SECTION INL
INTERIOR LIGHTING SYSTEM

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PRECAUTION

PRECAUTIONS

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

INFOID:0000000010755180

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. Information necessary to service the system safely is included in the “SRS AIR BAG” and “SEAT BELT” of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

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

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

WARNING:

Always observe the following items for preventing accidental activation.

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

Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

INFOID:0000000010755181

CAUTION:

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

- **Before removing and installing any control units, first turn the ignition power source and accessory power source to the OFF, then disconnect both battery cables.**
- **After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.**
- **Always use CONSULT to perform self-diagnosis as a part of each function inspection after finishing work. If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.**

For vehicle with steering lock unit, if the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, follow the operation procedure below before starting the repair operation.

OPERATION PROCEDURE

1. Connect both battery cables.
   NOTE:
   Supply power using jumper cables if battery is discharged.
2. Open driver door.
3. Turn the ignition switch to the ON position.
   (At this time, the steering lock will be released.)
4. Turn the ignition switch to OFF position with driver door open.
5. Wait for 3 minutes or longer with driver door open.
   NOTE:
   - Do not close driver door because the steering wheel locks when driver door is closed.

- The auto acc function is adapted to this vehicle. For this reason, even when the ignition switch is turned to OFF position, the accessory power source does not turned OFF and continues to be supplied for a certain amount of time.

6. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
7. Perform the necessary repair operation.
8. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the ignition switch from OFF position to ON position, then to LOCK position. (The steering wheel will lock when the ignition switch is turned to LOCK position.)
9. Perform self-diagnosis check of all control units using CONSULT.

Precautions for Removing Battery Terminal

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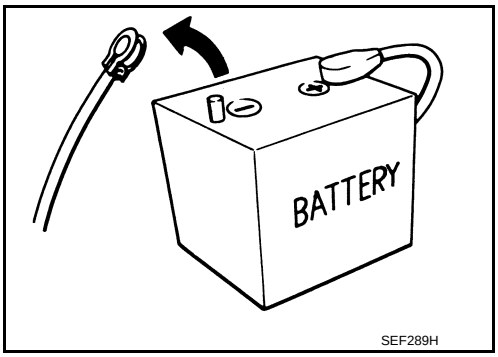
- With the adoption of Auto ACC function, ACC power is automatically supplied by operating the intelligent key or remote keyless entry or by opening/closing the driver side door. In addition, ACC power is supplied even after the ignition switch is turned to the OFF position, i.e. ACC power is supplied for a certain fixed time.
- When disconnecting the 12V battery terminal, turn off the ACC power before disconnecting the 12V battery terminal, observing “How to disconnect 12V battery terminal” described below.
  NOTE:
  Some ECUs operate for a certain fixed time even after ignition switch is turned OFF and ignition power supply is stopped. If the battery terminal is disconnected before ECU stops, accidental DTC detection or ECU data damage 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.



HOW TO DISCONNECT 12V BATTERY TERMINAL

Disconnect 12V battery terminal according to Instruction 1 or Instruction 2 described below.
For vehicles parked by ignition switch OFF, refer to Instruction 2.

INSTRUCTION 1

1. Open the hood.
2. Turn key switch to the OFF position with the driver side door opened.
3. Get out of the vehicle and close the driver side door.
4. Wait at least 3 minutes. For vehicle with the engine listed below, remove the battery terminal after a lapse of the specified time.

D4D engine	: 20 minutes
HRA2DDT	: 12 minutes
K9K engine	: 4 minutes
M9R engine	: 4 minutes
R9M engine	: 4 minutes
V9X engine	: 4 minutes

CAUTION:
While waiting, never operate the vehicle such as locking, opening, and closing doors. Violation of this caution results in the activation of ACC power supply according to the Auto ACC function.

5. Remove 12V battery terminal.
   CAUTION:
   After installing 12V battery, always check self-diagnosis results of all ECUs and erase DTC.

INSTRUCTION 2 (FOR VEHICLES PARKED BY IGNITION SWITCH OFF)

1. Unlock the door with intelligent key or remote keyless entry.

NOTE:
At this moment, ACC power is supplied.

2. Open the driver side door.
3. Open the hood.
4. Close the driver side door.
5. Wait at least 3 minutes.

CAUTION:
While waiting, never operate the vehicle such as locking, opening, and closing doors. Violation of this caution results in the activation of ACC power supply according to the Auto ACC function.

6. Remove 12V battery terminal.

CAUTION:
After installing 12V battery, always check self-diagnosis results of all ECUs and erase DTC.

SYSTEM DESCRIPTION

COMPONENT PARTS

Interior Lamp Appearance and Bulb Specifications

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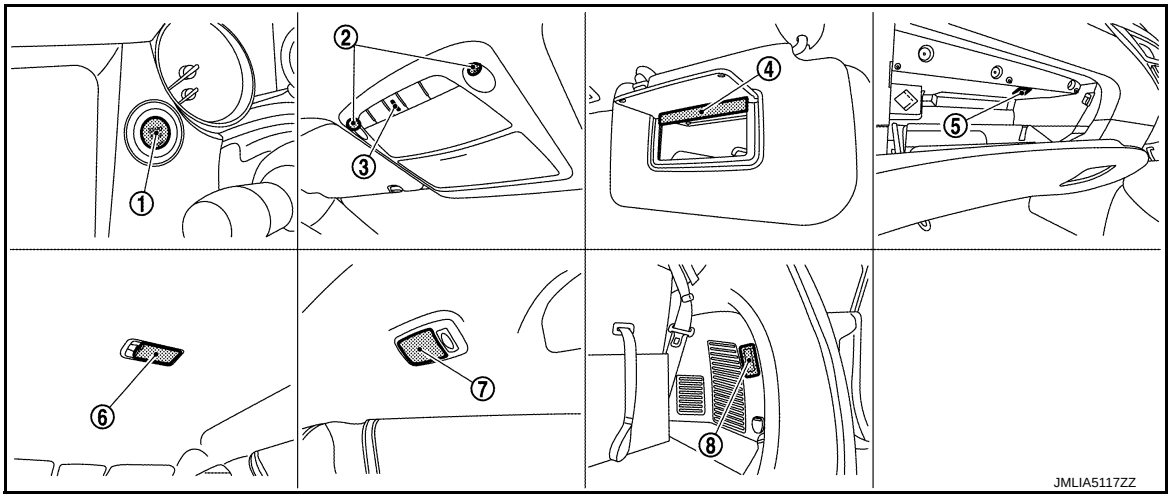

No.	Item	Type	Wattage (W)
①	Push-button ignition switch illumination	LED	—
②	Map lamp	LED	—
③	Map lamp illumination (Integrated into map lamp assembly)	LED	—
④	Vanity mirror lamp	—	1.8
⑤	Glove box lamp	Wedge	1.4
⑥	Room lamp*1	—	8.0
⑦	Personal lamp*2	Wedge	8.0
⑧	Luggage room lamp	—	3.4

