

SECTION INL

INTERIOR LIGHTING SYSTEM

CONTENTS

PRECAUTION	3	COMMON ITEM	19
PRECAUTIONS	3	COMMON ITEM : CONSULT Function (BCM -	
Precaution for Supplemental Restraint System		COMMON ITEM)	19
(SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"	3	INT LAMP	20
Precautions for Removing Battery Terminal	3	INT LAMP : CONSULT Function (BCM - INT	
SYSTEM DESCRIPTION	4	LAMP)	21
COMPONENT PARTS	4	BATTERY SAVER	22
Component Parts Location	4	BATTERY SAVER : CONSULT Function (BCM -	
Bulb Specifications	5	BATTERY SAVER)	22
SYSTEM	6	ECU DIAGNOSIS INFORMATION	25
INTERIOR ROOM LAMP CONTROL SYSTEM	6	BCM	25
INTERIOR ROOM LAMP CONTROL SYSTEM :		List of ECU Reference	25
System Description	6	WIRING DIAGRAM	26
INTERIOR ROOM LAMP CONTROL SYSTEM :		INTERIOR ROOM LAMP CONTROL SYSTEM	
Circuit Diagram	9		26
INTERIOR ROOM LAMP BATTERY SAVER SYSTEM	10	Wiring Diagram	26
INTERIOR ROOM LAMP BATTERY SAVER		ILLUMINATION	38
SYSTEM : System Description	11	Wiring Diagram	38
INTERIOR ROOM LAMP BATTERY SAVER		BASIC INSPECTION	53
SYSTEM : Circuit Diagram	13	DIAGNOSIS AND REPAIR WORK FLOW	53
ILLUMINATION CONTROL SYSTEM	14	Work Flow	53
ILLUMINATION CONTROL SYSTEM : System		DTC/CIRCUIT DIAGNOSIS	56
Description	15	INTERIOR ROOM LAMP POWER SUPPLY	
ILLUMINATION CONTROL SYSTEM : Circuit Diagram	16	CIRCUIT	56
AUTO LIGHT ADJUSTMENT SYSTEM	16	Component Function Check	56
AUTO LIGHT ADJUSTMENT SYSTEM : System		Diagnosis Procedure	56
Description	17	INTERIOR ROOM LAMP CONTROL CIRCUIT	
AUTO LIGHT ADJUSTMENT SYSTEM : Circuit			58
Diagram	18	Component Function Check	58
DIAGNOSIS SYSTEM (BCM)	19	Diagnosis Procedure	58

LUGGAGE ROOM LAMP CIRCUIT	60	FOOT LAMP	72
Description	60	DRIVER SIDE	72
Diagnosis Procedure	60	DRIVER SIDE : Exploded View	72
STEP LAMP CIRCUIT	62	DRIVER SIDE : Replacement	72
Component Function Check	62	PASSENGER SIDE	73
Diagnosis Procedure	62	PASSENGER SIDE : Exploded View	73
PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT	64	PASSENGER SIDE : Replacement	73
Component Function Check	64	STEP LAMP	75
Diagnosis Procedure	64	Exploded View	75
SYMPTOM DIAGNOSIS	66	Removal and Installation	75
INTERIOR LIGHTING SYSTEM SYMPTOMS...	66	Replacement	75
Symptom Table	66	PERSONAL LAMP	77
REMOVAL AND INSTALLATION	67	Exploded View	77
MAP LAMP	67	Removal and Installation	77
Exploded View	67	Replacement	78
Removal and Installation	67	LUGGAGE ROOM LAMP	79
Replacement	67	Exploded View	79
VANITY MIRROR LAMP	69	Removal and Installation	79
Exploded View	69	Replacement	79
Replacement	69	SERVICE DATA AND SPECIFICATIONS (SDS)	81
GLOVE BOX LAMP	70	SERVICE DATA AND SPECIFICATIONS (SDS)	81
Exploded View	70	Bulb Specifications	81
Replacement	70		

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

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

WARNING:

Always observe the following items for preventing accidental activation.

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

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

WARNING:

Always observe the following items for preventing accidental activation.

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

Precautions for Removing Battery Terminal

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

NOTE:

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

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

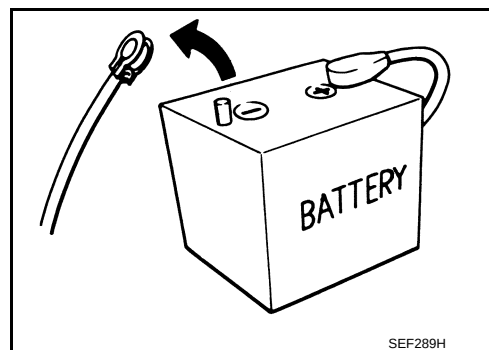
NOTE:

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

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

NOTE:

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



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COMPONENT PARTS

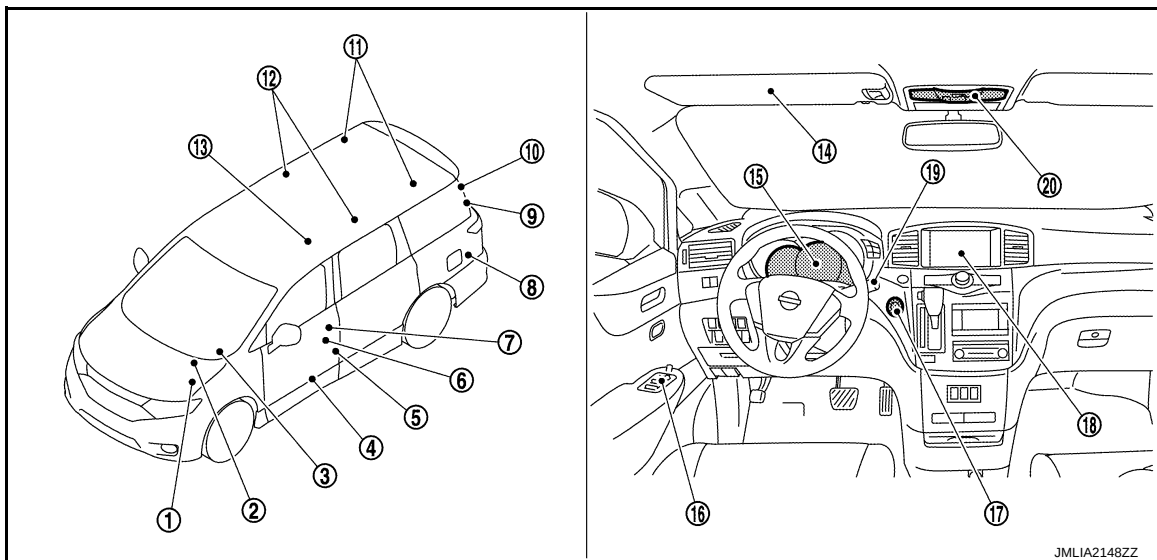
< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION

COMPONENT PARTS

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 PCS-4, "IPDM E/R : Component Parts Location" for detailed installation location.
2.	BCM	- Activates the interior room lamp timer depending on the vehicle condition to turn the interior room lamps ON/OFF. - Operates the interior room lamp battery saver depending on the vehicle condition to cut the interior room lamp power supply. - Detects each switch condition by the combination switch reading function. - Judges the illumination lamp ON/OFF status depending on the vehicle condition. And then it transmits position light request signal to IPDM E/R and combination meter (with CAN communication). Refer to BCS-4, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location.
3.	Optical sensor	Refer to EXL-8, "Component Parts Location" .
4.	Step lamp	Refer to INL-5, "Bulb Specifications" .
5.	Door switch	Refer to DLK-18, "DOOR LOCK SYSTEM : Component Parts Location" .
6.	Front door lock assembly (driver side) (door key cylinder switch)	Refer to DLK-18, "DOOR LOCK SYSTEM : Component Parts Location" .
7.	Door request switch	Refer to DLK-18, "DOOR LOCK SYSTEM : Component Parts Location" .
8.	Luggage room lamp	Refer to INL-5, "Bulb Specifications" .
9.	Automatic back door close switch	Refer to DLK-22, "AUTOMATIC BACK DOOR SYSTEM : Component Parts Location" .
10.	Back door lock assembly (back door switch)	Refer to DLK-18, "DOOR LOCK SYSTEM : Component Parts Location" .
11.	Third personal lamp	Refer to INL-5, "Bulb Specifications" .
12.	Second personal lamp	Refer to INL-5, "Bulb Specifications" .
13.	Remote keyless entry receiver	Refer to DLK-18, "DOOR LOCK SYSTEM : Component Parts Location" .
14.	Vanity mirror lamp	Refer to INL-5, "Bulb Specifications" .
15.	Combination meter	Refer to MWI-6, "METER SYSTEM : Component Parts Location" .

COMPONENT PARTS

< SYSTEM DESCRIPTION >

No.	Part	Description
16.	Door lock and unlock switch	Refer to DLK-18, "DOOR LOCK SYSTEM : Component Parts Location" .
17.	Push-button ignition switch	Refer to DLK-22, "AUTOMATIC BACK DOOR SYSTEM : Component Parts Location" .
18.	AV control unit	Receives the dimmer signal from BCM via CAN communication. Refer to AV-14, "Component Parts Location" for detailed installation location.
19.	Combination switch (Lighting & turn signal switch)	Refer to BCS-8, "COMBINATION SWITCH READING SYSTEM : System Description" .
20.	Map lamp	Refer to INL-5, "Bulb Specifications" .

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	3.4
Personal lamp	—	8
Luggage room lamp	—	8

INL

SYSTEM

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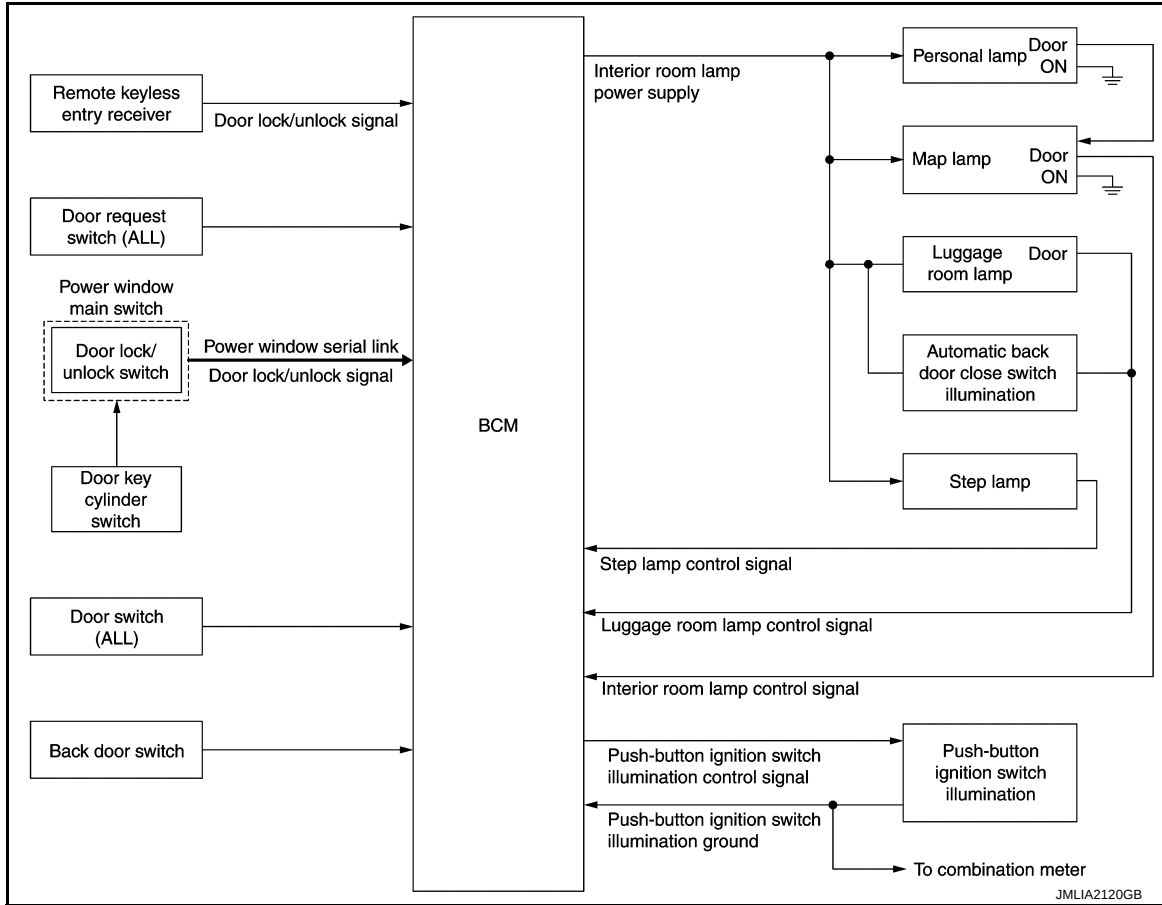
SYSTEM

INTERIOR ROOM LAMP CONTROL SYSTEM

INTERIOR ROOM LAMP CONTROL SYSTEM : System Description

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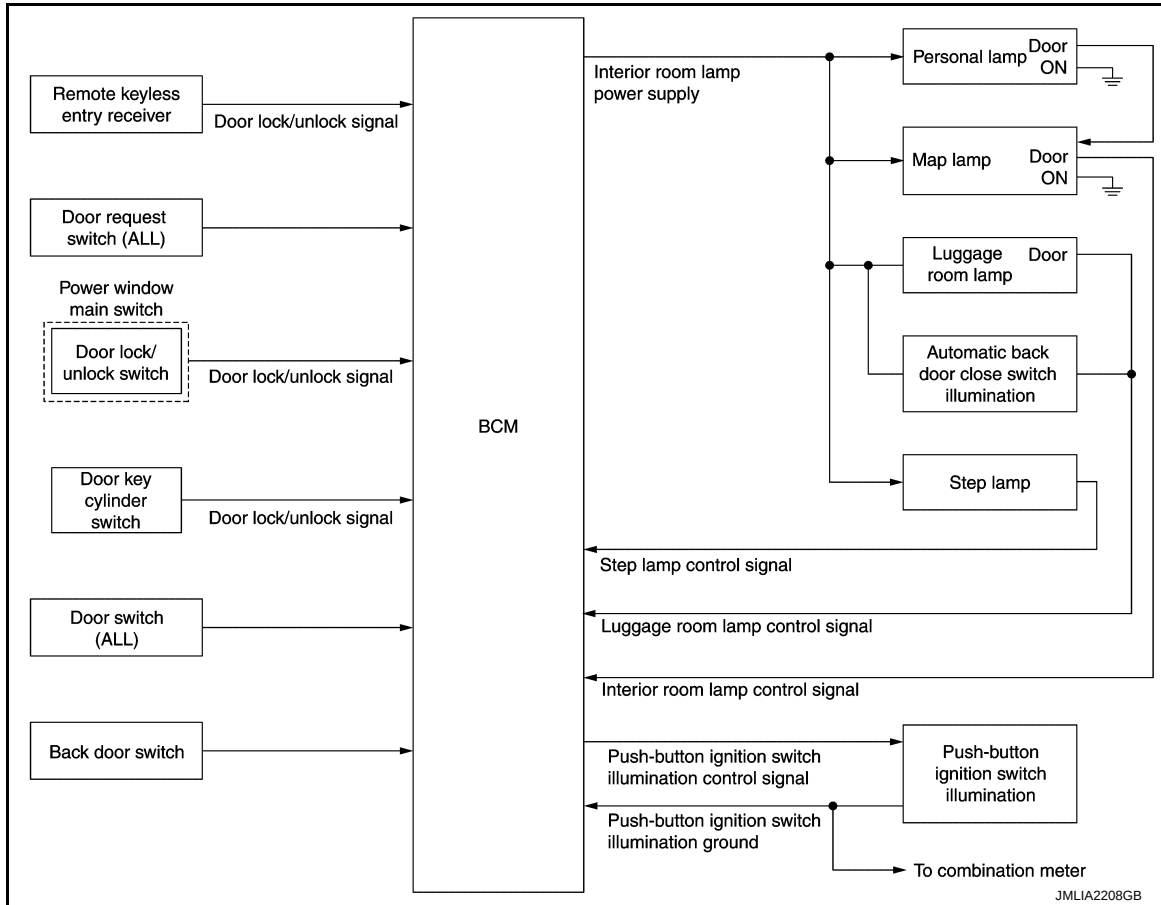
SYSTEM DIAGRAM (WITH AUTOMATIC SLIDE DOOR)



SYSTEM

< SYSTEM DESCRIPTION >

SYSTEM DIAGRAM (WITHOUT AUTOMATIC SLIDE DOOR)

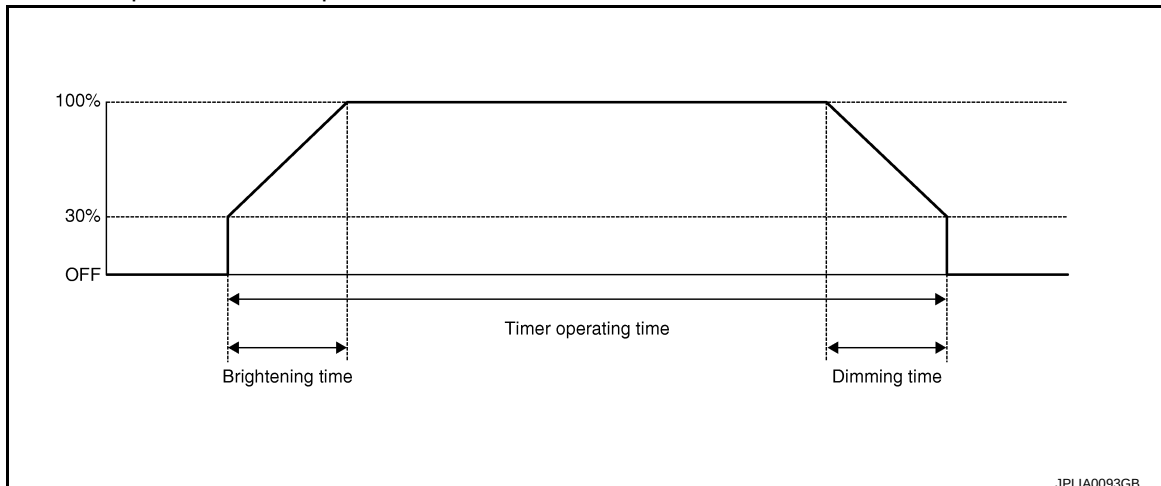


OUTLINE

- 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.

SYSTEM

< SYSTEM DESCRIPTION >

- 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-21, "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.

