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# SECTION INL

## INTERIOR LIGHTING SYSTEM

### CONTENTS

<p><b>PRECAUTION</b> ..... 3</p> <p><b>PRECAUTIONS</b> ..... 3</p> <p style="padding-left: 20px;">Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" .....3</p> <p style="padding-left: 20px;">Precaution for Procedure without Cowl Top Cover.....3</p> <p style="padding-left: 20px;">Precautions For Xenon Headlamp Service .....3</p> <p style="padding-left: 20px;">Precautions for Removing Battery Terminal .....4</p> <p><b>SYSTEM DESCRIPTION</b> ..... 5</p> <p><b>COMPONENT PARTS</b> ..... 5</p> <p style="padding-left: 20px;">Component Parts Location .....5</p> <p style="padding-left: 20px;">Bulb Specifications .....6</p> <p><b>SYSTEM</b> ..... 7</p> <p><b>INTERIOR ROOM LAMP CONTROL SYSTEM</b> .....7</p> <p style="padding-left: 20px;">INTERIOR ROOM LAMP CONTROL SYSTEM : System Description .....7</p> <p style="padding-left: 20px;">INTERIOR ROOM LAMP CONTROL SYSTEM : Circuit Diagram ..... 10</p> <p><b>INTERIOR ROOM LAMP BATTERY SAVER SYSTEM</b> ..... 11</p> <p style="padding-left: 20px;">INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Description ..... 12</p> <p style="padding-left: 20px;">INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : Circuit Diagram ..... 14</p> <p><b>ILLUMINATION CONTROL SYSTEM</b> ..... 15</p> <p style="padding-left: 20px;">ILLUMINATION CONTROL SYSTEM : System Description ..... 16</p> <p style="padding-left: 20px;">ILLUMINATION CONTROL SYSTEM : Circuit Diagram ..... 17</p> <p><b>AUTO LIGHT ADJUSTMENT SYSTEM</b> ..... 17</p> <p style="padding-left: 20px;">AUTO LIGHT ADJUSTMENT SYSTEM : System Description ..... 18</p> <p style="padding-left: 20px;">AUTO LIGHT ADJUSTMENT SYSTEM : Circuit Diagram ..... 19</p>	<p><b>DIAGNOSIS SYSTEM (BCM)</b> ..... 20</p> <p><b>COMMON ITEM</b> ..... 20</p> <p style="padding-left: 20px;">COMMON ITEM : CONSULT Function (BCM - COMMON ITEM) ..... 20</p> <p><b>INT LAMP</b> ..... 21</p> <p style="padding-left: 20px;">INT LAMP : CONSULT Function (BCM - INT LAMP) ..... 22</p> <p><b>BATTERY SAVER</b> ..... 23</p> <p style="padding-left: 20px;">BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER) ..... 23</p> <p><b>ECU DIAGNOSIS INFORMATION</b> ..... 26</p> <p><b>BCM</b> ..... 26</p> <p style="padding-left: 20px;">List of ECU Reference ..... 26</p> <p><b>WIRING DIAGRAM</b> ..... 27</p> <p><b>INTERIOR ROOM LAMP CONTROL SYSTEM</b> ..... 27</p> <p style="padding-left: 20px;">Wiring Diagram ..... 27</p> <p><b>ILLUMINATION</b> ..... 40</p> <p style="padding-left: 20px;">Wiring Diagram ..... 40</p> <p><b>BASIC INSPECTION</b> ..... 57</p> <p><b>DIAGNOSIS AND REPAIR WORK FLOW</b> ..... 57</p> <p style="padding-left: 20px;">Work Flow ..... 57</p> <p><b>DTC/CIRCUIT DIAGNOSIS</b> ..... 60</p> <p><b>INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT</b> ..... 60</p> <p style="padding-left: 20px;">Component Function Check ..... 60</p> <p style="padding-left: 20px;">Diagnosis Procedure ..... 60</p> <p><b>INTERIOR ROOM LAMP CONTROL CIRCUIT</b> ..... 62</p> <p style="padding-left: 20px;">Component Function Check ..... 62</p>
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A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P

INL

Diagnosis Procedure .....	62	<b>FOOT LAMP .....</b>	<b>76</b>
<b>LUGGAGE ROOM LAMP CIRCUIT .....</b>	<b>64</b>	<b>DRIVER SIDE .....</b>	<b>76</b>
Description .....	64	DRIVER SIDE : Exploded View .....	76
Diagnosis Procedure .....	64	DRIVER SIDE : Replacement .....	76
<b>STEP LAMP CIRCUIT .....</b>	<b>66</b>	<b>PASSENGER SIDE .....</b>	<b>77</b>
Component Function Check .....	66	PASSENGER SIDE : Exploded View .....	77
Diagnosis Procedure .....	66	PASSENGER SIDE : Replacement .....	77
<b>PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT .....</b>	<b>68</b>	<b>STEP LAMP .....</b>	<b>79</b>
Component Function Check .....	68	Exploded View .....	79
Diagnosis Procedure .....	68	Removal and Installation .....	79
<b>SYMPTOM DIAGNOSIS .....</b>	<b>70</b>	Replacement .....	79
<b>INTERIOR LIGHTING SYSTEM SYMPTOMS...</b>	<b>70</b>	<b>PERSONAL LAMP .....</b>	<b>81</b>
Symptom Table .....	70	Exploded View .....	81
<b>REMOVAL AND INSTALLATION .....</b>	<b>71</b>	Removal and Installation .....	81
<b>MAP LAMP .....</b>	<b>71</b>	Replacement .....	82
Exploded View .....	71	<b>LUGGAGE ROOM LAMP .....</b>	<b>83</b>
Removal and Installation .....	71	Exploded View .....	83
Replacement .....	71	Removal and Installation .....	83
<b>VANITY MIRROR LAMP .....</b>	<b>73</b>	Replacement .....	83
Exploded View .....	73	<b>SERVICE DATA AND SPECIFICATIONS (SDS) .....</b>	<b>85</b>
Replacement .....	73	<b>SERVICE DATA AND SPECIFICATIONS (SDS) .....</b>	<b>85</b>
<b>GLOVE BOX LAMP .....</b>	<b>74</b>	Bulb Specifications .....	85
Exploded View .....	74		
Replacement .....	74		

# PRECAUTIONS

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## 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, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.
- Improper repair, 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:**

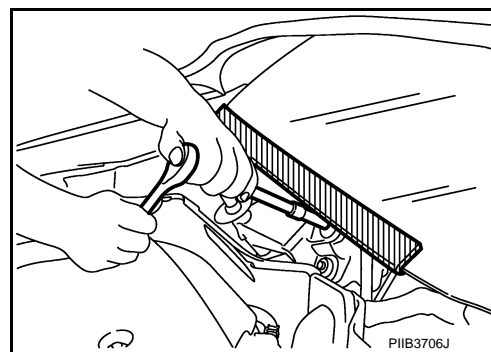
Always observe the following items for preventing accidental activation.

- 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 or batteries, and wait at least 3 minutes before performing any service.

#### Precaution for Procedure without Cowl Top Cover

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



#### Precautions For Xenon Headlamp Service

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#### **WARNING:**

Comply with the following warnings to prevent any serious accident.

- Disconnect the battery cable (negative terminal) or the power supply fuse before installing, removing, or touching the xenon headlamp (bulb included). The xenon headlamp contains high-voltage generated parts.
- Never work with wet hands.
- Check the xenon headlamp ON-OFF status after assembling it to the vehicle. Never turn the xenon headlamp ON in other conditions. Connect the power supply to the vehicle-side connector.

# PRECAUTIONS

## < PRECAUTION >

(Turning it ON outside the lamp case may cause fire or visual impairments.)

- Never touch the bulb glass immediately after turning it OFF. It is extremely hot.

### CAUTION:

Comply with the following cautions to prevent any error and malfunction.

- Install the xenon bulb securely. (Insufficient bulb socket installation may melt the bulb, the connector, the housing, etc. by high-voltage leakage or corona discharge.)
- Never perform HID circuit inspection with a tester.
- Never touch the xenon bulb glass with hands. Never put oil and grease on it.
- Dispose of the used xenon bulb after packing it in thick vinyl without breaking it.
- Never wipe out dirt and contamination with organic solvent (thinner, gasoline, etc.).

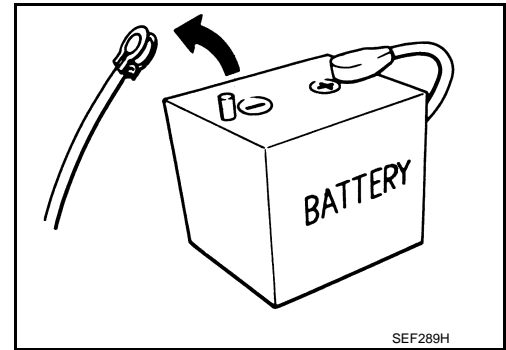
## Precautions for Removing Battery Terminal

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When disconnecting the battery terminal, pay attention to the following.

- Always use a 12V battery as power source.
- Never disconnect battery terminal while engine is running.
- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:

BR08DE	: 4 minutes	YD25DDTi	: 2 minutes
D4D engine	: 20 minutes	YS23DDT	: 4 minutes
HRA2DDT	: 12 minutes	YS23DDTT	: 4 minutes
K9K engine	: 4 minutes	ZD30DDTi	: 60 seconds
M9R engine	: 4 minutes	ZD30DDTT	: 60 seconds
R9M engine	: 4 minutes		
V9X engine	: 4 minutes		



### 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.

- After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal.

### NOTE:

- Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
- Example of high-load driving
  - Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
  - Driving for 30 minutes or more on a steep slope.
- 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.

# COMPONENT PARTS

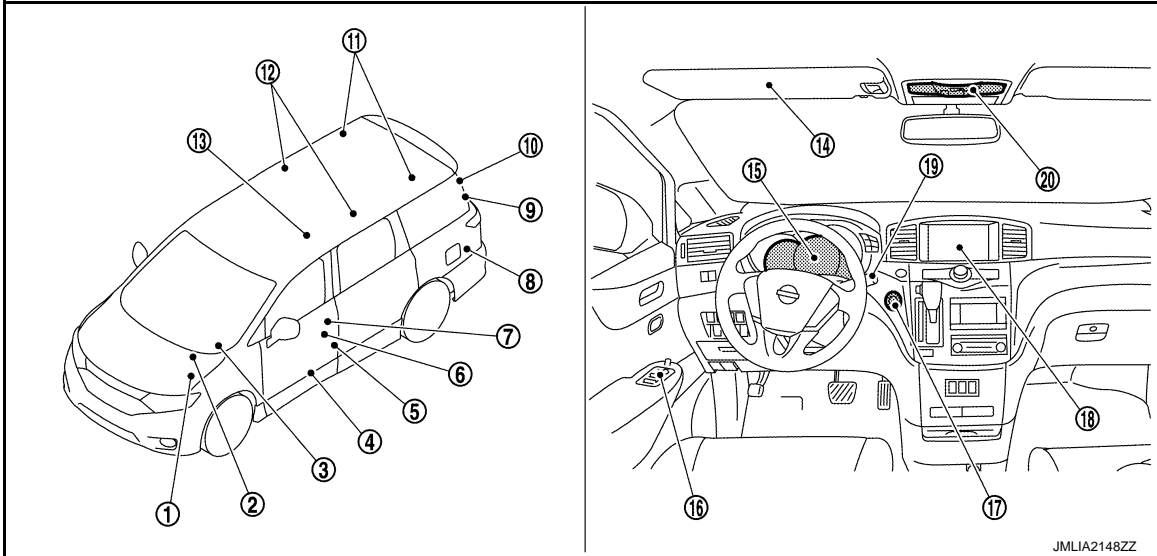
< SYSTEM DESCRIPTION >

## SYSTEM DESCRIPTION

### COMPONENT PARTS

#### Component Parts Location

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No.	Part	Description
1.	IPDM E/R	Controls the integrated relay according to the request signal from BCM (via CAN communication). Refer to <a href="#">PCS-4, "IPDM E/R : Component Parts Location"</a> for detailed installation location.
2.	BCM	<ul style="list-style-type: none"> <li>Activates the interior room lamp timer depending on the vehicle condition to turn the interior room lamps ON/OFF.</li> <li>Operates the interior room lamp battery saver depending on the vehicle condition to cut the interior room lamp power supply.</li> <li>Detects each switch condition by the combination switch reading function.</li> <li>Judges the illumination lamp ON/OFF status depending on the vehicle condition. And then it transmits position light request signal to IPDM E/R and combination meter (with CAN communication).</li> </ul> Refer to <a href="#">BCS-5, "BODY CONTROL SYSTEM : Component Parts Location"</a> for detailed installation location.
3.	Optical sensor	Refer to <a href="#">EXL-8, "Component Parts Location"</a> .
4.	Step lamp	Refer to <a href="#">INL-6, "Bulb Specifications"</a> .
5.	Door switch	Refer to <a href="#">DLK-18, "DOOR LOCK SYSTEM : Component Parts Location"</a> .
6.	Front door lock assembly (driver side) (door key cylinder switch)	Refer to <a href="#">DLK-18, "DOOR LOCK SYSTEM : Component Parts Location"</a> .
7.	Door request switch	Refer to <a href="#">DLK-18, "DOOR LOCK SYSTEM : Component Parts Location"</a> .
8.	Luggage room lamp	Refer to <a href="#">INL-6, "Bulb Specifications"</a> .
9.	Automatic back door close switch	Refer to <a href="#">DLK-22, "AUTOMATIC BACK DOOR SYSTEM : Component Parts Location"</a> .
10.	Back door lock assembly (back door switch)	Refer to <a href="#">DLK-18, "DOOR LOCK SYSTEM : Component Parts Location"</a> .
11.	Third personal lamp	Refer to <a href="#">INL-6, "Bulb Specifications"</a> .
12.	Second personal lamp	Refer to <a href="#">INL-6, "Bulb Specifications"</a> .
13.	Remote keyless entry receiver	Refer to <a href="#">DLK-18, "DOOR LOCK SYSTEM : Component Parts Location"</a> .
14.	Vanity mirror lamp	Refer to <a href="#">INL-6, "Bulb Specifications"</a> .
15.	Combination meter	Refer to <a href="#">MWI-7, "METER SYSTEM : Component Parts Location"</a> .

## COMPONENT PARTS

### < SYSTEM DESCRIPTION >

No.	Part	Description
16.	Door lock and unlock switch	Refer to <a href="#">DLK-18, "DOOR LOCK SYSTEM : Component Parts Location"</a> .
17.	Push-button ignition switch	Refer to <a href="#">DLK-22, "AUTOMATIC BACK DOOR SYSTEM : Component Parts Location"</a> .
18.	AV control unit	Receives the dimmer signal from BCM via CAN communication. Refer to <a href="#">AV-15, "Component Parts Location"</a> for detailed installation location.
19.	Combination switch (Lighting & turn signal switch)	Refer to <a href="#">BCS-9, "COMBINATION SWITCH READING SYSTEM : System Description"</a> .
20.	Map lamp	Refer to <a href="#">INL-6, "Bulb Specifications"</a> .

### Bulb Specifications

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Item	Type	Wattage (W)
Map lamp	Wedge	8
Total coordination of illumination	LED	—
Vanity mirror lamp	—	1.2
Push-button ignition switch illumination	LED	—
Glove box lamp	—	1.4
Foot lamp (driver side)	—	1.4
Foot lamp (passenger side)	—	1.4
Step lamp	Wedge	3.8
Personal lamp	—	8
Luggage room lamp	—	8

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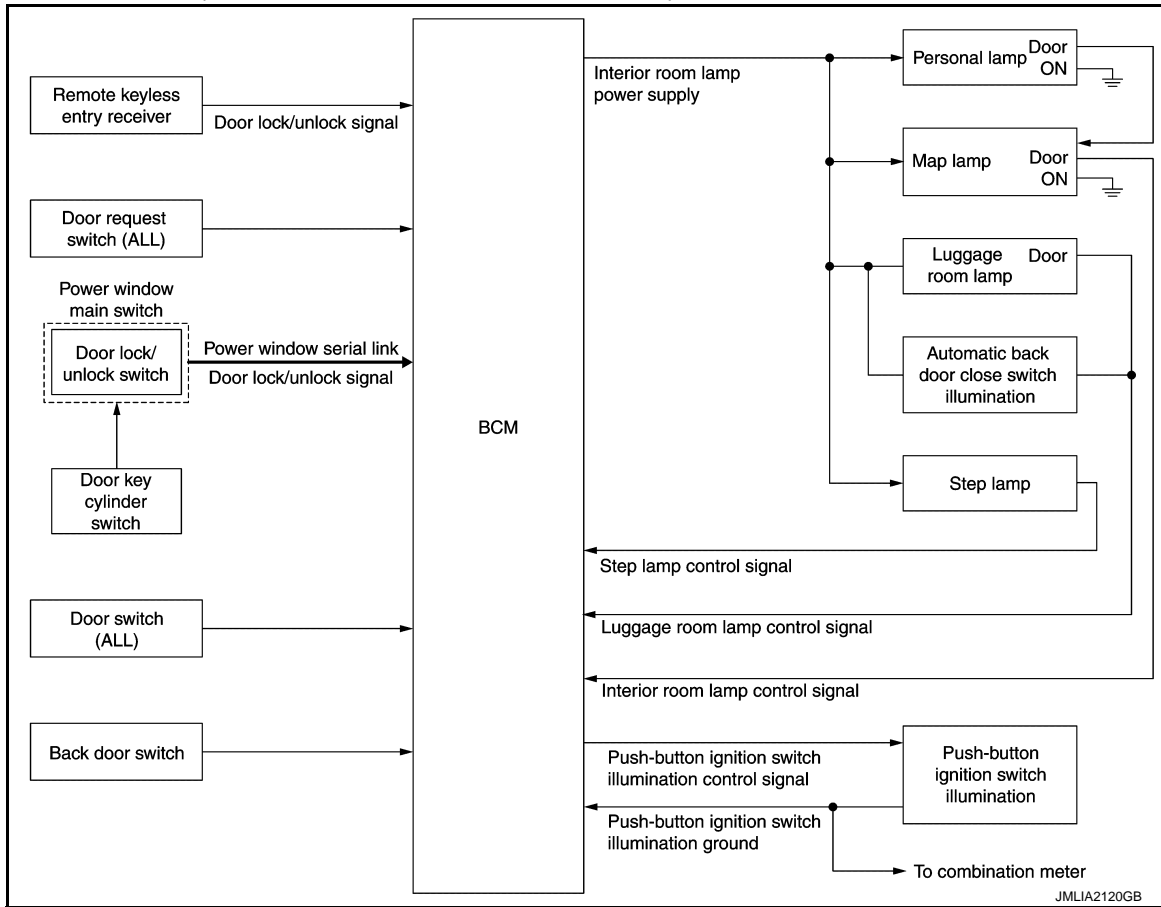
## SYSTEM

### INTERIOR ROOM LAMP CONTROL SYSTEM

### INTERIOR ROOM LAMP CONTROL SYSTEM : System Description

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### SYSTEM DIAGRAM (WITH AUTOMATIC SLIDE DOOR)



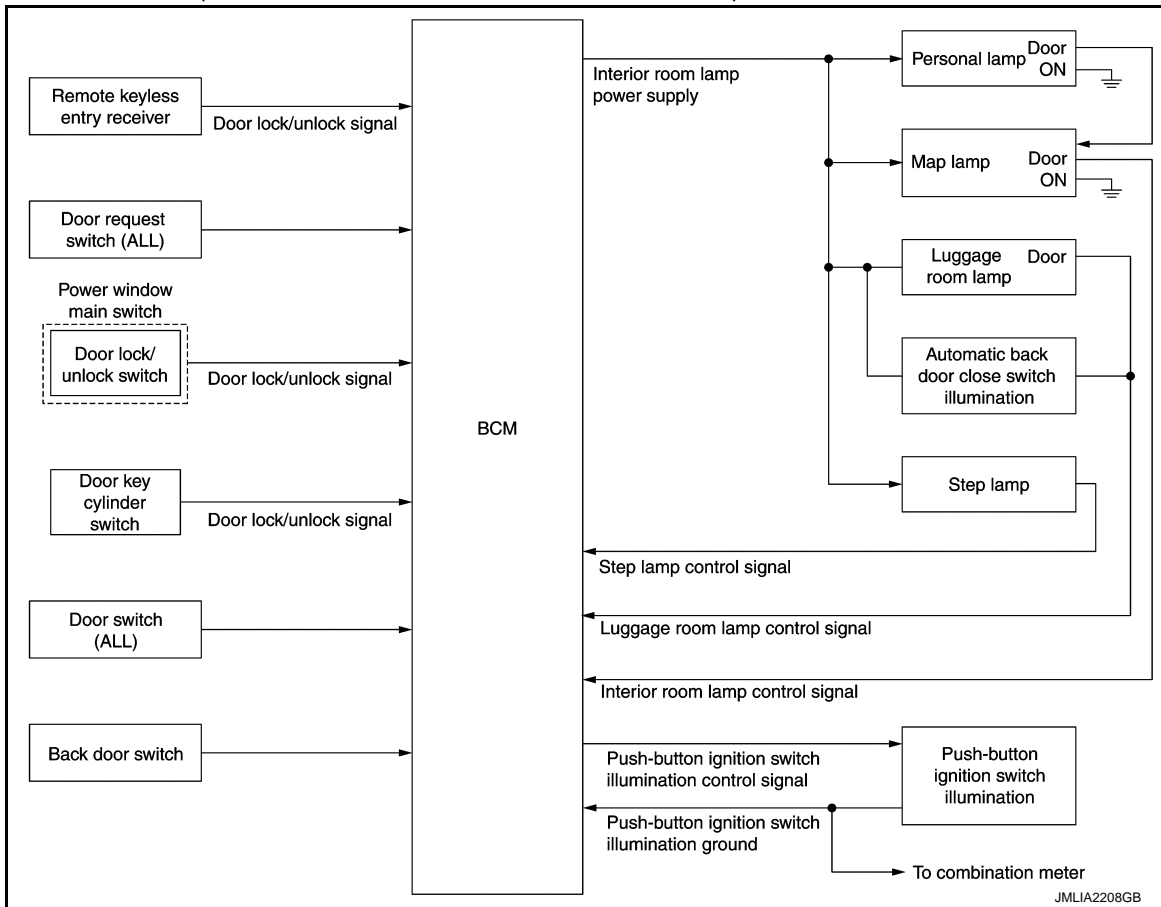
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### SYSTEM DIAGRAM (WITHOUT AUTOMATIC SLIDE DOOR)

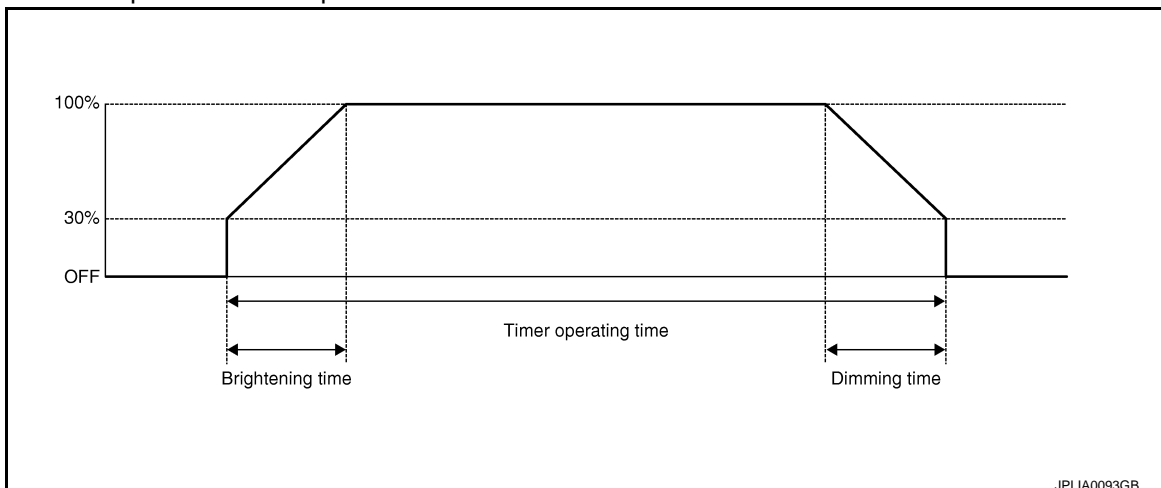


## OUTLINE

- Interior room lamps\* are controlled by interior room lamp timer control function of BCM.
- \*: Map 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.
- Luggage room lamp and automatic back door close switch illumination are controlled by luggage room lamp control function of BCM.
- Push-button ignition switch illumination is controlled by the push-button ignition switch illumination control function of BCM and combination meter.

## INTERIOR ROOM LAMP TIMER CONTROL

### Interior Room Lamp Timer Basic Operation



- 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.



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## < SYSTEM DESCRIPTION >

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- Ignition switch status
- Door switch signal (except back door)
- 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-22. "INT LAMP : CONSULT Function \(BCM - INT LAMP\)"](#).

### Interior Room Lamp ON Operation

- BCM always turns the interior room lamp ON when any door opens excepting back door.
- 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 excepting back door.
  - Ignition switch is turned ON → OFF.
  - Any door unlock signal is detected when all doors close excepting back door with ignition switch OFF.

### **NOTE:**

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

### Interior Room Lamp OFF Operation

BCM stops the timer and turns interior room lamp OFF, when any of the following conditions is satisfied.

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

## LUGGAGE ROOM LAMP CONTROL

BCM controls the luggage room lamp and automatic back door close switch illumination (ground-side) to turn ON with back door switch ON.

- When luggage room lamp switch is in the DOOR position and back door is opened, luggage room lamp turns ON.
- When back door is opened, automatic back door close switch illumination turn ON.