*1: Without sunroof

*2: With sunroof

Component Parts Location

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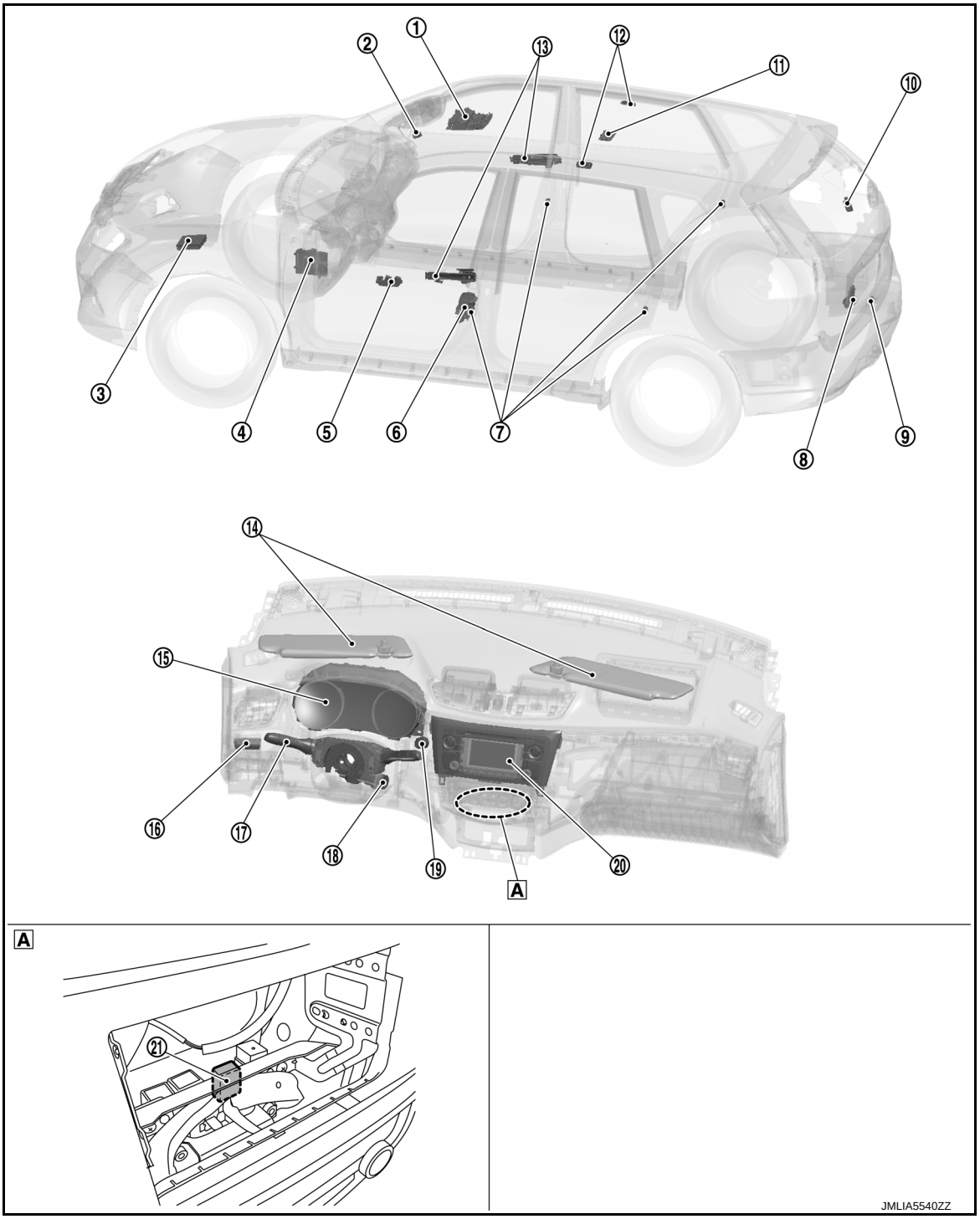
LHD MODELS



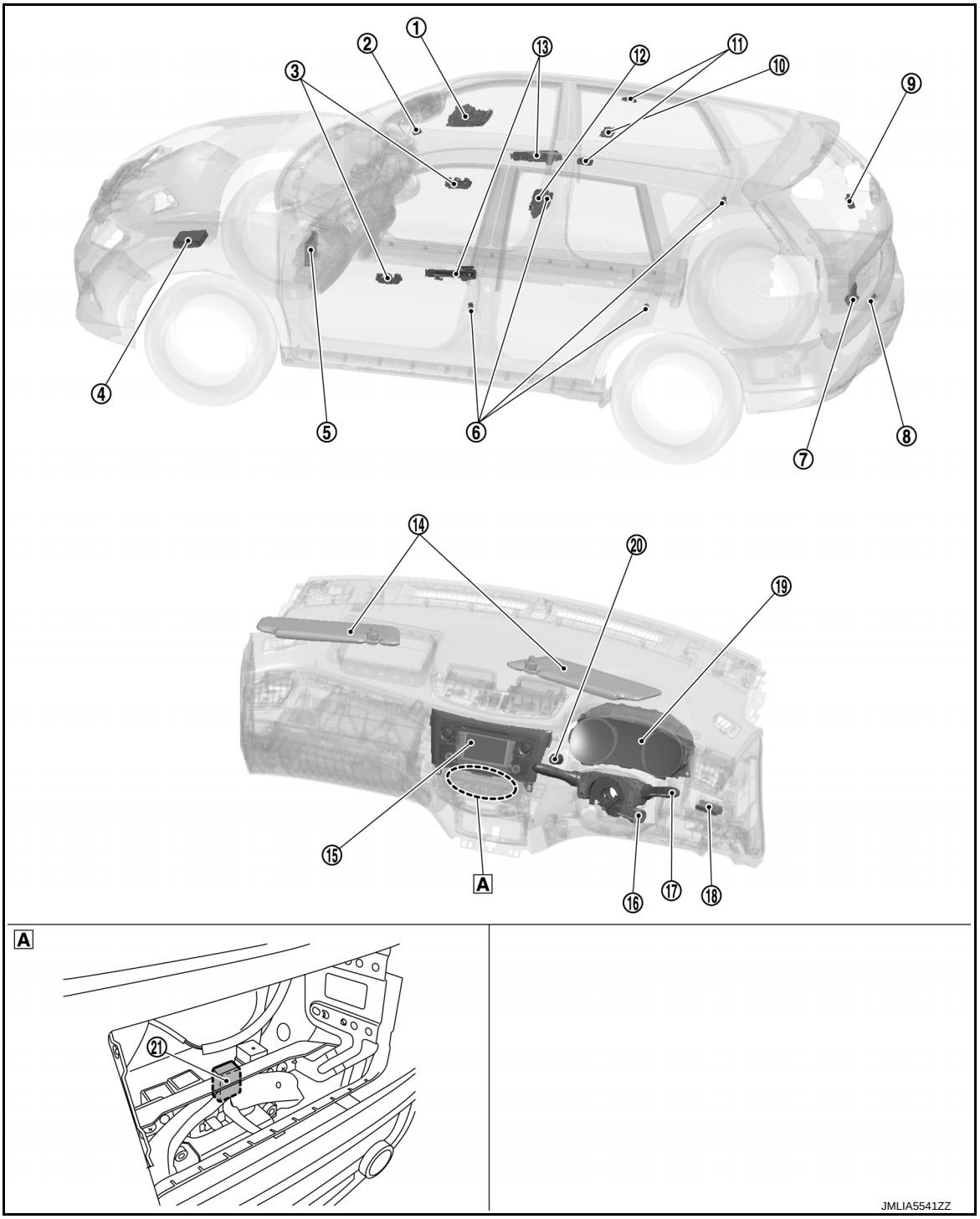
A Behind A/C control

No.	Component	Function
①	Map lamp	Refer to INL-6, "Interior Lamp Appearance and Bulb Specifications".
②	Light & rain sensor*1	Refer to EXL-20, "Light & Rain Sensor"*2 or EXL-224, "Light & Rain Sensor" *3.
③	IPDM E/R	Controls the integrated smart FET, and supplies voltage to the load according to the request from BCM via CAN communication. Refer to PCS-5, "Component Parts Location" for detailed installation location.

No.	Component	Function
④	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 turn interior room lamps OFF. • Detects each switch condition by the combination switch reading function. • Judges the illumination lamp ON/OFF status depending on the vehicle condition. And then transmits request signal to combination meter (via CAN communication). Refer to BCS-6, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location.
⑤	Power window main switch (Door lock and unlock switch)	Refer to DLK-341, "DOOR LOCK SYSTEM : Door Lock and Unlock Switch" (Type 2*4) or DLK-796, "Door Lock and Unlock Switch" (Type 4*5).
⑥	Front door lock assembly (driver side) (Unlock sensor)	Refer to DLK-341, "DOOR LOCK SYSTEM : Door Lock Assembly" (Type 2*4) or DLK-795, "Door Lock Assembly" (Type 4*5).
⑦	Door switch	Refer to DLK-342, "DOOR LOCK SYSTEM : Door Switch" (Type 2*4) or DLK-796, "Door Switch" (Type 4*5).
⑧	Back door lock assembly (Back door switch)	Refer to DLK-340, "DOOR LOCK SYSTEM : Back Door Lock Assembly" (Type 2*4) or DLK-795, "Back Door Lock Assembly" (Type 4*5).
⑨	Back door opener switch assembly*4 (Door request switch)	Refer to DLK-340, "DOOR LOCK SYSTEM : Back Door Opener Switch Assembly".
⑩	Luggage room lamp	Refer to INL-6, "Interior Lamp Appearance and Bulb Specifications".
⑪	Room lamp*6	Refer to INL-6, "Interior Lamp Appearance and Bulb Specifications".
⑫	Personal lamp*7	Refer to INL-6, "Interior Lamp Appearance and Bulb Specifications".
⑬	Front door outside handle assembly*4 (Door request switch)	Refer to DLK-341, "DOOR LOCK SYSTEM : Door Request Switch".
⑭	Vanity mirror lamp	Refer to INL-6, "Interior Lamp Appearance and Bulb Specifications".
⑮	Combination meter	Controls the illumination according to the request signal from BCM (via CAN communication).
⑯	Meter control switch (Illumination control switch)	Refer to MWI-14, "METER SYSTEM : Meter Control Switch".
⑰	Combination switch (Lighting & turn signal switch)	Refer to BCS-13, "COMBINATION SWITCH READING SYSTEM : System Description".
⑱	Key switch*5	Refer to DLK-796, "Ignition Key Cylinder".
⑲	Push-button ignition switch*4 (Push-button ignition switch illumination)	Refer to INL-6, "Interior Lamp Appearance and Bulb Specifications".
⑳	NAVI control unit*8	Controls the brightness of display according to the request signal from BCM.
㉑	Interior room lamp relay	Interior room lamp relay is controlled by BCM and supplies power to each interior room lamp.