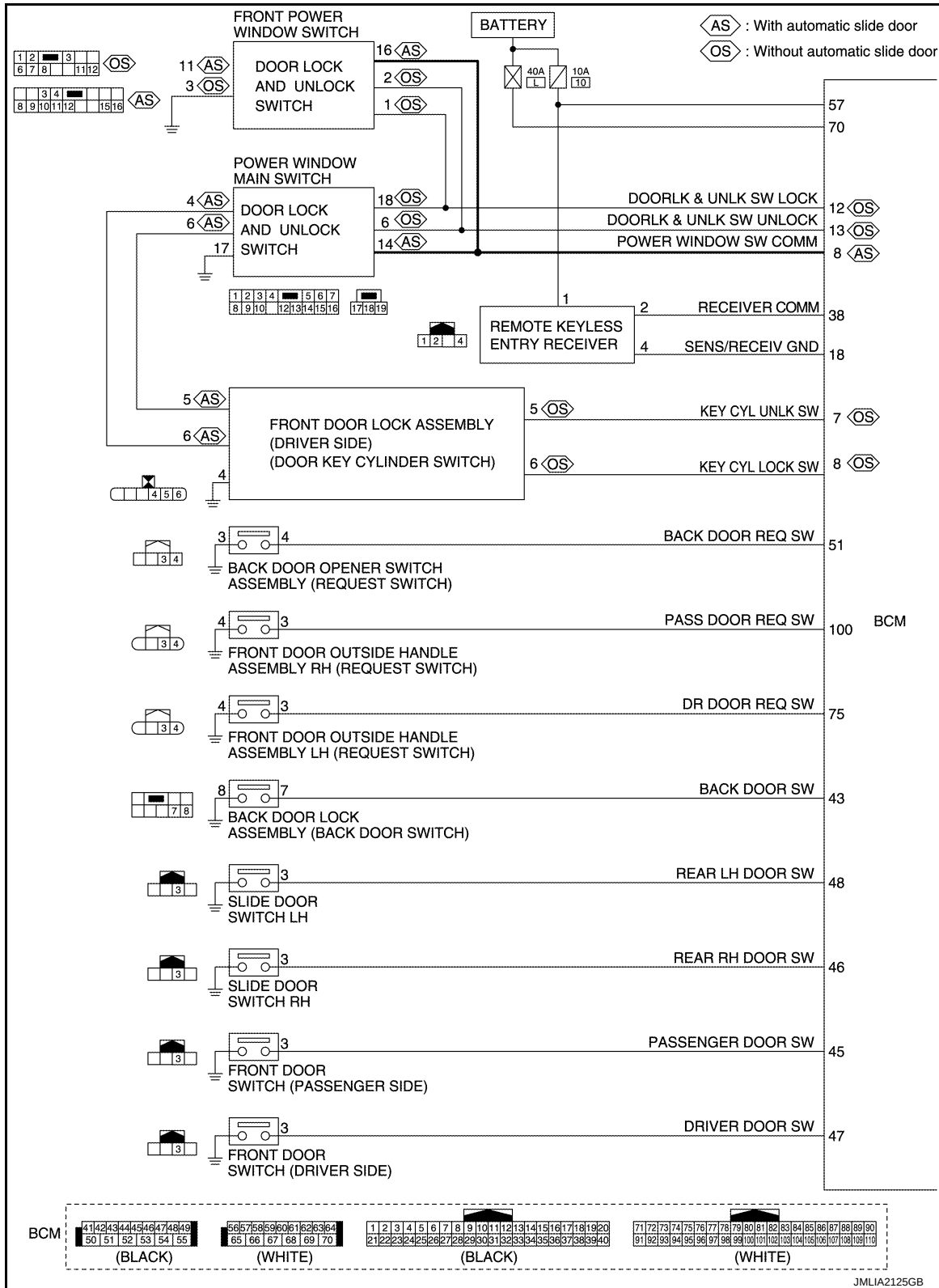
- The push-button ignition switch illumination ON conditions do not satisfy.
- Any of the following conditions with ignition switch OFF.
 - The push-button ignition switch illumination ON conditions do not change (15 seconds after the ignition switch OFF)
 - Driver side door is UNLOCK → LOCK

SYSTEM

< SYSTEM DESCRIPTION >

INTERIOR ROOM LAMP CONTROL SYSTEM : Circuit Diagram

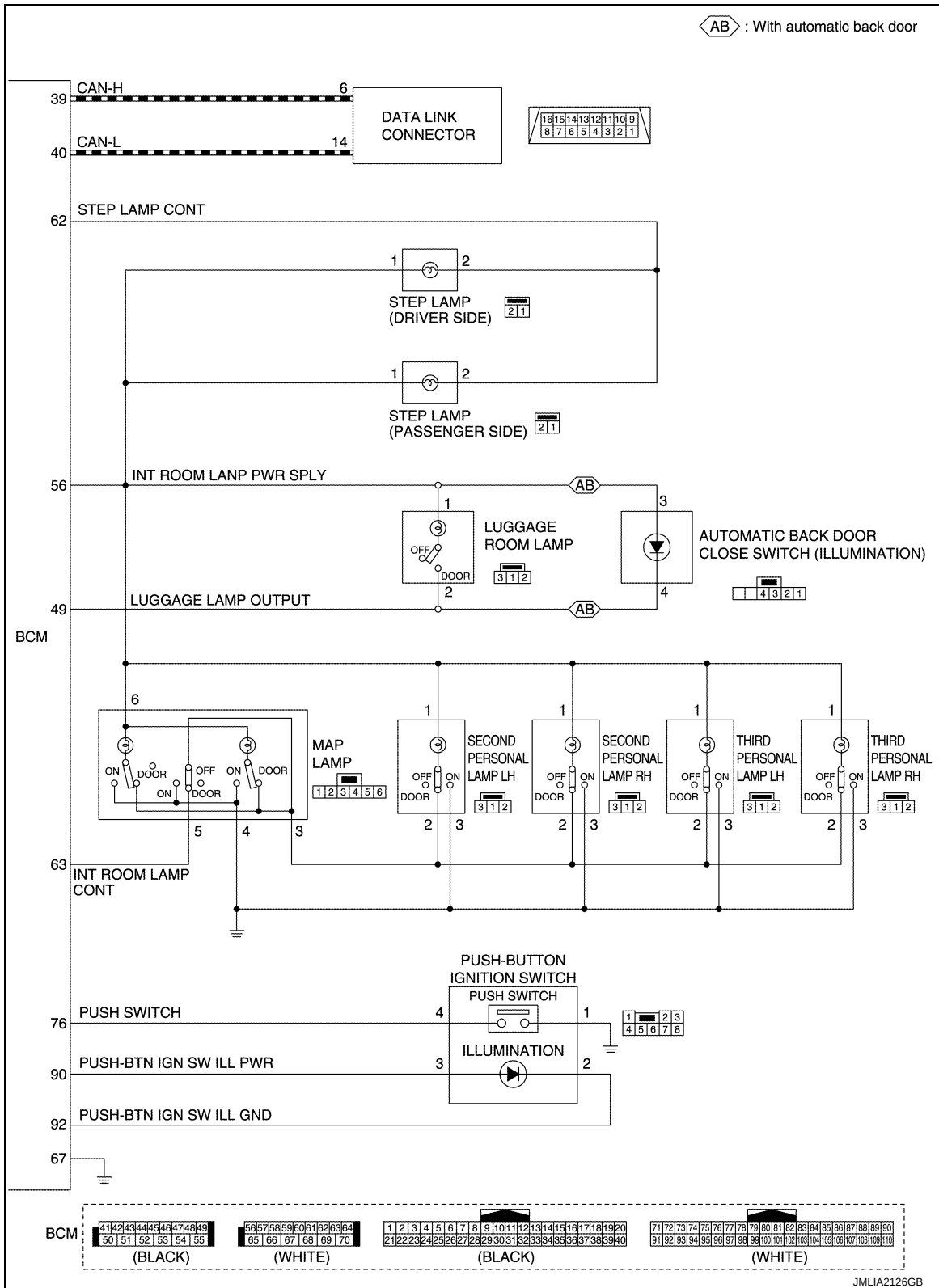
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SYSTEM

< SYSTEM DESCRIPTION >



INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

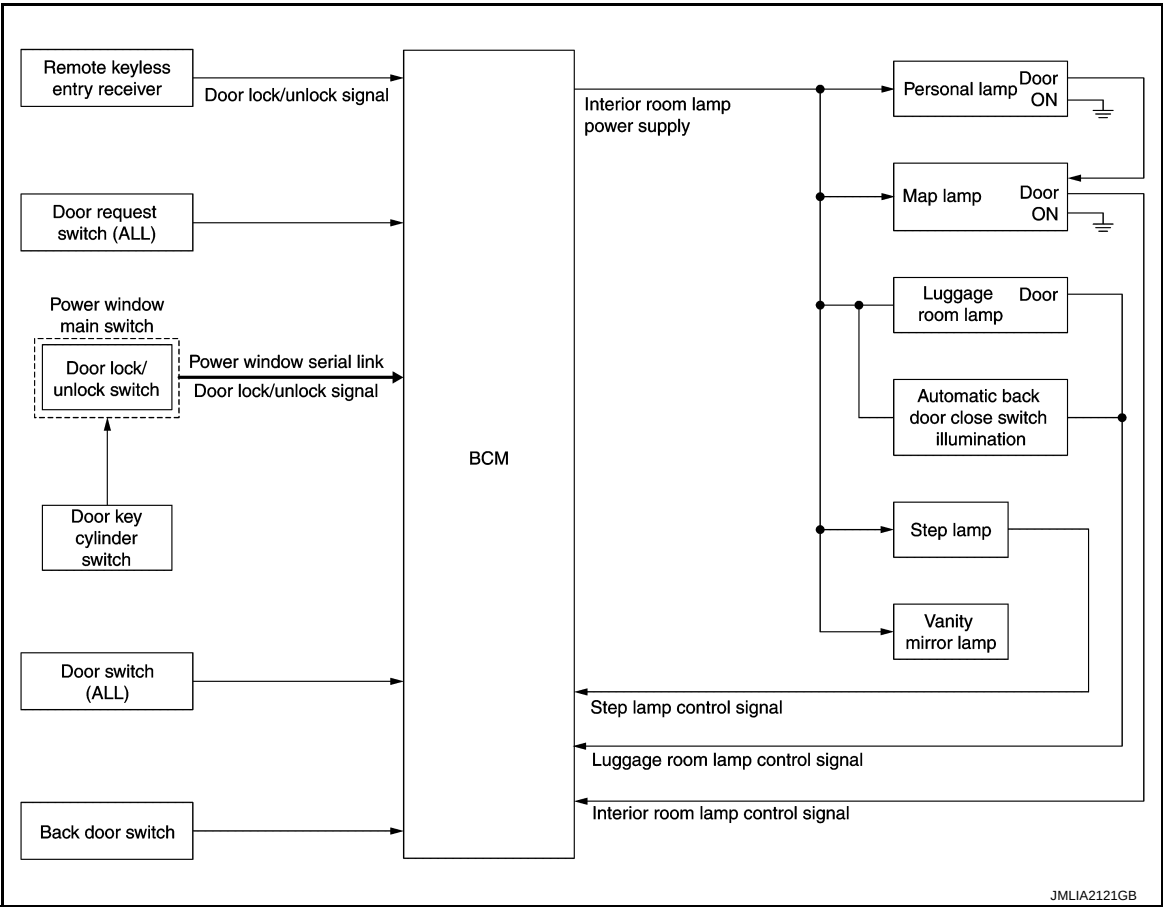
SYSTEM

< SYSTEM DESCRIPTION >

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Description

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SYSTEM DIAGRAM (WITH AUTOMATIC SLIDE DOOR)

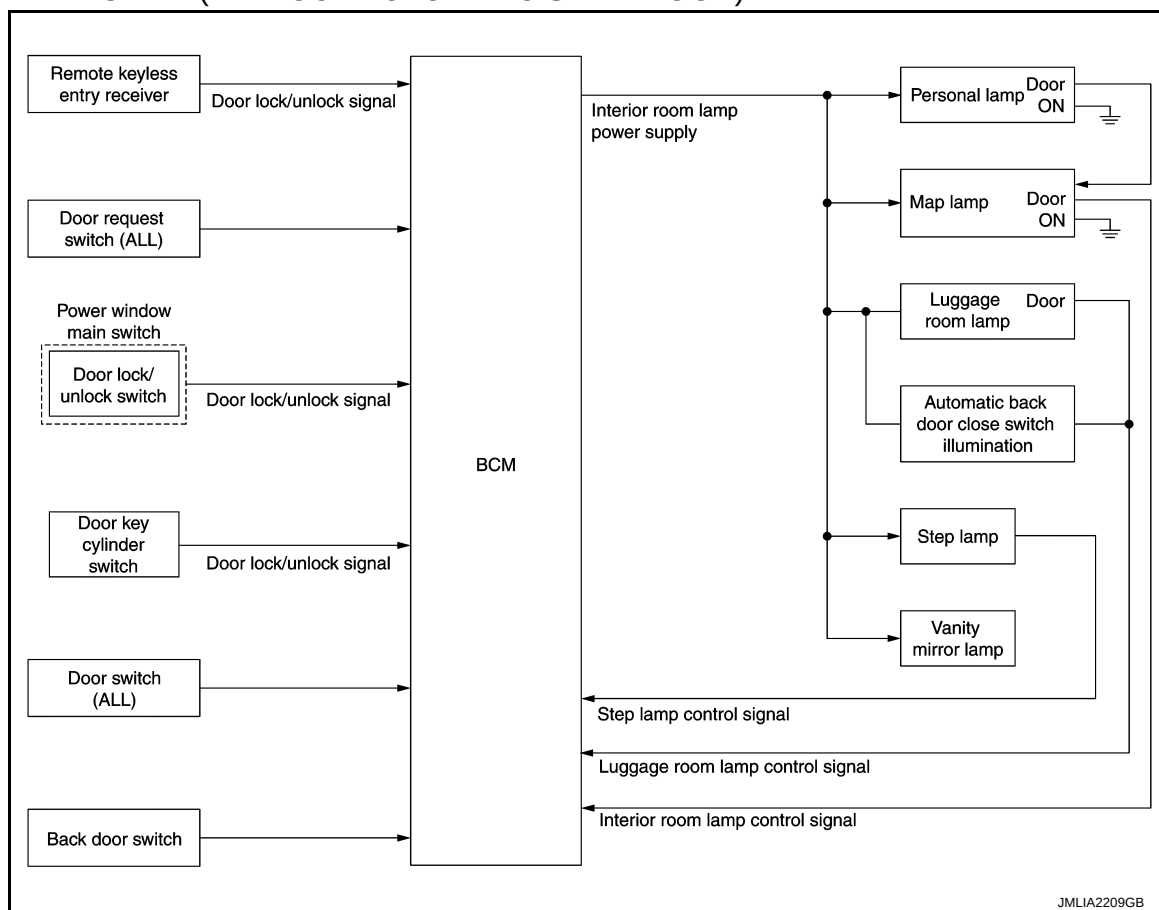


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SYSTEM

< SYSTEM DESCRIPTION >

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:

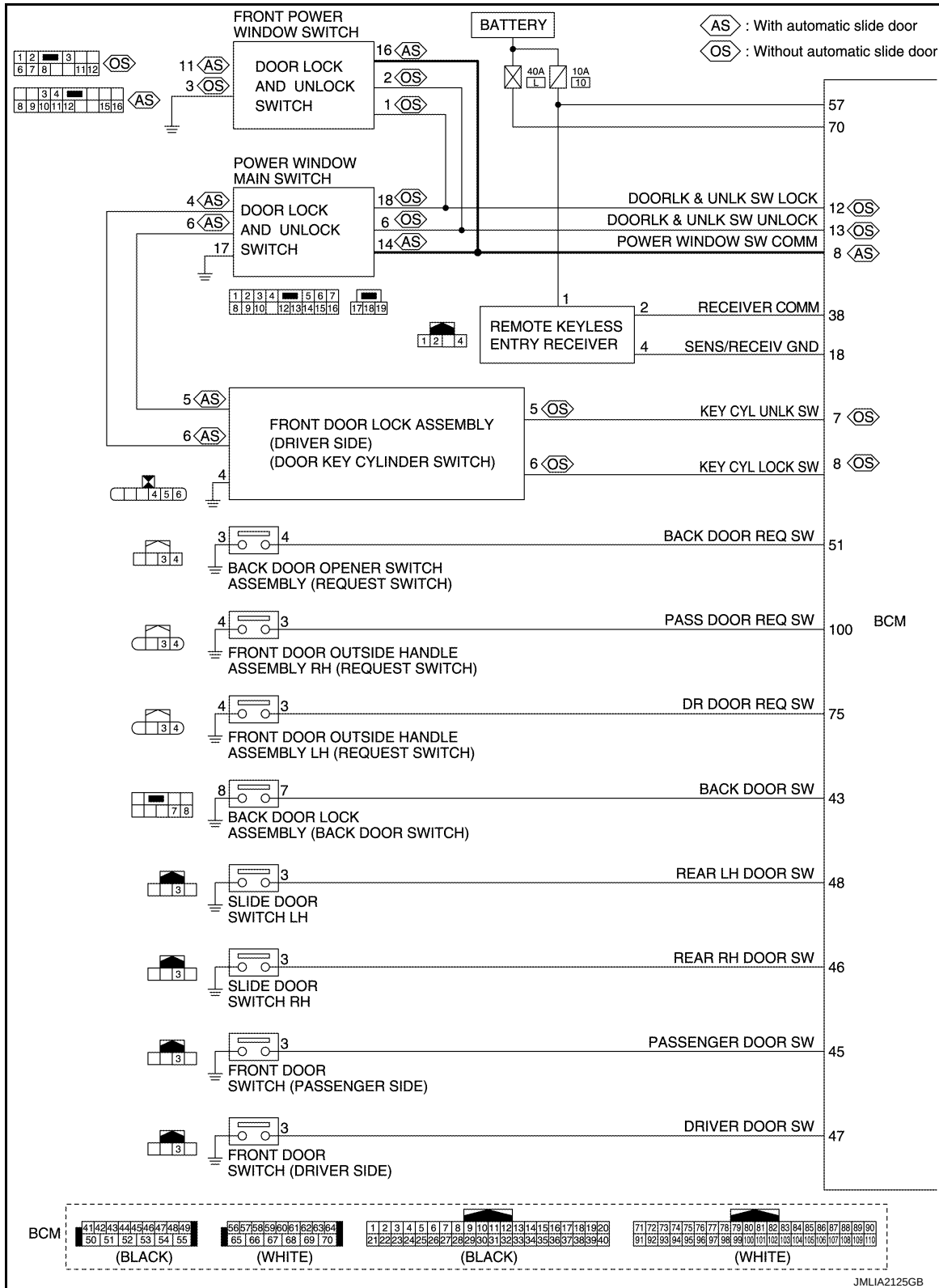
Each function of interior room lamp battery saver can be set by CONSULT. Refer to [INL-22. "BATTERY SAVER : CONSULT Function \(BCM - BATTERY SAVER\)"](#).

SYSTEM

< SYSTEM DESCRIPTION >

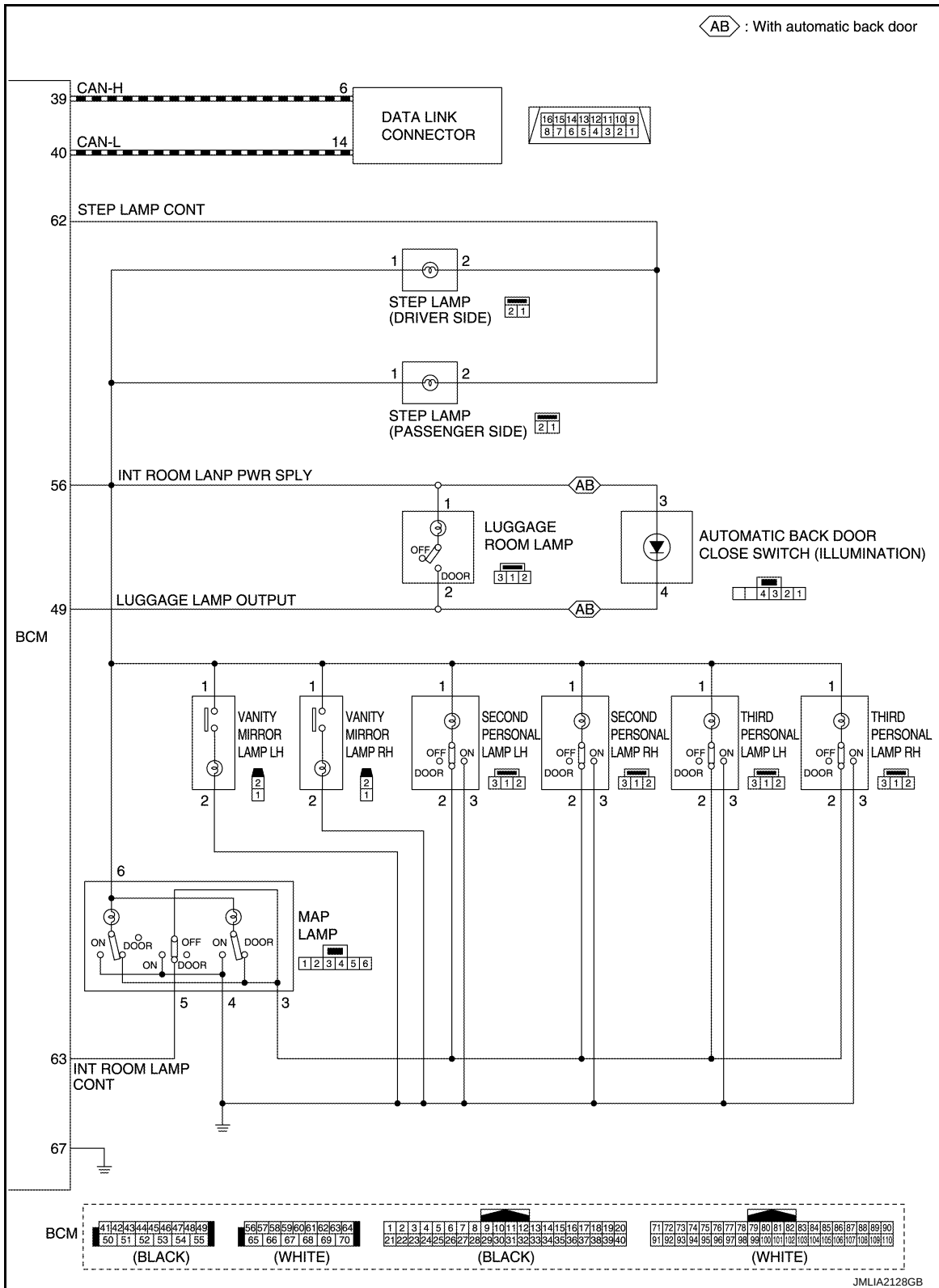
INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : Circuit Diagram

