000011256482

Item	Type	Wattage (W)
Push-button ignition switch illumination	LED	—
Map lamp	—	8
Console lamp (integrated into the map lamp assembly)	LED	—
Vanity mirror lamp	—	1.8
Cigarette lighter illumination (common use with ashtray illumination)	Wedge	1.1
Glove box lamp	Wedge	2
Foot lamp	Wedge	3.4
Step lamp	Wedge	5
Personal lamp	Wedge	10
Outside handle lamp	LED	—
Trunk room lamp	Wedge	5