*1: For models with auto light system.
*2: For models with LED headlamp.
*3: For models with halogen headlamp.
*4: For models with Intelligent Key system.
*5: For models without Intelligent Key system.
*6: For models with room lamp.
*7: For models with personal lamp.
*8: For models with NAVI.

RHD MODELS



A Behind A/C control

No.	Component	Function
①	Map lamp	Refer to INL-6, "Interior Lamp Appearance and Bulb Specifications".
②	Light & rain sensor*1	Refer to EXL-20, "Light & Rain Sensor"*2 or EXL-224, "Light & Rain Sensor" *3.
③	Door lock and unlock switch	Refer to DLK-31, "DOOR LOCK SYSTEM : Door Lock and Unlock Switch" (Type 1*4) or DLK-644, "Door Lock and Unlock Switch" (Type 3*5).

No.	Component	Function
④	IPDM E/R	Controls the integrated smart FET, and supplies voltage to the load according to the request from BCM via CAN communication. Refer to PCS-5, "Component Parts Location" for detailed installation location.
⑤	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 turn interior room lamps OFF. • Detects each switch condition by the combination switch reading function. • Judges the illumination lamp ON/OFF status depending on the vehicle condition. And then transmits request signal to combination meter (via CAN communication). Refer to BCS-6, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location.
⑥	Door switch	Refer to DLK-32, "DOOR LOCK SYSTEM : Door Switch" (Type 1*4) or DLK-645, "Door Switch" (Type 3*5).
⑦	Back door lock assembly (Back door switch)	Refer to DLK-30, "DOOR LOCK SYSTEM : Back Door Lock Assembly" (Type 1*4) or DLK-644, "Back Door Lock Assembly" (Type 3*5).
⑧	Back door opener switch assembly*4 (Door request switch)	Refer to DLK-30, "DOOR LOCK SYSTEM : Back Door Opener Switch Assembly".
⑨	Luggage room lamp	Refer to INL-6, "Interior Lamp Appearance and Bulb Specifications".
⑩	Room lamp*6	Refer to INL-6, "Interior Lamp Appearance and Bulb Specifications".
⑪	Personal lamp*7	Refer to INL-6, "Interior Lamp Appearance and Bulb Specifications".
⑫	Front door lock assembly (driver side) (Unlock sensor)	Refer to DLK-31, "DOOR LOCK SYSTEM : Door Lock Assembly" (Type 1*4) or DLK-644, "Door Lock Assembly" (Type 3*5).
⑬	Front door outside handle assembly*4 (Door request switch)	Refer to DLK-32, "DOOR LOCK SYSTEM : Door Request Switch".
⑭	Vanity mirror lamp	Refer to INL-6, "Interior Lamp Appearance and Bulb Specifications".
⑮	NAVI control unit*8	Controls the brightness of display according to the request signal from BCM.
⑯	Key switch*5	Refer to DLK-645, "Ignition Key Cylinder".
⑰	Combination switch (Lighting & turn signal switch)	Refer to BCS-13, "COMBINATION SWITCH READING SYSTEM : System Description".
⑱	Meter control switch (Illumination control switch)	Refer to MWI-14, "METER SYSTEM : Meter Control Switch".
⑲	Combination meter	Controls the illumination according to the request signal from BCM (via CAN communication).
⑳	Push-button ignition switch*4 (Push-button ignition switch illumination)	Refer to INL-6, "Interior Lamp Appearance and Bulb Specifications".
㉑	Interior room lamp relay	Interior room lamp relay is controlled by BCM and supplies power to each interior room lamp.

*1: For models with auto light system.
*2: For models with LED headlamp.
*3: For models with halogen headlamp.
*4: For models with Intelligent Key system.
*5: For models without Intelligent Key system.
*6: For models with room lamp.
*7: For models with personal lamp.
*8: For models with NAVI.