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SYSTEM

< SYSTEM DESCRIPTION >



ILLUMINATION CONTROL SYSTEM

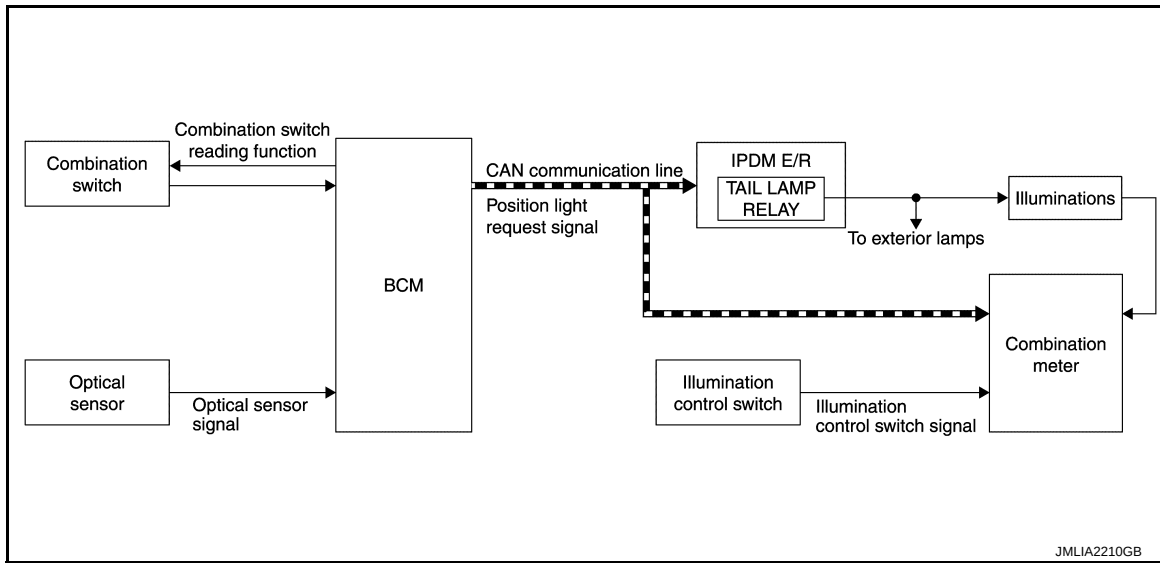
SYSTEM

< SYSTEM DESCRIPTION >

ILLUMINATION CONTROL SYSTEM : System Description

INFOID:0000000011321138

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-17, "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

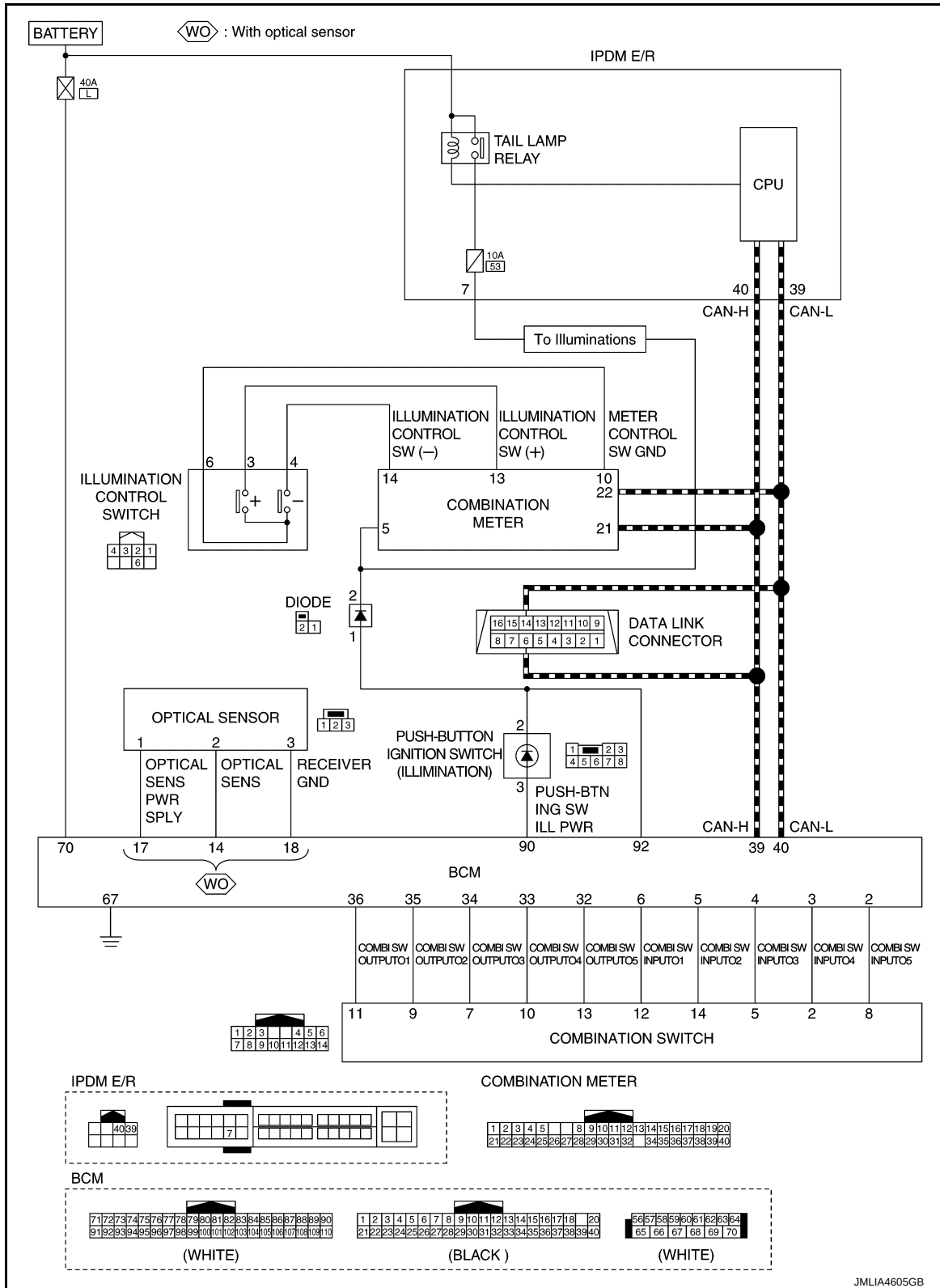
- Lighting switch 1ST
- Lighting switch 2ND
- Lighting switch AUTO, and the auto light function ON judgment
- Lighting switch AUTO, with the front fog lamp switch ON and the ignition switch ON
- IPDM E/R turns the integrated tail lamp relay ON according to position light request signal. It provides the 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).

SYSTEM

< SYSTEM DESCRIPTION >

ILLUMINATION CONTROL SYSTEM : Circuit Diagram

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AUTO LIGHT ADJUSTMENT SYSTEM

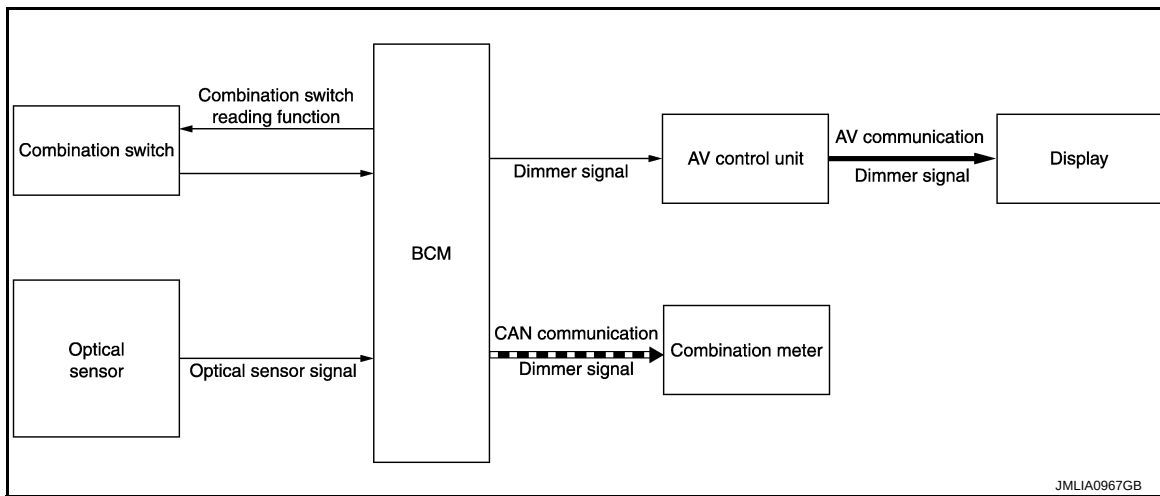
SYSTEM

< SYSTEM DESCRIPTION >

AUTO LIGHT ADJUSTMENT SYSTEM : System Description

INFOID:0000000011321140

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:

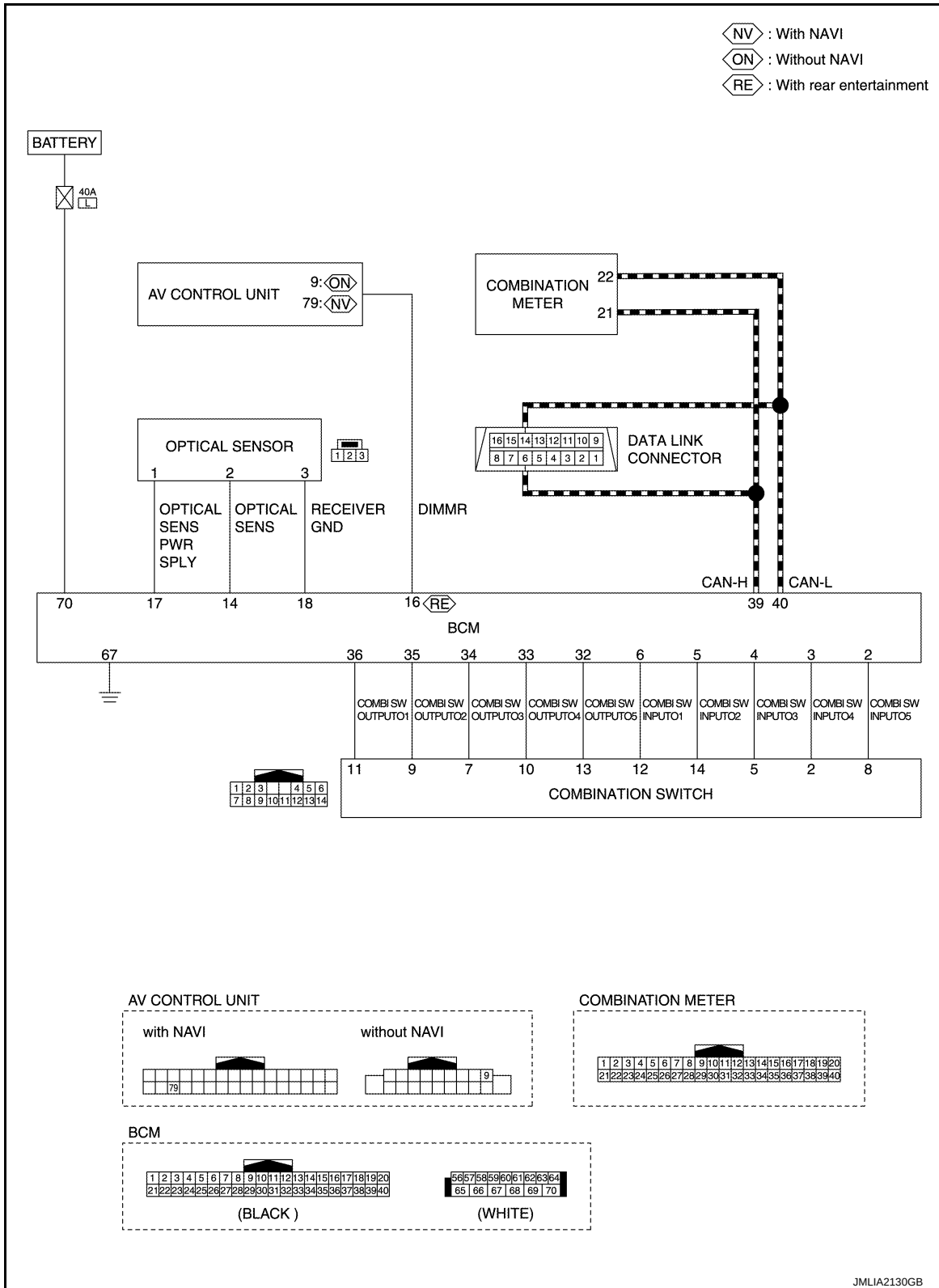
As to dimming/brightening timing, the sensitivity depends on settings. The settings can be changed with CONSULT. Refer to [EXL-32. "HEADLAMP : CONSULT Function \(BCM - HEADLAMP\) \(Xenon Type Headlamp\)"](#).

SYSTEM

< SYSTEM DESCRIPTION >

AUTO LIGHT ADJUSTMENT SYSTEM : Circuit Diagram

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DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

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APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

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

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

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		×	×*
- Intelligent Key system - Engine start system	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	
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)]
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode [Power supply position is OFF (OFF)]
	LOCK>ACC		While turning power supply position from OFF (LOCK) to ACC
	ACC>ON		While turning power supply position from ACC to ON
	RUN>ACC		While turning power supply position from RUN to ACC (Except emergency stop operation)
	CRANK>RUN		While turning power supply position from CRANK to RUN
	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)
	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
	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
	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)
	OFF		Power supply position is OFF (OFF)
	ACC		Power supply position is ACC
	ON		Power supply position is ON
	ENGINE RUN		Power supply position is RUN
	CRANKING		Power supply position is CRANK
IGN Counter	0 - 39	The number of times that ignition switch is turned ON after DTC is detected • The number is 0 when a malfunction is detected now. • The number increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. • The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.	

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

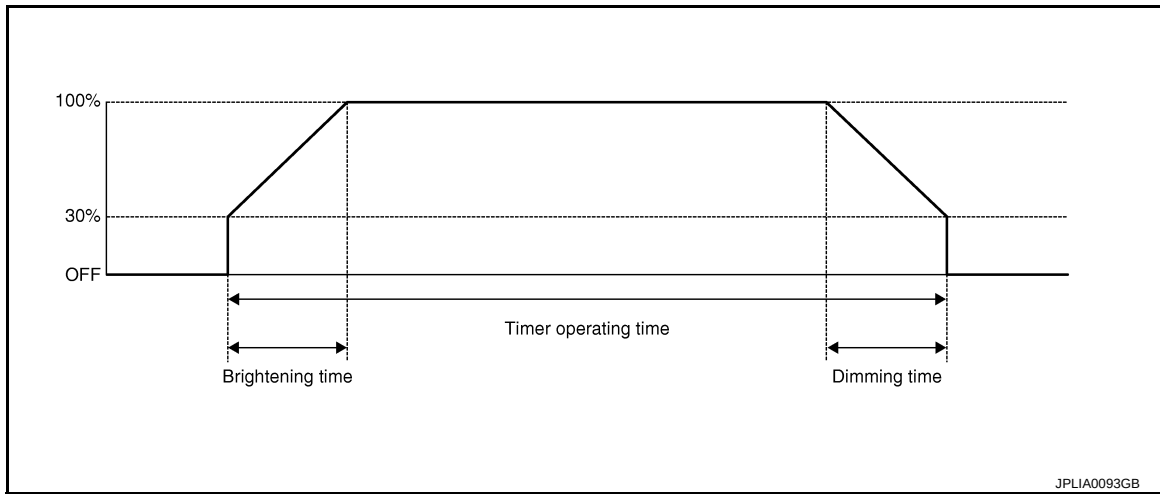
DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

INT LAMP : CONSULT Function (BCM - INT LAMP)

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WORK SUPPORT



Service item	Setting item	Setting	
ROOM LAMP TIMER SET	MODE 2	7.5 sec.	Sets the interior room lamp ON time. (Timer operating time)
	MODE 3*	15 sec.	
	MODE 4	30 sec.	
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.	Sets the interior room lamp gradual brightening time.
	MODE 2*	1 sec.	
	MODE 3	2 sec.	
	MODE 4	3 sec.	
	MODE 5	0 sec.	
ROOM LAMP OFF TIME SET	MODE 1	0.5 sec.	Sets the interior room lamp gradual dimming time.
	MODE 2*	1 sec.	
	MODE 3	2 sec.	
	MODE 4	3 sec.	
	MODE 5	0 sec.	
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]	NOTE: 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]	NOTE: The item is indicated, but not monitored
KEY CYL LK-SW [On/Off]	Lock switch status received from door key cylinder switch
KEY CYL UN-SW [On/Off]	Unlock switch status received from door key cylinder switch
RKE-LOCK [On/Off]	Lock signal status received from remote keyless entry receiver
RKE-UNLOCK [On/Off]	Unlock signal status received from remote keyless entry receiver

ACTIVE TEST

Test item	Operation	Description
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.)]
	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.
	Off	Stops the step lamp control signal to turn the step lamps ON.

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

INFOID:0000000011321144

WORK SUPPORT

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Service item	Setting item	Setting	
ROOM LAMP TIMER SET	MODE 1	30 min.	Sets the interior room lamp battery saver timer operating time. NOTE: 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]	NOTE: 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]	NOTE: The item is indicated, but not monitored
KEY CYL LK-SW [On/Off]	Lock switch status received from door key cylinder switch
KEY CYL UN-SW [On/Off]	Unlock switch status received from door key cylinder switch
RKE-LOCK [On/Off]	Lock signal status received from remote keyless entry receiver
RKE-UNLOCK [On/Off]	Unlock signal status received from remote keyless entry receiver

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.

ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

INFOID:0000000011321145

ECU	Reference
BCM	BCS-40, "Reference Value"
	BCS-62, "Fail-safe"
	BCS-62, "DTC Inspection Priority Chart"
	BCS-63, "DTC Index"

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INTERIOR ROOM LAMP CONTROL SYSTEM

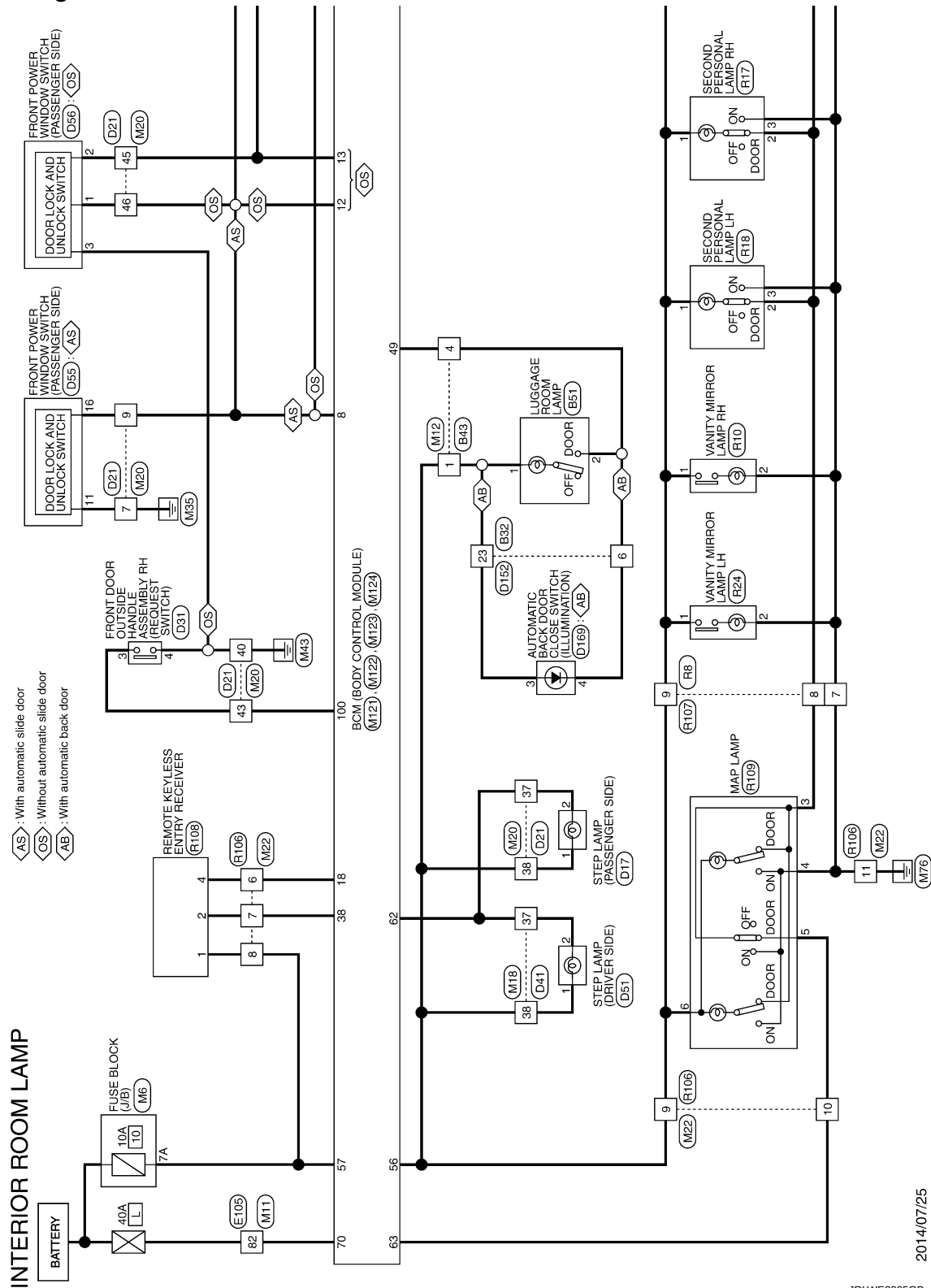
< WIRING DIAGRAM >

WIRING DIAGRAM

INTERIOR ROOM LAMP CONTROL SYSTEM

Wiring Diagram

INFOID:0000000011321146

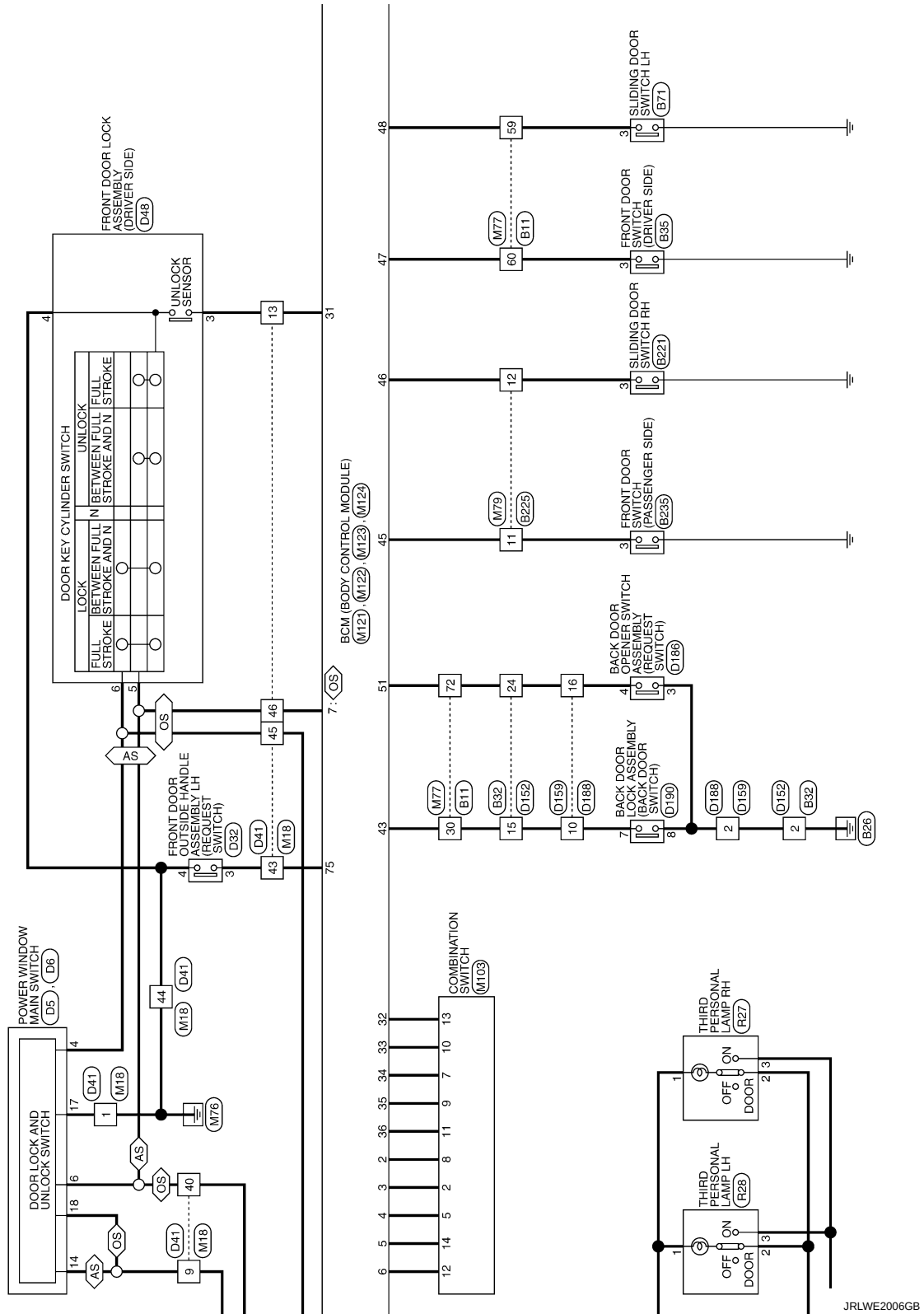


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INTERIOR ROOM LAMP CONTROL SYSTEM

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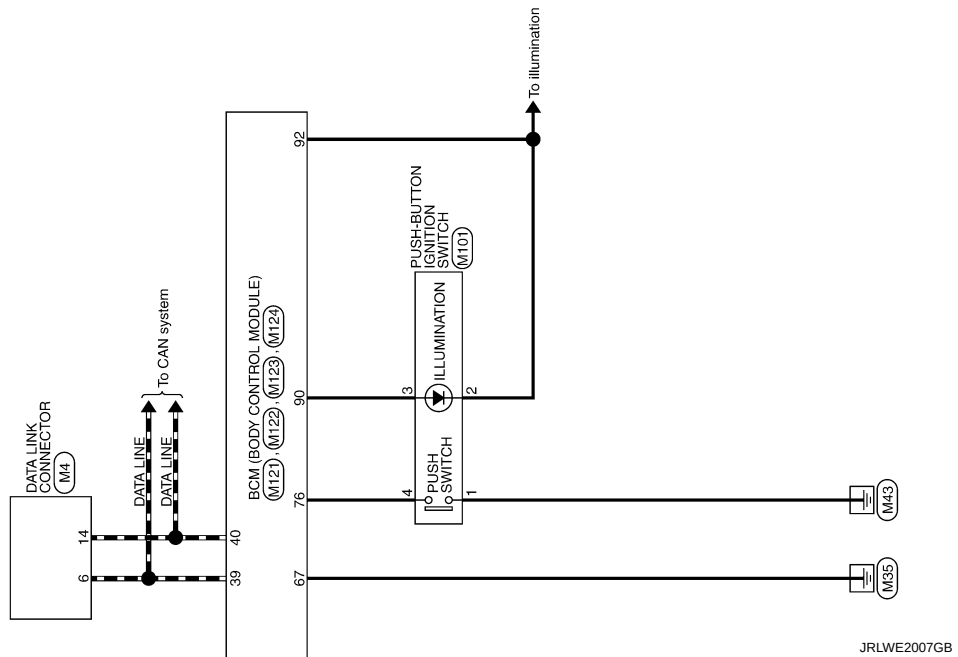


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INTERIOR ROOM LAMP CONTROL SYSTEM

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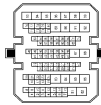


INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

INTERIOR ROOM LAMP

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS19



78	LG	-
79	BR	-
80	BR	-
81	SB	-
82	V	-
87	G	-
88	V	-
89	G	-
90	Y	-
91	LG	-
92	L	-

Terminal No.	Color Of Wire	Signal Name [Specification]
10	GR	-
11	G	-
12	P	-
13	L	-
15	L	-
29	GR	-
30	W	-
31	P	-
37	SHIELD	-
38	R	-
39	B	-
40	W	-
51	Y	-
52	B	-
53	G	-
54	P	-
55	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	-
71	GR	-
72	BR	-
74	L	-
75	SB	-
77	V	-

Connector No.	B12
Connector Name	WIRE TO WIRE
Connector Type	TH24MM-NH



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	B	-
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	-
22	P	-
23	G	-
24	BR	-

Connector No.	B15
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	NS28MW-CS



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



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

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INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

INTERIOR ROOM LAMP

Connector No.	B221
Connector Name	SLIDING DOOR SWITCH RH
Connector Type	TH40FW-NH



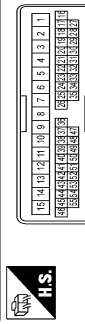
Connector No.	B235
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH40FW-NH



Connector No.	D6
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS03FW-CS

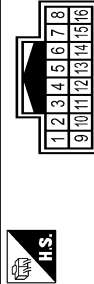


Connector No.	D21
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



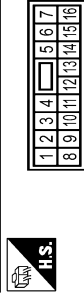
Terminal No.	3
Color Of Wire	GR
Signal Name [Specification]	-

Connector No.	B225
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH



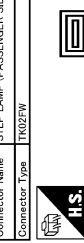
Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	D5
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS



Terminal No.	14
Color Of Wire	B
Signal Name [Specification]	-

Connector No.	D17
Connector Name	STEP LAMP (PASSENGER SIDE)
Connector Type	TK02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	Y	-
3	BR	- [With manual A/G]
4	BR	- [With auto A/G]
5	W	-
6	LG	-
7	LG	-
8	BR	-
9	W	-
10	LG	-
11	LG	-
12	BR	-
13	BR	-
14	R	- [Without BOSE system]
15	L	- [With BOSE system]
16	W	- [Without BOSE system]
17	P	- [With BOSE system]
18	R	-
19	W	-
20	R	-
21	R	-
22	B	-
23	W	-
24	SHIELD	-
25	Y	-
26	L	-
27	G	-
28	P	-
29	G	-
30	W	-
31	LG	-
32	B	-
33	GR	-
34	GR	-
35	G	-
36	G	-
37	G	-
38	W	-
39	LG	-
40	B	-
41	GR	-
42	G	-
43	G	-
44	G	-
45	G	-
46	GR	-
47	W	-
48	W	-
49	R	-
50	R	-
51	R	-
52	G	-
53	SHIELD	-
54	B	-

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

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

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

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55	W	-
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Connector No.	D31
Connector Name	FRONT DOOR OUTSIDE HANDLE ASSEMBLY RH
Connector Type	RH04MB



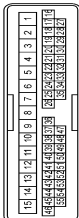
Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	G	-
3	R	-
4	B	-

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	R	-

Connector No.	D41
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



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

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

Connector No.	D48
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	E06FGY-RS



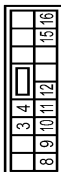
Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	LG	-
3	W	-
4	B	-
5	GR	-
6		

Connector No.	D51
Connector Name	STEP LAMP (DRIVER SIDE)
Connector Type	TK02FW



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

Connector No.	D55
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
3	GR	-
4	G	-
8	L	-
9	LG	-
10	V	-
11	B	-
12	P	-
15	R	-
16	W	-

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INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

INTERIOR ROOM LAMP

Connector No.	D158
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS12FW-CS



1	2	3
6	7	8
11	12	

15	P
16	O
17	L
18	GR
19	BR
20	O
21	LG
22	V
23	W
24	V



1	2	3	4
11	12	13	14

Connector No.	D159
Connector Name	AUTOMATIC BACK DOOR CLOSE SWITCH
Connector Type	TK06FY



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	-
2	GR	-
3	B	-
6	LG	-
7	L	-
8	V	-
11	LG	-
12	BR	-

Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH



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

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

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

Connector No.	D158
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TH0MMW-NH



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

Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS08FY-CS



1	2
4	5
6	7
8	

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	-

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	-

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

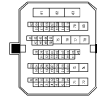
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INTERIOR ROOM LAMP CONTROL SYSTEM

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INTERIOR ROOM LAMP

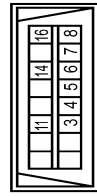
8	B	-
Connector No.	E 05	
Connector Name	WIRE TO WIRE	
Connector Type	TH70MWP-CSD-M3	



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	V	-
15	P	-
31	GR	-
32	V	-
37	BR	-
38	G	-
39	V	-
40	P	-
41	L	-
42	LG	-
43	O	-
45	P	-
46	SB	-
47	V	-
48	L	-
51	BR	-
52	G	-
53	B	-
54	O	-
55	Y	-
56	SHIELD	-

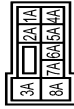
61	P	-
62	G	-
63	W/L	-
64	W/R	-
66	W	-
67	Y	-
69	R	-
71	R	-
72	L	-
73	GR	-
74	Y	-
75	SB	-
76	Y	-
77	G	-
78	O	-
79	R	-
80	G	-
81	L	-
82	LG	-
83	R	-

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



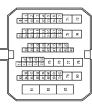
Terminal No.	Color Of Wire	Signal Name [Specification]
3	LG	-
4	GR	-
5	GR	-
6	L	-
7	R	-
8	G	-
11	SB	-
14	P	-
16	P	-

Connector No.	M6
Connector Name	FUSE BLOCK (J/B)
Connector Type	CS86FW-M2



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

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH70FW-CSD-M3



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

13	G	- [Without automatic drive positioner]
14	Y	- [With automatic drive positioner]
15	P	-
31	R	-
32	LG	-
37	BR	- [With automatic drive positioner]
37	W	- [Without automatic drive positioner]
38	R	-
39	BE	-
39	Y	- [Without automatic drive positioner]
40	P	-
41	L	-
42	G	-
43	W	-
44	R	-
46	V	-
47	R	-
49	G	-
51	G	-
52	W	-
53	B	-
54	LG	-
55	L	-
56	SHIELD	-
61	R	-
62	W	-
63	B	-
64	W	-
65	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	-

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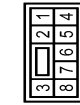
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INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

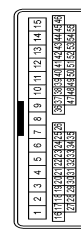
INTERIOR ROOM LAMP

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



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

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TH46MFW-CS15

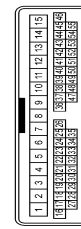


Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	R	-
3	W	-
4	Y	-
5	SB	-
6	LG	-
7	V	-
8	L	-
9	GR	-
10	Y	-
11	V	-

12	G	-
13	G	-
14	B	- [Without BOSE system]
15	W	- [With BOSE system]
16	Y	-
17	BE	-
18	P	-
19	W	-
20	LG	-
21	P	-
22	G	-
23	R	-
24	W	-
25	SHIELD	-
26	Y	-
27	X	-
28	G	-
29	W	-
30	R	-
31	W	-
32	G	-
33	BE	-
34	P	-
35	W	-
36	LG	-
37	W	-
38	V	-
39	Y	-
40	R	-
41	B	-
42	W	-
43	G	-
44	B	-
45	GR	- [With around view monitor]
46	R	- [Without around view monitor]
47	GR	-
48	GR	-
49	P	- [Without automatic drive positioner]
50	R	- [With automatic drive positioner]
51	GR	- [Without automatic drive positioner]
52	G	-
53	SHIELD	-

54	W	-
55	B	-

Connector No.	M20
Connector Name	WIRE TO WIRE
Connector Type	TH46MFW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
7	B	-
8	L	- [With manual A/C]
9	Y	- [With auto A/C]
10	LG	- [With manual A/C]
11	V	-
12	SB	-
13	V	-
14	L	-
15	B	- [Without BOSE system]
16	Y	- [With BOSE system]
17	G	-
18	P	-
19	LG	-
20	R	-
21	R	-
22	B	-
23	W	-
24	SHIELD	-
25	B	-
26	W	-
27	LG	-
28	W	-
29	Y	-
30	P	-
31	Y	-
32	R	-
33	BE	-
34	P	-
35	W	-
36	LG	-
37	W	-
38	V	-
39	Y	-
40	R	-
41	B	-
42	W	-
43	G	-
44	B	-
45	GR	- [With around view monitor]
46	R	- [Without around view monitor]
47	GR	-
48	GR	-
49	P	- [Without automatic drive positioner]
50	R	- [With automatic drive positioner]
51	GR	- [Without automatic drive positioner]
52	G	-
53	SHIELD	-

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

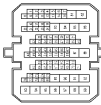
JRLWE2013GB

INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

INTERIOR ROOM LAMP

Connector No.	M177
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-CS19



Terminal No.	Color Of Wire	Signal Name [Specification]
10	P	-
11	BE	-
12	BE	-
13	W	-
14	R	-
15	R	-
29	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	R	-
55	L	-
57	Y	-
58	L	-
59	BE	-
60	G	-
61	LG	-
62	SB	-
63	BE	-
64	R	-
65	G	-
66	SHIELD	-
67	B	-
67	W	-
68	SHIELD	-
70	B	-
71	W	-
72	G	-
74	GR	-
75	G	-

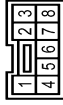
77	W	-
78	R	-
79	W	-
80	G	-
81	L	-
82	W	-
87	V	-
88	LG	-
89	GR	-
90	R	- [With automatic drive positioner]
90	Y	- [Without automatic drive positioner]
91	LG	-
92	BR	-

Connector No.	M179
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH



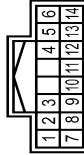
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	BR	-
3	B	-
4	P	-
5	BR	-
9	L	-
10	P	-
11	W	-
12	R	-
13	BE	-
14	W	-
15	G	-
16	P	-

Connector No.	M101
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TK08FB



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

13	R	INPUT 5
14	G	OUTPUT 2

Connector No.	M121
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH160EF-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 COMM (With auto A/C)
8	Y	KEY CYL LOCK SW (With manual A/C)
9	GR	STOP LAMP SW 1
12	GR	DOOR LK & UNLK SW LOCK
12	GR	DOOR LK & UNLK SW UNLOCK
14	BR	OPTICAL SENS
15	W	REAR WINDOW DEF SW
16	Y	DIMMER
17	O	SENS PWR SPLY
18	R	RECEIV/SENS GND
21	GR	NATS ANT AMP
23	W	SECURITY IND CONT
24	B	DONGLE LINK
25	P	NATS ANT AMP
27	O	A/C ON
28	BR	BLOWER FAN ON
29	P	HAZARD SW
30	L	BACK DOOR UNLK SW
31	GR	FRONT DOOR UNLK SW
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

JRLWE2014GB

INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

INTERIOR ROOM LAMP

38	BE	RECEIVER COMM
39	Y	CAN-L
40	P	CAN-L

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FB-FHA0-SA



43	44	45	46	47	48	49
50	51	53	54	55		

Terminal No.	Color Of Wire	Signal Name [Specification]
43	P	BK 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 REG SW
52	GR	REAR WIPER SW
53	BR	REAR WIPER OUTPUT
54	R	SL DOOR LH UNLK CONT
55	G	SL DOOR LH UNLK CONT

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA0-SA



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 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	CRANK REQ
65	V	ALL DOOR LOCK OUTPUT
66	G	DR DOOR UNLK OUTPUT
67	B	GROUND
68	L	PW PWR SPLY (IGN)
69	P	PW PWR SPLY (BAT)
70	L	BAT