## STEP LAMP CONTROL

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

## PUSH-BUTTON IGNITION SWITCH ILLUMINATION CONTROL

### Push-button Ignition Switch Illumination Basic Operation

BCM provides the power supply to turn the push-button ignition switch illumination ON.

### Push-button Ignition Switch Illumination ON Operation

BCM turns the push-button ignition switch illumination ON in the following conditions.

- Ignition switch ON
- Any of the following conditions with ignition switch OFF/ACC
  - Engine start permission is entered
  - Driver side door is LOCK → UNLOCK
  - Driver side door is open

### Push-button Ignition Switch Illumination OFF Operation

BCM turns the push-button ignition switch illumination OFF in any of the following conditions.

- The push-button ignition switch illumination ON conditions do not satisfy.
- Any of the following conditions with ignition switch OFF.
  - The push-button ignition switch illumination ON conditions do not change (15 seconds after the ignition switch OFF)
  - Driver side door is UNLOCK → LOCK

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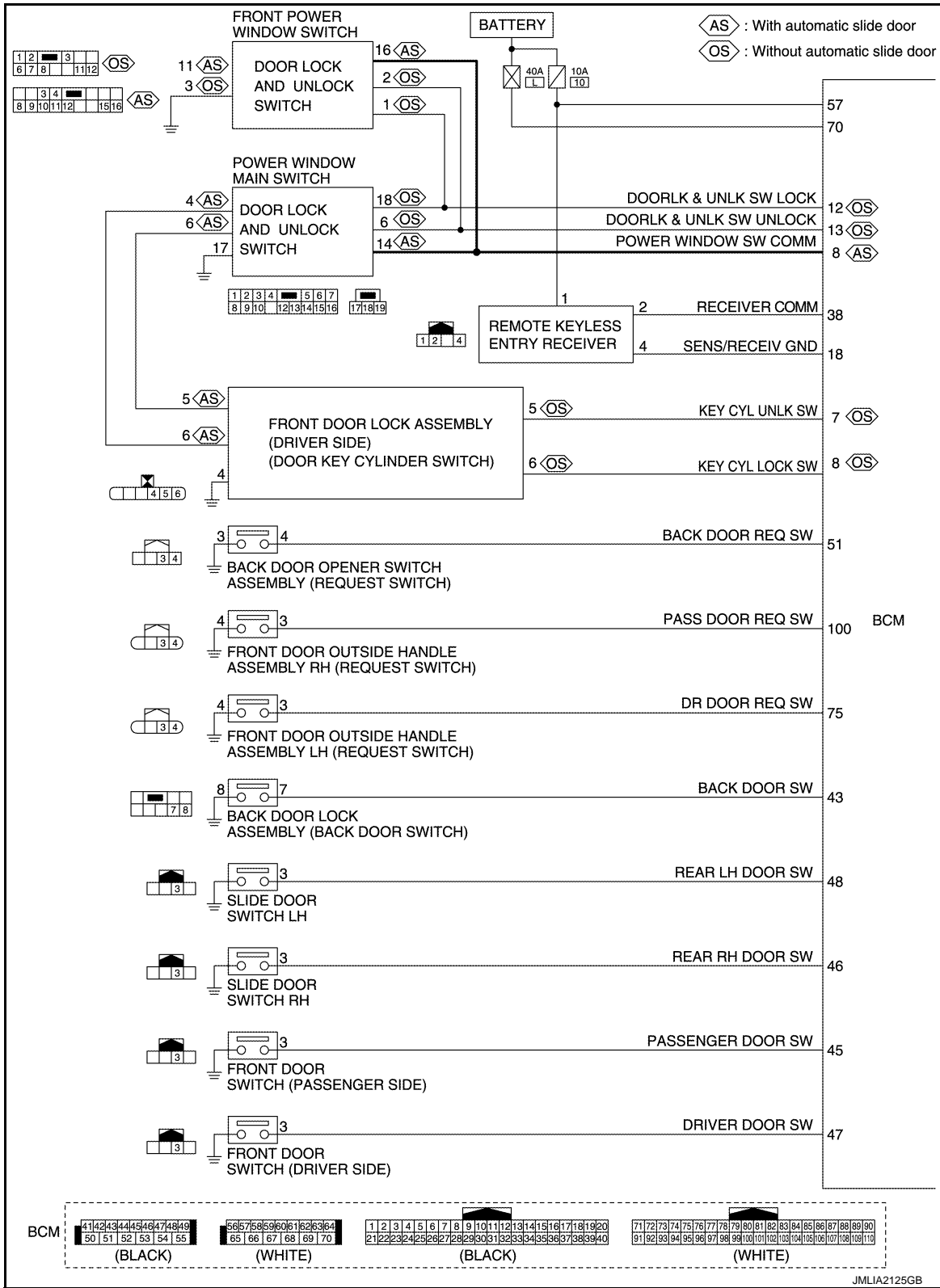
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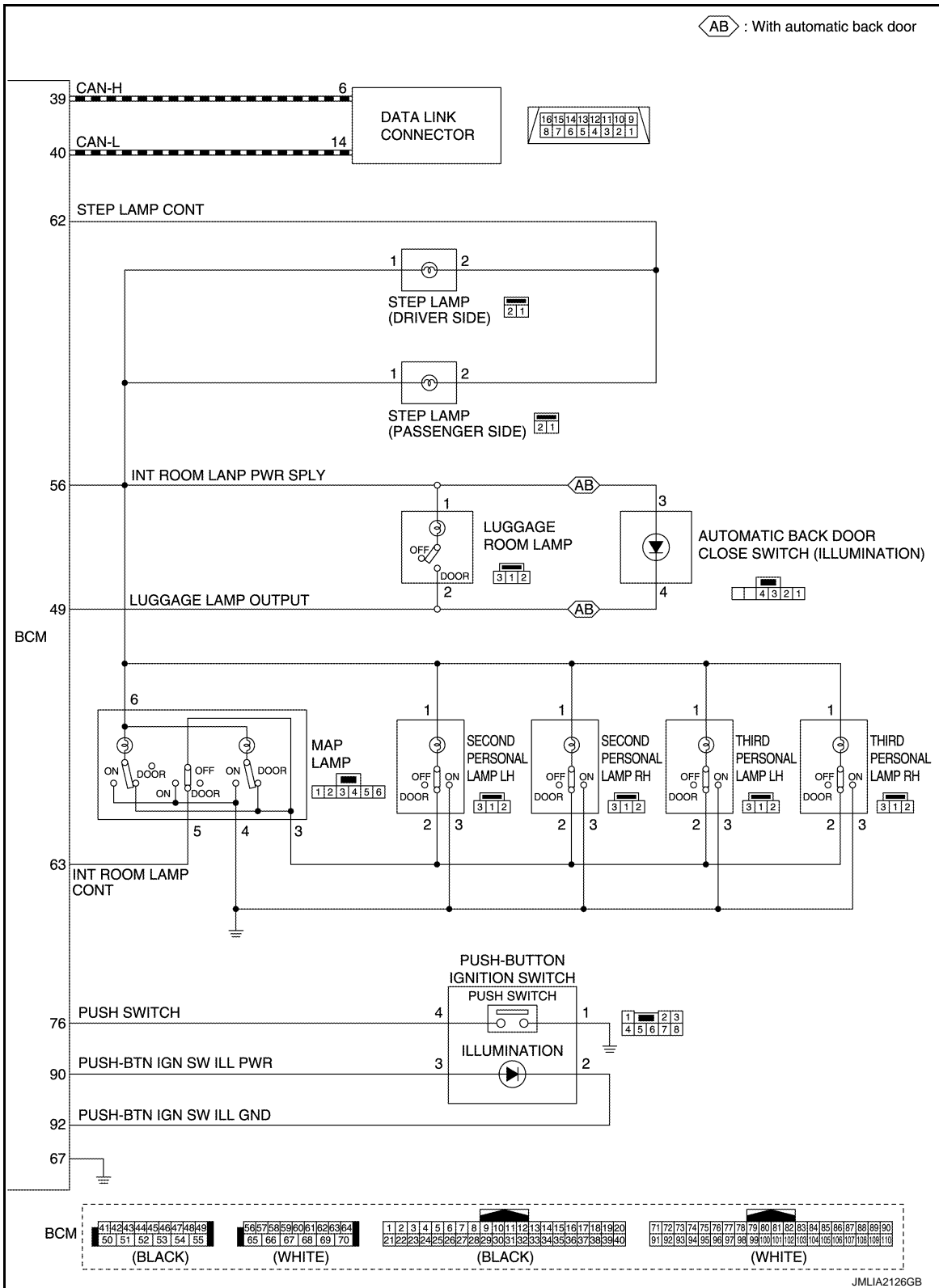
## INTERIOR ROOM LAMP CONTROL SYSTEM : Circuit Diagram

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## INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

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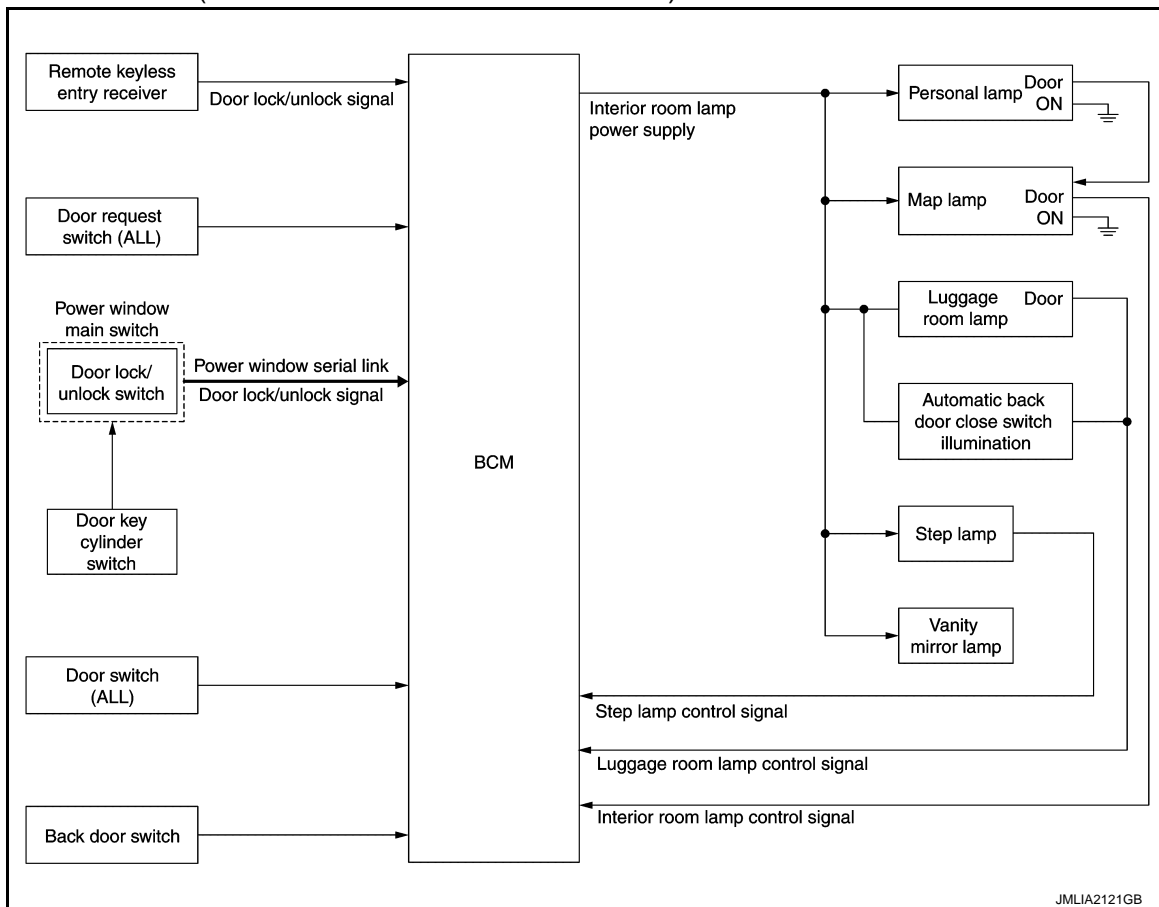
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## INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Description

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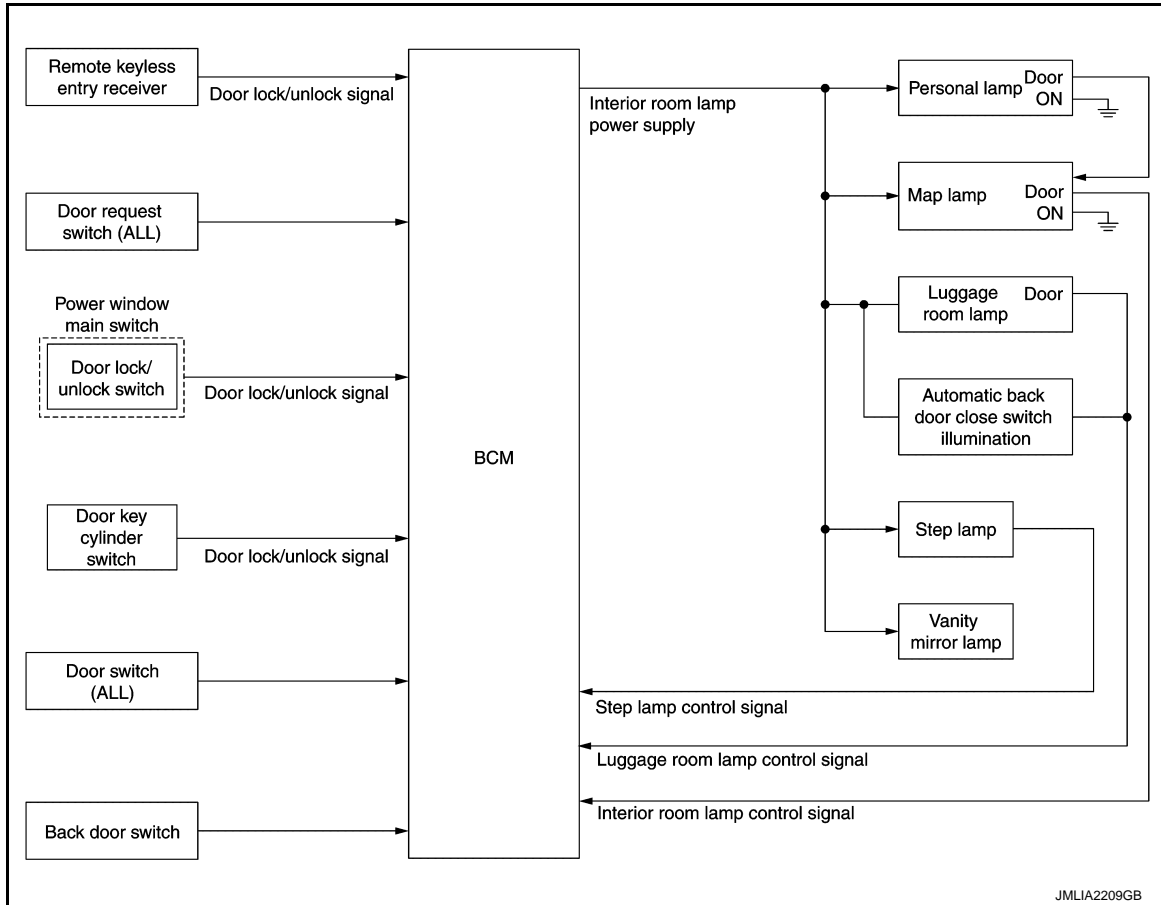
### SYSTEM DIAGRAM (WITH AUTOMATIC SLIDE DOOR)



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### SYSTEM DIAGRAM (WITHOUT AUTOMATIC SLIDE DOOR)



### 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 neglects turning OFF the any lamps.

#### Applicable lamps

- Map lamp
- Personal lamp
- Luggage room lamp
- Automatic back door close switch illumination
- Step lamp
- Vanity mirror lamp

### INTERIOR ROOM LAMP BATTERY SAVER FUNCTION

- When the ignition switch is turned to a position other 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)
  - 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.

#### NOTE:

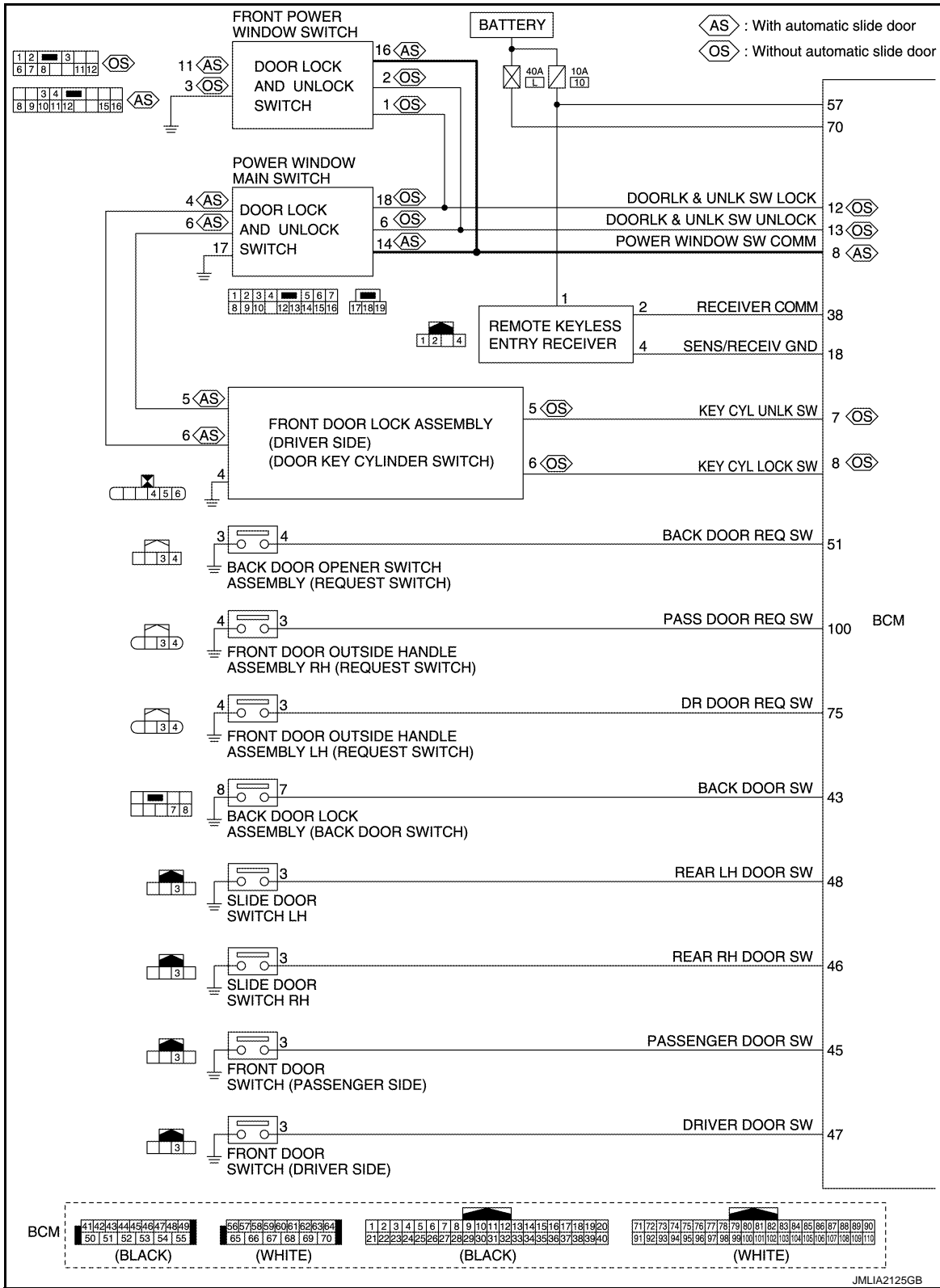
Each function of interior room lamp battery saver can be set by CONSULT. Refer to [INL-23. "BATTERY SAVER : CONSULT Function \(BCM - BATTERY SAVER\)"](#).

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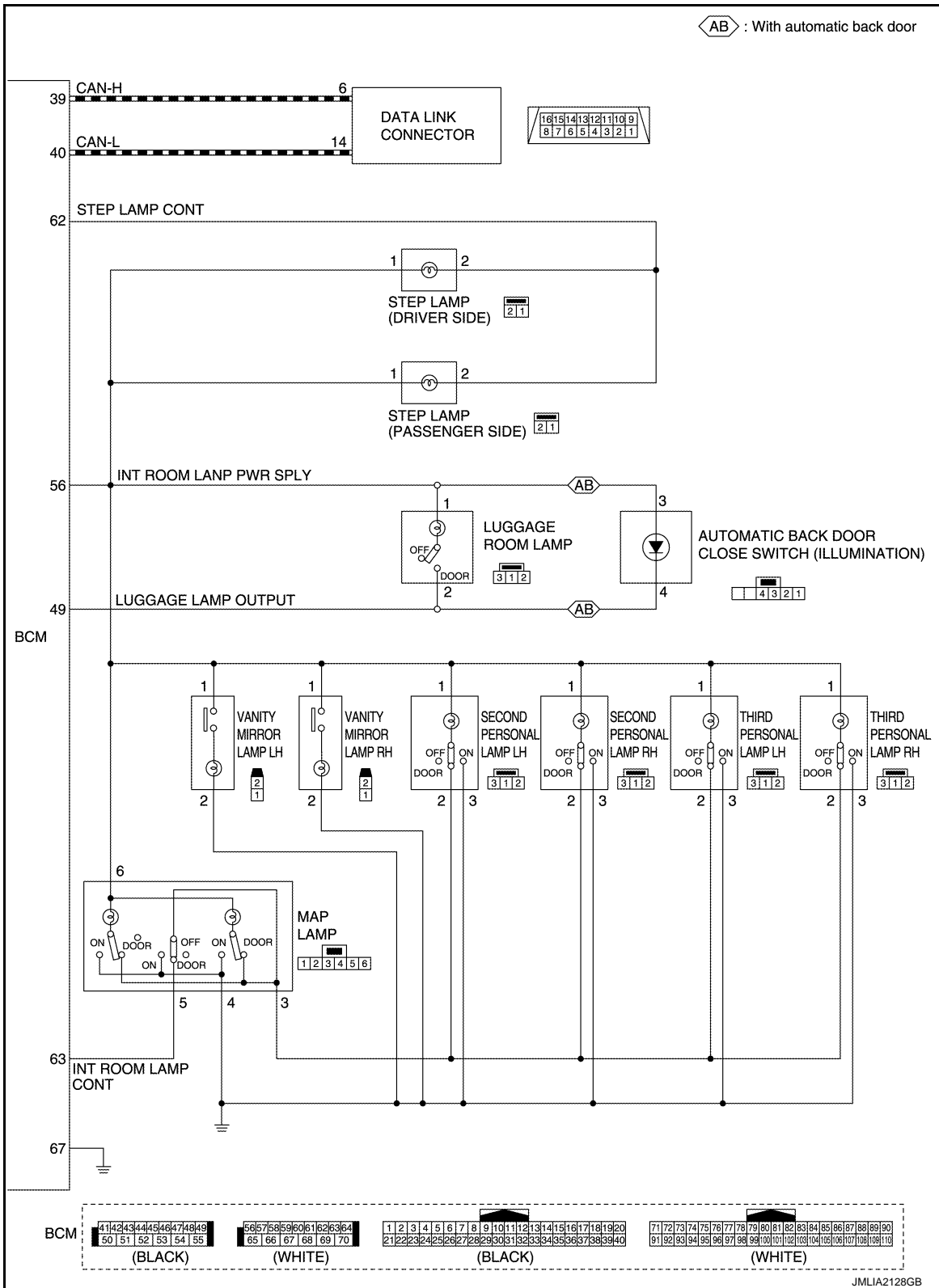
## INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : Circuit Diagram

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## ILLUMINATION CONTROL SYSTEM

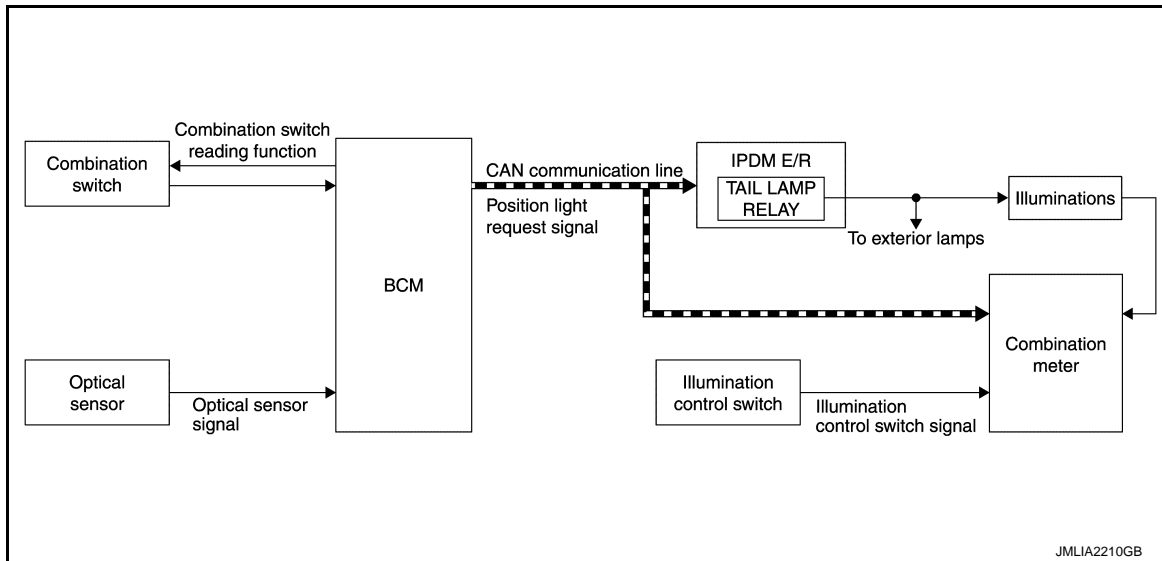
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## ILLUMINATION CONTROL SYSTEM : System Description

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### SYSTEM DIAGRAM



### OUTLINE

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

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-18, "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
- Lighting switch AUTO, with the front fog lamp switch ON and the ignition switch ON
- IPDM E/R turns the integrated tail lamp relay ON according to position light request signal. It provides the power supply to each illumination lamp.
- Combination meter enters in the nighttime mode according to position light request signal. Under the nighttime mode the combination meter controls the illuminance by controlling each illumination lamp (ground side).