SYSTEM

INTERIOR ROOM LAMP CONTROL SYSTEM

INTERIOR ROOM LAMP CONTROL SYSTEM : System Description

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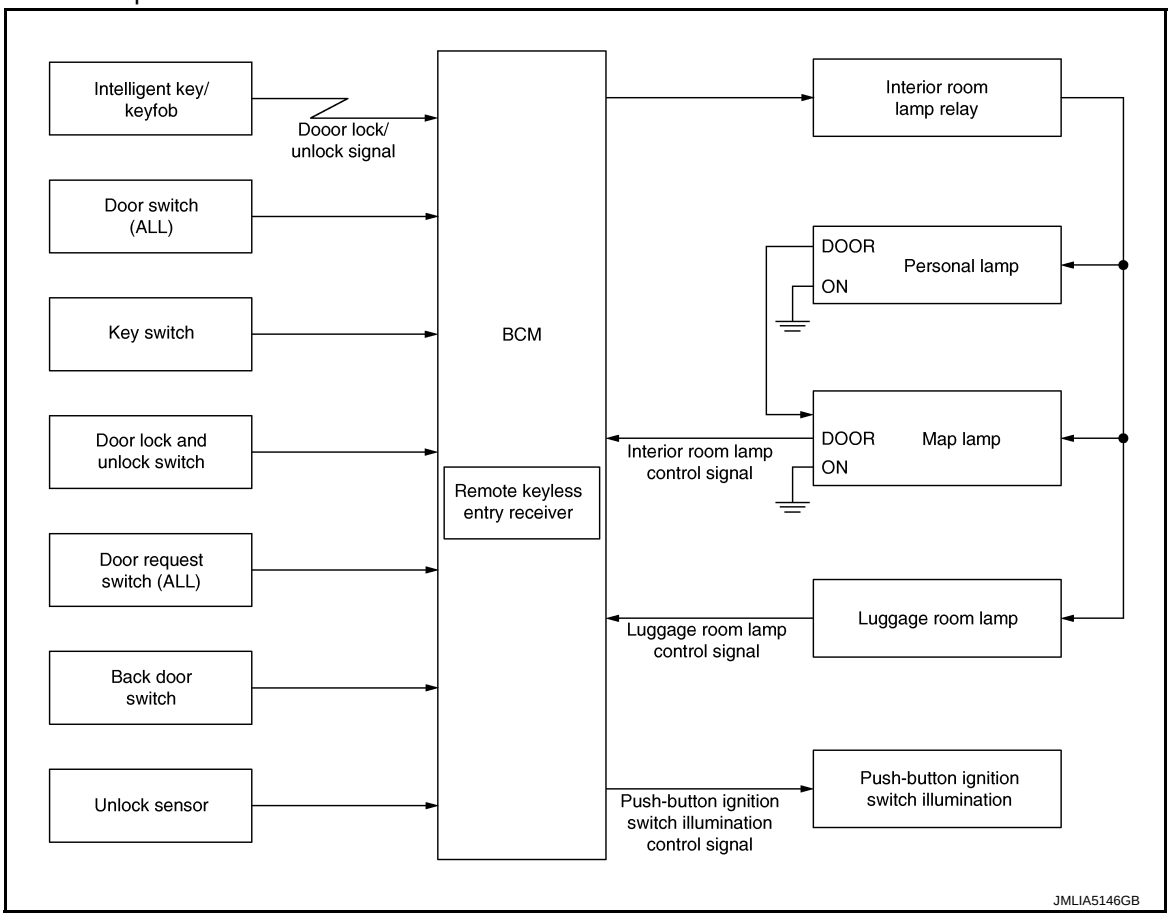
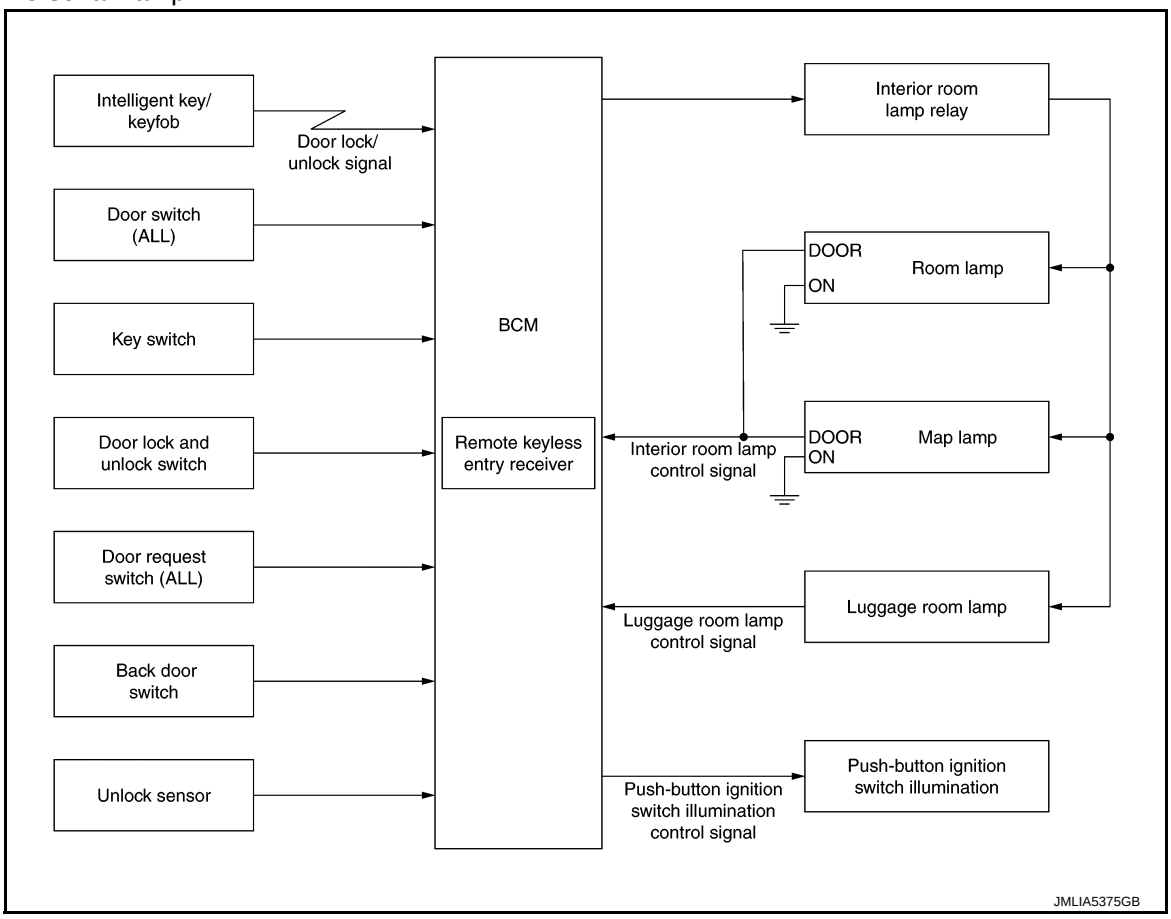
SYSTEM DIAGRAM

With Personal Lamp



Without Personal Lamp



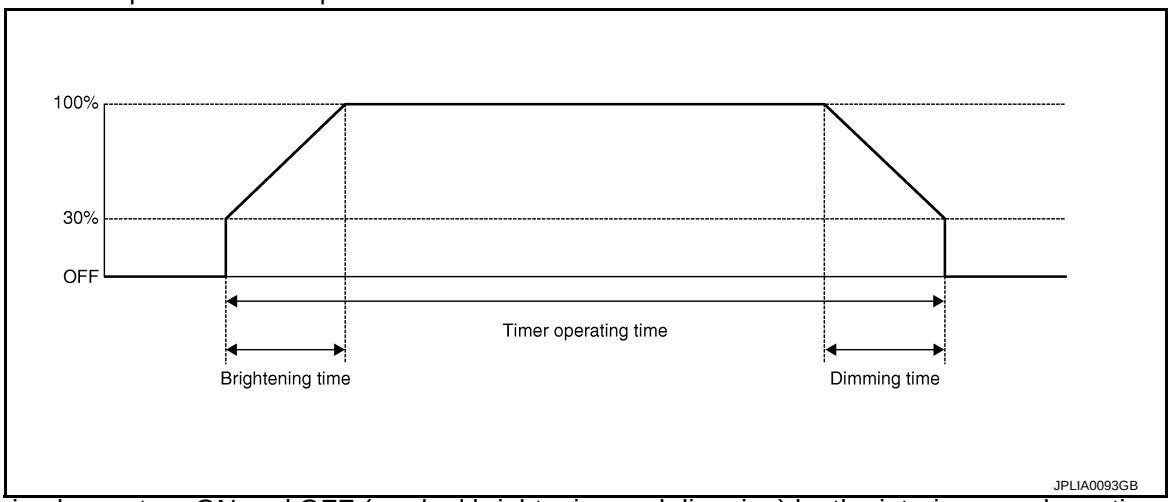
OUTLINE

- Following lamps are controlled by interior room lamp timer control function of BCM.
- Map lamp*
- Room lamp*
- Personal lamp*
- Luggage room lamp is controlled by luggage room lamp control function of BCM.
- Push-button ignition switch illumination is controlled by push-button ignition switch illumination control function of BCM.

*: Interior room lamp time control operates when the switch position is DOOR.

INTERIOR ROOM LAMP TIMER CONTROL

Interior Room Lamp Timer Basic Operation



- Following lamps turn ON and OFF (gradual brightening and dimming) by the interior room lamp timer.
- Map lamp

- Room lamp
- Personal lamp

• Timer operating time is 30 seconds.
• Brightening time is 1 second and dimming time is 3 seconds.
• BCM judges the vehicle condition with the following items and activates the interior room lamp timer.

- Ignition switch status
- Key switch signal
- Door switch signal
- Door lock/unlock signal (Intelligent Key or keyfob, door lock and unlock switch, each door request switch)

NOTE:
Factory setting of interior room lamp is with interior room lamp timer control. This setting can be set to without by using CONSULT. Refer to INL-21, "INT LAMP : CONSULT Function (BCM - INT LAMP)".

Interior Room Lamp ON Operation

• BCM always turns interior room lamp relay ON to turn on interior room lamp when any door opens.
• BCM activates the interior room lamp timer in any of the following condition to turn the interior room lamp ON for a period of time.

- Status of all doors are OPEN → CLOSE
- Ignition switch is turned ON → OFF
- Key is pulled out form ignition key cylinder (Key switch is ON → OFF)
- Door unlock signal is detected when all doors close 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 in any of the following condition to turn the interior room lamp OFF.

• The timer operating time is expired
• Ignition switch is turned OFF → ON
• Door lock signal is detected with all doors close.

LUGGAGE ROOM LAMP CONTROL

BCM turns luggage room lamp ON when back door opens (Back door switch is ON).
BCM turns luggage room lamp OFF when back door closes (Back door switch is OFF).

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CONTROL

Push-button Ignition Switch Illumination ON Operation

BCM turns the push-button ignition switch illumination ON when ignition switch is ON.

Push-button Ignition Switch Illumination OFF Operation

BCM turns the push-button ignition switch illumination OFF when the following condition is satisfied.