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



71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112
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Terminal No.	Color Of Wire	Signal Name [Specification]
71	G	ON IND
72	G	DR DOOR REG SW
73	V	ELCH SW
74	B	DR DOOR ANTI+
75	W	DR DOOR ANTI+
76	GR	PASS DOOR ANTI+
77	BE	PASS DOOR ANTI+
78	G	REAR BMFR ANTI+
79	R	REAR BMFR ANTI+
80	GR	ROOM ANTI+
81	B	ROOM ANTI+
82	W	ROOM ANTI2+
83	BE	ROOM ANTI2+
84	GR	LUGGAGE ROOM ANTI+
85	GR	LUGGAGE ROOM ANTI+
86	P	PUSH-BTN IGN SW ILL PWR SPLY
87	W	LOCK IND
88	B	PUSH-BTN IGN SW ILL GND
89	R	F-KEY WARN BUZZER
90	BE	ACC RELAY CONT OUTPUT
91	W	STARTER RELAY CONT
92	P	IGN RELAY (IPDM E/R) CONT

Connector No.	R10
Connector Name	VANITY MIRROR LAMP RH
Connector Type	MCA02FW



1	2
---	---

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

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



3	1	2
---	---	---

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

JRLWE2015GB

INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

INTERIOR ROOM LAMP

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



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

Connector No.	R24
Connector Name	VANITY MIRROR LAMP LH
Connector Type	MCA02FW



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.	R106
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH



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

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

Connector No.	R107
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



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

7	B	-
9	L	-
9	SB	-
10	P	-
11	LG	-



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



Terminal No.	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	-

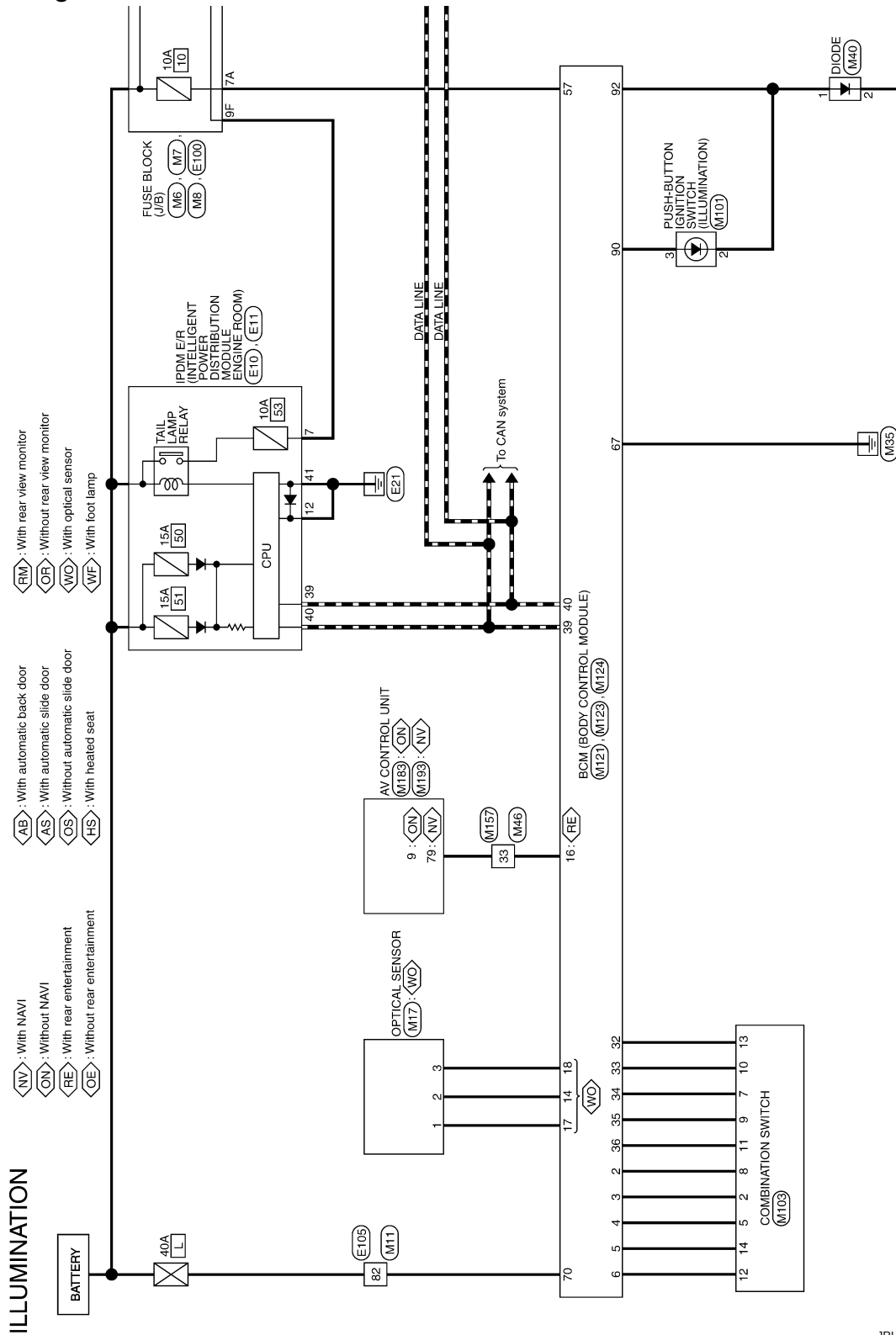
JRLWE2016GB

ILLUMINATION

< WIRING DIAGRAM >

ILLUMINATION

Wiring Diagram



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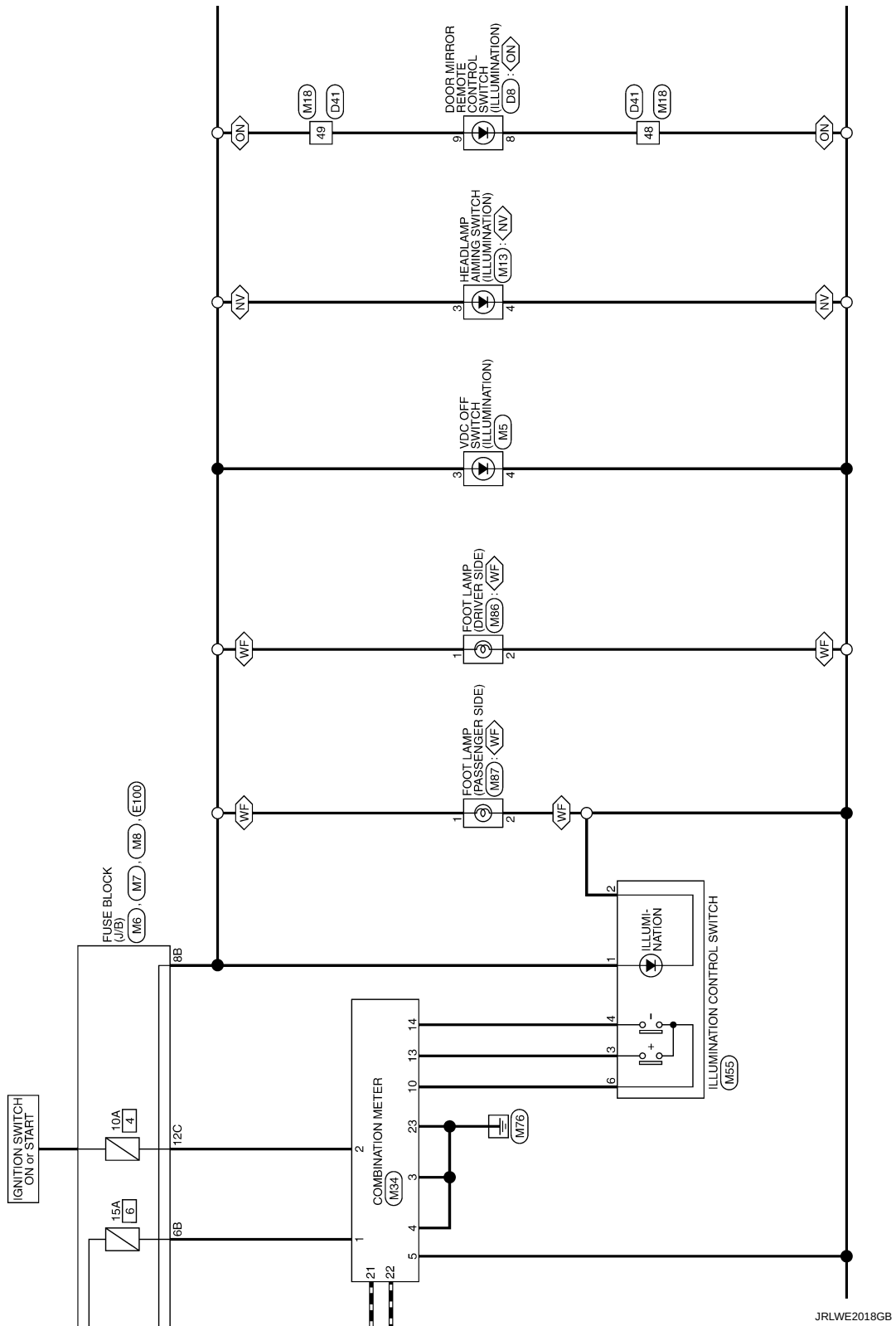
* : This connector is not shown in "Harness Layout".

2014/07/25

JRLWE2017GB

ILLUMINATION

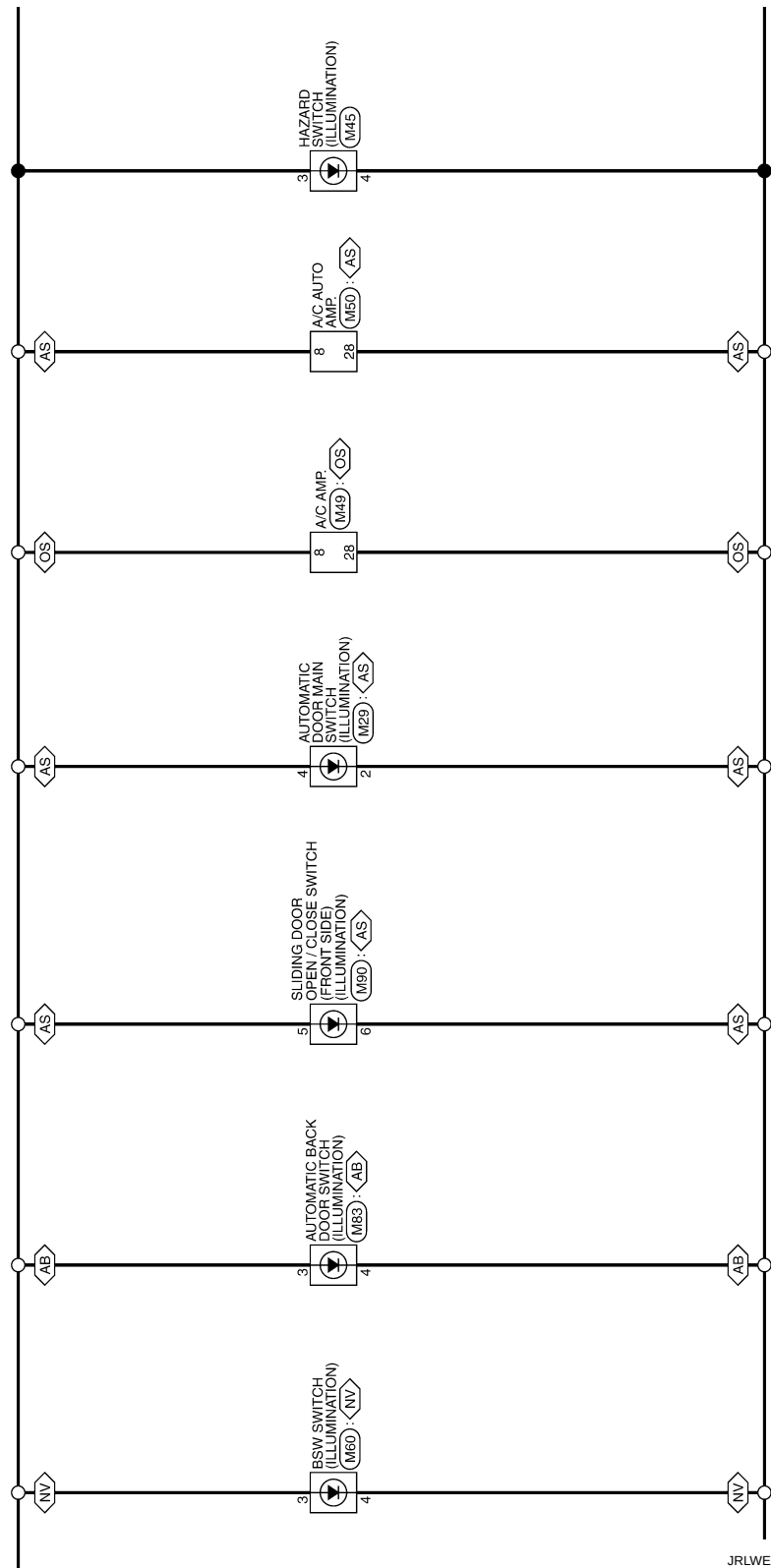
< WIRING DIAGRAM >



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ILLUMINATION

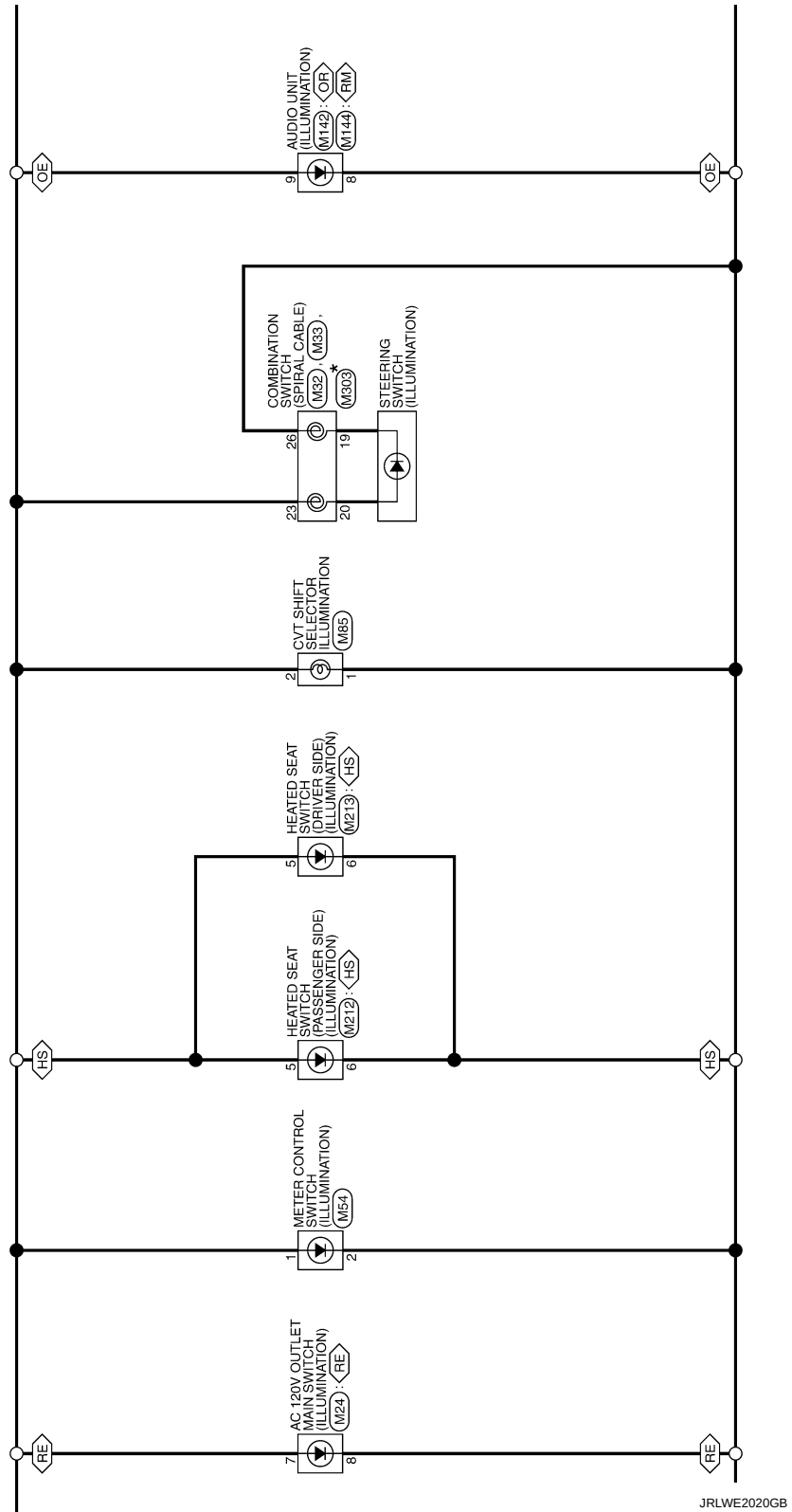
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ILLUMINATION

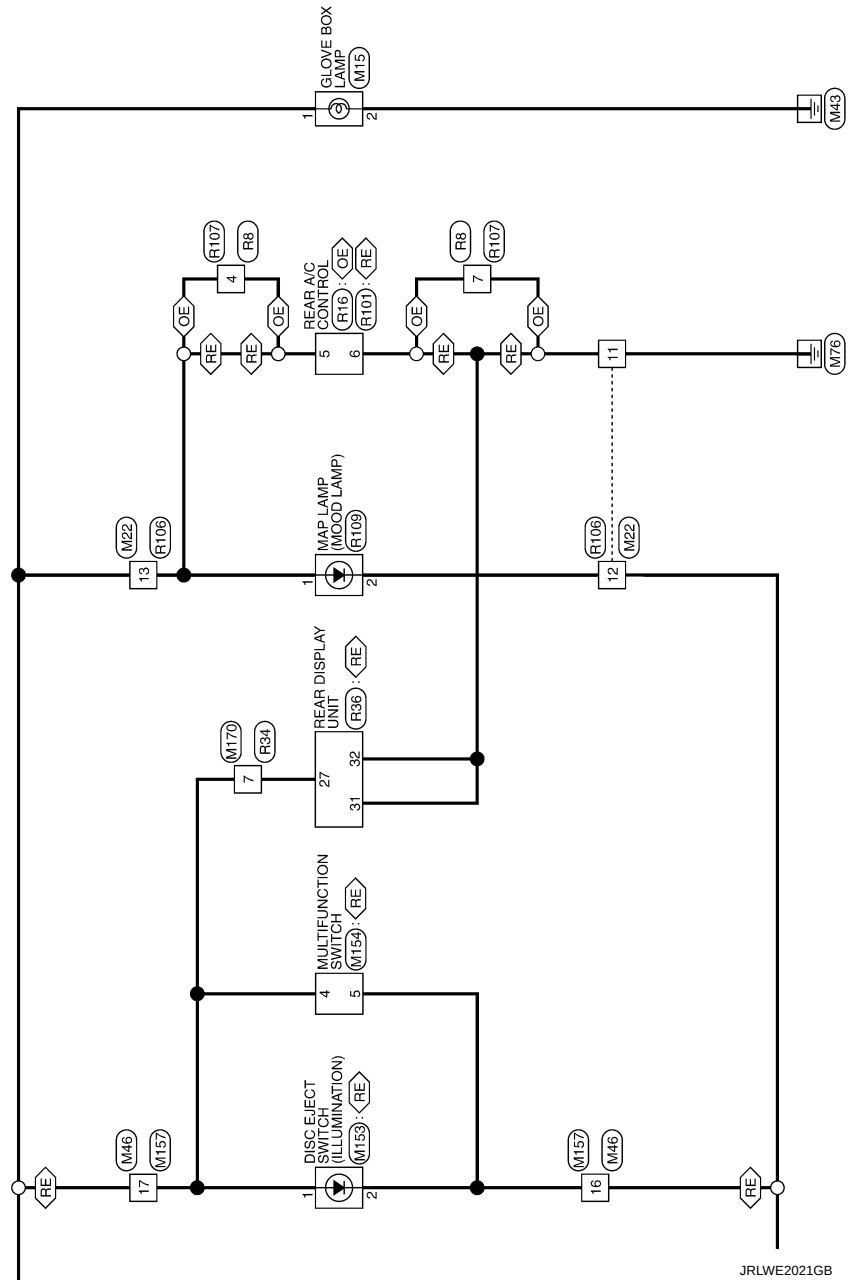
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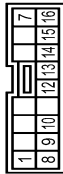
ILLUMINATION

< WIRING DIAGRAM >



ILLUMINATION

Connector No.	D8
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	TH16FW



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

Connector No.	D41
Connector Name	WIRE TO WIRE
Connector Type	TH40PW-CS13



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	V	-
3	SB	-
4	SB	-
5	BR	-
6	Y	-
7	Y	-
8	GR	-
9	G	- [With manual A/C]