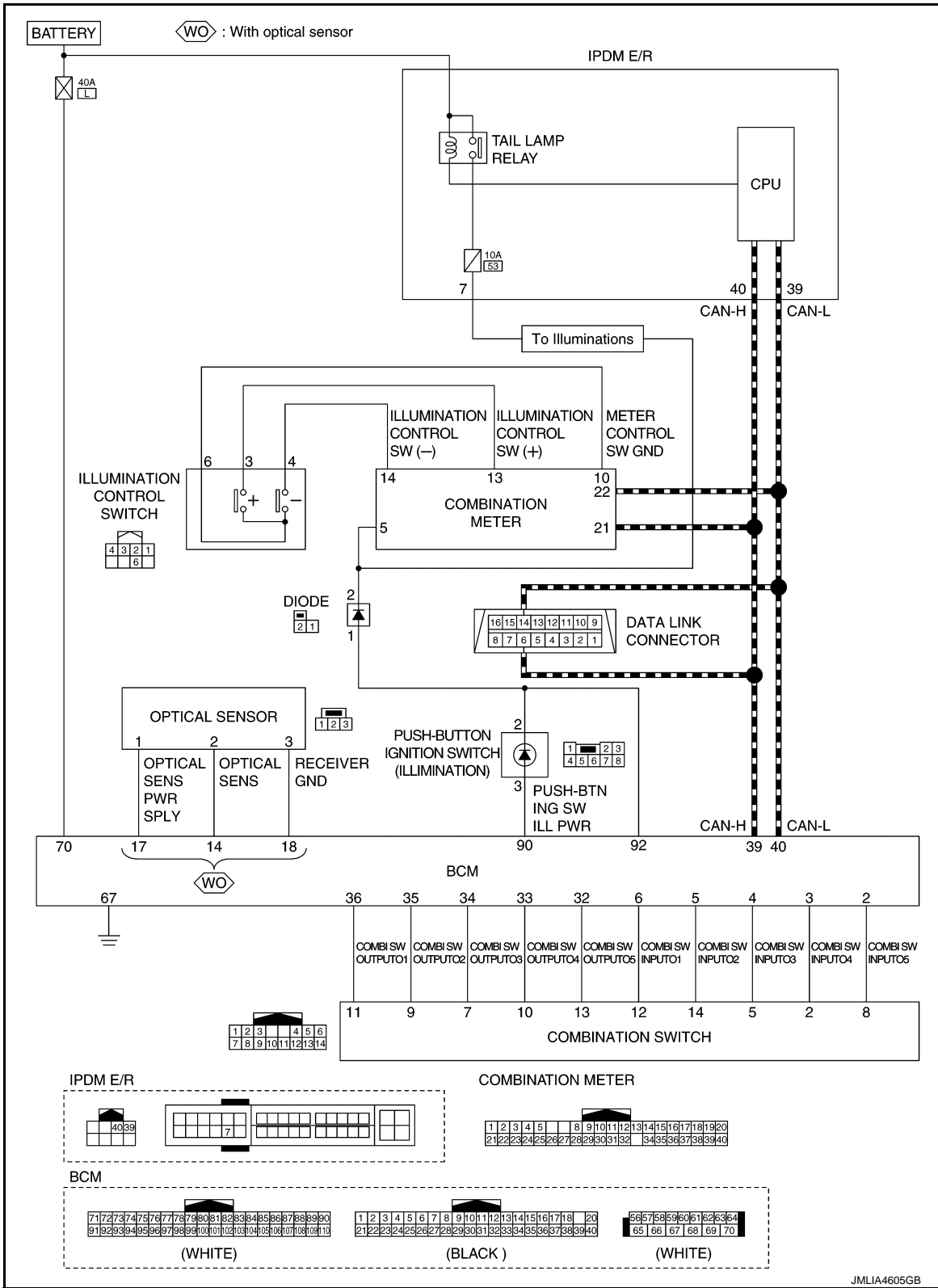


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## ILLUMINATION CONTROL SYSTEM : Circuit Diagram

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## AUTO LIGHT ADJUSTMENT SYSTEM

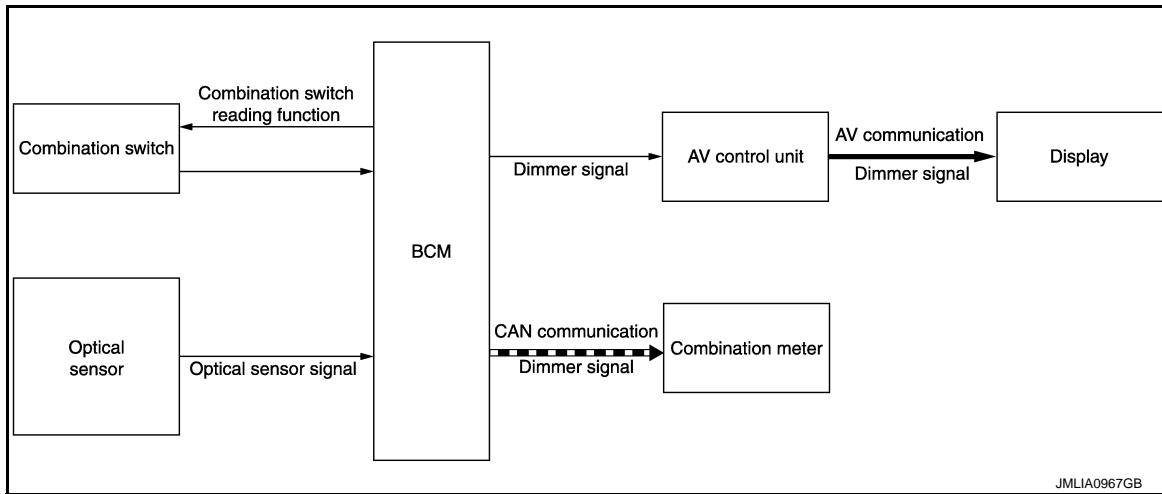
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## AUTO LIGHT ADJUSTMENT SYSTEM : System Description

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### SYSTEM DIAGRAM



### OUTLINE

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

Control by BCM

- Auto light system
- Auto light adjustment system

### AUTO LIGHT ADJUSTMENT SYSTEM

Description

- BCM supplies voltage to the optical sensor when the 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 dimming/brightening 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 (Except for CANADA). Dimmer signal is also transmitted to AV control unit.

#### NOTE:

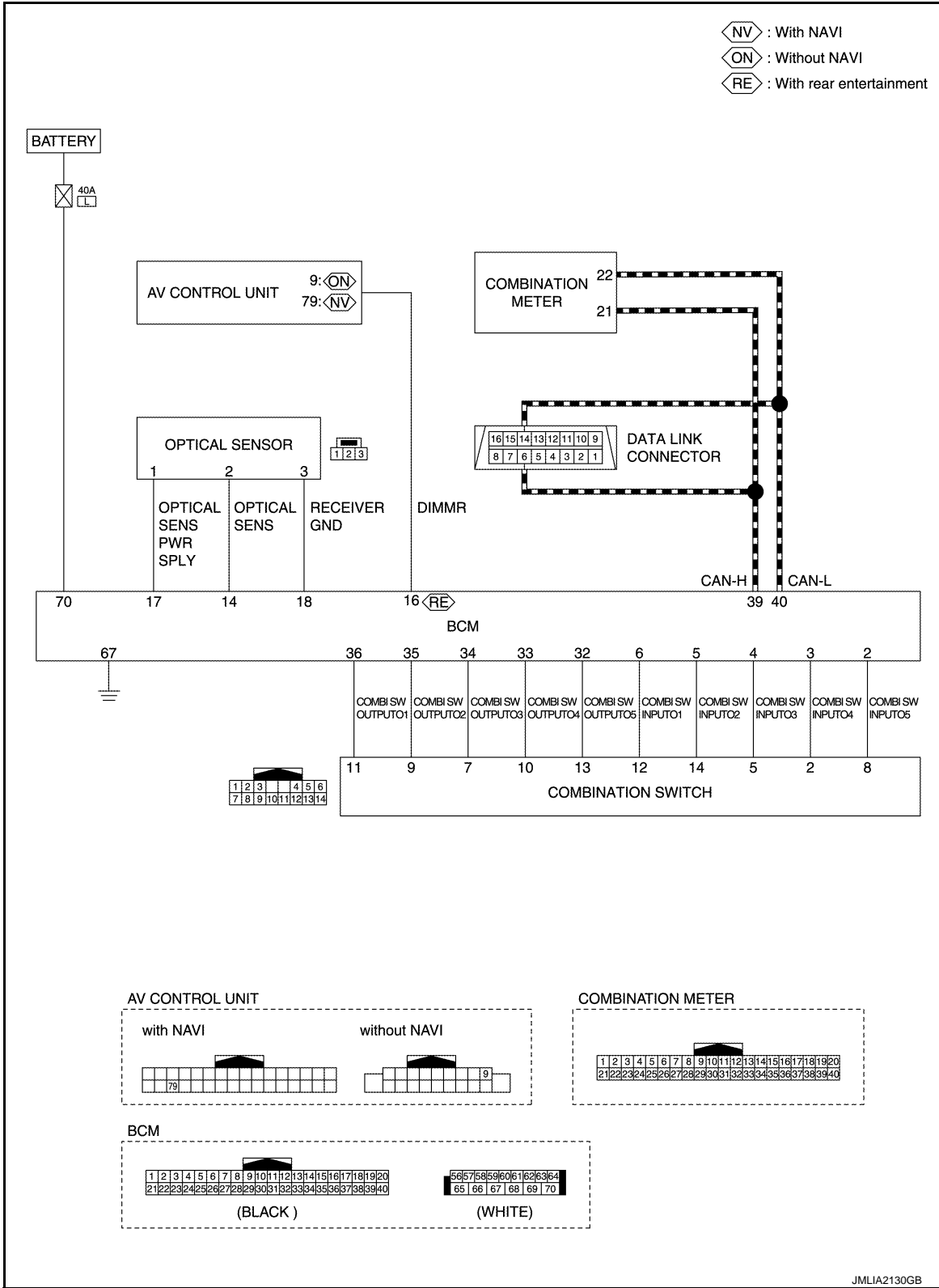
As to dimming/brightening timing, the sensitivity depends on settings. The settings can be changed with CONSULT. Refer to [EXL-27, "HEADLAMP : CONSULT Function \(BCM - HEADLAMP\) \(Xenon Type Headlamp\)"](#).

# SYSTEM

< SYSTEM DESCRIPTION >

## AUTO LIGHT ADJUSTMENT SYSTEM : Circuit Diagram

INFOID:000000012405229



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INL

## DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

### DIAGNOSIS SYSTEM (BCM)

#### COMMON ITEM

#### COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:000000013001564

#### 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 control system	INT LAMP	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
Air conditioning control system	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	×		
NVIS	IMMU	×	×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door open	TRUNK		×	
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	AIR PRESSURE MONITOR	×	×	×

#### NOTE:

\*: For models with automatic air conditioning control system, this diagnosis mode 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		A
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 OFF (LOCK)]	B
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode [Power supply position is OFF (OFF)]	C
	LOCK>ACC		While turning power supply position from OFF (LOCK) to ACC	
	ACC>ON		While turning power supply position from ACC to ON	D
	RUN>ACC		While turning power supply position from RUN to ACC (Except emergency stop operation)	
	CRANK>RUN		While turning power supply position from CRANK to RUN	E
	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)	F
	OFF>LOCK		While turning power supply position from OFF (OFF) to OFF (LOCK)	
	OFF>ACC		While turning power supply position from OFF (OFF) to ACC	G
	ON>CRANK		While turning power supply position from ON to CRANK	
	OFF>SLEEP		While turning BCM status from normal mode [Power supply position is OFF (OFF)] to low power consumption mode	H
	LOCK>SLEEP		While turning BCM status from normal mode [Power supply position is OFF (LOCK)] to low power consumption mode	
	LOCK		Power supply position is OFF (LOCK)	I
	OFF		Power supply position is OFF (OFF)	
	ACC		Power supply position is ACC	J
	ON		Power supply position is ON	
ENGINE RUN	Power supply position is RUN	K		
CRANKING	Power supply position is CRANK			
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>		INL

### NOTE:

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

- OFF (OFF, LOCK): Ignition switch OFF
- ACC: Ignition switch ACC
- IGN: Ignition switch ON with engine stopped
- RUN: Ignition switch ON with engine running
- CRANK: At engine cranking

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

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

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

## INT LAMP

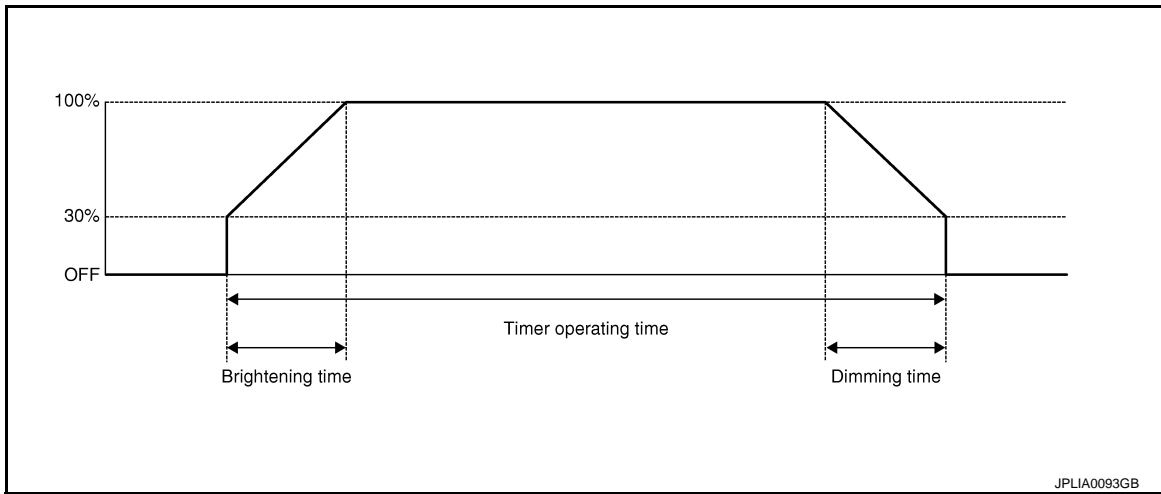
# DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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

INFOID:000000012405231

### WORK SUPPORT



Service item	Setting item	Setting
ROOM LAMP TIMER SET	MODE 2	7.5 sec.
	MODE 3*	15 sec.
	MODE 4	30 sec.
Sets the interior room lamp ON time. (Timer operating time)		
SET I/L D-UNLCK INTCON	On*	With the interior room lamp timer function
	Off	Without the interior room lamp timer function
ROOM LAMP ON TIME SET	MODE 1	0.5 sec.
	MODE 2*	1 sec.
	MODE 3	2 sec.
	MODE 4	3 sec.
	MODE 5	0 sec.
Sets the interior room lamp gradual brightening time.		
ROOM LAMP OFF TIME SET	MODE 1	0.5 sec.
	MODE 2*	1 sec.
	MODE 3	2 sec.
	MODE 4	3 sec.
	MODE 5	0 sec.
Sets the interior room lamp gradual dimming time.		
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

#### NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	The switch status input from door request switch (driver side)
REQ SW-AS [On/Off]	The switch status input from door 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.	A
REQ SW-RL [On/Off]		B
PUSH SW [On/Off]	The switch status input from push-button ignition switch	C
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)	D
DOOR SW-AS [On/Off]	The switch status input from front door switch (passenger side)	E
DOOR SW-RR [On/Off]	The switch status input from sliding door switch RH	
DOOR SW- RL [On/Off]	The switch status input from sliding door switch LH	F
DOOR SW- BK [On/Off]	The switch status input from back door switch	G
CDL LOCK SW [On/Off]	Lock switch status input from door lock and unlock switch	
CDL UNLOCK SW [On/Off]	Unlock switch status input from door lock and unlock switch	H
TRNK/HAT MNTR [On/Off]	<b>NOTE:</b> The item is indicated, but not monitored	I
KEY CYL LK-SW [On/Off]	Lock switch status received from door key cylinder switch	
KEY CYL UN-SW [On/Off]	Unlock switch status received from door key cylinder switch	J
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	K

## ACTIVE TEST

INL

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 (when applicable lamps switch is in DOOR position.)]	M
	Off	Stops the interior room lamp control signal to turn the interior room lamps.	
STEP LAMP TEST	On	Outputs the step lamp control signal to turn the step lamps ON.	N
	Off	Stops the step lamp control signal to turn the step lamps ON.	

## BATTERY SAVER

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

INFOID:000000012405232

## WORK SUPPORT

P

# 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	

\*:Factory setting

## DATA MONITOR

### NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

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



# DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

## 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.

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# BCM

< ECU DIAGNOSIS INFORMATION >

## ECU DIAGNOSIS INFORMATION

### BCM

#### List of ECU Reference

INFOID:000000012405233

ECU	Reference
BCM	<a href="#">BCS-41. "Reference Value"</a>
	<a href="#">BCS-63. "Fail-safe"</a>
	<a href="#">BCS-63. "DTC Inspection Priority Chart"</a>
	<a href="#">BCS-64. "DTC Index"</a>

# INTERIOR ROOM LAMP CONTROL SYSTEM

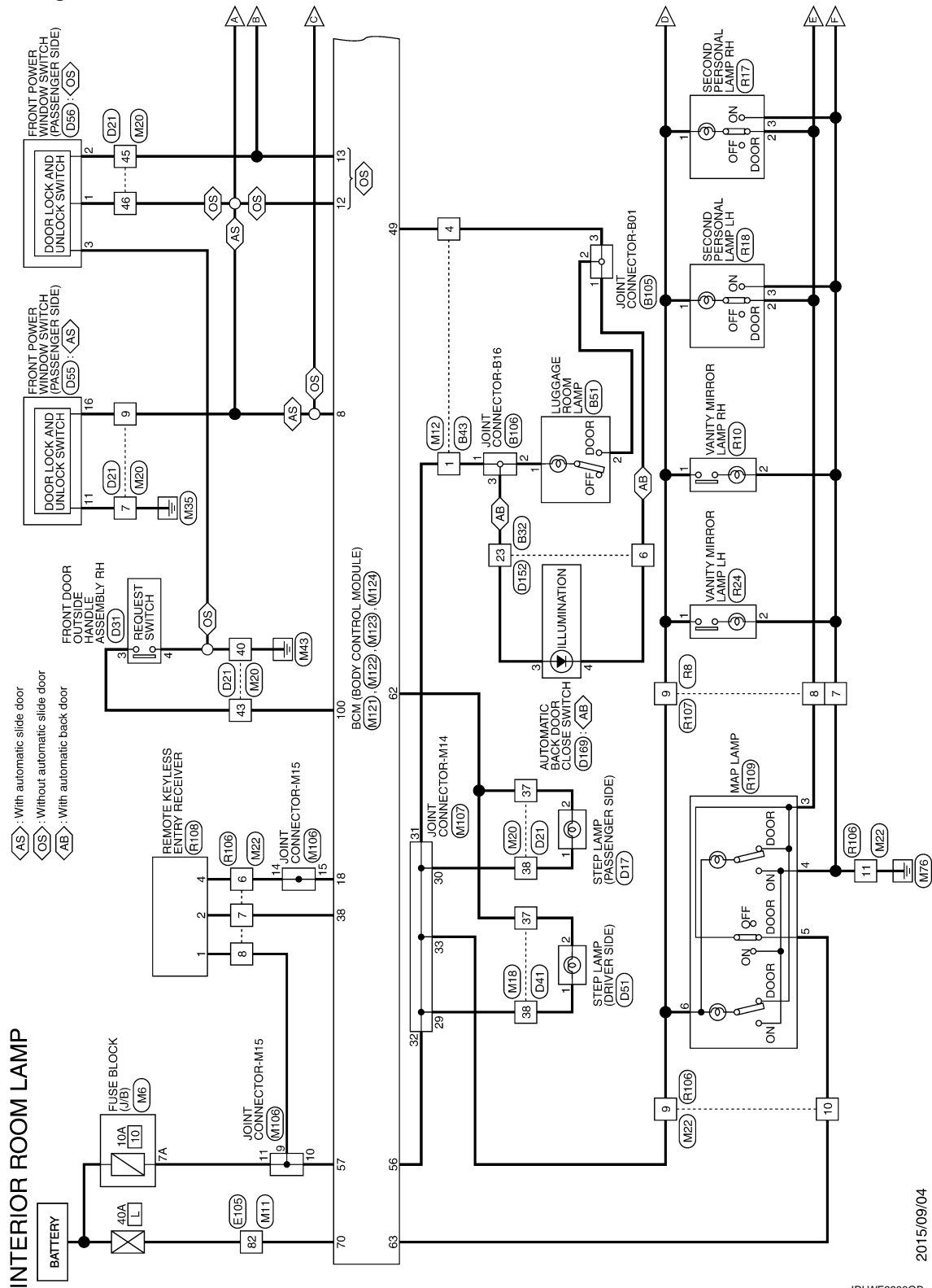
< WIRING DIAGRAM >

## WIRING DIAGRAM

### INTERIOR ROOM LAMP CONTROL SYSTEM

#### Wiring Diagram

INFOID:000000012405234

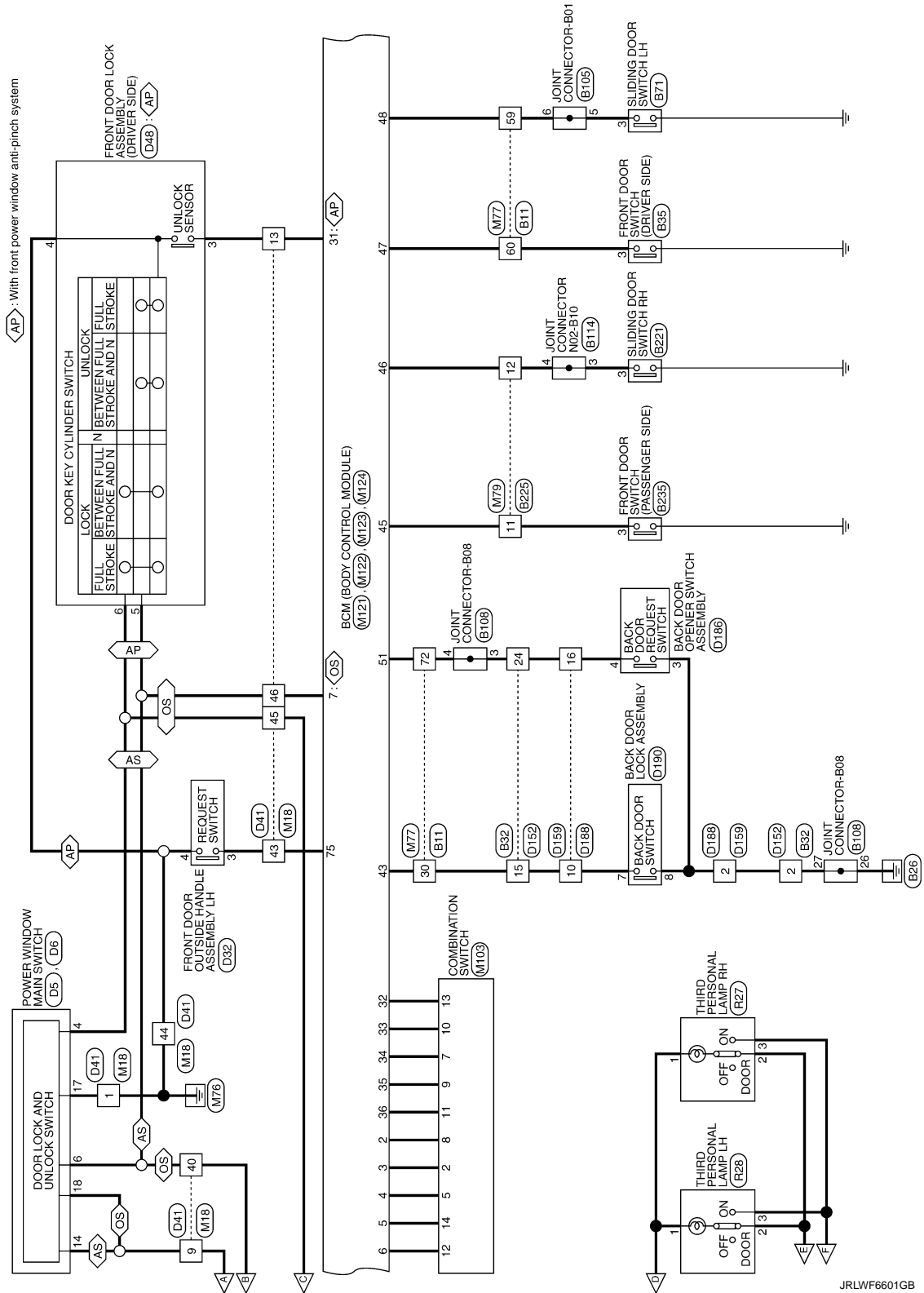


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# INTERIOR ROOM LAMP CONTROL SYSTEM