• Status does not change for 16 seconds
• Driver side door is UNLOCK → LOCK

INTERIOR ROOM LAMP CONTROL SYSTEM : Circuit Diagram

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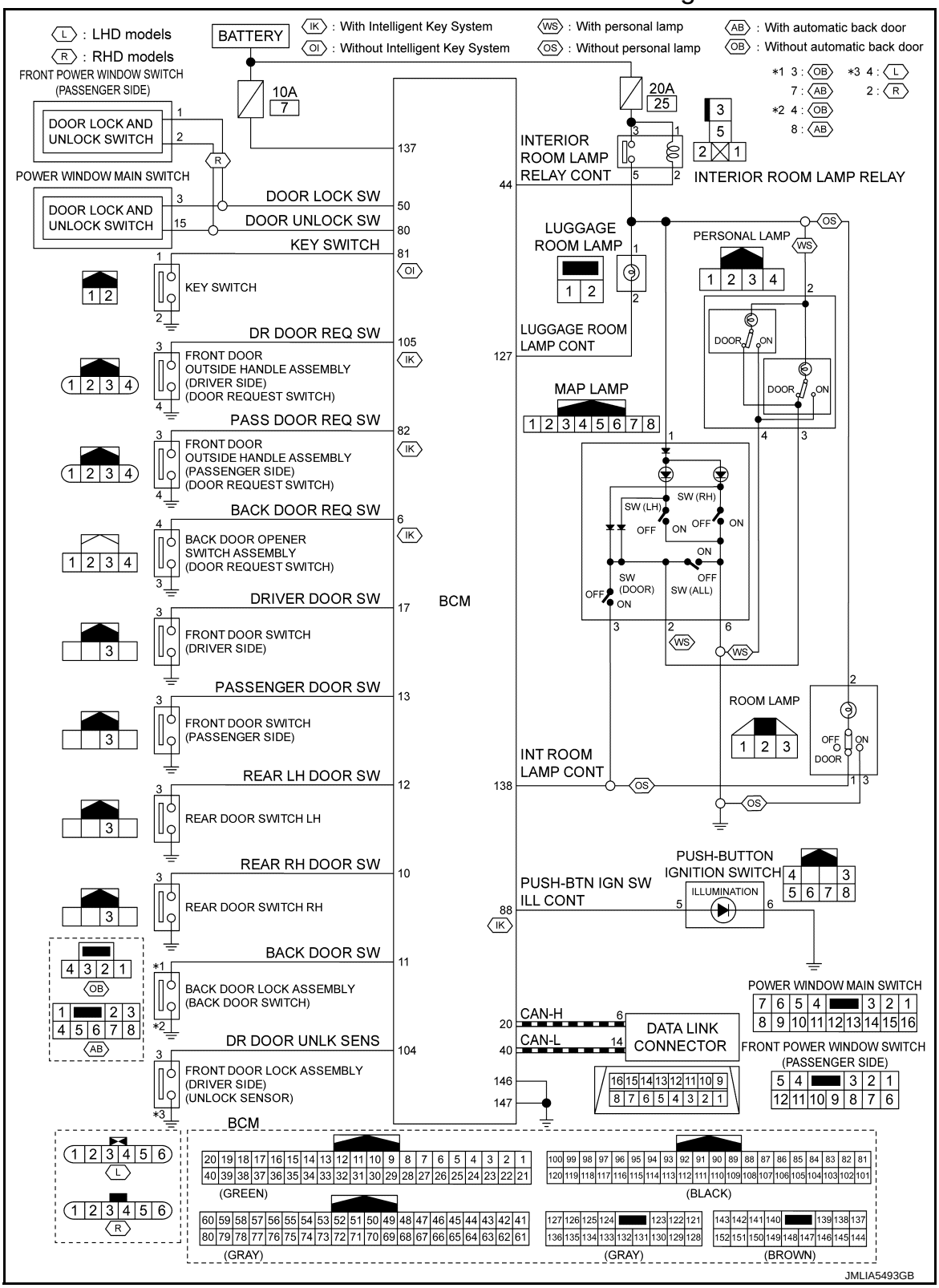

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Description

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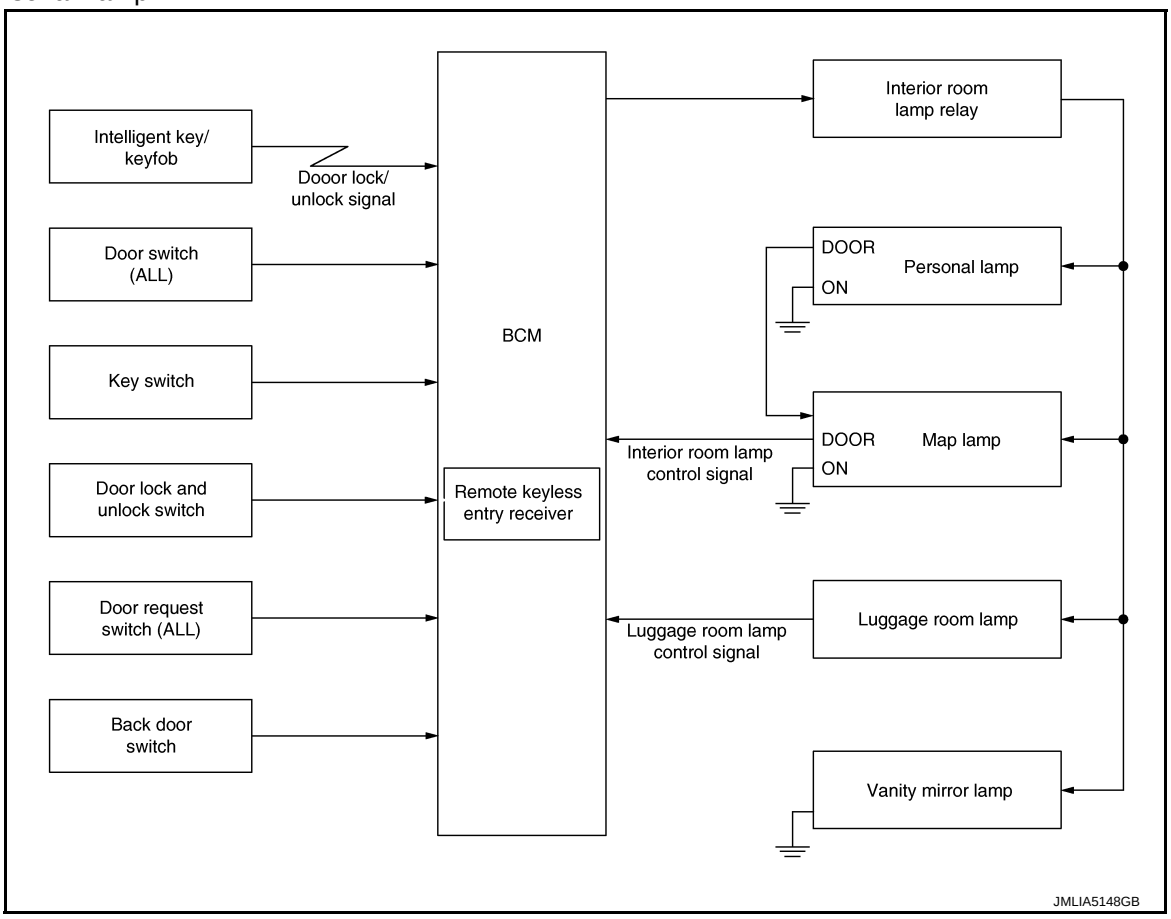
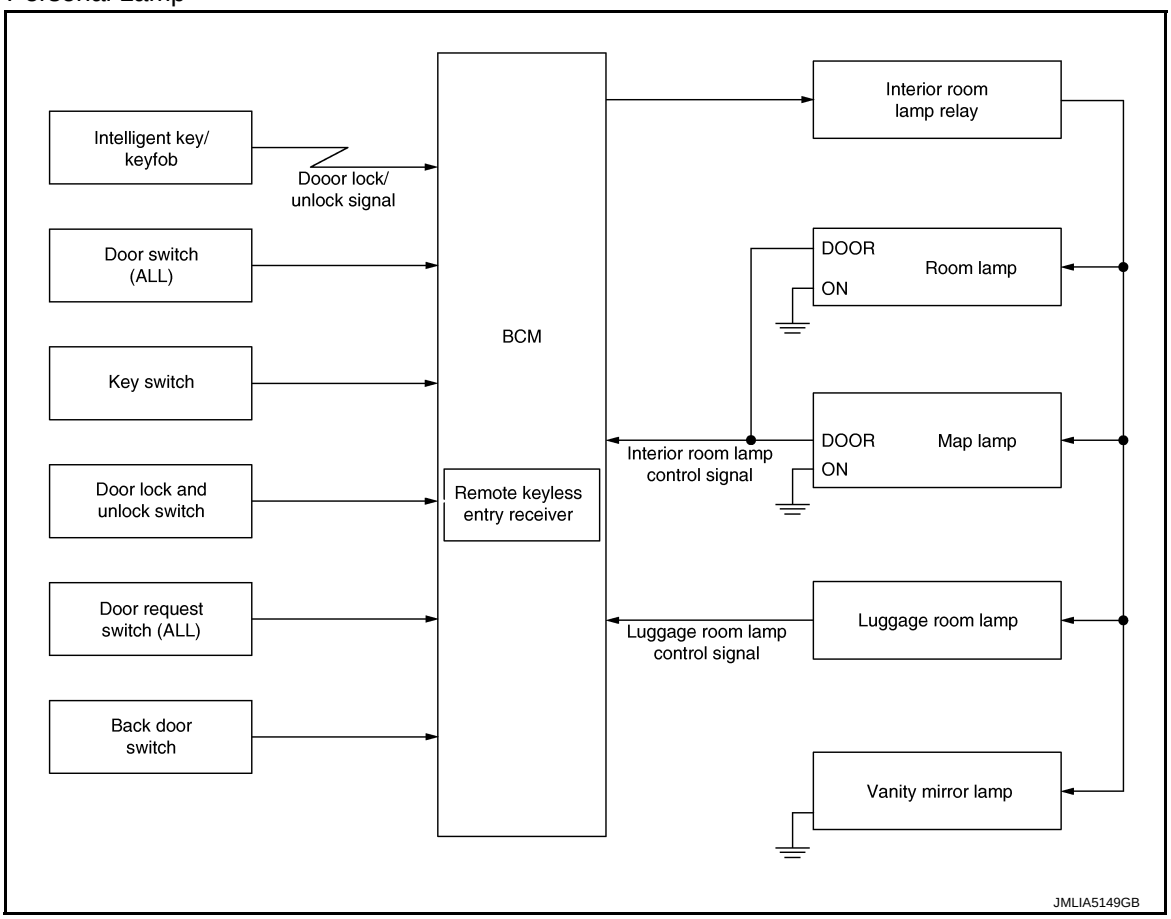
SYSTEM DIAGRAM