Terminal No.	Color Of Wire	Signal Name [Specification]
9	R	- [With auto A/C]
10	Y	-
11	BR	-
12	LG	-
13	W	-
14	B	-
15	L	- [Without BOSE system]
16	W	- [With BOSE system]
17	R	-
18	G	-
19	P	-
20	W	-
21	GR	-
22	P	-
23	R	-
24	W	-
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	G	-
46	Y	- [Without around view monitor]
47	GR	- [With around view monitor]
48	L	-
49	GR	-
50	G	-
51	P	-
52	G	-

52	W	- [With automatic drive positioner]
53	SHIELD	-
54	-	-
55	W	-

Connector No.	E10
Connector Name	POWER IN INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	TH20FW-CS12-M4-1V



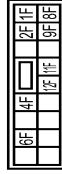
Terminal No.	Color Of Wire	Signal Name [Specification]
4	LG	-
5	Y	-
6	G	-
7	BR	-
10	P	-
12	B	-
13	G	-
15	L	-
16	R	-
18	R	-
19	V	-
20	W	-
21	O	-
22	SB	-
23	GR	-
24	G	-
25	GR	-
27	BR	-
28	G	-
30	LG	-
34	O	-
35	P	-
38	G	-

Connector No.	E11
Connector Name	POWER IN INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	TH40PW-NH



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

Connector No.	E100
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-CS



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

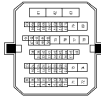
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ILLUMINATION

< WIRING DIAGRAM >

ILLUMINATION

Connector No.	E 03
Connector Name	WIRE TO WIRE
Connector Type	TH70MW-CS1D-M3



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

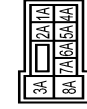
64	W/R	-
66	W	-
67	Y	-
69	R	-
71	R	-
72	L	-
73	GR	-
74	Y	-
75	SB	-
76	Y	-
77	G	-
78	O	-
80	R	-
81	L	-
82	G	-
83	R	-

Connector No.	M5
Connector Name	VDC OFF SWITCH
Connector Type	TH08FB-NH



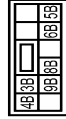
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	B	-
3	P	-
4	GR	-

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



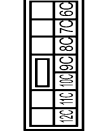
Terminal No.	Color Of Wire	Signal Name [Specification]
1A	G	-
2A	L	-
3A	GR	-
4A	V	-
5A	R	-
6A	Y	-
7A	GR	-
8A	L	-

Connector No.	M7
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
3B	V	-
4B	W	-
5B	GR	-
6B	O	-
7B	R	-
8B	G	-
9B	GR	-

Connector No.	M8
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-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	TH10FW-CS1C-M3



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

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ILLUMINATION

13	Y	- [With automatic drive positioner]
14	W	-
15	P	-
31	R	-
32	LG	-
37	BR	- [With automatic drive positioner]
38	R	- [Without automatic drive positioner]
39	BE	- [Without automatic drive positioner]
39	Y	- [With automatic drive positioner]
40	P	-
41	L	-
42	G	-
43	W	-
45	P	-
46	Y	-
49	R	-
49	G	-
51	G	-
52	W	-
53	B	-
54	LG	-
55	L	-
56	SHIELD	-
61	R	-
62	W	-
63	B	-
64	W	-
66	W	-
66	BR	-
69	R	-
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.	M13
Connector Name	HEADLAMP AIMING SWITCH
Connector Type	A04FW



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	A02FW



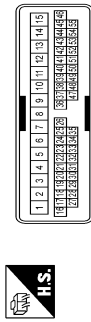
Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	B	-

Connector No.	M17
Connector Name	OPTICAL SENSOR
Connector Type	TK03FW



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

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TH04MW-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	W	-
12	G	-
13	G	-
14	B	- [Without BOSE system]
14	R	- [With BOSE system]
15	W	- [Without BOSE system]
15	Y	- [With BOSE system]

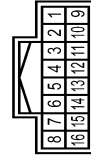
16	W	-
17	BE	-
18	W	-
19	W	-
20	LG	-
21	P	-
22	G	-
23	R	-
24	B	-
25	W	-
26	SHIELD	-
27	Y	-
28	G	-
29	W	-
30	R	-
31	Y	-
32	G	-
33	BE	-
34	P	-
35	W	-
36	LG	-
37	W	-
38	P	-
39	V	-
40	R	-
41	B	-
42	W	-
43	G	-
44	B	-
45	GR	- [With around view monitor]
45	GR	- [Without around view monitor]
46	R	- [With around view monitor]
46	W	- [Without around view monitor]
47	GR	-
48	GR	-
49	P	- [Without automatic drive positioner]
49	R	- [With automatic drive positioner]
50	GR	- [Without automatic drive positioner]
50	W	- [With automatic drive positioner]
51	B	- [Without automatic drive positioner]
51	G	- [With automatic drive positioner]
52	GR	- [Without automatic drive positioner]
52	P	- [With automatic drive positioner]
53	SHIELD	-
54	W	-
55	B	-

ILLUMINATION

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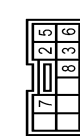
ILLUMINATION

Connector No.	M22
Connector Name	WIRE TO WIRE
Connector Type	TH1BFW-NH



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

Connector No.	8
Connector Name	-
Connector Type	-



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	TK0BFY-EX-IV



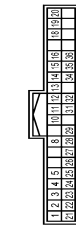
Terminal No.	Color Of Wire	Signal Name [Specification]
23	P	-
28	G	-
29	V	-
30	Y	-

Connector No.	M33
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK0BFY-IV



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

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	O	BATTERY POWER SUPPLY (With automatic drive position)
1	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
5	B	ILLUMINATION CONTROL SIGNAL (With automatic drive position)
5	BP	ILLUMINATION CONTROL SIGNAL (Without automatic drive position)
8	G	TRIP RESET SWITCH SIGNAL (Without automatic drive position)
8	SB	TRIP RESET SWITCH SIGNAL (With automatic drive position)
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	SELECT SWITCH SIGNAL (With automatic drive position)
13	V	ILLUMINATION CONTROL SIGNAL (Without automatic drive position)
14	G	ILLUMINATION CONTROL SIGNAL (With automatic drive position)
14	V	ILLUMINATION CONTROL SIGNAL (Without automatic drive position)
15	BR	AIR BAG SIGNAL
16	L	ENGINE COOLANT TEMPERATURE SIGNAL
18	L	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	FUEL LEVEL SENSOR GROUND
25	BR	ALTERNATOR SIGNAL (Without automatic drive position)
25	W	ALTERNATOR SIGNAL (With automatic drive position)
26	BR	PARKING BRAKE SWITCH SIGNAL
27	BE	BRAKE CLUTCH LEVEL SWITCH SIGNAL (Without automatic drive position)
27	Y	BRAKE CLUTCH LEVEL SWITCH SIGNAL (With automatic drive position)
28	V	SECURITY SIGNAL
29	G	WASHER LEVEL SWITCH SIGNAL
31	SB	VEHICLE SPEED SIGNAL (8-PULSE)
32	P	OVERDRIVE CONTROL SWITCH SIGNAL
34	O	FUEL LEVEL SENSOR SIGNAL
35	BR	DATA BUS SIGNAL (Without automatic drive position)
35	P	DATA BUS SIGNAL (With automatic drive position)
38	BR	PASSENGER SEAT BELT WARNING SIGNAL

Connector No.	M40
Connector Name	DIODE
Connector Type	Z4335 09602



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

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ILLUMINATION

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ILLUMINATION

Connector No.	M45
Connector Name	HAZARD SWITCH
Connector Type	TH40FW-NH



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

Connector No.	M46
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-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	R	-
13	G	-
14	LG	-
15	SB	-
16	GR	-
17	P	-

18	GR	-
19	G	-
20	Y	-
21	GR	-
23	B/W	-
24	B	-
25	SHIELD	-
26	GR	-
27	B	-
28	W	-
30	LG	-
31	SB	-
33	P	-
34	LG	-
35	R	-
36	L	-
38	BE	-
39	LG	-
40	SB	-

Connector No.	M49
Connector Name	A/C AMP.
Connector Type	TH40FW-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/B SIGNAL
8	P	ILLUMINATION POWER SUPPLY
9	GR	ACC POWER SUPPLY
10	R	REAR WINDOW DEFOGGER ON 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

28	GR	ILLUMINATION GROUND
29	G	REAR WINDOW DEFOGGER ON SIGNAL
32	G	COMM. A/C AUTO AMP. (R/C AUTO AMP.)
33	W	COMM. BR. 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	TH40FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	+B
2	G	IGNITION POWER SUPPLY
4	SB	DOOR MOTOR POWER SUPPLY
5	BR	LAN SIGNAL
7	R	REAR WINDOW DEFOGGER F/B SIGNAL
8	P	ILLUMINATION POWER SUPPLY
9	GR	ACC POWER SUPPLY
10	R	REAR WINDOW DEFOGGER ON SIGNAL
12	BE	BLOWER FAN ON SIGNAL
13	G	A/C ON SIGNAL
15	GR	IGNIZER ON/OFF CONTROL SIGNAL
17	G	ENGINE COOLANT TEMPERATURE SIGNAL
18	W	SUNLOAD SENSOR SIGNAL
19	P	FRONT IN-VEHICLE SENSOR SIGNAL
20	R	A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL
21	B	GROUND
23	B	VEHICLE SPEED SIGNAL
24	BE	REAR WINDOW DEFOGGER ON SIGNAL
27	BE	ILLUMINATION GROUND
28	GR	REAR WINDOW DEFOGGER ON SIGNAL
29	R	REAR WINDOW DEFOGGER ON SIGNAL
30	R	REAR WINDOW DEFOGGER ON SIGNAL
33	W	COMM. BR. A/C CONT. (A/C AUTO AMP.)
36	R	EXT. GAS INSIDE DOOR EFFECTIVE 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	TH40MW-NH



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

Connector No.	M55
Connector Name	ILLUMINATION CONTROL SWITCH
Connector Type	TH40MW-NH



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

ILLUMINATION

Connector No.	M80
Connector Name	BSW SWITCH
Connector Type	TH08EL-NH



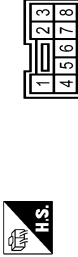
Connector No.	M85
Connector Name	CVT SHIFT SELECTOR ILLUMINATION
Connector Type	TH02FBR



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



Connector No.	M101
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TH08FBR



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	TH08FOY-NH



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	GR	-
2	GR	-

Connector No.	M80
Connector Name	SLIDING DOOR OPEN / CLOSE SWITCH (FRONT SIDE)
Connector Type	TH12FGY-NH



Connector No.	M103
Connector Name	COMBINATION SWITCH
Connector Type	TH16FW-NH



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

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

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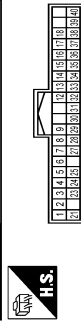
ILLUMINATION

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ILLUMINATION

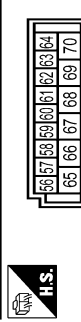
13	R	INPUT 5
14	G	OUTPUT 2

Connector No.	M121
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH46PE-NH



38	BE	RECEIVER COM1
39	L	COM1
40	P	COM1

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA9BFW-FHAE-SA

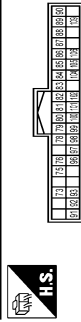


Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	REAR WINDOW DEF RELAY CONT
2	R	COMBI SW INPUT 5
3	G	COMBI SW INPUT 4
4	BE	COMBI SW INPUT 3
5	G	COMBI SW INPUT 2
6	W	COMBI SW INPUT 1
7	W	KEY CYL UNLOCK SW
8	GR	PW SW COMM [With auto A/C]
8	Y	KEY CYL LOCK SW [With manual A/C]
9	GR	STOP LAMP SW 1
12	GR	DOOR LK & UNLK SW LOCK
13	GR	DOOR LK & UNLK SW UNLOCK
14	BR	OPTICAL SENS
15	W	REAR WINDOW DEF SW
16	Y	DIMMER
17	O	SENS PWR SPLY
18	R	RECEIV/SENS GND
21	GR	NATS ANT AMP
23	W	SECURITY IND CONT
24	B	DONGLE LINK
25	P	NATS ANT AMP
27	O	A/C ON
28	BR	BLOWER FAN ON
29	P	HAZARD SW
30	L	FR DOOR PWR SW
31	G	FR DOOR UNLK SW
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

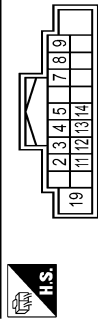
Terminal No.	Color Of Wire	Signal Name [Specification]
56	P	INT ROOM LAMP PWR SPLY
57	Y	BAT
58	O	AIR BAG
59	SB	PASS DOOR UNLK OUTPUT
60	V	TURN SIG LH OUTPUT
61	G	TURN SIG RH OUTPUT
62	W	STEP LAMP CONT
63	R	INT ROOM LAMP CONT
64	W	CRANK REQ
65	Y	ALL DOOR LOCK OUTPUT
66	G	DR DOOR LOCK
67	B	DR DOOR GROUND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

Terminal No.	Color Of Wire	Signal Name [Specification]
72	G	ON IND
73	GR	DR DOOR LK SW
74	Y	PUSH SW
75	B	DR DOOR ANT+
76	W	DR DOOR ANT-
79	GR	PASS DOOR ANT+
80	GR	PASS DOOR ANT-
81	BE	REAR BMPR ANT+
82	G	REAR BMPR ANT-
83	R	REAR BMPR ANT+
84	GR	ROOM ANT+
85	B	ROOM ANT-
86	W	ROOM ANT2+
87	BE	ROOM ANT2-
88	GR	Luggage ROOM ANT+
89	B	Luggage ROOM ANT-
90	W	PUSH BTN LK SW
91	W	LOCK IND
92	B	PUSH-STM LK SW ILL GND
93	R	F-KEY WARN BUZZER
96	BE	ACC RELAY CONT OUTPUT
97	W	STARTER RELAY CONT
99	P	IGN RELAY (PDM E/R) CONT
99	G	IGN RELAY (F/B) CONT OUTPUT
100	R	PASS DOOR REQ SW
101	R	IGN PWR SPLY 2
102	P	P/N POSITION
104	L	CVT SHIFT SELECT PWR SPLY
105	R	STOP LAMP SW 2
106	O	BLWR RELAY CONT OUTPUT
109	R	ACC IND

Connector No.	M124
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH46PW-NH

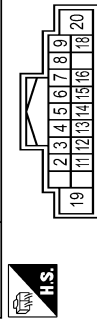


Connector No.	M142
Connector Name	AUDIO UNIT
Connector Type	NH18PW-CSS



Terminal No.	Color Of Wire	Signal Name [Specification]
2	Y	SOUND SIGNAL FRONT SPEAKER LH (+)
3	Y	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	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-CSS



Terminal No.	Color Of Wire	Signal Name [Specification]
2	Y	SOUND SIGNAL FRONT SPEAKER LH (+)
3	Y	SOUND SIGNAL FRONT SPEAKER LH (-)
4	SB	SOUND SIGNAL SLIDE DOOR SPEAKER LH (+)
5	LG	SOUND SIGNAL SLIDE DOOR SPEAKER LH (-)
6	G	STRG SW A
7	G	IG
8	B	ILLUMINATION CONTROL SIGNAL (-)
9	P	ILLUMINATION CONTROL SIGNAL (+)

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ILLUMINATION

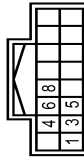
1	B	SOUND SIGNAL FRONT SPEAKER RH (+)
12	P	SOUND SIGNAL FRONT SPEAKER RH (-)
13	P	SOUND SIGNAL SLIDE DOOR SPEAKER RH (+)
14	L	SOUND SIGNAL SLIDE DOOR SPEAKER RH (-)
15	GR	STRG SW GND
16	P	STRG SW B
18	BE	VEHICLE SPEED (G-PULSE)
19	Y	BATTERY
20	B	GROUND

Connector No.	M153
Connector Name	DISC EJECT SWITCH
Connector Type	JAB84FB



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

Connector No.	M154
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH18FW-NH



Terminal No.	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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Connector No.	M157
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-NH



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

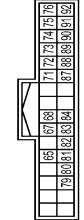
38	P	-
39	L	-
40	V	-

Connector No.	M170
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



Terminal No.	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	B	-
15	W	-
16	B	-
17	B	-
18	SHIELD	-
19	W	-
20	B	-
21	SHIELD	-

Connector No.	M193
Connector Name	AV CONTROL UNIT
Connector Type	TH32FW-NH



Terminal No.	Wire	Signal Name [Specification]
65	R	PARKING BRAKE
67	W	COMPOSITE IMAGE SIGNAL GND
68	R	COMPOSITE IMAGE SIGNAL
71	SHIELD	SHIELD
72	W	MICROPHONE VCC

Connector No.	M193
Connector Name	AV CONTROL UNIT
Connector Type	NH18FW-CS2



Terminal No.	Color Of Wire	Signal Name [Specification]
2	LG	SOUND SIGNAL FRONT SPEAKER LH (+)
4	V	SOUND SIGNAL FRONT SPEAKER LH (-)
5	L	SOUND SIGNAL SLIDE DOOR SPEAKER LH (+)
6	BE	SOUND SIGNAL SLIDE DOOR SPEAKER LH (-)
7	O	ACC
9	BE	MR OUTPUT
11	L	SOUND SIGNAL FRONT SPEAKER RH (+)
12	B	SOUND SIGNAL FRONT SPEAKER RH (-)
13	BR	SOUND SIGNAL SLIDE DOOR SPEAKER RH (+)
14	SB	SOUND SIGNAL SLIDE DOOR SPEAKER RH (-)
15	W	STRG SW GND
16	P	STRG SW B
19	SB	BATTERY
20	B	GROUND

ILLUMINATION

73	B	COMM (CONT-2DISP)
74	LG	AV COMM (L)
75	LG	AV COMM (L)
76	LG	AV COMM (L)
78	LG	AV COMM (L)
79	BE	MR OUTPUT
80	G	IGNITION
81	W	REVERSE
82	P	VEHICLE SPEED SIGNAL (8-PULSE)
83	SHIELD	SHIELD
84	B	COMPOSITE IMAGE SYNC
87	B	MICROPHONE SIGNAL
88	SHIELD	SHIELD
89	W	COMM (DISP->CONT)
90	L	CAN-H
91	SB	AV COMM (H)
92	V	AV COMM (H)

Connector No.	M212
Connector Name	HEATED SEAT SWITCH (PASSENGER SIDE)
Connector Type	NSMFER-C5



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	NSMFER-C5



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

Connector No.	M203
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TTOBF6Y



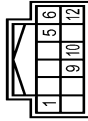
Terminal No.	Color Of Wire	Signal Name [Specification]
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-

Connector No.	R8
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/G]
3	V	- [With auto A/G]
4	R	- [With manual A/G]
7	B	-
8	O	-
9	P	-
10	V	-
11	BR	-

Connector No.	R16
Connector Name	REAR A/G CONTROL
Connector Type	TH12FW-NH



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

Connector No.	R14
Connector Name	WIRE TO WIRE
Connector Type	TH124MW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
4	GR	-
5	GR	-
6	LG	-
7	SB	-
8	B	-
9	W	-
10	SHIELD	-
11	B	-
12	W	-
13	SHIELD	-
14	B	-
15	W	-
16	L/O	-
17	W/L	-
18	SHIELD	-
19	BN	-
20	BN	-
21	SHIELD	-

Connector No.	R3B
Connector Name	REAR DISPLAY UNIT
Connector Type	TH12FW-NH



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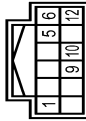
ILLUMINATION

< WIRING DIAGRAM >

ILLUMINATION

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W/L	HEADPHONE SOUND SIGNAL RH (-)
2	L/O	HEADPHONE SOUND SIGNAL RH (+)
3	W	HEADPHONE SOUND SIGNAL LH (-)
4	B	HEADPHONE SOUND SIGNAL LH (+)
5	SHIELD	SHIELD
6	SHIELD	SHIELD
7	B	COMPOSITE IMAGE SIGNAL
8	W	COMPOSITE IMAGE SIGNAL GND
18	SHIELD	SHIELD
19	W	AV COMM (L)
20	Y	AV COMM (L)
21	B	AV COMM (H)
22	BR	AV COMM (H)
26	LG	IGN
27	SB	ILL
28	V	ACC
29	GR	+B
30	GR	+B
31	B	GROUND
32	B	GROUND