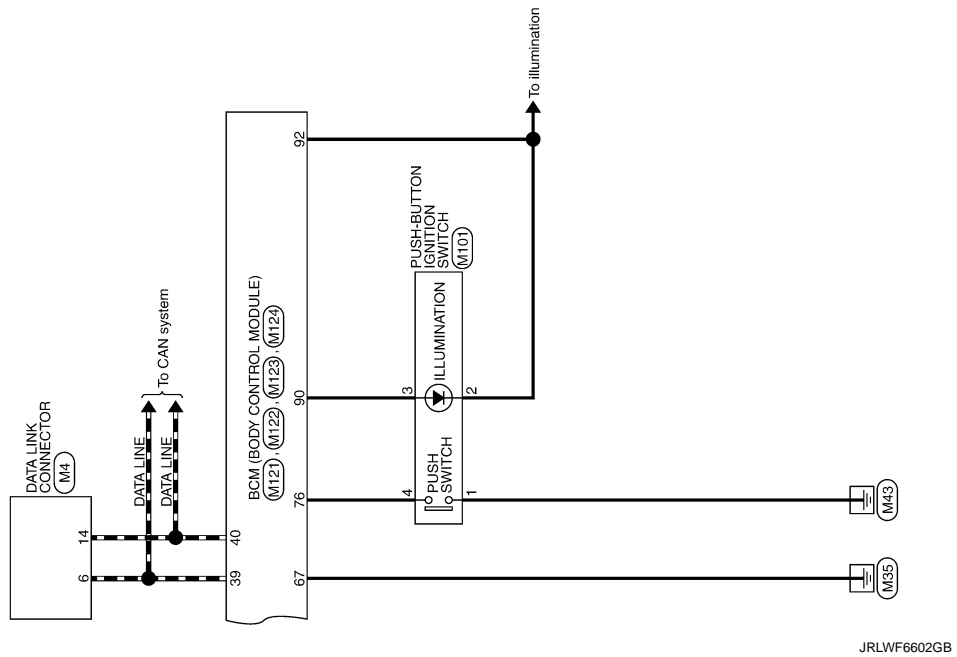
< WIRING DIAGRAM >



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# INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >



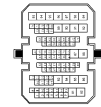
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# INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

## INTERIOR ROOM LAMP

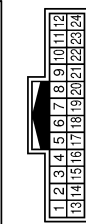
Connector No.	B51
Connector Name	WIRE TO WIRE
Connector Type	TH80PW-CS19



Terminal No.	Color Of Wire	Signal Name [Specification]
10	GR	-
12	G	-
13	P	-
15	L	-
29	GR	-
30	W	-
31	P	-
37	SHIELD	-
38	R	-
39	B	-
40	W	-
51	Y	-
52	B	-
53	G	-
54	L	-
57	Y	-
58	L	-
59	GR	-
60	Y	-
61	Y	-
62	BR	-
63	L	-
64	W	-
65	R	-
66	SHIELD	-
67	B	-
68	W	-
69	SHIELD	-
70	W/R	-
71	B/R	-
72	BR	-
74	L	-
75	5B	-
77	V	-

76	LG	-
78	GR	-
80	BR	-
82	SP	-
83	V	-
87	G	-
88	V	-
89	G	-
90	Y	-
91	LG	-
92	L	-

Connector No.	B32
Connector Name	WIRE TO WIRE
Connector Type	TH21MMW-NH



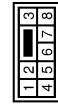
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	B	-
3	R	-
4	W	-
5	Y	-
6	B	-
9	SHIELD	-
10	R	-
11	B	-
12	W	-
13	GR	-
14	P	-
15	W	-
16	G	-
17	R	-
18	W	-
19	GR	-
20	P	-
21	W	-
22	P	-
23	G	-
24	BR	-

Connector No.	B35
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	TH04FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
3	Y	-

Connector No.	B43
Connector Name	WIRE TO WIRE
Connector Type	NS08BMMW-CS



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

Connector No.	B51
Connector Name	LUGGAGE ROOM LAMP
Connector Type	TH03FW



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

Connector No.	B71
Connector Name	SLIDING DOOR SWITCH LH
Connector Type	TH04FW-NH



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

JRLWF6603GB

# INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

## INTERIOR ROOM LAMP

Connector No.	B105
Connector Name	JOINT CONNECTOR-B01
Connector Type	A12FB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	B	-
3	B	-
4	GR	-
5	GR	-
6	GR	-
7	G	-
8	G	-
9	G	-
10	P	-
11	P	-
12	P	-

Connector No.	B106
Connector Name	JOINT CONNECTOR-B16
Connector Type	T04FW-J



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

Connector No.	B108
Connector Name	JOINT CONNECTOR-B08
Connector Type	B03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
3	BR	-
4	BR	-
5	G	-
6	G	-
13	V	-
14	V	-
15	V	-
17	GR	-
18	GR	-
19	GR	-
20	GR	-
21	GR	-
22	GR	-
23	P	-
24	P	-
25	B	-
26	B	-
28	B	-
30	W	-
31	W	-
32	W	-

Connector No.	B114
Connector Name	JOINT CONNECTOR-NO2-B10
Connector Type	T04FW-J



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

Connector No.	B221
Connector Name	SLIDING DOOR SWITCH RH
Connector Type	T04FW-NH



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

Connector No.	B225
Connector Name	WIRE TO WIRE
Connector Type	T04FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
2	W	-
3	B	-
4	P	-
5	G	-
9	L	-
10	P	-
11	SB	-
12	GR	-
13	R	-
14	G	-
15	L	-
16	Y	-

Connector No.	B235
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	T04FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
3	SB	-

A  
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# INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

## INTERIOR ROOM LAMP

Connector No.	D15
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FWCS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	SLIDING DOOR POWER WINDOW MOTOR UP SIGNAL
2	P	ENCORDER GROUND
3	BR	SLIDING DOOR POWER WINDOW MOTOR UP/DOWN SIGNAL
4	G	DOOR KEY CYLINDER SWITCH LOCK SIGNAL
5	SB	SLIDING DOOR POWER WINDOW MOTOR RE-POWER SIGNAL
6	GR	DOOR KEY CYLINDER SWITCH UNLOCK SIGNAL
7	V	SLIDING DOOR POWER WINDOW MOTOR RH UP SIGNAL
8	L	SLIDING DOOR POWER WINDOW MOTOR (DRIVER SIDE) UP SIGNAL
9	W	ENCORDER SIGNAL 2
10	GR	RETAINED POWER SIGNAL
11	Y	FRONT POWER WINDOW MOTOR (DRIVER SIDE) DOWN SIGNAL
12	LG	-
13	GR	ENCORDER SIGNAL 1
14	R	POWER WINDOW SERIAL LINK
15	G	ENCORDER POWER SUPPLY
16	L	-

Connector No.	D16
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FWCS



Terminal No.	Color Of Wire	Signal Name [Specification]
17	B	GROUND
18	G	-
19	Y	BATTERY POWER SUPPLY

Connector No.	D17
Connector Name	STEP LAMP (PASSENGER SIDE)
Connector Type	TH02FW



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

Connector No.	D21
Connector Name	WIRE TO WIRE
Connector Type	TH4DFW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
7	B	-
8	V	-
9	BR	- [With manual A/C] - [With auto A/C]
10	LG	-
11	LG	-
12	BR	-
14	B	- [Without BOSE system]
14	R	- [With BOSE system]
15	L	- [Without BOSE system]
15	W	- [With BOSE system]
16	P	-
17	GR	-
18	R	-
19	W	-
21	R	-
22	B	-
23	W	-

Terminal No.	24	SHIELD	-
Terminal No.	25	L	-
Terminal No.	26	P	-
Terminal No.	27	G	-
Terminal No.	28	W	-
Terminal No.	39	LG	-
Terminal No.	40	B	-
Terminal No.	41	GR	-
Terminal No.	42	G	-
Terminal No.	43	R	-
Terminal No.	45	G	-
Terminal No.	46	GR	-
Terminal No.	50	W	-
Terminal No.	51	R	-
Terminal No.	52	G	-
Terminal No.	53	SHIELD	-
Terminal No.	54	B	-
Terminal No.	55	W	-



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

Connector No.	D11
Connector Name	FRONT DOOR OUTSIDE HANDLE ASSEMBLY RH
Connector Type	RH04MB



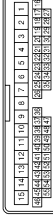
Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	G	-
3	R	-
4	B	-

Connector No.	D32
Connector Name	FRONT DOOR OUTSIDE HANDLE ASSEMBLY LH
Connector Type	RH04MB



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

Connector No.	D41
Connector Name	WIRE TO WIRE
Connector Type	TH4DFW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	V	-
3	SB	-
4	Y	-
5	BR	-
6	L	-
7	Y	-
8	GR	-
9	G	- [With manual A/C] - [With auto A/C]
10	Y	-
11	BR	-
12	LG	-
13	W	-
14	B	-
15	L	- [Without BOSE system]




# INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >


Terminal No.	Color Of Wire	Signal Name [Specification]
15	W	- [With BOSE system]
16	G	-
17	G	-
18	C	-
19	P	-
20	W	-
21	GR	-
22	P	-
23	B	-
24	B	-
25	W	-
26	SHIELD	-
27	R	-
28	P	-
29	GR	-
30	P	-
31	W	-
32	G	-
33	P	-
34	W	-
35	G	-
36	P	-
37	G	-
38	W	-
39	LG	-
40	GR	-
41	GR	-
42	G	-
43	R	-
44	B	-
45	Y	- [Without around view monitor] - [With around view monitor]
46	GR	- [Without around view monitor] - [With around view monitor]
47	GR	-
48	B	-
49	R	-
50	G	- [With automatic drive positioner] - [Without automatic drive positioner]
51	P	- [With automatic drive positioner] - [Without automatic drive positioner]
52	G	- [With automatic drive positioner] - [Without automatic drive positioner]
53	SHIELD	-
54	B	-
55	W	-

Connector No.	D48
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	FG6FCY-RS

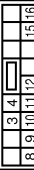


Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	LG	-
3	W	-
4	B	-
5	GR	-
6	G	-

Connector No.	DS1
Connector Name	STEP LAMP (DRIVER SIDE)
Connector Type	TK02FW

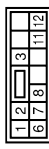


Connector No.	DS5
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NSL2FW-CS




Terminal No.	Color Of Wire	Signal Name [Specification]
3	GR	ENCORDER GROUND
4	G	ENCORDER POWER SUPPLY
8	L	FRONT POWER WINDOW MOTOR (PASSENGER SIDE) LAMP SIGNAL
9	LG	FRONT POWER WINDOW MOTOR (PASSENGER SIDE) POWER SIGNAL
10	V	BATTERY POWER SUPPLY
11	B	GROUND
12	P	ENCORDER SIGNAL 1
15	R	ENCORDER SIGNAL 2
16	W	POWER WINDOW SERIAL LINK

Connector No.	DS6
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NSL2FW-CS



Connector No.	DS2
Connector Name	WIRE TO WIRE
Connector Type	TK24FW-WM



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	G	-
3	B	-
6	LG	-
7	L	-
8	V	-
11	LG	-
12	BR	-

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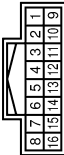
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# INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

## INTERIOR ROOM LAMP

Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	TH156V-MNH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	B	-
3	P	-
4	V	-
5	Y	-
9	R	-
10	P	-
11	O	-
12	L	-
13	GR	-
14	O	-
15	LG	-
16	V	-

Connector No.	D169
Connector Name	AUTOMATIC BACK DOOR CLOSE SWITCH
Connector Type	TOBE6Y



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

Connector No.	D186
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TH186M-MNH



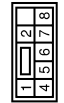
Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	B	-
3	B	-
4	W	-

Connector No.	D188
Connector Name	WIRE TO WIRE
Connector Type	TH188M-MNH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	B	-
3	Y	-
4	P	-
5	BR	-
9	R	-
10	P	-
11	R	-
12	W	-
13	G	-
14	GR	-
15	R	-
16	W	-

Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS09M-VCS



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

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH105M-LS10-M3



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

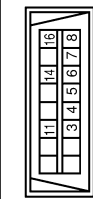
15	P	-
31	GR	-
32	W	-
37	BR	-
38	G	-
39	V	-
40	P	-
41	L	-
42	LG	-
43	O	-
45	P	-
46	SB	-
47	V	-
49	L	-
51	BR	-
52	G	-
53	B	-
54	O	-
55	Y	-
56	SHIELD	-
61	P	-
62	G	-
63	W/L	-
64	W/R	-
65	W	-
67	Y	-
69	R	-
71	R	-
72	GR	-
73	Y	-
74	SB	-
75	Y	-
77	G	-
78	O	-
80	R	-
81	L	-
82	LG	-
83	R	-

# INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

## INTERIOR ROOM LAMP

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD36PW



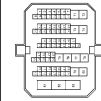
Terminal No.	Color Of Wire	Signal Name [Specification]
3	LG	-
4	GR	-
5	GR	-
6	L	-
7	R	-
8	G	-
11	SB	-
14	P	-
16	P	-

Connector No.	M6
Connector Name	FUSE BLOCK (J/B)
Connector Type	CS65FW-M2



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

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH70PW-CS10-M3



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SHIELD	-
2	W	-
3	B	-
4	R	-
6	G	-
7	R	-
8	G	-
9	B	-
10	R	-
11	W	-
12	L	- [Without automatic drive positioner]
12	LG	- [With automatic drive positioner]
13	G	- [Without automatic drive positioner]
13	Y	- [With automatic drive positioner]
14	L	-
15	B	-
16	R	-
17	GR	- [With automatic drive positioner]
17	W	- [Without automatic drive positioner]
18	P	-
19	BE	-
19	Y	- [Without automatic drive positioner]
19	P	- [With automatic drive positioner]
40	P	-
41	L	-
42	G	-
43	W	-
45	P	-
46	V	-
47	R	-
49	G	-
51	G	-
53	B	-
54	LG	-
55	L	-

56	SHIELD	-
61	R	-
62	B	-
63	W	-
66	W	-
67	BR	-
69	P	-
71	R	-
72	L	-
73	LG	-
74	Y	-
75	Y	-
76	V	-
77	P	-
78	BR	-
80	Y	-
81	W	-
82	L	-
83	R	-

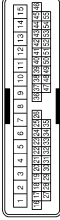


Connector No.	M12
Connector Name	WIRE TO WIRE
Connector Type	NS28FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	V	-
3	BR	- [Without automatic drive positioner]
3	P	- [With automatic drive positioner]
4	B	-
5	L	-
6	Y	-
7	SB	-
8	G	-

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TH40PW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	R	-
3	W	-
4	Y	-
5	SB	-
6	LG	-
7	V	-
8	L	-
9	GR	-
10	Y	-
11	V	-
12	G	-
13	G	-
14	B	- [Without BDEE system]
14	R	- [With BDEE system]
15	W	- [Without BDEE system]
15	W	- [With BDEE system]
16	W	-
17	BE	-
18	P	-
19	W	-
20	LG	-
21	P	-
22	G	-
23	R	-
24	B	-
25	W	-
26	SHIELD	-
27	Y	-
28	G	-
29	W	-
30	R	-
31	W	-
32	G	-
33	BE	-
34	P	-

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# INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

## INTERIOR ROOM LAMP

35	W	-	-
36	G	-	-
37	W	-	-
38	P	-	-
39	V	-	-
40	R	-	-
41	B	-	-
42	W	-	-
43	G	-	-
44	B	-	-
45	GR	- [With around view monitor]	-
46	R	- [Without around view monitor]	-
47	GR	- [Without around view monitor]	-
48	GR	- [With around view monitor]	-
49	P	- [Without automatic drive positioner]	-
50	GR	- [With automatic drive positioner]	-
51	B	- [Without automatic drive positioner]	-
52	GR	- [With automatic drive positioner]	-
53	SHIELD	- [Without automatic drive positioner]	-
54	W	-	-
55	B	-	-

Connector No.	M20
Connector Name	WIRE TO WIRE
Connector Type	TH400RW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
7	B	-
8	L	-
8	Y	- [With manual A/C]
9	GR	- [With auto A/C]
9	LG	- [With manual A/C]
10	V	-
11	5B	-

12	V	-	-
13	L	-	-
14	L	- [Without BOSE system]	-
15	LG	- [With BOSE system]	-
16	G	-	-
17	P	-	-
18	R	-	-
19	LG	-	-
21	R	-	-
22	B	-	-
23	W	-	-
24	SHIELD	-	-
25	B	-	-
26	W	-	-
36	LG	-	-
37	W	-	-
38	P	-	-
39	Y	-	-
40	B	-	-
41	GR	-	-
42	BE	-	-
43	R	-	-
45	R	-	-
46	GR	-	-
50	W	-	-
51	B	-	-
52	GR	-	-
53	SHIELD	-	-
54	W	-	-
55	B	-	-

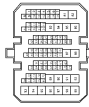
Connector No.	M22
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH



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

5	B	-	-
7	BE	-	-
8	P	-	-
9	P	-	-
10	R	-	-
11	GR	-	-
12	GR	-	-
13	P	-	-
14	B	-	-
15	SHIELD	-	-
16	W	-	-

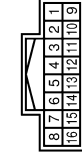
Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS19



Terminal No.	Color Of Wire	Signal Name [Specification]
10	P	-
12	BE	-
15	R	-
28	W	-
30	P	-
31	BE	-
37	SHIELD	-
38	B	- [Without around view monitor]
38	W	- [With around view monitor]
39	B	- [Without around view monitor]
39	W	- [With around view monitor]
40	R	-
51	LG	-
52	B	-
53	BE	-
54	P	-
55	L	-
57	Y	-
58	L	-
59	BE	-
60	G	-
61	LG	-

62	5B	-	-
63	R	-	-
64	R	-	-
65	C	-	-
66	SHIELD	-	-
67	B	-	-
68	W	-	-
69	SHIELD	-	-
70	B	-	-
71	W	-	-
72	G	-	-
74	GR	-	-
75	G	-	-
77	W	-	-
78	R	-	-
79	W	-	-
80	G	-	-
81	L	-	-
82	W	-	-
87	V	-	-
88	LG	-	-
89	GR	-	-
90	R	- [With automatic drive positioner]	-
90	Y	- [Without automatic drive positioner]	-
91	LG	-	-
92	BR	-	-

Connector No.	M79
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
2	GR	-
3	B	-
4	P	-
5	BR	-
9	L	-
10	P	-
11	W	-
12	R	-

# INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

## INTERIOR ROOM LAMP

13	BE	-
14	W	-
15	G	-
16	P	-

Connector No.	M101
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TK08FR



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

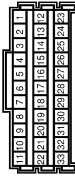
Connector No.	M103
Connector Name	COMBINATION SWITCH
Connector Type	TH145FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	RR
2	G	OUTPUT 4
3	P	FR
4	W	IGN
5	BE	OUTPUT 3
6	B/Y	GROUND

7	P	INPUT 3
8	R	OUTPUT 5
9	GR	INPUT 2
10	GR	INPUT 4
11	R	OUTPUT 1
12	W	INPUT 1
13	R	INPUT 5
14	G	OUTPUT 2

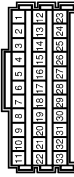
Connector No.	M106
Connector Name	JOINT CONNECTOR-M15
Connector Type	B120FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	B	-
3	B	-
4	L	-
5	L	-
6	L	-
8	GR	-
9	Y	-
10	Y	-
11	Y	-
12	R	-
14	R	-
15	R	-
17	Y	-
18	Y	-
19	Y	-
20	Y	-
21	G	- [Without automatic drive positioner]
22	G	- [Without automatic drive positioner]
23	GR	- [Without automatic drive positioner]
25	GR	-
26	V	-
27	V	-
28	V	-

29	SB	-
30	BE	-
31	SB	-
32	SB	-
33	BE	-

Connector No.	M107
Connector Name	JOINT CONNECTOR-M14
Connector Type	B130FW



Terminal No.	Color Of Wire	Signal Name [Specification]
2	R	-
3	R	-
4	R	-
6	O	-
7	O	-
8	O	-
9	P	-
10	P	-
11	O	-
12	Y	-
14	Y	-
15	B	-
16	B	-
17	B	-
20	Y	-
21	G	- [Without automatic drive positioner]
22	G	- [Without automatic drive positioner]
23	V	- [Without automatic drive positioner]
25	LG	-
26	G	-
27	V	-
29	P	-
30	P	-
31	P	-
32	P	-
33	P	-

Connector No.	M121
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	REAR WINDOW DEF RELAY CONT
2	R	COMBI SW INPUT 5
3	G	COMBI SW INPUT 4
4	BE	COMBI SW INPUT 3
5	G	COMBI SW INPUT 2
6	W	COMBI SW INPUT 1
7	W	KEY CYL UNLOCK SW
8	GR	PW SW COMMM [With automatic slide door]
9	GR	KEY CYL LOCK SW [Without automatic slide door]
12	GR	STOP LAMP SW 1
13	BR	DOOR LK & UNLK SW LOCK
14	L	DOOR LK & UNLK SW UNLOCK
15	W	OPTICAL SENS
16	Y	REAR WINDOW DEF SW
17	O	DRIVER
18	O	SENS SW SWAY
19	O	REAR SEAT SW
21	GR	SECURITY SENS SW
22	W	SECURITY SENS CONT
25	P	WASER ANT AMP
27	O	A/C CON
28	BR	BLOWER FAN ON
29	P	HAZARD SW
30	L	BL DOOR OPNR SW
31	G	DR DOOR UNLK SENS
32	R	COMBI SW OUTPUT 5
33	W	COMBI SW OUTPUT 4
34	P	COMBI SW OUTPUT 3
35	GR	COMBI SW OUTPUT 2
36	R	COMBI SW OUTPUT 1
37	G	DETENT SW
38	BE	RECEIVER COMM
39	L	CAN-H
40	P	CAN-L

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# INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

## INTERIOR ROOM LAMP

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

43	44	45	46	47	48	49	50	51	53	54	55
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Terminal No.	Color Of Wire	Signal Name [Specification]
43	P	BR DOOR SW
44	GR	REAR WIPER STOP POSITION
45	W	PASS DOOR SW
46	R	SL DOOR RH SW
47	G	DR DOOR SW
48	BE	SL DOOR LH SW
49	B	LUGGAGE LAMP CONT
50	V	SELECT UNLK RELAY CONT
51	G	BACK DOOR REQ SW
53	BR	BR DOOR OPEN
54	R	REAR WIPER OUTPUT
55	G	SL DOOR LH UNLK CONT

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEADSPW-FH46-SA

56	57	58	59	60	61	62	63	64
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Terminal No.	Color Of Wire	Signal Name [Specification]
56	P	INT ROOM LAMP PWR SPLY
57	Y	BAT
58	O	AIR BAG
59	SB	PASS DOOR UNLK OUTPUT
60	V	TURN SIG LH OUTPUT
61	G	TURN SIG RH OUTPUT
62	W	STEP LAMP CONT
63	R	INT ROOM LAMP CONT

64	W	GRNWK REG
65	V	ALL DOOR UNLK OUTPUT
66	G	DR DOOR UNLK OUTPUT
67	B	CRUISED
68	L	PWR PWR SPV1 (GN)
69	P	PWR PWR SPV1 (BAT)
70	L	BAT

Connector No.	M124
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH407W-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	104
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Terminal No.	Color Of Wire	Signal Name [Specification]
73	G	ON/IND
75	G	DR DOOR REQ SW
76	V	PUSH SW
78	B	DR DOOR ANT+
79	W	DR DOOR ANT-
80	SR	PS DOOR ANT+
81	BE	PS DOOR ANT-
82	G	REAR BUMPER ANT+
83	R	REAR BUMPER ANT-
84	GR	ROOM ANT+
85	B	ROOM ANT-
86	W	ROOM ANT+
87	BE	ROOM ANT-
88	GR	LUGGAGE ROOM ANT+
89	B	LUGGAGE ROOM ANT-
90	P	PUSH-BTN IGN SW (LL PWR SPV)
91	W	LOCK IND
92	B	PUSH-BTN IGN SW (LL GND)
93	R	I-KEY WARN BUZZER
96	BE	ACC RELAY CONT OUTPUT
97	W	STARTER RELAY CONT
98	P	IGN RELAY (IPDM/E/R) CONT
99	G	IGN RELAY (F/B) CONT OUTPUT
100	R	PASS DOOR REQ SW
101	R	IGN PWR SPV2
102	P	F/A POSITION
104	L	CVT SHIFT SELECT PWR SPV

105	R	STOP LAMP SW 2
106	O	BLWR RELAY CONT OUTPUT
107	R	ACC IND

Connector No.	R8
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH

108	109	110	111	112
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Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	BR	-
3	BR/R	- [With manual A/C]
4	V	- [With auto A/C]
5	R	- [With manual A/C]
6	R/L	- [With manual A/C]
7	B	-
8	G	-
9	L	-
10	A	-
11	BR	-

Connector No.	R10
Connector Name	VANITY MIRROR LAMP RH
Connector Type	MG402FW

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

Connector No.	R17
Connector Name	SECOND PERSONAL LAMP RH
Connector Type	TK03FW

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

Connector No.	R18
Connector Name	SECOND PERSONAL LAMP LH
Connector Type	TK03FW

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

JRLWF6611GB

# INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

## INTERIOR ROOM LAMP

Connector No.	R124
Connector Name	VANITY MIRROR LAMP LH
Connector Type	TKC403FW



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

Connector No.	R27
Connector Name	THIRD PERSONAL LAMP RH
Connector Type	TK03FW



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

Connector No.	R28
Connector Name	THIRD PERSONAL LAMP LH
Connector Type	TK03FW



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

Connector No.	R105
Connector Name	WIRE TO WIRE
Connector Type	TH15MMW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	SB	-
3	P	-
4	V	-
6	LG	-
7	L	-
8	BR	-
9	SB	-
10	BR	-
11	B	-
12	V	-
13	Y	-
14	B	-
15	SHIELD	-
16	W	-