With Personal Lamp



Without Personal Lamp



< SYSTEM DESCRIPTION >

OUTLINE

- Interior room lamp battery saver is controlled by BCM.
- BCM turns applicable lamps OFF depending on the vehicle condition. This function prevent battery discharge if the driver neglects, turning OFF any lamps.

Applicable lamps
- Map lamp
- Room lamp
- Personal lamp
- Luggage room lamp
- Vanity mirror lamp

INTERIOR ROOM LAMP BATTERY SAVER FUNCTION

- BCM turns interior room lamp relay ON and keeps the interior room lamp power supply continuously when the ignition switch position is ON.
- When the ignition switch is turned OFF, BCM operates timer for 10 minutes and then turns interior room lamp relay OFF to cut the interior room lamp power supply.
- BCM restart the timer when any of the following signal changes while operating the timer.
- Ignition switch status
- Key switch signal
- Door switch signal
- Back door switch signal
- Door lock/unlock signal (Intelligent Key or keyfob, door lock and unlock switch, each door request switch)

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : Circuit Diagram

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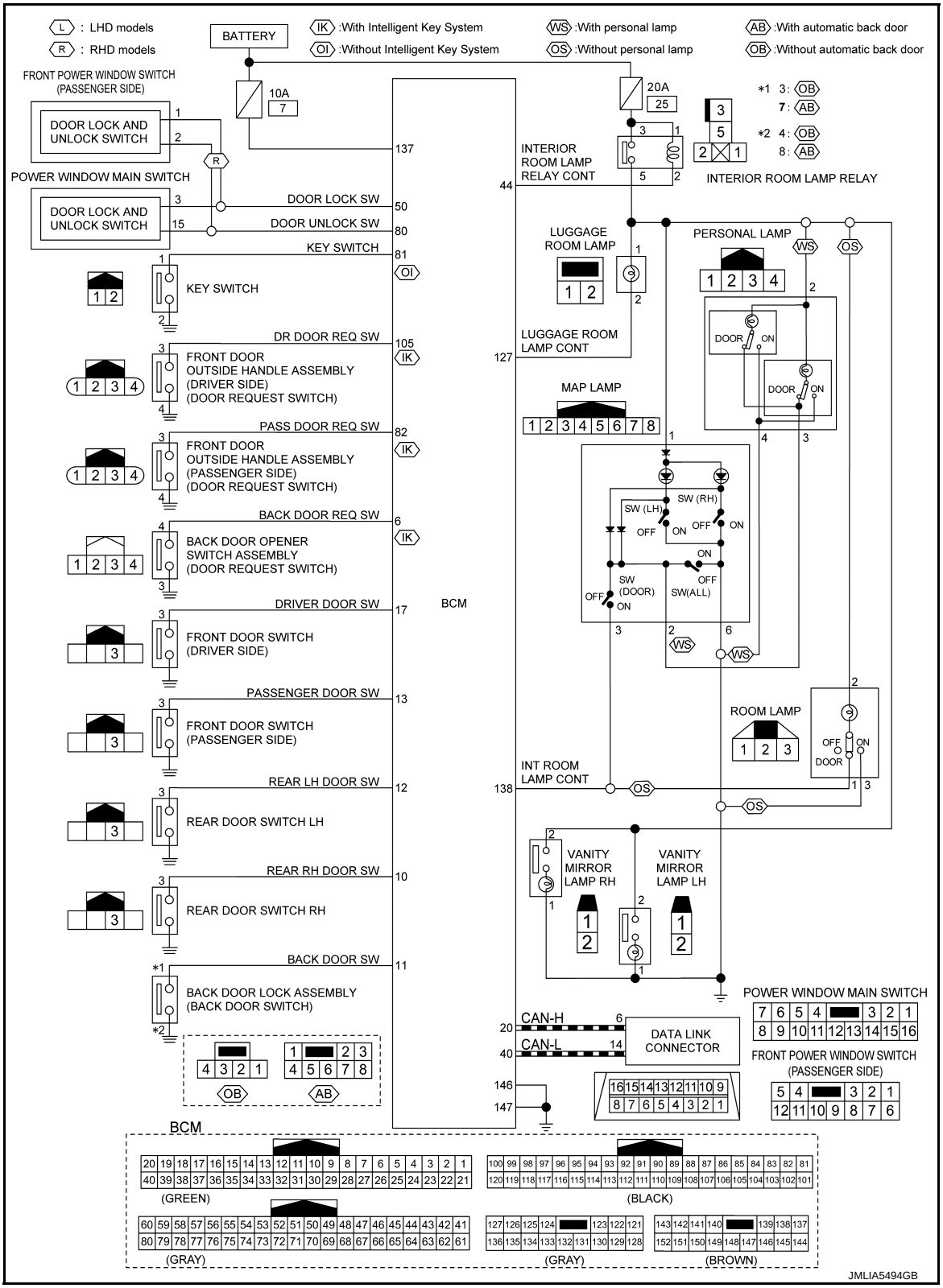
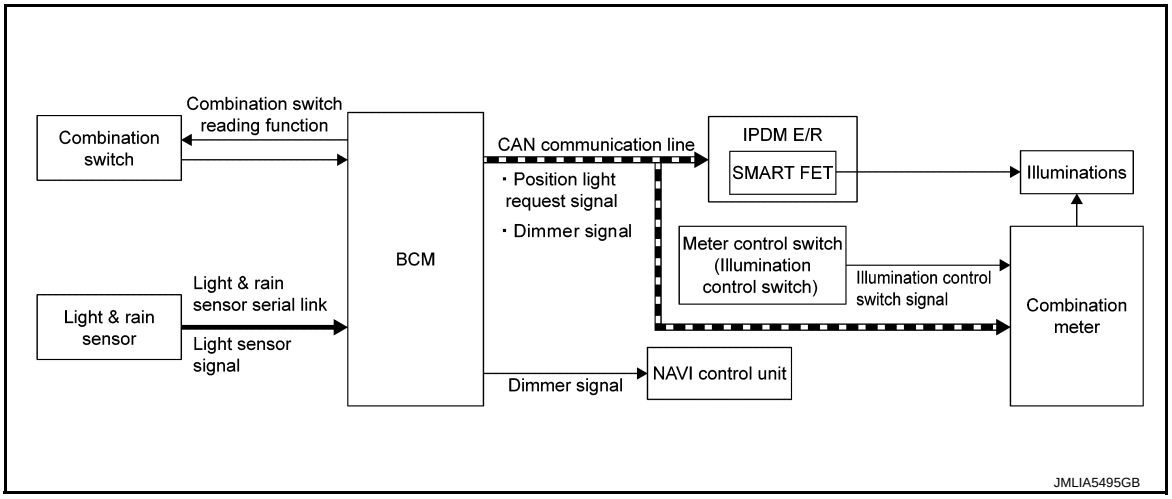