Connector No.	R101
Connector Name	REAR A/C CONTROL
Connector Type	TH12FW-NH



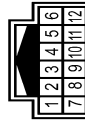
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
5	Y	ILL+
6	B	ILL-
9	LG	RX
10	SB	RX
12	B	IGN [Without automatic drive actuator] IGN [With automatic drive actuator]

Connector No.	R106
Connector Name	WIRE TO WIRE
Connector Type	TH18MW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	--
2	SB	--
3	P	-- [For Rear Display Unit without auto recirculation] -- [Except 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	--
14	B	--
15	SHIELD	--
16	W	--

Connector No.	R107
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-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.	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	--

JRLWE2031GB

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

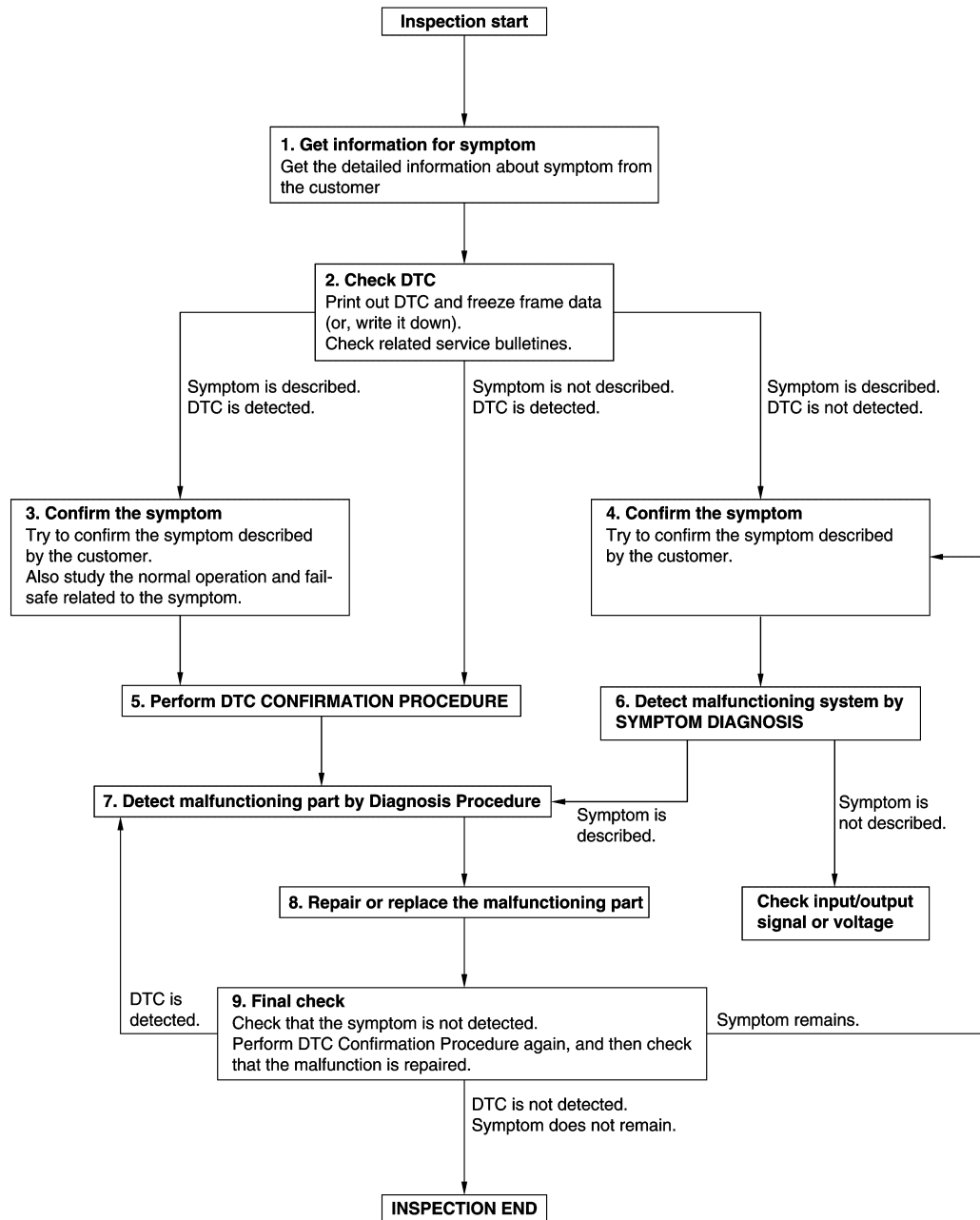
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:0000000011321148

OVERALL SEQUENCE



DETAILED FLOW

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

1.GET INFORMATION FOR SYMPTOM

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

>> GO TO 2.

2.CHECK DTC

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

Are any symptoms described and any DTC detected?

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

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

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

3.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

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

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

>> GO TO 5.

4.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

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

>> GO TO 6.

5.PERFORM DTC CONFIRMATION PROCEDURE

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

NOTE:

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

Is DTC detected?

YES >> GO TO 7.

NO >> Check according to [GI-42. "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-42. "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:0000000011321149

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-56, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000011321150

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	
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-98, "Removal and Installation"](#).

NO >> Repair or replace harnesses.

INL

INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL CIRCUIT

Component Function Check

INFOID:0000000011321151

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-58, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000011321152

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				
M123	63		INT LAMP	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-98, "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	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-98, "Removal and Installation"](#).

NO >> Repair or replace harnesses.

INL

LUGGAGE ROOM LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

LUGGAGE ROOM LAMP CIRCUIT

Description

INFOID:0000000011321153

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:0000000011321154

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

Is the inspection result normal?

YES >> GO TO 2.

Fixed ON>>GO TO 3.

Fixed OFF>>Replace BCM. Refer to [BCS-98, "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		
M122	49		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-98, "Removal and Installation"](#).

LUGGAGE ROOM LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harnesses.

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STEP LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

STEP LAMP CIRCUIT

Component Function Check

INFOID:0000000011321155

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-62, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000011321156

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				
M123	62		STEP LAMP TEST	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-98, "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-98, "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:0000000011321157

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-64, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000011321158

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

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

(+)		(-)	Condition		Voltage (Approx.)
Push-button ignition switch					
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-98, "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-98. "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.

INL

INTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

INFOID:0000000011321159

CAUTION:

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

Symptom	Possible cause	Inspection item
All the following lamps do not turn ON. • Map lamp • Personal lamp • Vanity mirror lamp • Step lamp • Luggage room lamp • Automatic back door close switch illumination	• Harness between BCM and each interior room lamp • BCM	Interior room lamp power supply circuit Refer to INL-56, "Component Function Check" .
• Interior room lamp does not turn ON even though the door is open. (It turns ON when turning the interior room lamp ON.) • Interior room lamp does not turn OFF even though the door is closed.	• Harness between BCM and each door switch • Harness between BCM and each interior room lamp • BCM	Door switch circuit Refer to DLK-241, "Component Function Check" . Interior room lamp control circuit Refer to INL-58, "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 INL-21 .
Luggage room lamp or automatic back door close switch illumination does not turn ON even though the back door is open.	• Harness between BCM and back door switch • Harness between BCM and luggage room lamp • Harness between BCM and automatic back door close switch • BCM	Back door switch circuit Refer to DLK-243, "Component Function Check" . Luggage room lamp circuit Refer to INL-60, "Diagnosis Procedure" .
Step lamps (ALL) do not turn ON.	• Harness between BCM and each step lamp • BCM	Door switch circuit Refer to DLK-241, "Component Function Check" . Step lamp circuit Refer to INL-62 .
Push-button ignition switch illumination does not illuminate.	• Harness between BCM and push-button ignition switch • BCM	Push-button ignition switch illumination circuit Refer to INL-64, "Component Function Check" .
Interior room lamp battery saver does not activate.	BCM	Replace BCM. Refer to BCS-98, "Removal and Installation" .

MAP LAMP

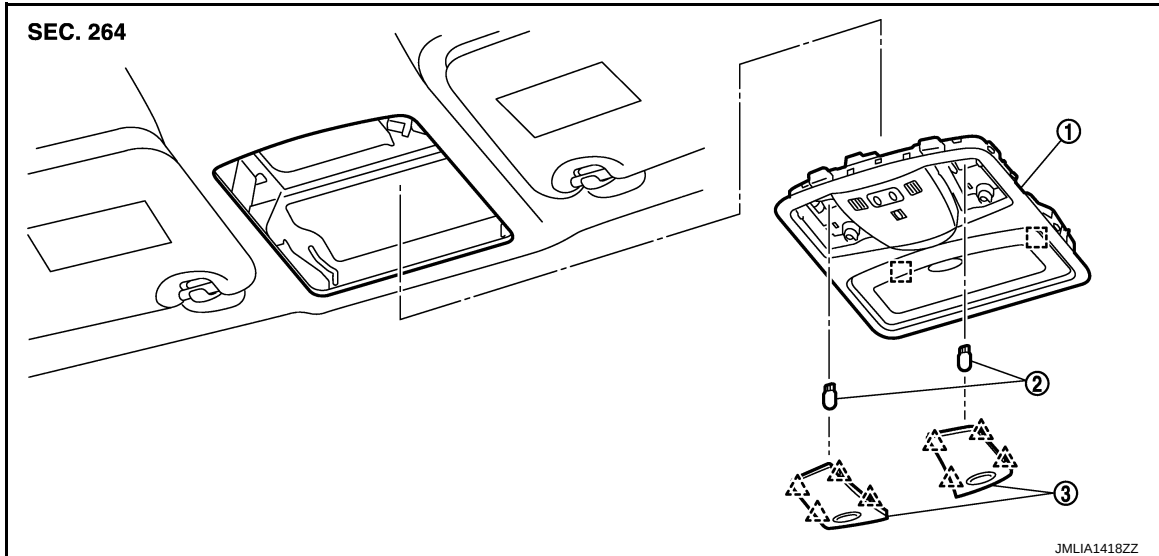
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

MAP LAMP

Exploded View

INFOID:0000000011321160



1. Map lamp assembly

2. Bulb

3. Lens

△ : Pawl

□ : Metal clip

Removal and Installation

INFOID:0000000011321161

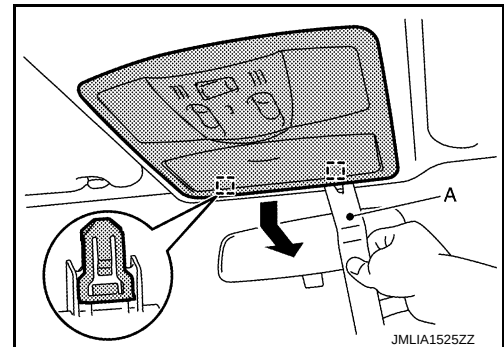
CAUTION:

Disconnect the battery negative terminal or remove power circuit fuse while performing the operation to 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:0000000011321162

CAUTION:

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

MAP LAMP

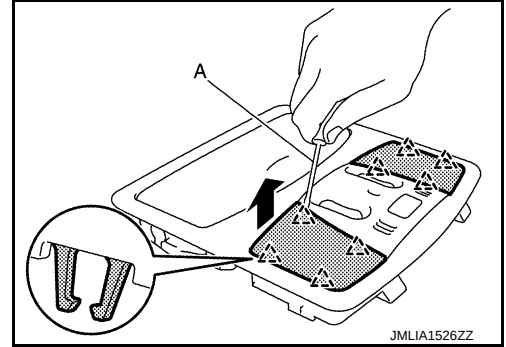
< REMOVAL AND INSTALLATION >

- **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.

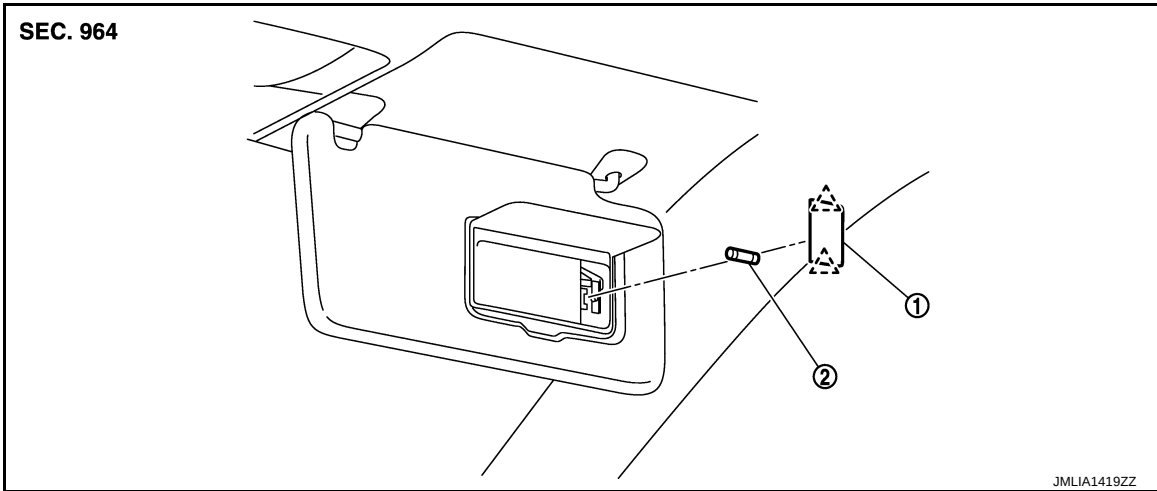
VANITY MIRROR LAMP

< REMOVAL AND INSTALLATION >

VANITY MIRROR LAMP

Exploded View

INFOID:0000000011321163



1. Lens

2. Bulb

△ : Pawl

Replacement

INFOID:0000000011321164

CAUTION:

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

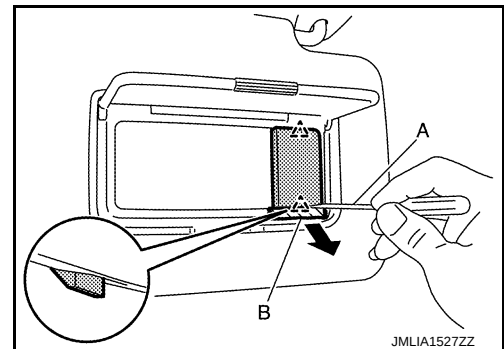
VANITY MIRROR LAMP

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.

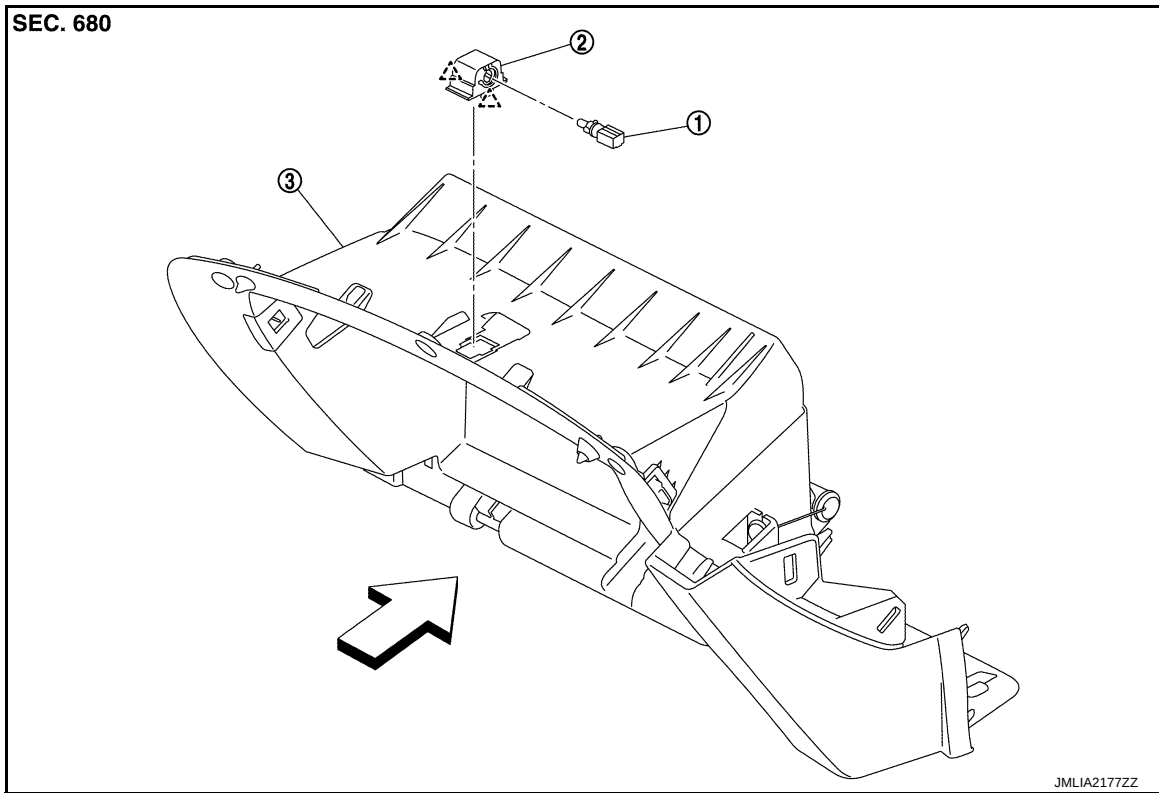
GLOVE BOX LAMP

< REMOVAL AND INSTALLATION >

GLOVE BOX LAMP

Exploded View

INFOID:0000000011321165



1. Bulb & socket assembly

2. Lamp housing

3. Instrument lower panel RH

△ : Pawl

⇨ : Vehicle front

Replacement

INFOID:0000000011321166

CAUTION:

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

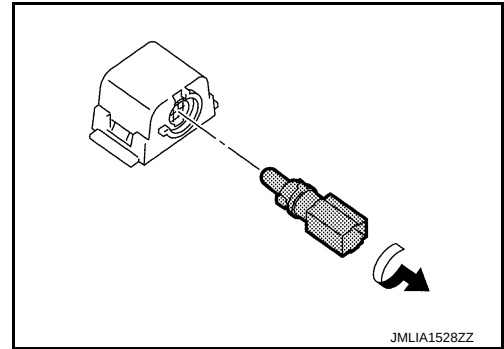
GLOVE BOX LAMP BULB

1. Remove Instrument lower 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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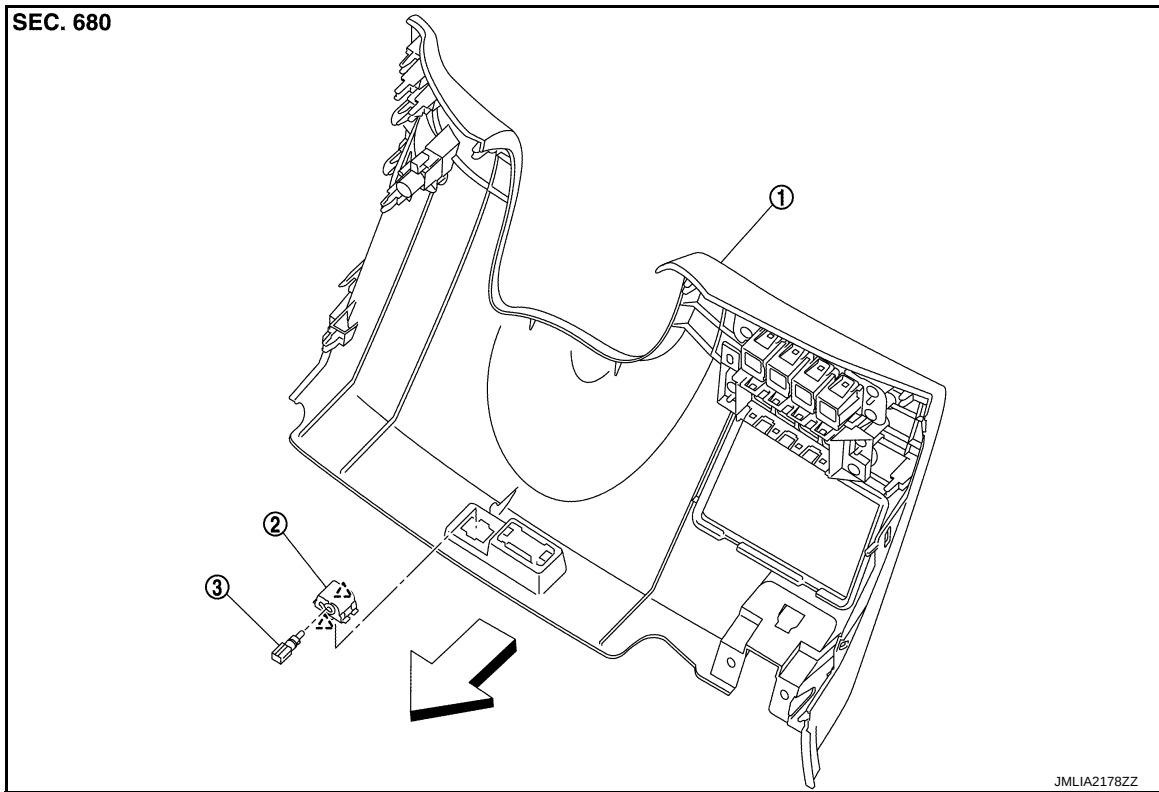
FOOT LAMP