Connector No.	R107
Connector Name	WIRE TO WIRE
Connector Type	TH12MMW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	SB	-
3	LG	-
4	Y	-
7	B	-
8	L	-
9	SB	-
10	P	-
11	LG	-

Connector No.	R108
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Type	TH04FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	BAT
2	L	SIGNAL
4	LG	GROUND

Connector No.	R109
Connector Name	MAP LAMP
Connector Type	TK06FGY



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

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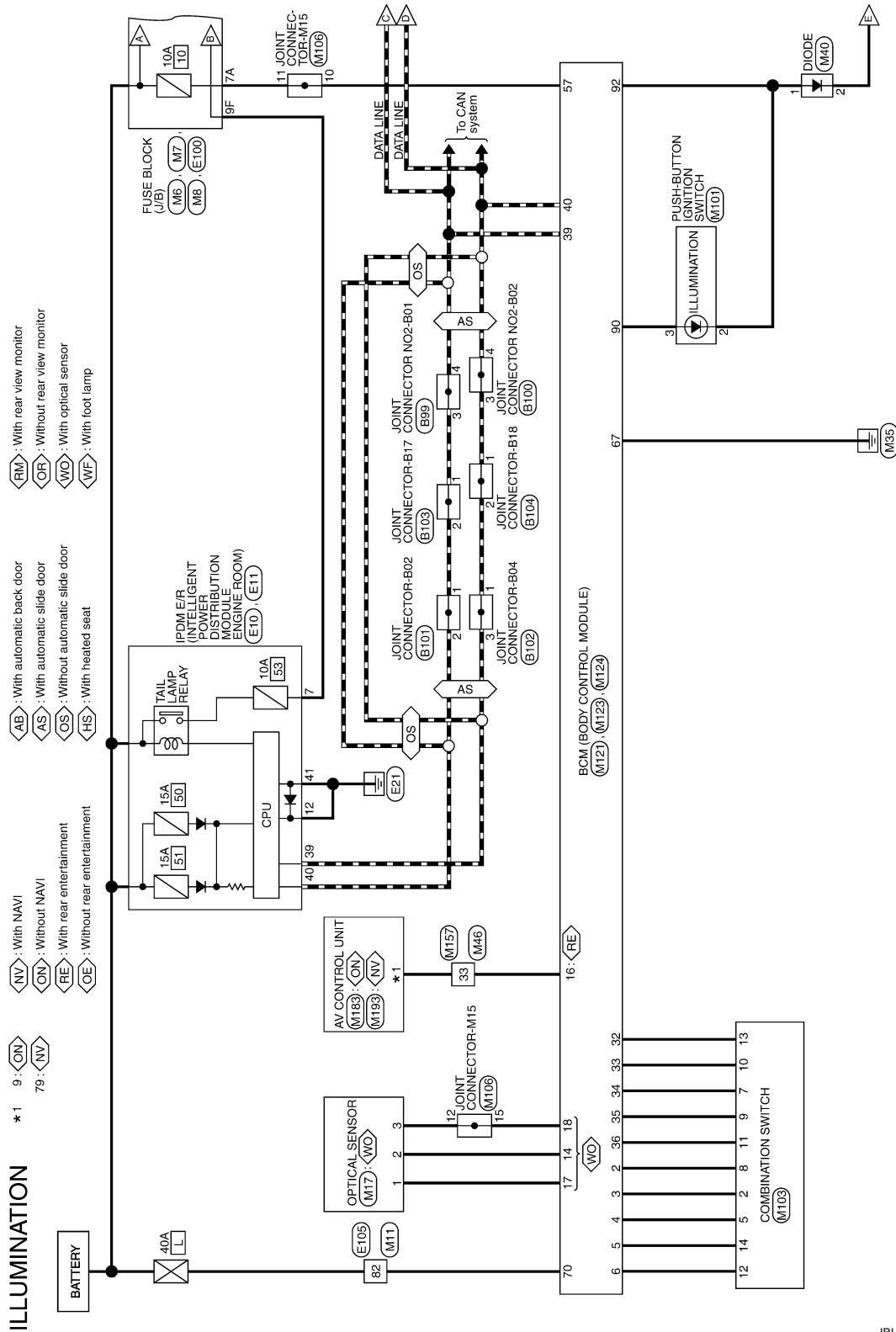
# ILLUMINATION

< WIRING DIAGRAM >

## ILLUMINATION

### Wiring Diagram

INFOID:000000012405235



\* : This connector is not shown in "Harness Layout".

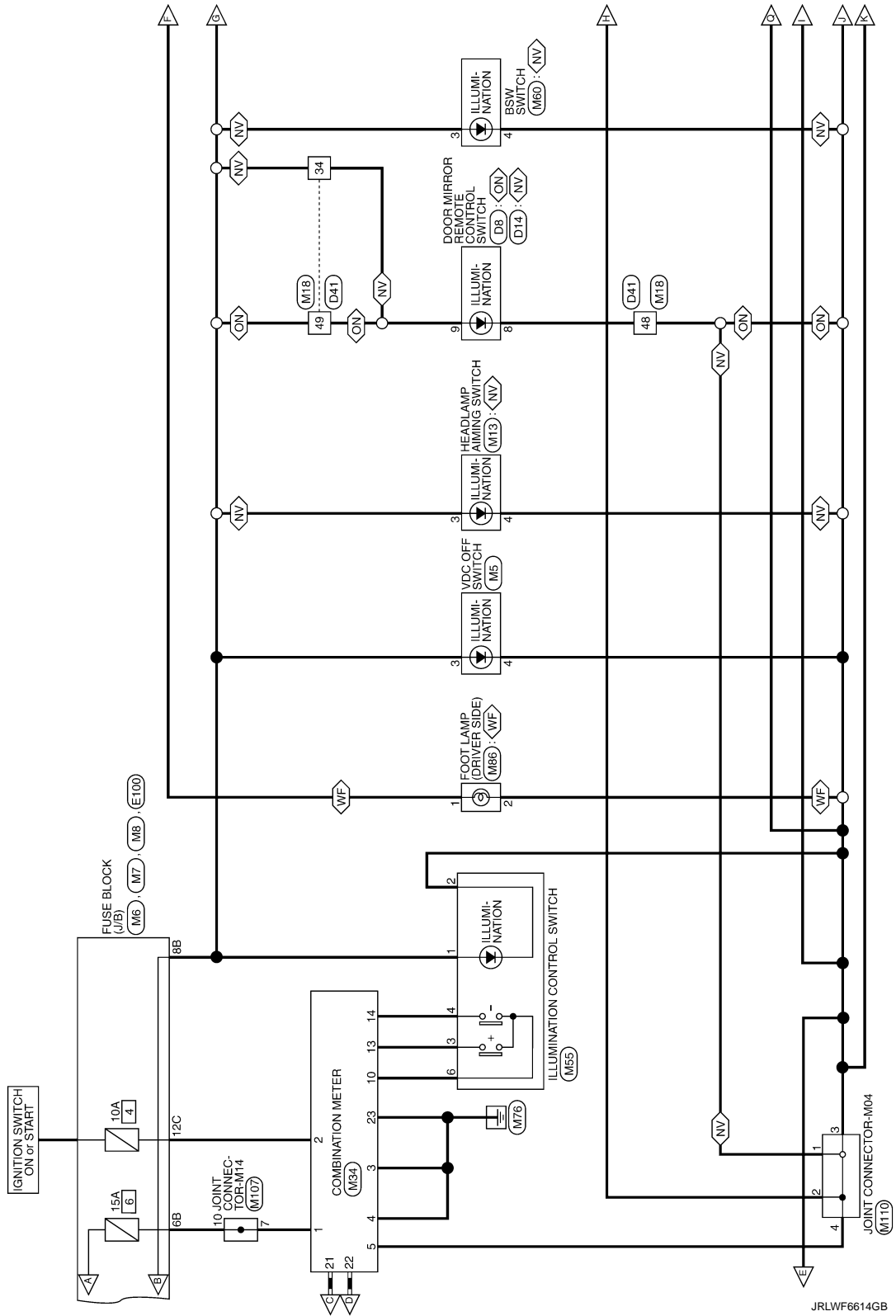
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# ILLUMINATION

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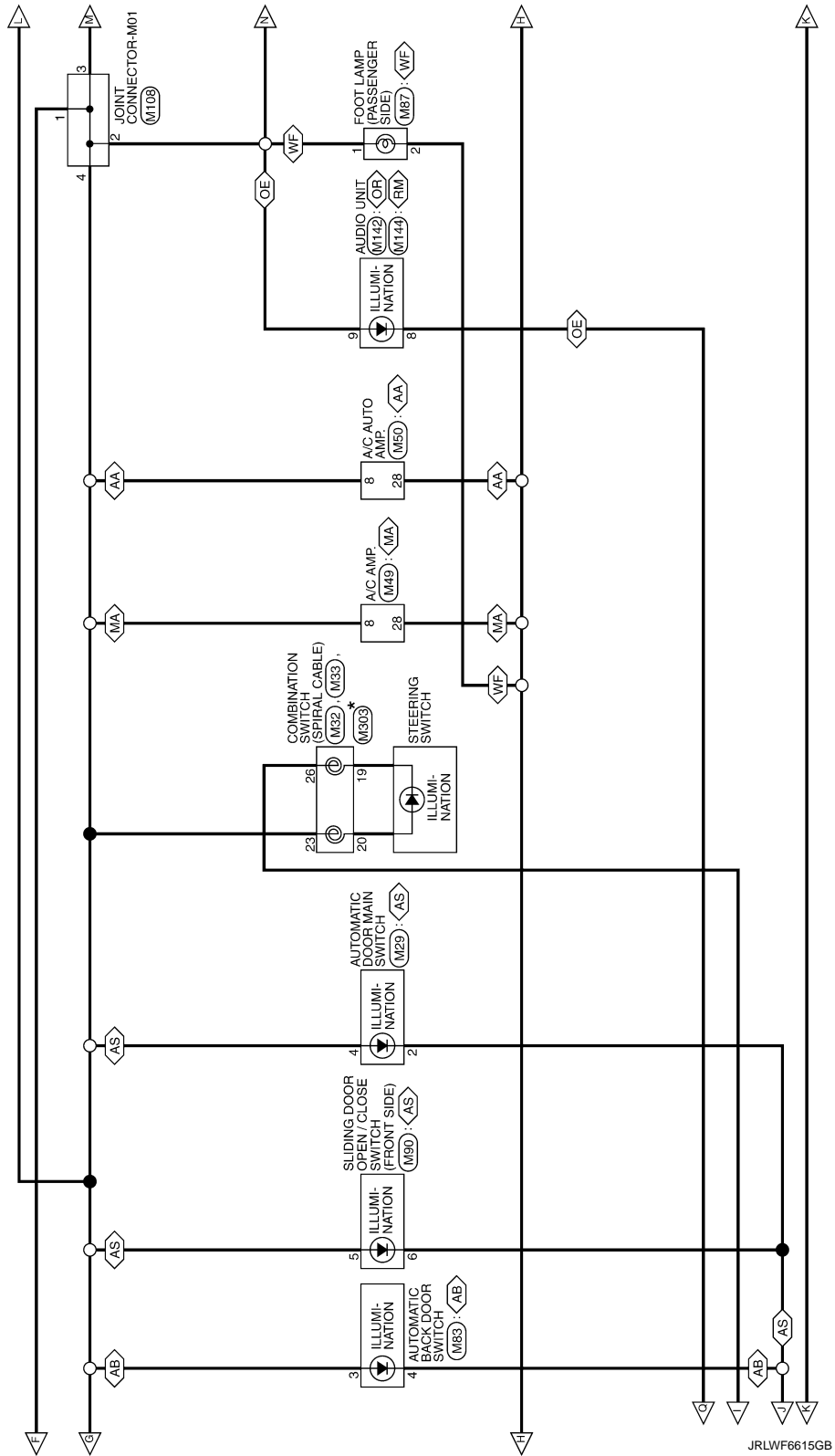
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# ILLUMINATION

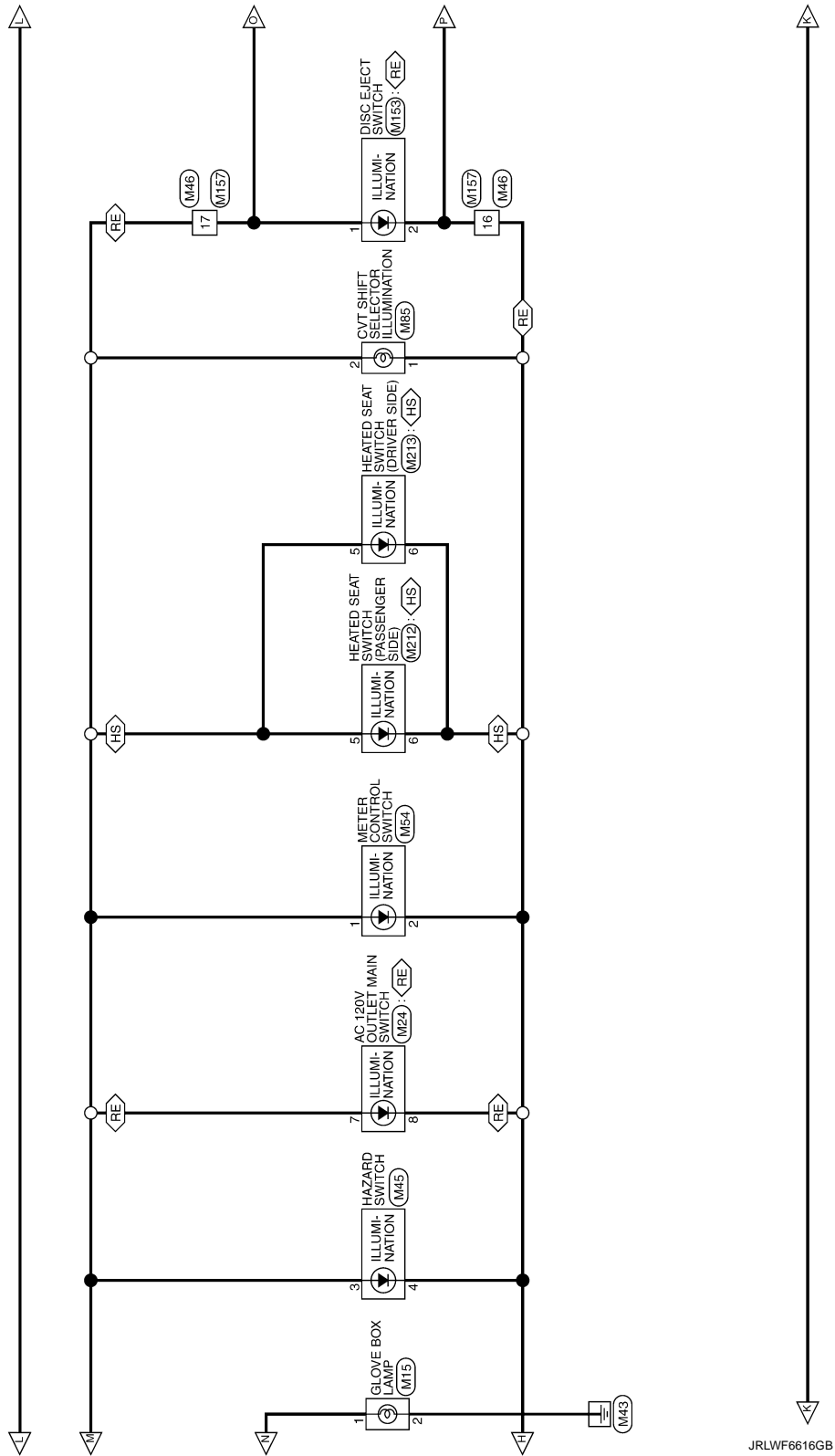
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◊MA◊ : With manual A/C  
 ◊AA◊ : With auto A/C



# ILLUMINATION

< WIRING DIAGRAM >

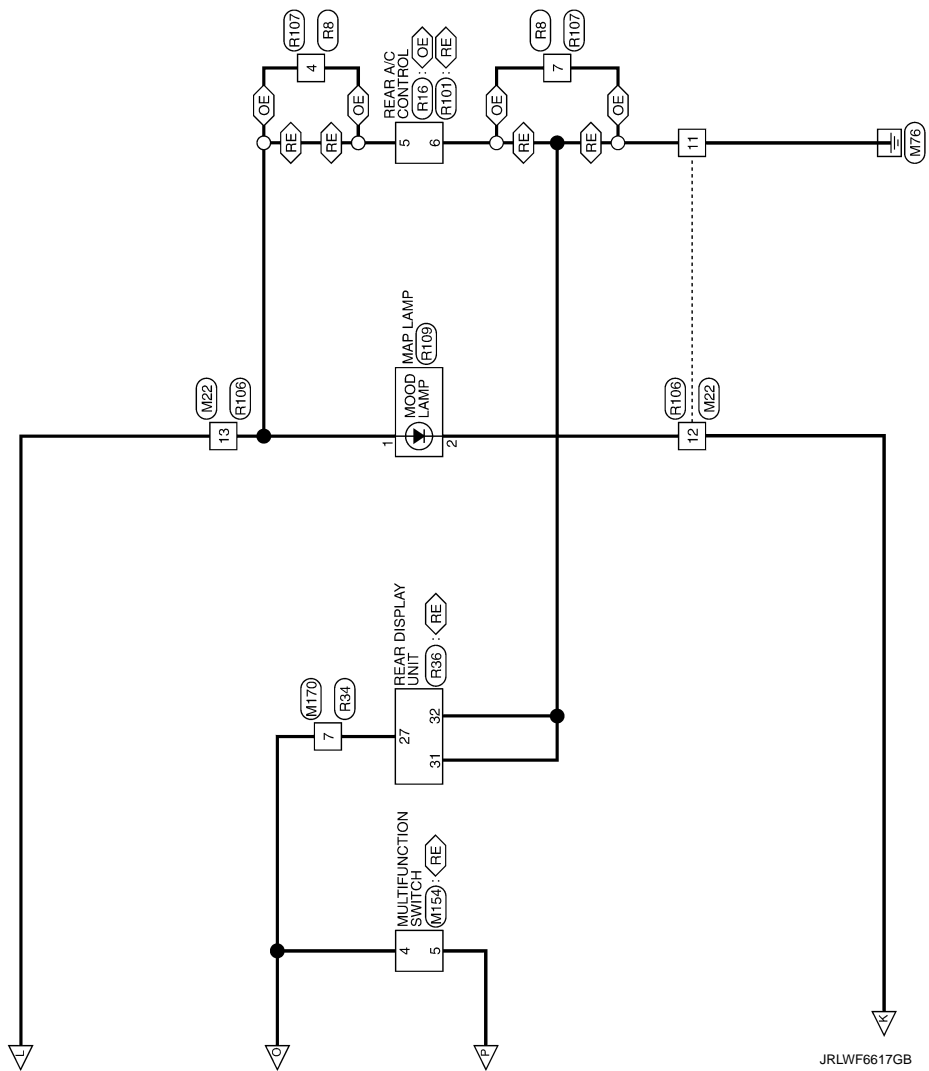


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# ILLUMINATION

< WIRING DIAGRAM >



# ILLUMINATION

< WIRING DIAGRAM >

## ILLUMINATION

Connector No.	B89
Connector Name	JOINT CONNECTOR NO2-B01
Connector Type	TK04FW-J



1	2	3	4
4	3	2	1

Terminal No.	Color Of Wire	Signal Name [Specification]
2	W	-
3	L	-
4	L	-

Connector No.	B100
Connector Name	JOINT CONNECTOR NO2-B02
Connector Type	TK04FW-J



1	2	3	4
4	3	2	1

Terminal No.	Color Of Wire	Signal Name [Specification]
2	B	-
3	P	-
4	P	-

Connector No.	B101
Connector Name	JOINT CONNECTOR-B02
Connector Type	TK04FW-J



1	2	3	4
4	3	2	1

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	L	-
3	L	-
4	L	-

Connector No.	B102
Connector Name	JOINT CONNECTOR-B04
Connector Type	TK04FW-J



1	2	3	4
4	3	2	1

Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	P	-
3	P	-
4	P	-

Connector No.	B103
Connector Name	JOINT CONNECTOR-B17
Connector Type	TK04FW-J



1	2	3	4
4	3	2	1

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

Connector No.	B104
Connector Name	JOINT CONNECTOR-B18
Connector Type	TK04FW-J



1	2	3	4
4	3	2	1

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

Connector No.	D8
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	TK36FW



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
7	GR	-
8	B	-
9	R	-
10	G	-
12	W	-
13	G	-
14	GR	-
15	R	-
16	P	-

Connector No.	D14
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	TK36FB



1	2	3	4
8	9	10	11
12	13	14	15
16			

Terminal No.	Color Of Wire	Signal Name [Specification]
4	W	-
7	GR	-
8	B	-
9	W	-
10	G	-
11	P	-
12	R	-
13	P	-
15	G	-

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# ILLUMINATION

< WIRING DIAGRAM >

## ILLUMINATION

Connector No.	541
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS35



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	V	-
3	SB	-
4	Y	-
5	BR	-
6	L	-
7	Y	-
8	GR	-
9	R	- [With manual A/C]
10	Y	- [With auto A/C]
11	BR	-
12	LG	-
13	W	-
14	B	-
15	W	- [Without BOSE system]
16	W	- [With BOSE system]
17	G	-
18	G	-
19	P	-
20	W	-
21	GR	-
22	P	-
23	R	-
24	B	-
25	W	-
26	SHIELD	-
27	R	-
28	P	-
29	GR	-
30	P	-
31	W	-
32	G	-
33	P	-
34	W	-

Terminal No.	Color Of Wire	Signal Name [Specification]
35	G	-
36	G	-
37	W	-
38	W	-
39	LG	-
40	GR	-
41	GR	-
42	G	-
43	R	-
44	B	-
45	Y	- [Without around view monitor]
46	GR	- [With around view monitor]
47	L	- [Without around view monitor]
48	B	- [With around view monitor]
49	R	-
50	G	- [With automatic drive positioner]
51	P	- [Without automatic drive positioner]
52	G	- [With automatic drive positioner]
53	SHIELD	- [Without automatic drive positioner]
54	B	-
55	W	-

Connector No.	E10
Connector Name	POWER FOR INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	TH20FW-CS12-AM4-1V



Terminal No.	Color Of Wire	Signal Name [Specification]
4	LG	-
5	Y	-
7	BR	-
10	P	-
12	B	-
13	G	-
15	L	-
16	R	-

Terminal No.	Color Of Wire	Signal Name [Specification]
18	P	-
19	V	-
20	W	-
21	O	-
22	SB	-
23	GR	-
24	G	-
25	GR	-
27	BR	-
28	G	-
30	LG	-
34	O	-
35	P	-
36	G	-
38	GR	-

Connector No.	E11
Connector Name	POWER FOR INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	TH30FW-NH



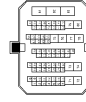
Terminal No.	Color Of Wire	Signal Name [Specification]
39	P	-
40	L	-
41	B	-
42	SB	-
43	LG	-
44	W	-
45	Y	-
46	O	-

Connector No.	E100
Connector Name	FUSE BLOCK (J/B)
Connector Type	HS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
11F	G	-
12F	V	-
1F	SB	-
2F	R	-
4F	L	-
6F	LG	-
8F	P	-
9F	BR	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH70DW-CS10-W3



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SHIELD	-
2	W	-
3	B	-
4	R	-
6	LG	-
7	R	-
8	GR	-
9	V	-
10	BR	-
11	Y	-
12	O	-
13	W	-

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

# ILLUMINATION

< WIRING DIAGRAM >

ILLUMINATION



14	L	-	-	-	-
15	R	-	-	-	-
16	GR	-	-	-	-
17	BR	-	-	-	-
18	GR	-	-	-	-
19	GR	-	-	-	-
20	GR	-	-	-	-
21	GR	-	-	-	-
22	GR	-	-	-	-
23	GR	-	-	-	-
24	GR	-	-	-	-
25	GR	-	-	-	-
26	GR	-	-	-	-
27	GR	-	-	-	-
28	GR	-	-	-	-
29	GR	-	-	-	-
30	GR	-	-	-	-
31	GR	-	-	-	-
32	GR	-	-	-	-
33	GR	-	-	-	-
34	GR	-	-	-	-
35	GR	-	-	-	-
36	GR	-	-	-	-
37	GR	-	-	-	-
38	GR	-	-	-	-
39	GR	-	-	-	-
40	GR	-	-	-	-
41	GR	-	-	-	-
42	GR	-	-	-	-
43	GR	-	-	-	-
44	GR	-	-	-	-
45	GR	-	-	-	-
46	GR	-	-	-	-
47	GR	-	-	-	-
48	GR	-	-	-	-
49	GR	-	-	-	-
50	GR	-	-	-	-
51	GR	-	-	-	-
52	GR	-	-	-	-
53	GR	-	-	-	-
54	GR	-	-	-	-
55	GR	-	-	-	-
56	SHIELD	-	-	-	-
57	GR	-	-	-	-
58	GR	-	-	-	-
59	GR	-	-	-	-
60	GR	-	-	-	-
61	GR	-	-	-	-
62	GR	-	-	-	-
63	W/L	-	-	-	-
64	W/R	-	-	-	-
65	W	-	-	-	-
66	W	-	-	-	-
67	Y	-	-	-	-
68	R	-	-	-	-
69	R	-	-	-	-
70	R	-	-	-	-
71	R	-	-	-	-
72	GR	-	-	-	-
73	GR	-	-	-	-
74	GR	-	-	-	-
75	GR	-	-	-	-
76	GR	-	-	-	-
77	GR	-	-	-	-
78	GR	-	-	-	-
79	GR	-	-	-	-
80	GR	-	-	-	-
81	GR	-	-	-	-
82	GR	-	-	-	-
83	GR	-	-	-	-