ILLUMINATION CONTROL SYSTEM

ILLUMINATION CONTROL SYSTEM : System Description

INFOID:0000000010755139

SYSTEM DIAGRAM



NOTE:
Dimmer signal on CAN communication line is not used

OUTLINE

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

Control by BCM
- Parking, license plate and tail lamp control function

Control by IPDM E/R
- Smart FET control function

Control by combination meter
- Meter illumination control function (Refer to MWI-68, "METER ILLUMINATION CONTROL : System Description".)

ILLUMINATION CONTROL

- BCM transmits position light request signal to combination meter according to tail lamp ON condition. Refer to EXL-38, "PARKING, LICENSE PLATE AND TAIL LAMP SYSTEM : System Description" (LED headlamp) or EXL-239, "PARKING, LICENSE PLATE AND TAIL LAMP SYSTEM : System Description" (Halogen headlamp).
- Dimmer signal is also transmitted to NAVI control unit.
- Combination meter enters in the nighttime mode according to position light request signal or dimmer signal and controls the power supply to each illumination lamp.

ILLUMINATION CONTROL SYSTEM : Circuit Diagram

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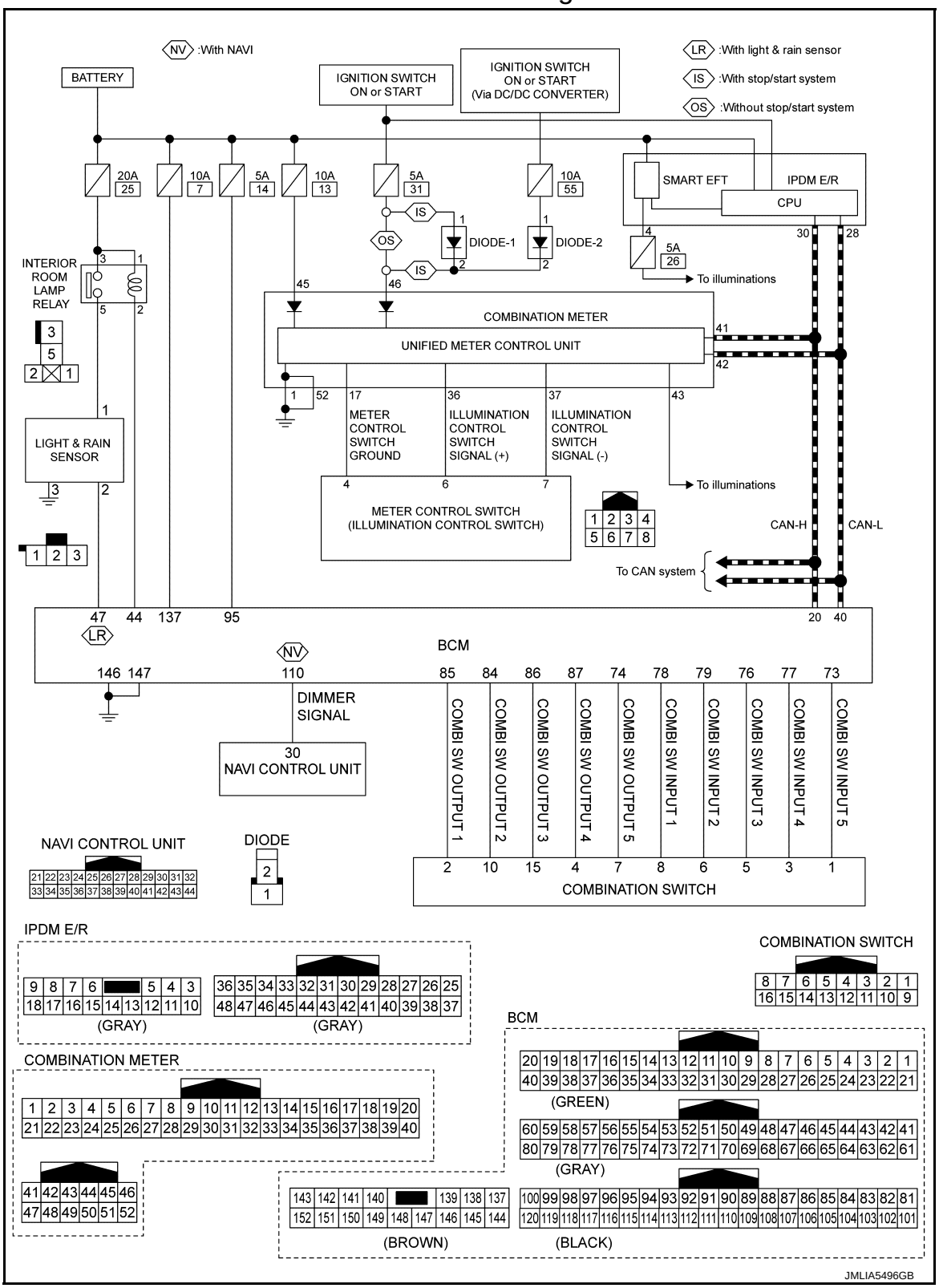


DIAGNOSIS SYSTEM (BCM)
COMMON ITEM
COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000010957674

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		×	×
Exterior lamp	HEAD LAMP	×	×	×
Interior room lamp control	INT LAMP		×	
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	
—	AIR CONDITONER*		×	×
Intelligent Key system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
NVIS - NATS	IMMU		×	
Interior room lamp battery saver	BATTERY SAVER		×	
Back door open	TRUNK		×	
Vehicle security	THEFT ALM	×	×	
RAP	RETAINED PWR		×	
Remote keyless entry system	MULTI REMOTE ENT	×	×	
Signal buffer system	SIGNAL BUFFER		×	×

NOTE:
*: This item is displayed, but not used.

FREEZE FRAME DATA (FFD)
The BCM records the following vehicle condition at the time a particular DTC is detected, and displays on CONSULT.

CONSULT screen item	Indication/Unit	Description
BATTERY VOLTAGE	V	Battery voltage of the moment a particular DTC is detected.
VEHICLE SPEED	km/h	Vehicle speed of the moment a particular DTC is detected.
EXTERNAL TEMP	°C	External temperature of the moment a particular DTC is detected
VEHICLE COND	—	**NOTE:** This item is displayed, but cannot be use this item.
DOOR LOCK STATUS	—	**NOTE:** This item is displayed, but cannot be use this item.
POWER SUPPLY COUNTER	min	Displays the cumulative time from the time that the battery terminal is connected.