< REMOVAL AND INSTALLATION >

FOOT LAMP DRIVER SIDE

DRIVER SIDE : Exploded View

INFOID:0000000011321167



1. Instrument lower panel LH

2. Lamp housing

3. Bulb & socket assembly

 : Pawl

 : Vehicle front

DRIVER SIDE : Replacement

INFOID:0000000011321168

CAUTION:

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

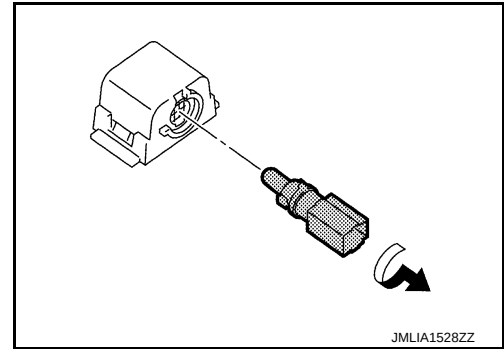
FOOT LAMP BULB (DRIVER SIDE)

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

FOOT LAMP

< REMOVAL AND INSTALLATION >

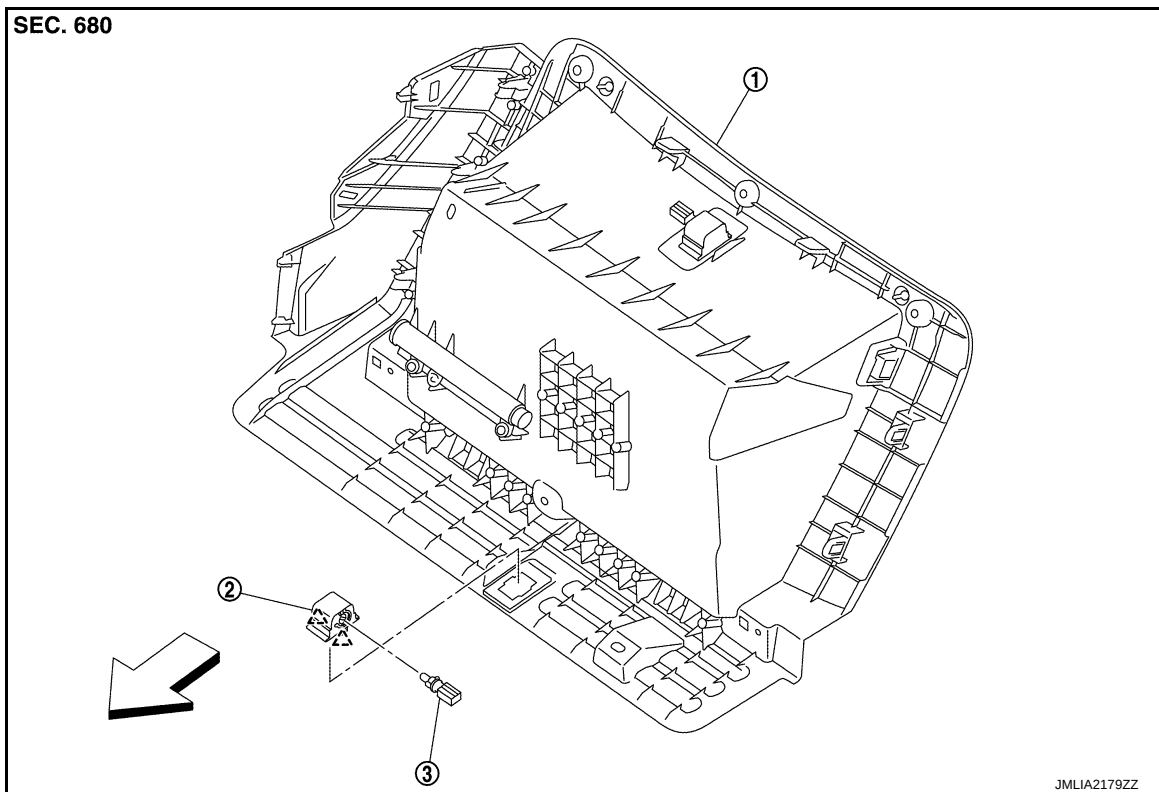
2. Rotate the bulb & socket assembly counterclockwise and unlock it and then remove bulb & socket assembly.



PASSENGER SIDE

PASSENGER SIDE : Exploded View

INFOID:0000000011321169



1. Instrument lower panel RH

2. Lamp housing

3. Bulb & socket assembly

△ : Pawl

⇨ : Vehicle front

PASSENGER SIDE : Replacement

INFOID:0000000011321170

CAUTION:

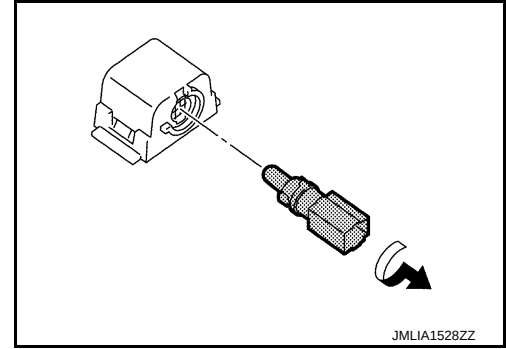
- Disconnect the battery negative terminal or remove power circuit fuse while performing the operation to electric leakage.
- Never touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Never touch the glass surface of the bulb with bare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

FOOT LAMP BULB (PASSENGER SIDE)

FOOT LAMP

< REMOVAL AND INSTALLATION >

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.



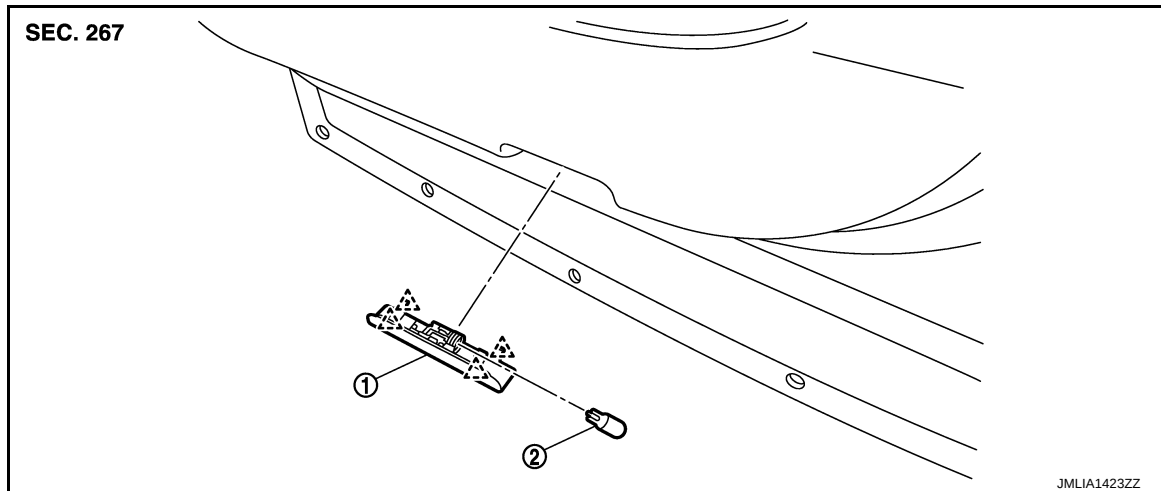
STEP LAMP

< REMOVAL AND INSTALLATION >

STEP LAMP

Exploded View

INFOID:0000000011321171



1. Step lamp assembly

2. Bulb

△ : Pawl

Removal and Installation

INFOID:0000000011321172

CAUTION:

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

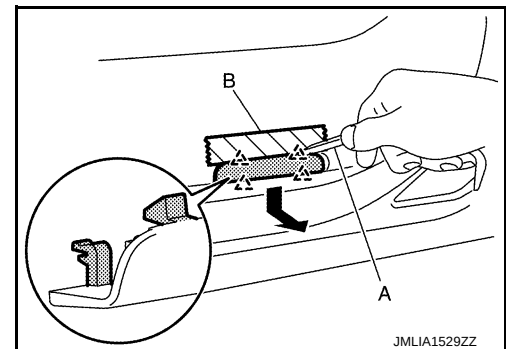
REMOVAL

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:0000000011321173

CAUTION:

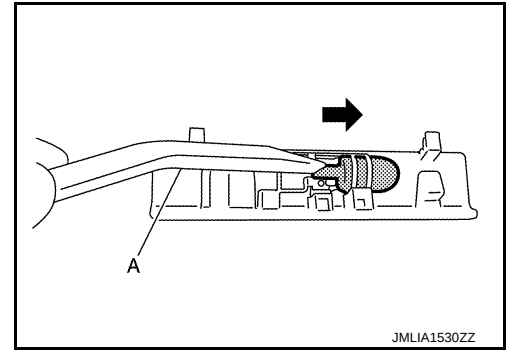
- Disconnect the battery negative terminal or remove power circuit fuse while performing the operation to electric leakage.
- Never touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Never touch the glass surface of the bulb with bare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

STEP LAMP

< REMOVAL AND INSTALLATION >

STEP LAMP BULB

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



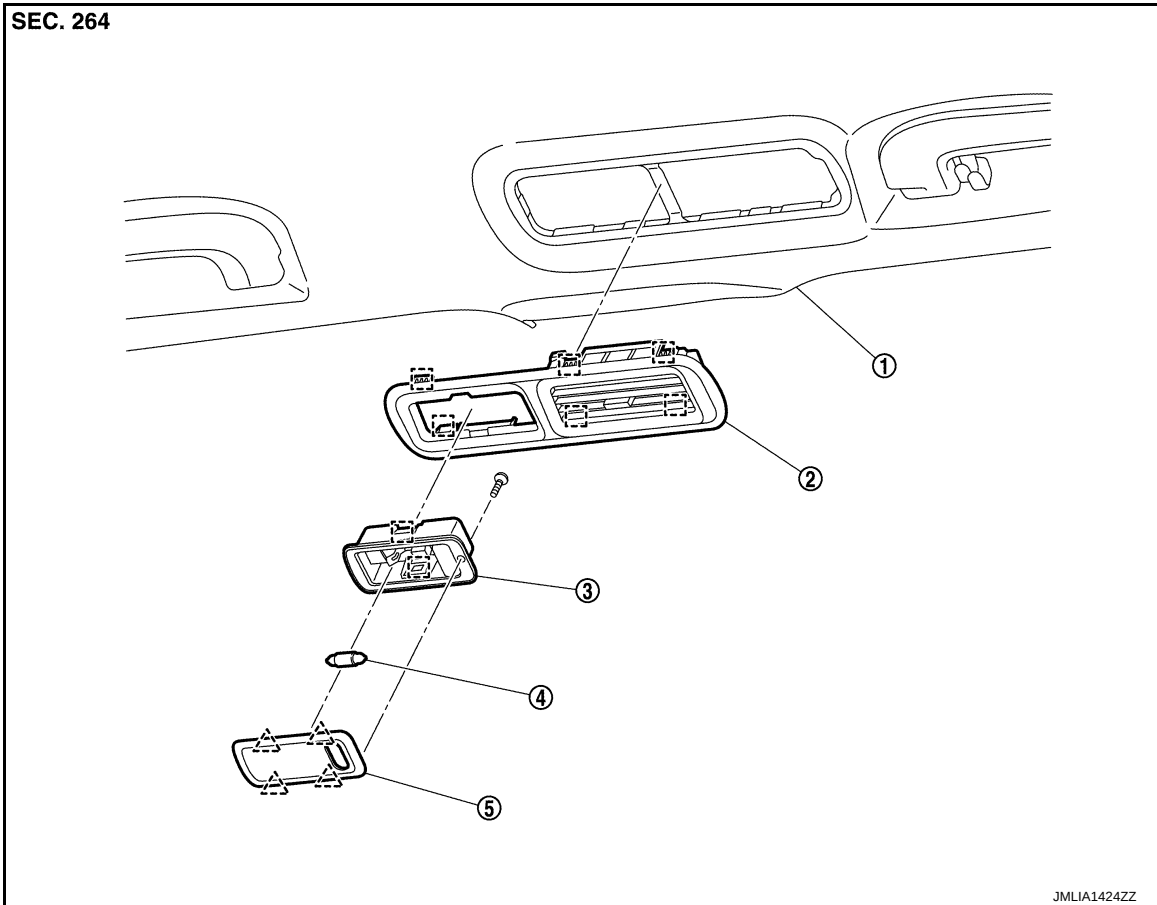
PERSONAL LAMP

< REMOVAL AND INSTALLATION >

PERSONAL LAMP

Exploded View

INFOID:0000000011321174



1. Headlining

4. Bulb

△ : Pawl

□ : Metal clip

2. Rear cooler grille

5. Lens

3. Personal lamp case

Removal and Installation

INFOID:0000000011321175

CAUTION:

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

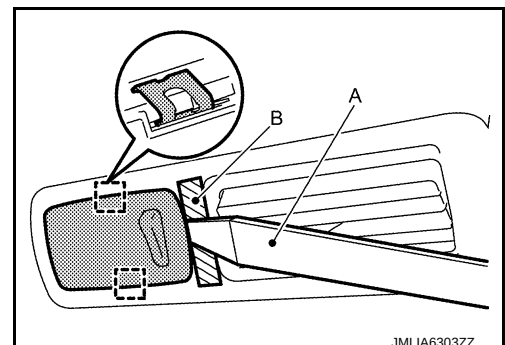
REMOVAL

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

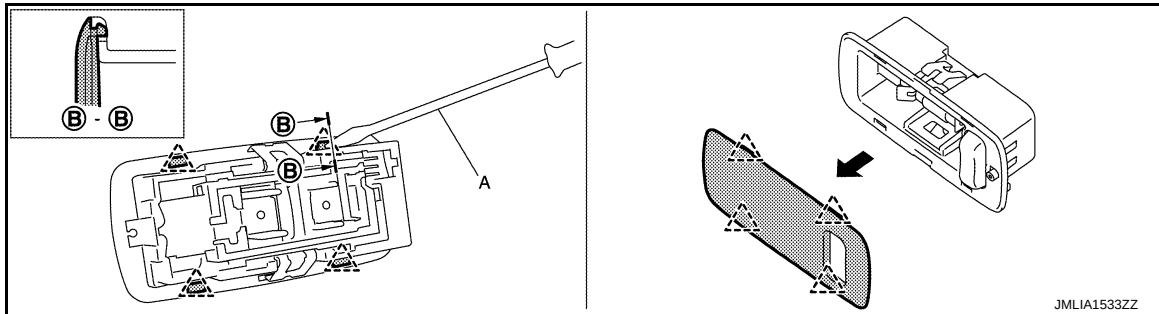
INFOID:0000000011321176

CAUTION:

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

PERSONAL LAMP BULB

1. Remove personal lamp case. Refer to [INL-77, "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.

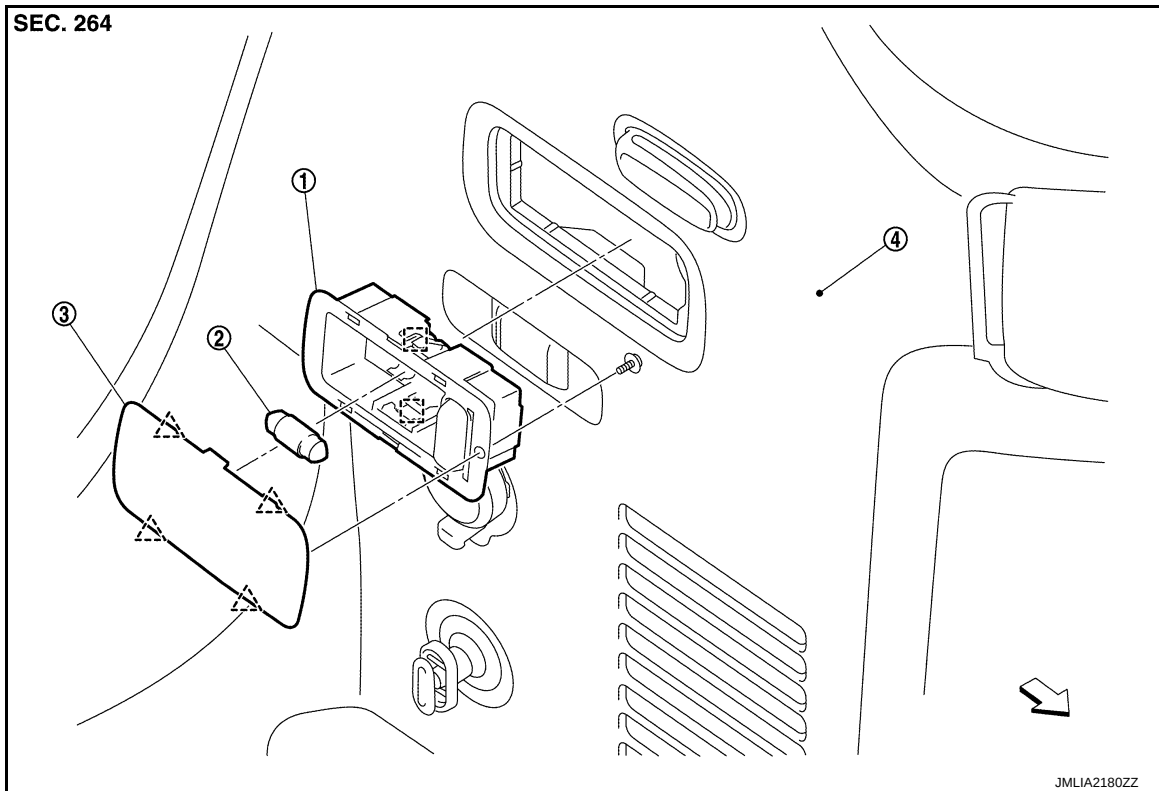
LUGGAGE ROOM LAMP

< REMOVAL AND INSTALLATION >

LUGGAGE ROOM LAMP

Exploded View

INFOID:0000000011321177



1. Luggage room lamp case
2. Bulb
3. Lens
4. Luggage side lower finisher LH

△ : Pawl

□ : Metal clip

↖ : Vehicle front

Removal and Installation

INFOID:0000000011321178

CAUTION:

Disconnect the battery negative terminal or remove power circuit fuse while performing the operation to 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:0000000011321179

CAUTION:

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

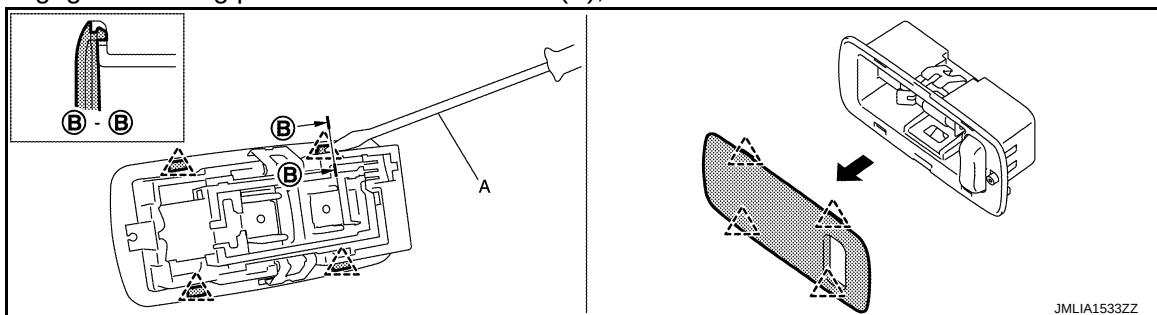
LUGGAGE ROOM LAMP

< 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-79, "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:0000000011321180

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	3.4
Personal lamp	—	8
Luggage room lamp	—	8

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