Connector No.	M5
Connector Name	VDC OFF SWITCH
Connector Type	TH08FP-NH

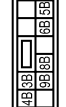

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	B	-
3	P	-
4	GR	-

Connector No.	M6
Connector Name	FUSE BLOCK (J/B)
Connector Type	CS06FW-M2

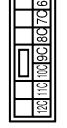

Terminal No.	Color of Wire	Signal Name [Specification]
1A	Y	-
2A	G	-
3A	L	-
4A	GR	-
5A	V	-
6A	R	-
7A	GR	-
8A	L	-

Connector No.	M7
Connector Name	FUSE BLOCK (J/B)
Connector Type	NSL0PW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
3B	V	-
4B	W	-
5B	BR	-
6B	O	-
8B	R/L	-
9B	GR	-

Connector No.	M8
Connector Name	FUSE BLOCK (J/B)
Connector Type	NSL2PW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
10C	LG	-
11C	V	-
12C	Y	-
6C	GR	-
7C	GR	-
8C	G	-
9C	Y	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH09PW-CS10-M3

Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	W	-
3	B	-
4	R	-
6	G	-
7	R	-
8	G	-
9	B	-
10	R	-
11	W	-
12	L	- [Without automatic drive positioner] - [With automatic drive positioner]
13	G	- [Without automatic drive positioner] - [With automatic drive positioner]
14	L	-
15	R	-
16	R	-
17	LG	-
18	BR	- [With automatic drive positioner] - [Without automatic drive positioner]
19	BE	- [Without automatic drive positioner] - [With automatic drive positioner]
40	P	-
41	L	-
42	G	-
43	W	-
45	P	-
46	V	-
47	R	-
49	G	-
51	G	-
52	W	-
53	B	-
54	LG	-
55	L	-

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# ILLUMINATION

< WIRING DIAGRAM >

## ILLUMINATION

Connector No.	Color Of Wire	Signal Name [Specification]
56	SHIELD	-
57	W	-
58	W	-
59	B	-
60	W	-
61	W	-
62	W	-
63	BR	-
64	BR	-
65	BR	-
66	P	-
67	L	-
68	LG	-
69	Y	-
70	Y	-
71	V	-
72	P	-
73	BR	-
74	Y	-
75	P	-
76	BR	-
77	Y	-
78	L	-
79	W	-
80	W	-
81	W	-
82	R	-
83	R	-

Connector No.	M13
Connector Name	HEADLAMP AIMING SWITCH
Connector Type	J404FW



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

Connector No.	M15
Connector Name	GLOVE BOX LAMP
Connector Type	J403FW



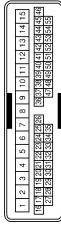
Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	B	-

Connector No.	M17
Connector Name	OPTICAL SENSOR
Connector Type	TR03FW



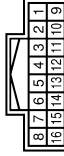
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	POWER
2	G	OUTPUT
3	R	GROUND

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TH1403WV-CS15



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

Connector No.	M22
Connector Name	WIRE TO WIRE
Connector Type	TH1165W-VNH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	W	-
3	G	-
4	P	-
6	R	-
7	BE	-
8	Y	-

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# ILLUMINATION

< WIRING DIAGRAM >

## ILLUMINATION

9	P	-	-
10	R	-	-
11	GR	-	-
12	GR	-	-
13	GR	-	-
14	B	-	-
15	SHIELD	-	-
16	W	-	-

Connector No.	M24
Connector Name	AC 120V OUTLET MAIN SWITCH
Connector Type	TK10FW



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

Connector No.	M29
Connector Name	AUTOMATIC DOOR MAIN SWITCH
Connector Type	TK08FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BE	-
2	GR	-
3	B	-
4	P	-

Connector No.	M32
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08F EX IV



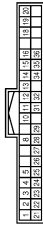
Terminal No.	Color Of Wire	Signal Name [Specification]
23	P	-
28	G	-
29	V	-
30	Y	-

Connector No.	M33
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FG1LV



Terminal No.	Color Of Wire	Signal Name [Specification]
24	G	-
25	W	-
26	B	-
31	V	-
32	R	-
33	GR	-
34	SB	-

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	TK04FW4M



Terminal No.	Color Of Wire	Signal Name [Specification]
1	O	BATTERY POWER SUPPLY (With automatic drive position)
2	P	BATTERY POWER SUPPLY (Without automatic drive position)
2	G	IGNITION SIGNAL (Without automatic drive position)
2	Y	IGNITION SIGNAL (With automatic drive position)
3	B	GROUND
4	B	GROUND
5	B	ILLUMINATION CONTROL SIGNAL (Without automatic drive position)
5	B/P	ILLUMINATION CONTROL SIGNAL (With automatic drive position)
8	G	TRIP RESET SWITCH SIGNAL (Without automatic drive position)
8	SB	METER CONTROL SWITCH GROUND
10	P	METER CONTROL SWITCH GROUND
11	G	ENTER SWITCH SIGNAL
12	BR	SELECT SWITCH SIGNAL (With automatic drive position)
12	R	SELECT SWITCH SIGNAL (Without automatic drive position)
13	W	ILLUMINATION CONTROL SIGNAL (Without automatic drive position)
13	G	ILLUMINATION CONTROL SIGNAL (With automatic drive position)
14	G	ILLUMINATION CONTROL SIGNAL (Without automatic drive position)
14	G	ILLUMINATION CONTROL SIGNAL (With automatic drive position)
15	BR	ENGINE COOLANT TEMPERATURE SIGNAL
16	L	AMBIENT SENSOR SIGNAL (Without automatic drive position)
18	L	AMBIENT SENSOR SIGNAL (With automatic drive position)
18	LG	AMBIENT SENSOR SIGNAL (Without automatic drive position)
19	R	A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL
20	G	AMBIENT SENSOR GROUND (Without automatic drive position)
20	Y	AMBIENT SENSOR GROUND (With automatic drive position)
21	L	CAN-H
22	P	CAN-L
23	B	GROUND
24	B	FUEL LEVEL SENSOR GROUND
24	B	ALTERNATOR SIGNAL (With automatic drive position)
25	BR	ALTERNATOR SIGNAL (Without automatic drive position)
25	W	ALTERNATOR SIGNAL (Without automatic drive position)
26	BR	PARKING BRAKE SWITCH SIGNAL
27	BE	BRAKE FUEL LEVEL SWITCH SIGNAL (Without automatic drive position)
27	Y	BRAKE FUEL LEVEL SWITCH SIGNAL (With automatic drive position)
28	V	SECURITY SIGNAL
29	G	WASHER LEVEL SWITCH SIGNAL

Connector No.	M40
Connector Name	DIODE
Connector Type	Z4335_C902



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

Connector No.	M45
Connector Name	HAZARD SWITCH
Connector Type	TK04FW



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

31	SB	VEHICLE SPEED SIGNAL (8-PULSE)
32	P	OVERDRIVE CONTROL SWITCH SIGNAL
34	GR	FUEL LEVEL SENSOR SIGNAL
34	GR	WASHER LEVEL SWITCH SIGNAL (Without automatic drive position)
34	GR	WASHER LEVEL SWITCH SIGNAL (With automatic drive position)
35	BR	PASSENGER SEAT BELT WARNING SIGNAL

A  
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# ILLUMINATION

< WIRING DIAGRAM >

## ILLUMINATION

Connector No.	M46
Connector Name	WIRE TO WIRE
Connector Type	TH408PW-NH



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

Connector No.	M49
Connector Name	A/C AMP.
Connector Type	TH408PW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	BATTERY POWER SUPPLY
2	G	IGNITION POWER SUPPLY
4	SB	DOOR MOTOR POWER SUPPLY
5	BR	LAN SIGNAL
7	R	REAR WINDOW DEFOGGER F/BS SIGNAL
8	P	ILLUMINATION POWER SUPPLY
9	GR	ACC POWER SUPPLY
10	W	FRONT BLOWER MOTOR CONTROL SIGNAL
12	BE	BLOWER FAN ON SIGNAL
13	G	A/C ON SIGNAL
17	G	ENGINE COOLANT TEMPERATURE SIGNAL
21	B	GROUND
23	B	REAR WINDOW DEFOGGER ON SIGNAL
27	BE	REAR BLOWER MOTOR GROUND SIGNAL
28	GR	REAR BLOWER MOTOR GROUND SIGNAL
32	G	COMM (R/A/C CONT ->R/A/C CONT)
33	W	COMM (R/A/C CONT ->A/C AUTO AMP)
37	BE	INTAKE SENSOR SIGNAL
40	G	SENSOR GROUND

Connector No.	M50
Connector Name	A/C AUTO AMP.
Connector Type	TH408PW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	BATTERY POWER SUPPLY
2	G	IGNITION POWER SUPPLY
4	SB	DOOR MOTOR POWER SUPPLY
5	BR	LAN SIGNAL
7	R	REAR WINDOW DEFOGGER F/BS SIGNAL
8	P	ILLUMINATION POWER SUPPLY
9	GR	ACC POWER SUPPLY
10	W	FRONT BLOWER MOTOR CONTROL SIGNAL
12	BE	BLOWER FAN ON SIGNAL
13	G	A/C ON SIGNAL
15	GR	IONIZER ON/OFF CONTROL SIGNAL
17	G	ENGINE COOLANT TEMPERATURE SIGNAL
18	W	SUNLOAD SENSOR SIGNAL
19	B	FRONT INVERTIBLE SENSOR SIGNAL
20	B	A/C AUTO AMP. CONTROL RECOGNITION SIGNAL
21	B	GROUND
22	B	VEHICLE SPEED SIGNAL
27	BE	REAR WINDOW DEFOGGER ON SIGNAL
28	GR	ILLUMINATION GROUND
30	R	REAR BLOWER MOTOR CONTROL SIGNAL
32	G	COMM (R/A/C AUTO AMP ->R/A/C CONT)
33	W	COMM (R/A/C CONT ->A/C AUTO AMP)
36	R	ENV GAS OUTSIDE DOOR DETECTING SENSOR SIGNAL
37	BE	INTAKE SENSOR SIGNAL
38	GR	REAR IN-VEHICLE SENSOR SIGNAL
39	L	AMBIENT SENSOR SIGNAL
40	G	SENSOR GROUND

Connector No.	M54
Connector Name	METER CONTROL SWITCH
Connector Type	TH082PW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	- [Without automatic drive positioner]
1	R/L	- [With automatic drive positioner]
2	B/R	- [Without automatic drive positioner]
2	GR	- [With automatic drive positioner]
3	G	-
4	BR	- [With automatic drive positioner]
4	R	- [Without automatic drive positioner]
5	G	-
5	SB	- [With automatic drive positioner]
6	P	-

Connector No.	M55
Connector Name	ILLUMINATION CONTROL SWITCH
Connector Type	TH082PW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	- [Without automatic drive positioner]
1	R/L	- [With automatic drive positioner]
2	B	- [Without automatic drive positioner]
2	B/R	- [With automatic drive positioner]
3	W	- [Without automatic drive positioner]
3	Y	- [With automatic drive positioner]
4	G	- [Without automatic drive positioner]
4	V	- [With automatic drive positioner]
6	P	-

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# ILLUMINATION

< WIRING DIAGRAM >

## ILLUMINATION

Connector No.	MU1
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TK08BR



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

Connector No.	MU3
Connector Name	COMBINATION SWITCH
Connector Type	TH16FW-NH



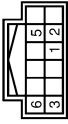
Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	RR
2	G	OUTPUT 4
3	P	FR
4	W	IGN
5	BE	OUTPUT 3
6	B/Y	GROUND
7	P	INPUT 3
8	R	OUTPUT 5
9	GR	INPUT 2
10	W	INPUT 4
11	R	INPUT 1
12	W	OUTPUT 1

Connector No.	M87
Connector Name	FOOT LAMP (PASSENGER SIDE)
Connector Type	A02FW



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

Connector No.	M90
Connector Name	SUSPENSION SWAY (COUZE SWAY) INHIBIT SWD
Connector Type	TH12FGY-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	W	-
3	B	-
5	P	-
6	GR	-

Connector No.	M85
Connector Name	CVT SHIFT SELECTOR ILLUMINATION
Connector Type	TK02BR



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

Connector No.	M86
Connector Name	FOOT LAMP (DRIVER SIDE)
Connector Type	A02FW



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

Connector No.	M80
Connector Name	BSW SWITCH
Connector Type	TH08FZ-NH



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

Connector No.	M83
Connector Name	AUTOMATIC BACK DOOR SWITCH
Connector Type	TH08FGY-NH



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

A  
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L  
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O  
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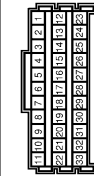
# ILLUMINATION

< WIRING DIAGRAM >

## ILLUMINATION

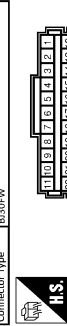
13	R	INPUT 5
14	G	OUTPUT 2

Connector No.	M106
Connector Name	JOINT CONNECTOR-M15
Connector Type	BJ30FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	B	-
3	B	-
4	L	-
5	L	-
6	L	-
8	GR	-
9	Y	-
10	Y	-
11	Y	-
12	R	-
13	R	-
14	R	-
15	R	-
17	Y	-
18	Y	-
19	Y	-
20	Y	-
21	G	- [Without automatic drive positioner] - [With automatic drive positioner]
22	G	- [Without automatic drive positioner] - [With automatic drive positioner]
23	GR	- [Without automatic drive positioner] - [With automatic drive positioner]
25	GR	-
26	V	-
27	V	-
28	V	-
29	SB	-
30	BE	-
31	SB	-
32	SB	-
33	BE	-

Connector No.	M107
Connector Name	JOINT CONNECTOR-M14
Connector Type	BJ30FW



Terminal No.	Color Of Wire	Signal Name [Specification]
2	R	-
3	R	-
4	R	-
6	O	-
7	O	-
8	O	-
9	P	-
10	P	-
11	O	-
12	Y	-
13	Y	-
14	Y	-
15	B	-
16	B	-
17	B	-
18	B	-
19	B	-
20	G	- [Without automatic drive positioner] - [With automatic drive positioner]
21	G	- [Without automatic drive positioner] - [With automatic drive positioner]
22	G	- [Without automatic drive positioner] - [With automatic drive positioner]
23	V	-
25	LG	-
26	LG	-
27	V	-
29	P	-
30	P	-
31	P	-
32	P	-
33	P	-

Connector No.	M108
Connector Name	JOINT CONNECTOR-M01
Connector Type	TJ04FW-J



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R/G	-
2	P	-
3	P	-
4	P	-

Connector No.	M110
Connector Name	JOINT CONNECTOR-M04
Connector Type	TJ04FW-J



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B/P	-
2	B	- [Without automatic drive positioner] - [With automatic drive positioner]
3	B	- [Without automatic drive positioner] - [With automatic drive positioner]
4	B	- [Without automatic drive positioner] - [With automatic drive positioner]
4	B/P	-

Connector No.	M121
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TJ04FB-WH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	REAR WINDOW DEF RELAY CONT
2	R	COMBI SW INPUT 5
3	G	COMBI SW INPUT 4
4	BE	COMBI SW INPUT 3
5	G	COMBI SW INPUT 2
6	W	COMBI SW INPUT 1
7	W	KEY CTL UNLOCK SW
8	GR	PIV SW COMM [With automatic slide door] KEY CTL LOCK SW [Without automatic slide door]
9	GR	STOP JUMP SW 1
12	GR	DOOR LK & UNLK SW LOCK
13	BR	DOOR LK & UNLK SW UNLOCK
14	L	OPTICAL SENS
15	W	REAR WINDOW DEF SW
19	O	48V DRIVER SV
19	O	48V DRIVER SV
19	O	48V DRIVER SV
21	GR	RECV/SSIG-GND
21	GR	RECV/SSIG-GND
21	GR	RECV/SSIG-GND
23	W	SECURITY IND COM1
25	P	WATS ANT AMP
27	O	A/C ON
28	BR	BLOWER FAN ON
29	P	HAZARD SW
30	L	BL DOOR OPNR SW
31	G	DR DOOR UNLK SENS
32	R	COMBI SW OUTPUT 5
33	W	COMBI SW OUTPUT 4
34	P	COMBI SW OUTPUT 3
35	GR	COMBI SW OUTPUT 2
36	R	DETECT SW
37	G	RECEIVER COMM
38	BE	CAN-H
39	L	CAN-H
40	P	CAN-L

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# ILLUMINATION

< WIRING DIAGRAM >

## ILLUMINATION

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEARSW-FH46-5A



56	57	58	59	60	61	62	63	64
65	66	67	68	69	70			

Terminal No.	Color Of Wire	Signal Name [Specification]
56	P	INT ROOM LAMP PWR SPV
57	Y	BAT
58	O	AIR BAG
59	SB	PASS DOOR LINK OUTPUT
60	V	TURN SIG LH OUTPUT
61	G	TURN SIG RH OUTPUT
62	W	STEP LAMP CONT
63	R	INT ROOM LAMP CONT
64	W	CRANK REQ
65	V	ALL DOOR LOCK OUTPUT
66	G	DR DOOR LINK OUTPUT
67	B	GROUND
68	L	PW PWR SPV (IGN)
69	P	PW PWR SPV (BAT)
70	L	BAT

Connector No.	M124
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW-NH



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
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Terminal No.	Color Of Wire	Signal Name [Specification]
73	G	ON IND
75	G	DR DOOR REQ SW
76	V	PUSH SW
78	B	DR DOOR ANT+
79	W	DR DOOR ANT-

80	GR	PASS DOOR ANT-
81	BE	PASS DOOR ANT+
82	G	ROOM ANT+
83	GR	ROOM ANT-
84	W	ROOM ANT1+
85	B	ROOM ANT1-
86	W	ROOM ANT2+
87	BE	ROOM ANT2-
88	GR	Luggage ROOM ANT+
89	B	Luggage ROOM ANT-
90	P	PUSH-BTN IGN SW ILL PWR SPV
91	W	LOCK IND
92	B	PUSH-BTN IGN SW ILL GND
93	R	I-KEY WARN BUZZER
96	BE	ACC RELAY CONT OUTPUT
97	W	STARTER RELAY CONT
98	P	IGN RELAY (IPDM/ER) CONT
99	G	IGN RELAY (F/B) CONT OUTPUT
100	R	PASS DOOR REQ SW
101	R	IGN PWR SPV 2
102	P	P/W POSITION
104	L	CVT SHIFT SELECT PWR SPV
105	R	STOP LAMP SW 2
106	O	BLUFR RELAY CONT OUTPUT
109	R	ACC IND

Connector No.	M142
Connector Name	AUDIO UNIT
Connector Type	NH18PW-CS2



19	20	21	22	23	24	25	26	27	28	29
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Terminal No.	Color Of Wire	Signal Name [Specification]
2	Y	SOUND SIGNAL FRONT SPEAKER LH (+)
3	B	SOUND SIGNAL FRONT SPEAKER LH (-)
4	SB	SOUND SIGNAL SLIDE DOOR SPEAKER LH (+)
5	LG	SOUND SIGNAL SLIDE DOOR SPEAKER LH (-)
7	GR	ACC
8	B	ILLUMINATION CONTROL SIGNAL (+)
9	P	ILLUMINATION CONTROL SIGNAL (-)
11	B	SOUND SIGNAL FRONT SPEAKER RH (+)
12	L	SOUND SIGNAL FRONT SPEAKER RH (-)
13	L	SOUND SIGNAL SLIDE DOOR SPEAKER RH (+)
14	P	SOUND SIGNAL SLIDE DOOR SPEAKER RH (-)
15	GR	STEERING SWITCH SIGNAL A
16	P	STEERING SWITCH SIGNAL B
18	BE	VEHICLE SPEED SIGNAL (8-PULSES)
19	Y	BATTERY POWER SUPPLY
20	B	GROUND

13	P	SOUND SIGNAL SLIDE DOOR SPEAKER RH (+)
14	L	SOUND SIGNAL SLIDE DOOR SPEAKER RH (-)
19	Y	BATTERY

Connector No.	M144
Connector Name	AUDIO UNIT
Connector Type	NH18PW-CS2



19	20	21	22	23	24	25	26	27	28	29	30
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Terminal No.	Color Of Wire	Signal Name [Specification]
2	Y	SOUND SIGNAL FRONT SPEAKER LH (+)
3	B	SOUND SIGNAL FRONT SPEAKER LH (-)
4	SB	SOUND SIGNAL SLIDE DOOR SPEAKER LH (+)
5	LG	SOUND SIGNAL SLIDE DOOR SPEAKER LH (-)
6	G	STEERING SWITCH SIGNAL A
7	GR	ACC POWER SUPPLY
8	B	ILLUMINATION CONTROL SIGNAL (+)
9	P	ILLUMINATION CONTROL SIGNAL (-)
11	B	SOUND SIGNAL FRONT SPEAKER RH (+)
12	L	SOUND SIGNAL FRONT SPEAKER RH (-)
13	L	SOUND SIGNAL SLIDE DOOR SPEAKER RH (+)
14	P	SOUND SIGNAL SLIDE DOOR SPEAKER RH (-)
15	GR	STEERING SWITCH SIGNAL A
16	P	STEERING SWITCH SIGNAL B
18	BE	VEHICLE SPEED SIGNAL (8-PULSES)
19	Y	BATTERY POWER SUPPLY
20	B	GROUND

Connector No.	M153
Connector Name	DISC SELECT SWITCH
Connector Type	JAB04FS



1	2	3	4
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Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	
2	GR	
3	R	
4	W	

Connector No.	M154
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH16FW-NH



1	2	3	4	5	6	7	8
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Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
3	O	ACC
4	V	ILL
5	GR	ILL CONT
6	SB	AV COMM (H)
8	LG	AV COMM (L)

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# ILLUMINATION

< WIRING DIAGRAM >

## ILLUMINATION

Connector No.	M157
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-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	W	-
3	B	-
4	SHIELD	-
5	SB	-
6	BR	-
7	Y	-
8	LG	-
9	B	-
10	L	-
11	W	-
12	P	-
13	BE	-
14	LG	-
15	SB	-
16	GR	-
17	O	-
18	G	-
19	G	-
20	SB	-
21	B	-
22	B	-
23	B	-
24	B	-
25	SHIELD	-
26	B	-
27	R	-
28	W	-
30	LG	-
31	SB	-
33	BE	-
34	W	-
35	R	-
36	P	-
37	L	-
38	P	-
39	L	-
40	V	-

Connector No.	M170
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-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]
4	SB	-
5	G	-
6	O	-
7	V	-
8	W	-
9	B	-
10	SHIELD	-
11	SB	-
12	LG	-
13	SHIELD	-
14	W	-
15	B	-
16	W	-
17	B	-
18	SHIELD	-
19	W	-
20	B	-
21	SHIELD	-

Connector No.	M183
Connector Name	AV CONTROL UNIT
Connector Type	NH48FW-CS2



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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Terminal No.	Color Of Wire	Signal Name [Specification]
2	Y	SOUND SIGNAL FRONT SPEAKER LH (+)
3	Y	SOUND SIGNAL FRONT SPEAKER RH (-)
4	V	SOUND SIGNAL SLIDE DOOR SPEAKER LH (+)
5	L	SOUND SIGNAL SLIDE DOOR SPEAKER RH (-)
6	BE	STEERING SWITCH SIGNAL A
7	O	ACC POWER SUPPLY
9	BE	DIMMER SIGNAL
11	L	SOUND SIGNAL FRONT SPEAKER RH (+)
12	B	SOUND SIGNAL FRONT SPEAKER LH (-)
13	BR	SOUND SIGNAL SLIDE DOOR SPEAKER RH (+)
14	SB	SOUND SIGNAL SLIDE DOOR SPEAKER LH (-)
15	W	STEERING SWITCH GROUND
16	P	STEERING SWITCH SIGNAL B
19	SR	BATTERY POWER SUPPLY
20	B	GROUND

Connector No.	M193
Connector Name	AV CONTROL UNIT
Connector Type	TH32FW-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
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Terminal No.	Color Of Wire	Signal Name [Specification]
65	R	PARKING BRAKE SIGNAL
67	W	COMPOSITE IMAGE SIGNAL (GROUND FOR FRONT DISPLAY UNIT)
68	R	COMPOSITE IMAGE SIGNAL (FOR FRONT DISPLAY UNIT)
71	SHIELD	SHIELD
72	W	MICROPHONE VCC
73	B	COMMUNICATION SIGNAL (CONT→D15P)
74	P	CAN-L
75	LG	AV COMMUNICATION SIGNAL (L)
76	LG	AV COMMUNICATION SIGNAL (R)
79	BE	DIMMER SIGNAL
80	G	IGNITION SIGNAL
81	W	REVERSE SIGNAL
82	P	VEHICLE SPEED SIGNAL (S-PULSE)
83	SHIELD	SHIELD
84	B	COMPOSITE IMAGE SYNCHRONIZING SIGNAL
87	B	MICROPHONE SIGNAL
88	SHIELD	SHIELD

89	W	COMMUNICATION SIGNAL (DISP→CONT)
91	SB	AV COMMUNICATION SIGNAL (RH)
92	Y	AV COMMUNICATION SIGNAL (LH)

Connector No.	M212
Connector Name	HEATED SEAT SWITCH (PASSENGER SIDE)
Connector Type	NS06FRK-CS



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

Connector No.	M213
Connector Name	HEATED SEAT SWITCH (DRIVER SIDE)
Connector Type	NS06FRK-CS



1	2	3	4	5	6
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Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	BR	-
3	LG	-
4	B	-
5	P	-
6	GR	-

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# ILLUMINATION

< WIRING DIAGRAM >

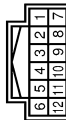
## ILLUMINATION

Connector No.	RM303
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TH08FGT



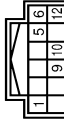
Terminal No.	Color Of Wire	Signal Name [Specification]
13	-	-
14	-	-
15	R/L	ILL+ [With manual A/C]
16	B	ILL-
17	BR/R	RX [With manual A/C]
18	-	-
19	-	-
20	-	-

Connector No.	RB
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	BR/R	- [With manual A/C]
3	V	- [With auto A/C]
4	R/L	- [With manual A/C]
7	B	-
8	O	-
9	P	-
10	V	-
11	BR	-

Connector No.	RE6
Connector Name	REAR A/C CONTROL
Connector Type	TH12FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
5	R	ILL+ [With auto A/C]
5	R/L	ILL+ [With manual A/C]
6	B	ILL-
9	BR/R	RX [With manual A/C]
9	V	RX [With auto A/C]
10	BR	TX
12	G	IGN

Connector No.	RE4
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
4	GR	-
5	LG	-
6	V	-
7	SB	-
8	B	-
9	W	-
10	SHIELD	-
11	B	-
12	W	-
13	SHIELD	-
14	B	-
15	W	-

15	L/O	-
17	W/L	-
18	SHIELD	-
19	BR	-
20	SHIELD	-
21	SHIELD	-

Connector No.	RS6
Connector Name	REAR DISPLAY UNIT
Connector Type	TH12FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W/L	HEADPHONE SOUND SIGNAL RH (-)
2	L/O	HEADPHONE SOUND SIGNAL LH (-)
3	W	HEADPHONE SOUND SIGNAL RH (+)
4	B	HEADPHONE SOUND SIGNAL LH (+)
5	SHIELD	SHIELD
6	SHIELD	SHIELD
7	B	COMPOSITE IMAGE SIGNAL
8	W	COMPOSITE IMAGE SIGNAL GROUND
10	SHIELD	SHIELD
12	W	AV COMMUNICATION SIGNAL (L)
13	Y	AV COMMUNICATION SIGNAL (L)
21	B	AV COMMUNICATION SIGNAL (H)
22	BR	AV COMMUNICATION SIGNAL (H)
26	LG	IGNITION SIGNAL
27	SB	ILLUMINATION SIGNAL
28	V	ACC POWER SUPPLY
29	GR	BATTERY POWER SUPPLY
30	GR	BATTERY POWER SUPPLY
31	B	GROUND
32	B	GROUND

Connector No.	RI01
Connector Name	REAR A/C CONTROL
Connector Type	TH12FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
5	Y	ILL+
6	B	ILL-
9	LG	RX
10	SB	TX
12	P	IGN [Without automatic drive positioner]
12	V	IGN [With automatic drive positioner]

Connector No.	RI06
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	SB	-
3	P	- [For Rear Display Unit, without auto recirculation]
3	V	- [For Rear Display Unit, without auto recirculation]
4	LG	-
6	LG	-
7	L	-
8	BR	-
9	SB	-
10	BR	-
11	B	-
12	V	-
13	Y	-

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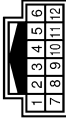
# ILLUMINATION

< WIRING DIAGRAM >

## ILLUMINATION

1-2	B	-
1-3	SHIELD	-
1-6	W	-

Connector No.	R3107
Connector Name	WIRE TO WIRE
Connector Type	TH12MM-NH



Terminal No.	Color	Wire	Signal Name [Specification]
1	V	-	-
2	SB	-	-
3	LG	-	-
4	Y	-	-
7	B	-	-
8	L	-	-
9	SB	-	-
10	P	-	-
11	LG	-	-

Connector No.	R3109
Connector Name	MAP LAMP
Connector Type	TM06GY



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

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# DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

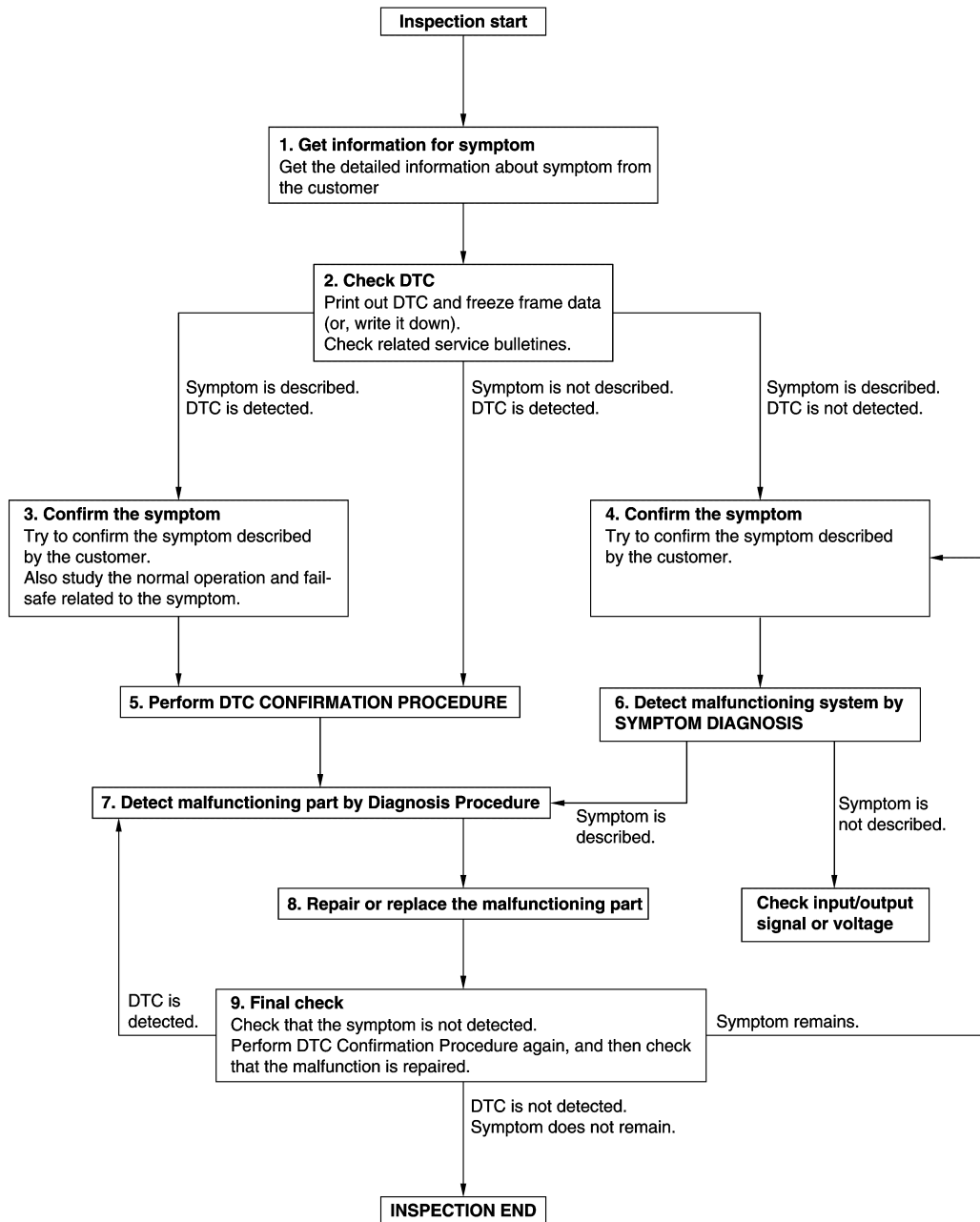
## BASIC INSPECTION

### DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000012405236

OVERALL SEQUENCE



DETAILED FLOW

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# DIAGNOSIS AND REPAIR WORK FLOW

## < BASIC INSPECTION >

---

### 1. GET INFORMATION FOR SYMPTOM

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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-41. "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-41. "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.

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# INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## DTC/CIRCUIT DIAGNOSIS

### INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

#### Component Function Check

INFOID:000000012405237

#### 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
  - Luggage room lamp
  - Automatic back door close switch illumination
  - Step 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-60, "Diagnosis Procedure"](#).

#### Diagnosis Procedure

INFOID:000000012405238

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

##### ⓅCONSULT ACTIVE TEST

1. Turn ignition switch OFF.
2. Disconnect the following connectors.
  - Personal lamp(ALL)
  - Map lamp
  - Luggage room lamp
  - Automatic back door close switch
  - Step 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					
Connector	Terminal				
M123	56	Ground	BATTERY SAVER	Off	0 V
				On	12 V

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 3.

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

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

# INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

## < DTC/CIRCUIT DIAGNOSIS >

BCM		Each interior room lamp			Continuity
Connector	Terminal	Connector	Terminal	Terminal	
M123	56	Map lamp	R109	6	Existed
		Second personal lamp LH	R18	1	
		Second personal lamp RH	R17	1	
		Third personal lamp LH	R28	1	
		Third personal lamp RH	R27	1	
		Luggage room lamp	B51	1	
		Automatic back door close switch	D169	3	
		Step lamp (driver side)	D51	1	
		Step lamp (passenger side)	D17	1	
		Vanity mirror lamp LH	R24	1	
		Vanity mirror lamp RH	R10	1	

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		
M123	56		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-99. "Removal and Installation"](#).
- NO >> Repair or replace harnesses.

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# INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## INTERIOR ROOM LAMP CONTROL CIRCUIT

### Component Function Check

INFOID:000000012405239

#### CAUTION:

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

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

### 1. CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

#### CONSULT ACTIVE TEST

1. Switch the map lamp switch and personal 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-62, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000012405240

### 1. CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

#### CONSULT ACTIVE TEST

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

BCM		Ground	Test item		Continuity
Connector	Terminal		INT LAMP	On	Existed
M123	63			Off	Not existed

Is the inspection result normal?

YES >> GO TO 2.

Fixed ON>>GO TO 3.

Fixed OFF>>Replace BCM. Refer to [BCS-99, "Removal and Installation"](#).

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

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

BCM		Map lamp		Continuity
Connector	Terminal	Connector	Terminal	
M123	63	R109	5	Existed

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

# INTERIOR ROOM LAMP CONTROL CIRCUIT

## < DTC/CIRCUIT DIAGNOSIS >

Map lamp		Personal lamp		Continuity
Connector	Terminal	Connector	Terminal	
R109	3	Second LH	R18	2  Existed
		Second RH	R17	
		Third LH	R28	
		Third RH	R27	

Is the inspection result normal?

YES >> Replace map lamp or personal lamp.

NO >> Repair or replace harnesses.

### 3. CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

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

BCM		Ground	Continuity
Connector	Terminal		
M123	63		Not existed

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

Map lamp		Ground	Continuity
Connector	Terminal		
R109	3		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-99, "Removal and Installation"](#).

NO >> Repair or replace harnesses.

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# LUGGAGE ROOM LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## LUGGAGE ROOM LAMP CIRCUIT

### Description

INFOID:000000012405241

Controls the luggage room lamp and automatic back door close switch illumination (ground side) to turn the luggage room lamp and automatic back door close switch illumination ON and OFF.

### Diagnosis Procedure

INFOID:000000012405242

#### CAUTION:

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

- Interior room lamp power supply
- Luggage room lamp bulb

#### 1. CHECK LUGGAGE ROOM LAMP OUTPUT

1. Turn ignition switch OFF.
2. Remove the luggage room bulb.
3. Disconnect automatic back door close switch connector.
4. Check continuity between BCM harness connector and ground.

BCM		Ground	Condition		Continuity
Connector	Terminal		Back door	Open	Existed
M122	49			Closed	Not existed
			Open	Existed	

Is the inspection result normal?

YES >> GO TO 2.

Fixed ON>>GO TO 3.

Fixed OFF>>Replace BCM. Refer to [BCS-99, "Removal and Installation"](#).

#### 2. CHECK LUGGAGE ROOM LAMP OPEN CIRCUIT

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

BCM		Luggage room lamp		Continuity
Connector	Terminal	Connector	Terminal	
M122	49	B51	2	Existed

3. Check continuity between BCM harness connector and automatic back door close switch harness connector.

BCM		Automatic back door close switch		Continuity
Connector	Terminal	Connector	Terminal	
M122	49	D169	4	Existed

Is the inspection result normal?

YES >> Replace luggage room lamp or automatic back door close switch.

NO >> Repair or replace harnesses.

#### 3. CHECK LUGGAGE ROOM LAMP SHORT CIRCUIT

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

BCM		Ground	Continuity
Connector	Terminal		Not existed
M122	49		

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-99, "Removal and Installation"](#).



# LUGGAGE ROOM LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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NO >> Repair or replace harnesses.

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# STEP LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## STEP LAMP CIRCUIT

### Component Function Check

INFOID:000000012405243

#### CAUTION:

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-66, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000012405244

### 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		STEP LAMP TEST	On	Existed
M123	62			On	Existed
			Off	Not existed	

#### Is the inspection result normal?

YES >> GO TO 2.

Fixed ON>>GO TO 3.

Fixed OFF>>Replace BCM. Refer to [BCS-99, "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	
M123	62	Driver side	D51	2	Existed
		Passenger side	D17		

#### 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.

## STEP LAMP CIRCUIT

### < DTC/CIRCUIT DIAGNOSIS >

2. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M123	62		Not existed

Is the inspection result normal?

YES >> Repair or replace harnesses.

NO >> Replace BCM. Refer to [BCS-99, "Removal and Installation"](#).

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# PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

### Component Function Check

INFOID:000000012405245

#### 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-68, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000012405246

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

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

(+)		(-)	Condition	Voltage (Approx.)	
Connector	Terminal				
M101	3	Ground	Push-button ignition switch	ON	12 V
			OFF	0 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.
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	
M124	90	M101	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.

BCM		Ground	Continuity
Connector	Terminal		
M124	90		Not existed

##### Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-99, "Removal and Installation"](#).

NO >> Repair or replace harnesses.

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

# PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

## < DTC/CIRCUIT DIAGNOSIS >

1. Turn light switch OFF.
2. Check voltage between BCM harness connector and ground.

(+)		(-)	Condition		Voltage (Approx.)
BCM					
Connector	Terminal				
M124	92	Ground	Push-button ignition switch	ON	0 V

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace BCM. Refer to [BCS-99. "Removal and Installation"](#).

## 5. CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION GROUND CIRCUIT-2

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

Push-button ignition switch		BCM		Continuity
Connector	Terminal	Connector	Terminal	
M101	2	M124	92	Existed

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

Push-button ignition switch		Ground	Continuity
Connector	Terminal		
M101	2		Not existed

Is the inspection result normal?

YES >> Replace push-button ignition switch.

NO >> Repair or replace harnesses.

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# INTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

## SYMPTOM DIAGNOSIS

### INTERIOR LIGHTING SYSTEM SYMPTOMS

#### Symptom Table

INFOID:000000012405247

**CAUTION:**

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

Symptom	Possible cause	Inspection item
All the following lamps do not turn ON. <ul style="list-style-type: none"> <li>• Map lamp</li> <li>• Personal lamp</li> <li>• Vanity mirror lamp</li> <li>• Step lamp</li> <li>• Luggage room lamp</li> <li>• Automatic back door close switch illumination</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-60</a> , "Component Function Check".
<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-247</a> , "Component Function Check". Interior room lamp control circuit Refer to <a href="#">INL-62</a> , "Component Function Check".
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-22</a> .
Luggage room lamp or automatic back door close switch illumination does not turn ON even though the back door is open.	<ul style="list-style-type: none"> <li>• Harness between BCM and back door switch</li> <li>• Harness between BCM and luggage room lamp</li> <li>• Harness between BCM and automatic back door close switch</li> <li>• BCM</li> </ul>	Back door switch circuit Refer to <a href="#">DLK-249</a> , "Component Function Check". Luggage room lamp circuit Refer to <a href="#">INL-64</a> , "Diagnosis Procedure".
Step lamps (ALL) do not turn ON.	<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-247</a> , "Component Function Check". Step lamp circuit Refer to <a href="#">INL-66</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-68</a> , "Component Function Check".
Interior room lamp battery saver does not activate.	BCM	Replace BCM. Refer to <a href="#">BCS-99</a> , "Removal and Installation".

# MAP LAMP

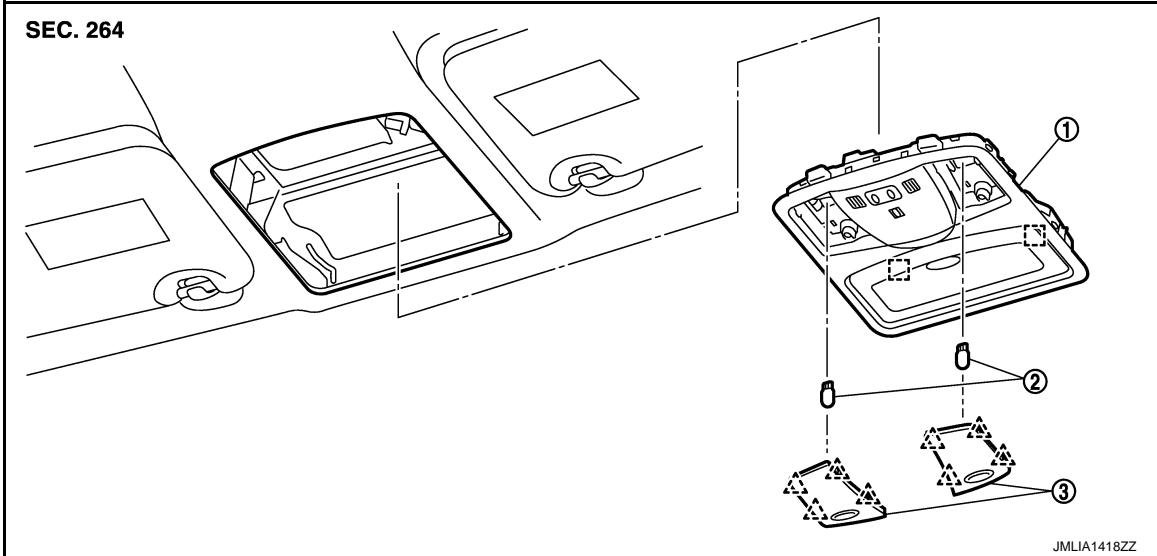
< REMOVAL AND INSTALLATION >

## REMOVAL AND INSTALLATION

### MAP LAMP

#### Exploded View

INFOID:000000012405248



1. Map lamp assembly

2. Bulb

3. Lens

△ : Pawl

□ : Metal clip

### Removal and Installation

INFOID:000000012405249

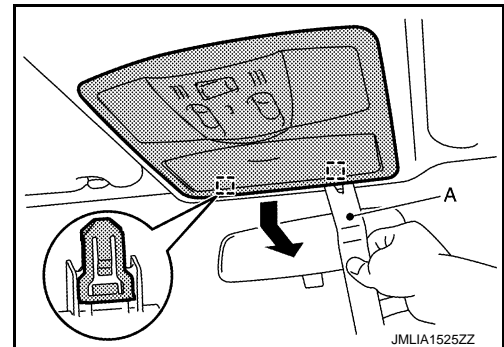
#### CAUTION:

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

#### REMOVAL

1. Disengage map lamp assembly fixing metal clips with a remover tool (A).

□ : Metal clip



2. Disconnect harness connector, and then remove map lamp assembly.

#### INSTALLATION

Install in the reverse order of removal.

#### Replacement

INFOID:000000012405250

#### 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.**


# MAP LAMP

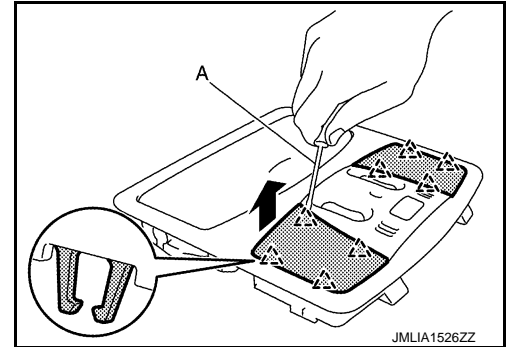
## < REMOVAL AND INSTALLATION >

- **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. Disengage lens fixing pawls with a remover tool (A).

 : Pawl



2. Remove bulb.



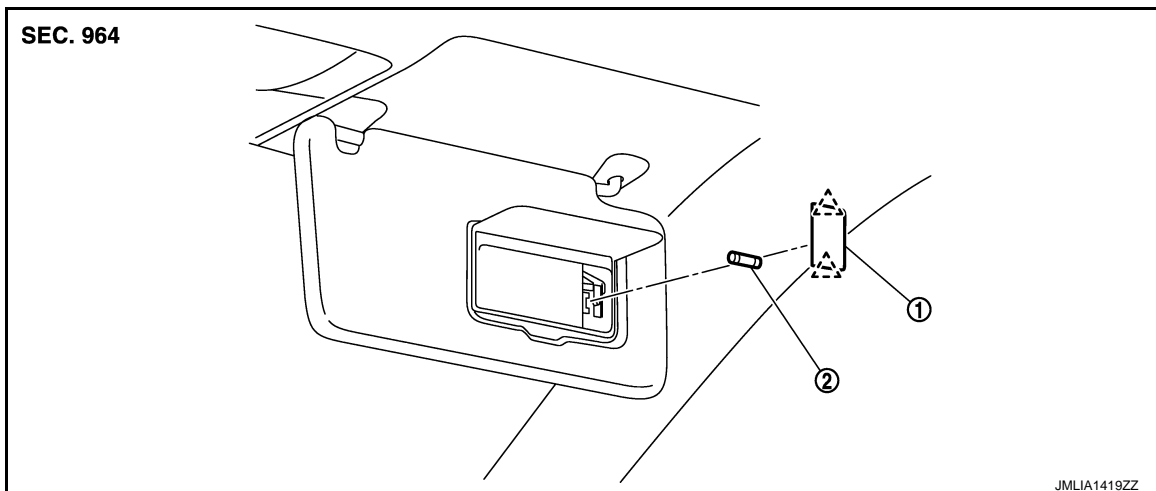
# VANITY MIRROR LAMP

< REMOVAL AND INSTALLATION >


## VANITY MIRROR LAMP

### Exploded View

INFOID:000000012405251



1. Lens
2. Bulb

 : Pawl

### Replacement


INFOID:000000012405252

#### 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.

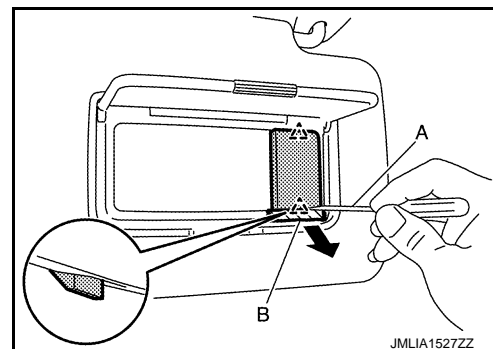
### VANITY MIRROR LAMP

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

 : Pawl

#### CAUTION:

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



2. Remove bulb.

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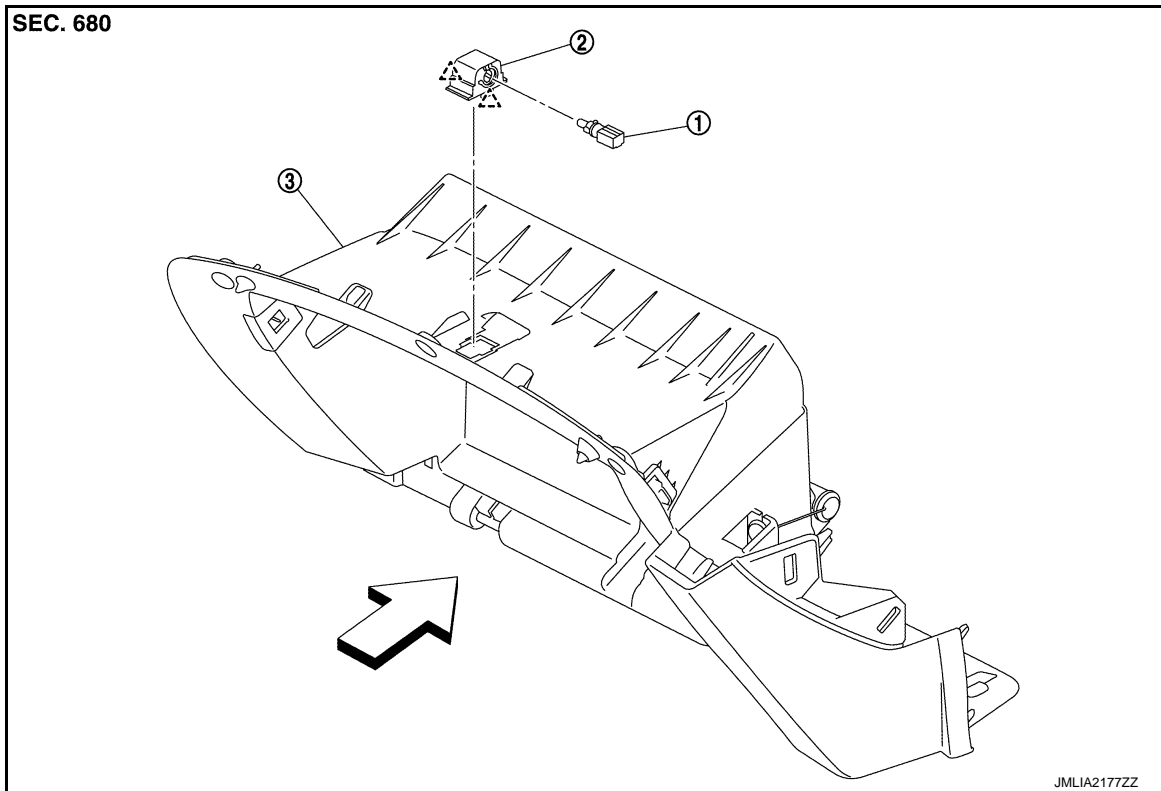
# GLOVE BOX LAMP

< REMOVAL AND INSTALLATION >

## GLOVE BOX LAMP

Exploded View


INFOID:000000012405253



1. Bulb & socket assembly

2. Lamp housing

3. Instrument lower panel RH

 : Pawl

 : Vehicle front

## Replacement

INFOID:000000012405254

### 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.

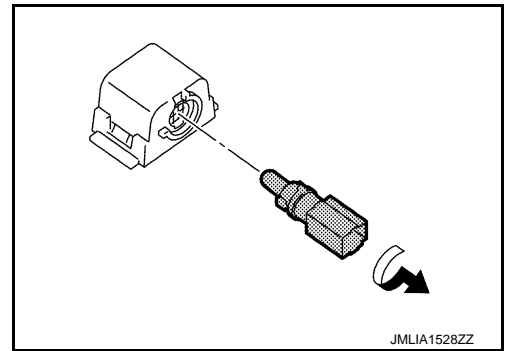
## GLOVE BOX LAMP BULB

1. Remove Instrument lower panel RH. Refer to [IP-14, "Removal and Installation"](#).

## GLOVE BOX LAMP

### < REMOVAL AND INSTALLATION >

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



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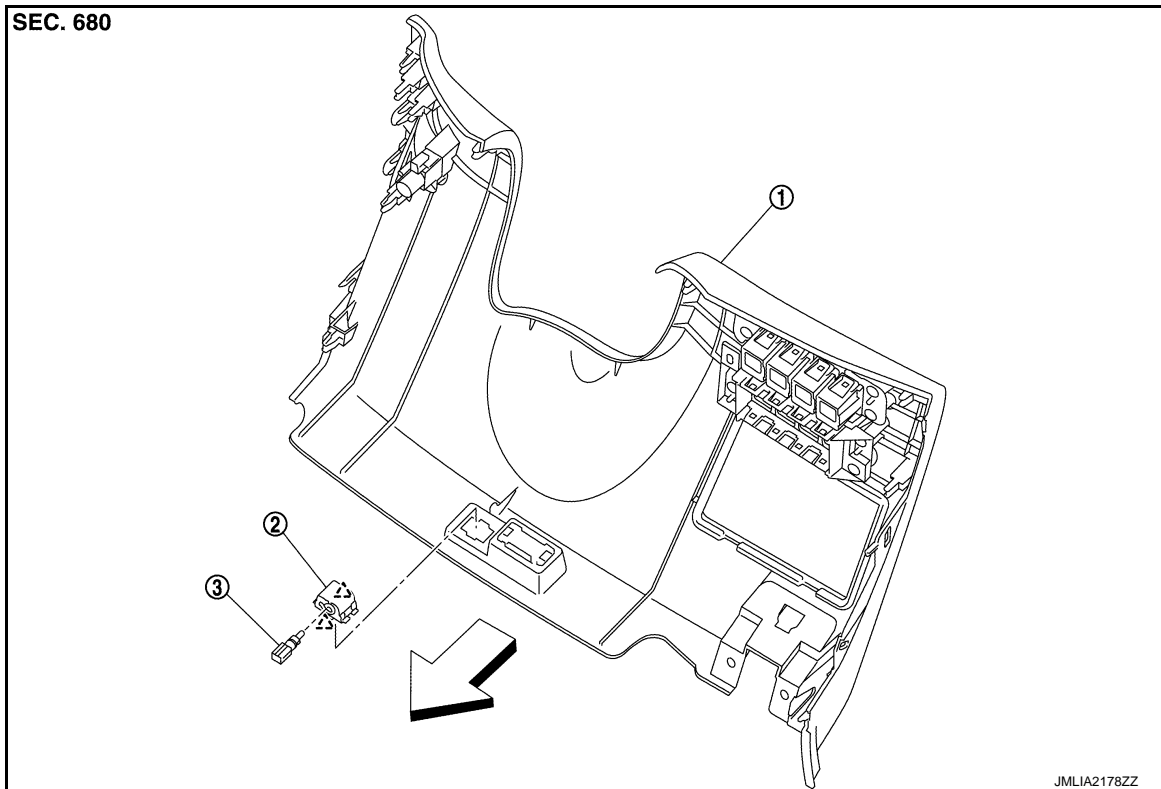
# FOOT LAMP

< REMOVAL AND INSTALLATION >


## FOOT LAMP DRIVER SIDE

DRIVER SIDE : Exploded View

INFOID:000000012405255



1. Instrument lower panel LH      2. Lamp housing      3. Bulb & socket assembly

 : Pawl

 : Vehicle front

## DRIVER SIDE : Replacement

INFOID:000000012405256

### 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.

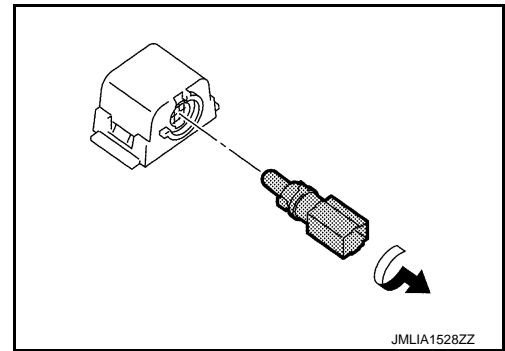
### FOOT LAMP BULB (DRIVER SIDE)

1. Remove instrument lower panel LH. Refer to [IP-14. "Removal and Installation"](#).

# FOOT LAMP

## < REMOVAL AND INSTALLATION >

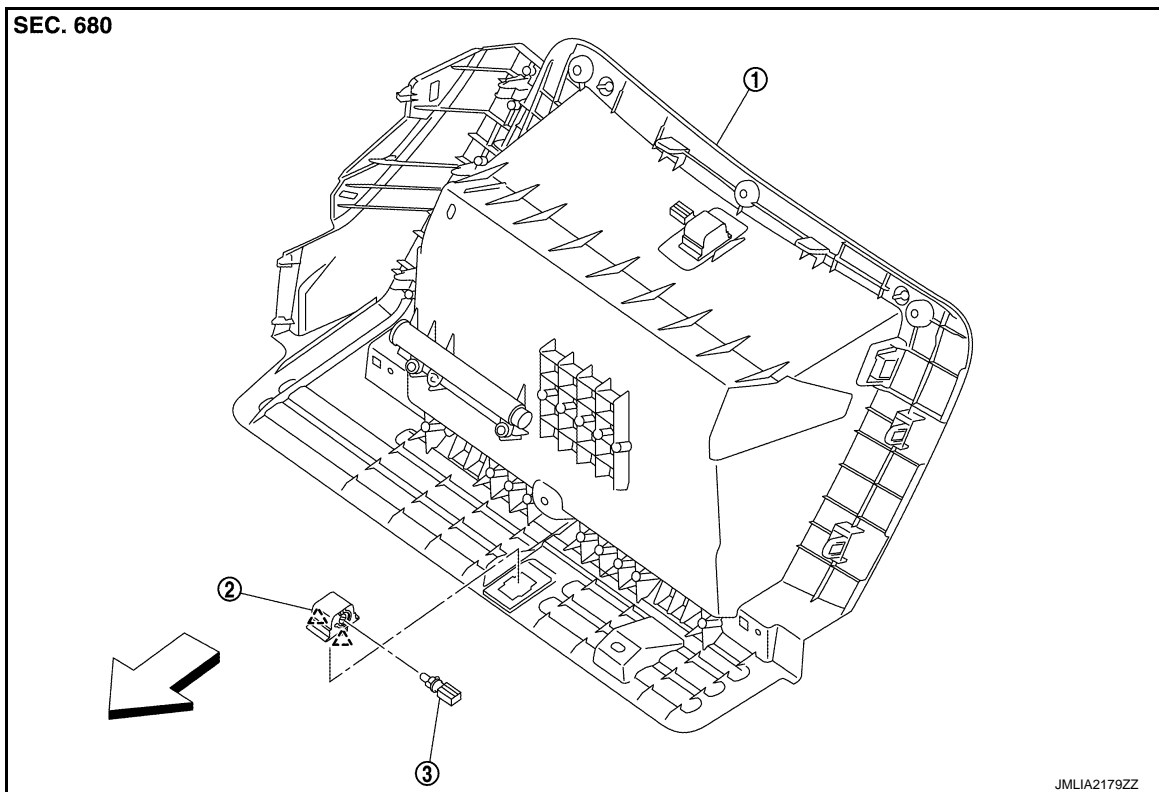
2. Rotate the bulb & socket assembly counterclockwise and unlock it and then remove bulb & socket assembly.



## PASSENGER SIDE

### PASSENGER SIDE : Exploded View

INFOID:000000012405257



1. Instrument lower panel RH
2. Lamp housing
3. Bulb & socket assembly

△ : Pawl

↶ : Vehicle front

### PASSENGER SIDE : Replacement

INFOID:000000012405258

#### **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.

### FOOT LAMP BULB (PASSENGER SIDE)

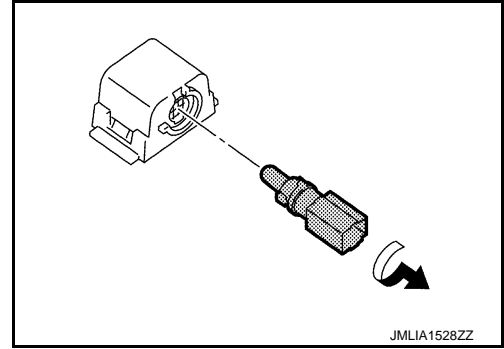
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## FOOT LAMP

### < REMOVAL AND INSTALLATION >

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1. Remove instrument lower panel RH. Refer to [IP-14. "Removal and Installation"](#).
2. Rotate the bulb & socket assembly counterclockwise and unlock it and then remove bulb & socket assembly.



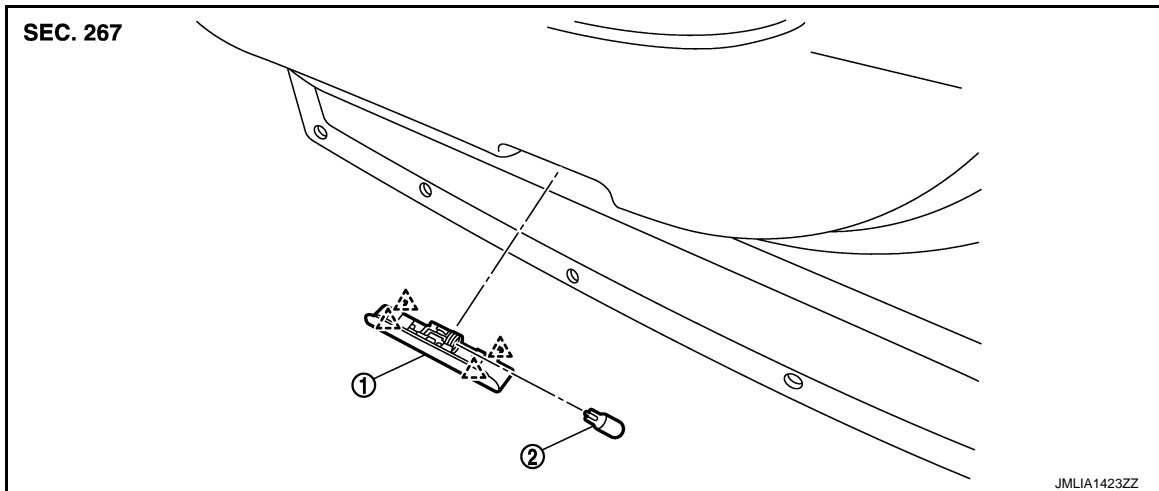
# STEP LAMP

< REMOVAL AND INSTALLATION >


## STEP LAMP

### Exploded View

INFOID:000000012405259



1. Step lamp assembly
2. Bulb

 : Pawl

### Removal and Installation


INFOID:000000012405260

#### CAUTION:

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

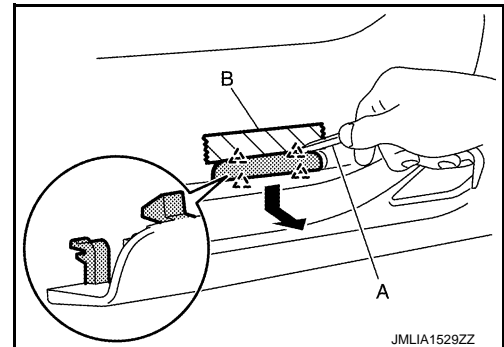
#### REMOVAL

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

 : Pawl

#### CAUTION:

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



2. Disconnect harness connector, and then remove step lamp assembly.

#### INSTALLATION

Install in the reverse order of removal.

#### Replacement

INFOID:000000012405261

#### CAUTION:

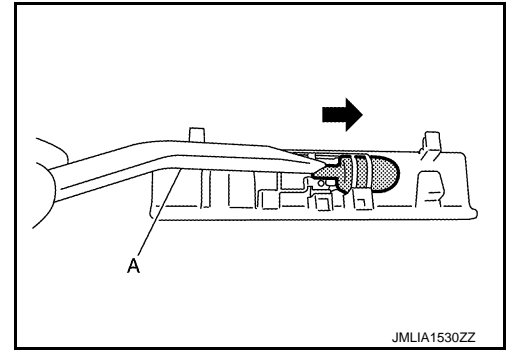
- Disconnect the battery negative terminal or remove power circuit fuse while performing the operation to prevent electric leakage.
- Never touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Never touch the glass surface of the bulb 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.

## STEP LAMP

< REMOVAL AND INSTALLATION >

### STEP LAMP BULB

Push bulb with a remover tool (A), and then remove bulb.





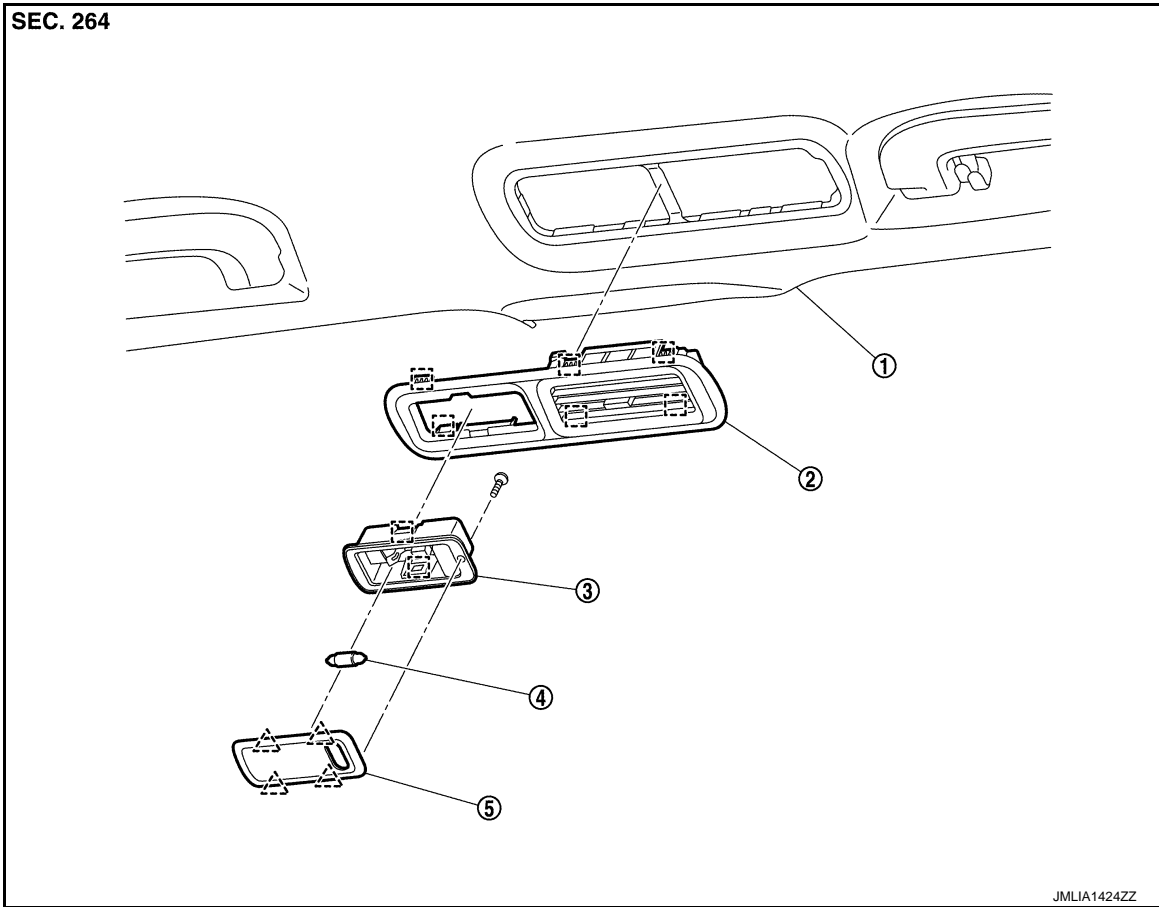
# PERSONAL LAMP

< REMOVAL AND INSTALLATION >



## PERSONAL LAMP

Exploded View

INFOID:000000012405262



- 1. Headlining
- 2. Rear cooler grille
- 3. Personal lamp case
- 4. Bulb
- 5. Lens

-  : Pawl
-  : Metal clip

### Removal and Installation

INFOID:000000012405263

#### CAUTION:


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

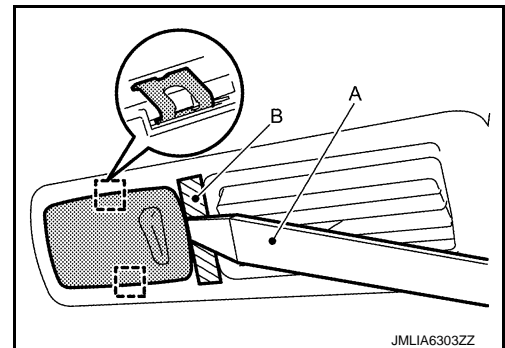
#### REMOVAL

1. Disengage personal lamp case fixing metal clips using a remover tool (A).

#### CAUTION:

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

-  : Metal clip



# PERSONAL LAMP

## < REMOVAL AND INSTALLATION >

2. Disconnect harness connector, and then remove personal lamp case.

### INSTALLATION

Install in the reverse order of removal.

### Replacement

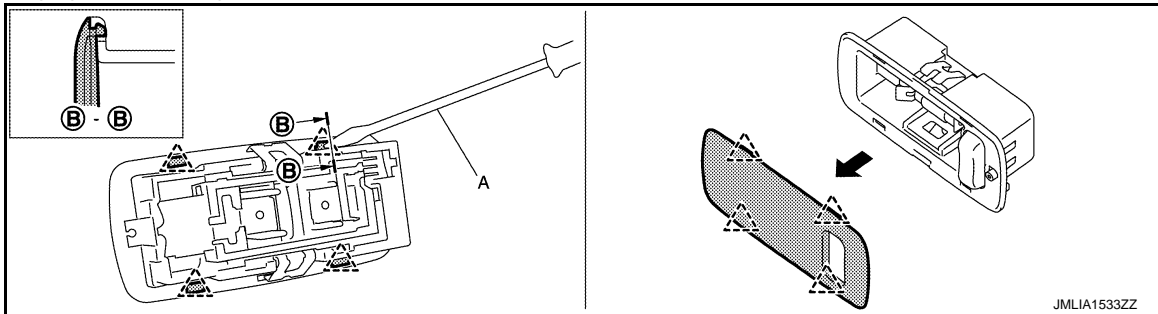
INFOID:000000012405264


#### 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.

### PERSONAL LAMP BULB

1. Remove personal lamp case. Refer to [INL-81. "Removal and Installation"](#).
2. Remove lens fixing screw.
3. Disengage lens fixing pawls with a remover tool (A), and then remove lens.



 : Pawl

4. Remove bulb.

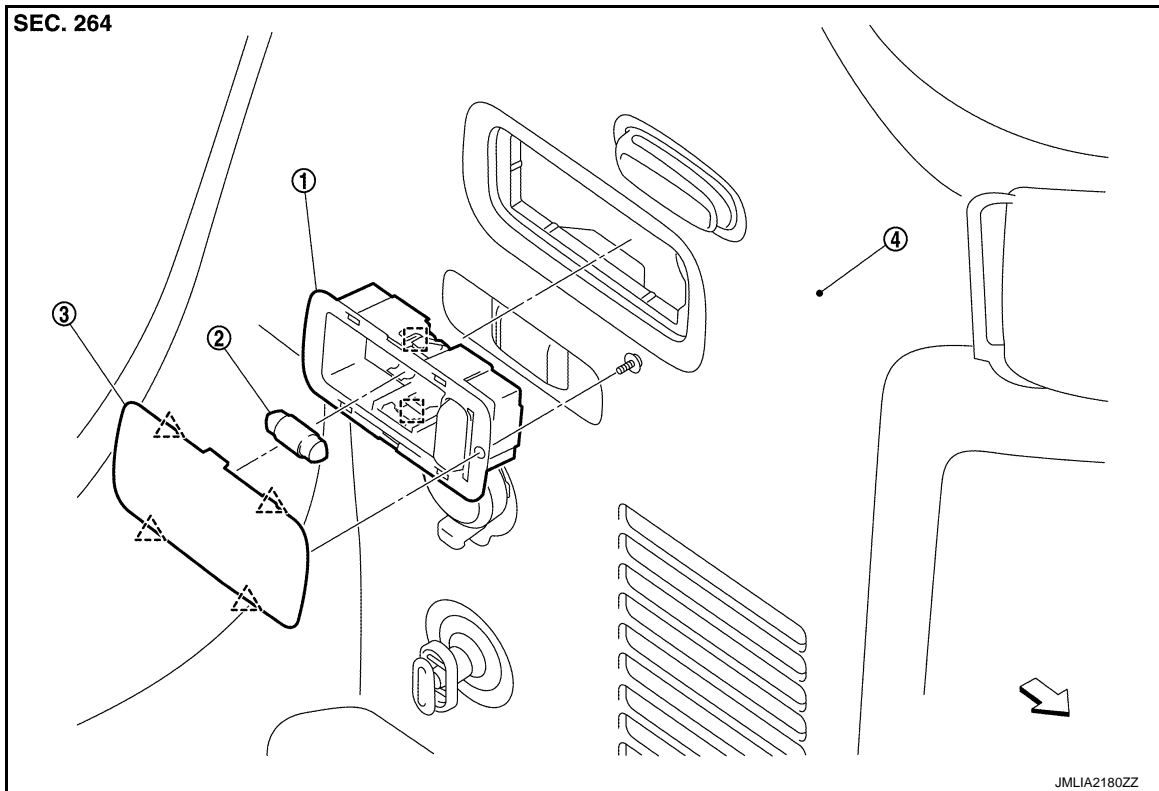
# LUGGAGE ROOM LAMP

< REMOVAL AND INSTALLATION >

## LUGGAGE ROOM LAMP

Exploded View

INFOID:000000012405265



1. Luggage room lamp case                      2. Bulb                      3. Lens

4. Luggage side lower finisher LH

△ : Pawl

□ : Metal clip

↶ : Vehicle front

### Removal and Installation

INFOID:000000012405266

#### CAUTION:

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

#### REMOVAL

Disengage luggage room lamp case fixing metal clips with a remover tool, and then remove luggage room lamp case.

#### INSTALLATION

Install in the reverse order of removal.

### Replacement

INFOID:000000012405267

#### 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.**

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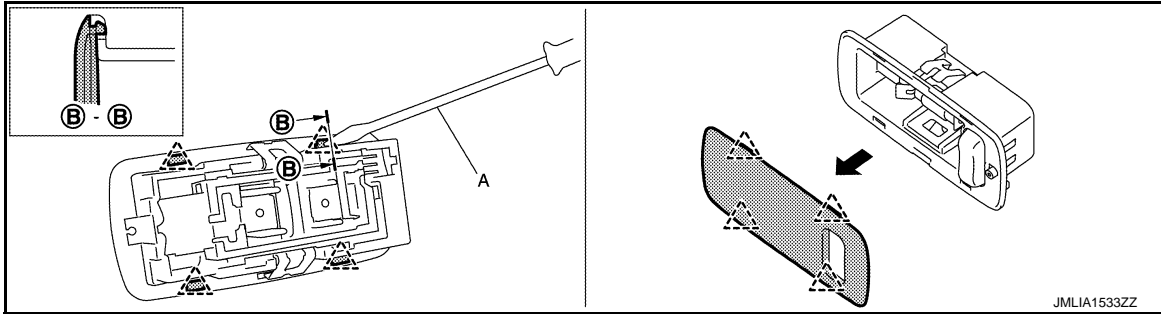
# LUGGAGE ROOM LAMP

## < REMOVAL AND INSTALLATION >

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

### LUGGAGE ROOM LAMP BULB

1. Remove luggage room lamp case. Refer to [INL-83, "Removal and Installation"](#).
2. Remove lens fixing screw.
3. Disengage lens fixing pawls with a remover tool (A), and then remove lens.



△ : Pawl

4. Remove bulb.

# SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

## SERVICE DATA AND SPECIFICATIONS (SDS)

### SERVICE DATA AND SPECIFICATIONS (SDS)

#### Bulb Specifications

INFOID:0000000012405268

Item	Type	Wattage (W)
Map lamp	Wedge	8
Total coordination of illumination	LED	—
Vanity mirror lamp	—	1.2
Push-button ignition switch illumination	LED	—
Glove box lamp	—	1.4
Foot lamp (driver side)	—	1.4
Foot lamp (passenger side)	—	1.4
Step lamp	Wedge	3.8
Personal lamp	—	8
Luggage room lamp	—	8

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