INT LAMP

INT LAMP : CONSULT Function (BCM - INT LAMP)

INFOID:0000000010755142

WORK SUPPORT

Service item	Setting item	Setting
SET I/L D-UNLCK INTCON	On*	With interior room lamp timer function
	Off	Without interior room lamp timer function
FOG LAMP OVERRIDE	On*	With fog override function
	Off	Without fog override 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]	Indicated [On/Off] condition of door request switch (driver side)
REQ SW-AS [On/Off]	Indicated [On/Off] condition of door request switch (passenger side)
PUSH SW [On/Off]	Indicates [On/Off] condition of push-button ignition switch
DOOR SW-DR [On/Off]	Indicated [On/Off] condition of front door switch (driver side)
DOOR SW-AS [On/Off]	Indicated [On/Off] condition of front door switch (passenger side)
DOOR SW-RR [On/Off]	Indicated [On/Off] condition of rear door switch RH
DOOR SW-RL [On/Off]	Indicated [On/Off] condition of rear door switch LH
DOOR SW-BK [On/Off]	Indicated [On/Off] condition of back door switch
CDL LOCK SW [On/Off]	Indicated [On/Off] condition of lock signal from door lock and unlock switch
CDL UNLOCK SW [On/Off]	Indicated [On/Off] condition of unlock signal from door lock and unlock switch
KEY CYL LK-SW [On/Off]	**NOTE:** This item is displayed, but cannot be monitored

Monitor item [Unit]	Description
KEY CYL UN-SW [On/Off]	**NOTE:** This item is displayed, but cannot be monitored
RKE-LOCK [On/Off]	Indicates [On/Off] condition of LOCK signal from Intelligent Key or keyfob
RKE-UNLOCK [On/Off]	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key or keyfob
KEY SW [On/Off]	Indicates [On/Off] condition of key switch

ACTIVE TEST

Test item	Operation	Description
INT LAMP	On	Outputs interior room lamp control signal.
	Off	Stops interior room lamp control signal.

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

INFOID:0000000010755143

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]	Indicated [On/Off] condition of door request switch (driver side)
REQ SW-AS [On/Off]	Indicated [On/Off] condition of door request switch (passenger side)
PUSH SW [On/Off]	Indicates [On/Off] condition of push-button ignition switch
DOOR SW-DR [On/Off]	Indicated [On/Off] condition of front door switch (driver side)
DOOR SW-AS [On/Off]	Indicated [On/Off] condition of front door switch (passenger side)
DOOR SW-RR [On/Off]	Indicated [On/Off] condition of rear door switch RH
DOOR SW-RL [On/Off]	Indicated [On/Off] condition of rear door switch LH
DOOR SW-BK [On/Off]	Indicated [On/Off] condition of back door switch
CDL LOCK SW [On/Off]	Indicated [On/Off] condition of lock signal from door lock and unlock switch
CDL UNLOCK SW [On/Off]	Indicated [On/Off] condition of unlock signal from door lock and unlock switch
KEY CYL LK-SW [On/Off]	**NOTE:** This item is displayed, but cannot be monitored
KEY CYL UN-SW [On/Off]	**NOTE:** This item is displayed, but cannot be monitored
RKE-LOCK [On/Off]	Indicates [On/Off] condition of LOCK signal from Intelligent Key or keyfob

Monitor item [Unit]	Description
RKE-UNLOCK [On/Off]	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key or keyfob
KEY SW [On/Off]	Indicates [On/Off] condition of key switch

ACTIVE TEST

Test item	Operation	Description
BATTERY SAVER	ON	Turns interior room lamp relay ON.
	OFF	Turns interior room lamp relay OFF.

INTELLIGENT KEY

INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY) (With Super Lock)

INFOID:0000000010957672

WORK SUPPORT

Monitor item	Description
INSIDE ANT DIAGNOSIS	This function allows inside key antenna self-diagnosis
LOCK/UNLOCK BY I-KEY	Door lock/unlock function by door request switch mode can be changed to operation in this mode • On: Operate • Off: Non-operation
ENGINE START BY I-KEY	Engine start function mode can be changed to operation with this mode • On: Operate • Off: Non-operation
TRUNK/GLASS HATCH OPEN	**NOTE:** This item is displayed, but cannot be monitored
AUTO LOCK SET	Auto door lock operation time can be changed in this mode • MODE 1: OFF • MODE 2: 30 sec • MODE 3: 1 minute • MODE 4: 2 minutes • MODE 5: 3 minutes • MODE 6: 4 minutes • MODE 7: 5 minutes
SHORT CRANKING OUTPUT	**NOTE:** This item is displayed, but cannot be monitored
IGN/ACC BATTERY SAVER	Ignition battery saver system mode can be changed to operation with this mode • On: Operate • Off: Non-operation
ANSWER BACK	**NOTE:** This item is displayed, but cannot be used
ANSWER BACK I-KEY LOCK UN-LOCK	**NOTE:** This item is displayed, but cannot be monitored
ANSWER BACK KEYLESS LOCK UNLOCK	**NOTE:** This item is displayed, but cannot be monitored

SELF-DIAG RESULT

Refer to BCS-78, "DTC Index".

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	Condition
REQ SW -DR	Indicates [On/Off] condition of door request switch (driver side)
REQ SW -AS	Indicates [On/Off] condition of door request switch (passenger side)
REQ SW -BD/TR	Indicates [On/Off] condition of back door request switch
PUSH SW	Indicates [On/Off] condition of push-button ignition switch
CLUTCH SW*1	Indicates [On/Off] condition of clutch interlock switch
BRAKE SW 1	Indicates [On/Off]*2 condition of stop lamp switch power supply
BRAKE SW 2	Indicates [On/Off] condition of stop lamp switch
DETE/CANCL SW	Indicates [On/Off] condition of P position
START CLUTCH SW	Indicates [On/Off] condition of clutch pedal position switch
PUSH SW -IPDM	Indicates [On/Off] condition of push-button ignition switch
IGN RLY1 -F/B	Indicates [On/Off] condition of ignition relay 1
NEUTRAL SW - IPDM	Indicates [On/Off] condition of reverse/neutral position switch
SFT PN -IPDM	Indicates [On/Off] condition of P or N position
STARTER RELAY - IPDM	Indicates [On/Off] condition of starter relay
ENGINE STATE	Indicates [Stop/Stall/Crank/Run] condition of engine states
ST/INHIRELAY-IPDM	Display the starter relay/starter control relay status signal from IPDM E/R via CAN communication
REVERSE SIGNAL - IPDM	Indicates [On/Off] condition of R position
CRANKING PERMIT - ECM	Display the engine cranking permit signal from ECM via CAN communication
IS STATUS - ECM	Indicates [On/Off] condition of stop/start system
STARTER CUT RELAY - ECM	Indicates [On/Off] condition of starter control relay signal from ECM via CAN communication
VEH SPEED 1	Display the vehicle speed signal received from combination meter by numerical value [Km/h]
VEH SPEED 2	Display the vehicle speed signal received from ABS actuator and electric unit (control unit) by numerical value [Km/h]
IGN REQ - IPDM	Display the ignition request signal from IPDM E/R via CAN communication
STARTER REQ - IPDM	Display the starter request signal from IPDM E/R via CAN communication
DOOR STAT-DR	Indicates [LOCK/READY/UNLK] condition of driver door status
DOOR STAT-AS	Indicates [LOCK/READY/UNLK] condition of passenger door status
DOOR STAT-RR	Indicates [LOCK/READY/UNLK] condition of rear door RH status
DOOR STAT-RL	Indicates [LOCK/READY/UNLK] condition of rear door LH status
BK DOOR STATE	**NOTE:** This item is displayed, but cannot be monitored
ID OK FLAG	Indicates [Set/Reset] condition of Intelligent Key ID
PRMT ENG STRT	Indicates [Set/Reset] condition of engine start possibility
PRMT RKE STRT	**NOTE:** This item is displayed, but cannot be monitored
I-KEY OK FLAG	Indicates [KEY On/NOT On] condition of Intelligent Key ID and Intelligent Key is detected inside vehicle
PRBT ENG STRT	Indicates whether or not the engine is in start prohibited status
ID AUTHENT CANCEL TIMER	Indicates whether or not it is in engine start possible status when Intelligent Key verification is unnecessary
ACC BATTERY SAVER	Indicates [On/Off] whether or not ignition battery saver is in operation
CRNK PRBT TMR	Indicates [On/Off] whether or not in cranking prohibited status due to starter motor protection function operation
AUT CRANK TMR	Indicates [On/Off] whether or not in AUTO CRANKING MODE status
CRNK PRBT TME	Indicates the time for changing from cranking prohibited status to cranking possible status

Monitor Item	Condition
AUT CRANK TMR	Indicates the time that AUTO CRANKING MODE operates
CRANKING TME	Indicates the cranking operation time
SHORT CRANK	**NOTE:** This item is displayed, but not used
RKE OPE COUN1	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing
RKE OPE COUN2	**NOTE:** This item is displayed, but cannot be monitored
S/L IGN OFF POSITION	Indicates [On/Off] condition of Ignition OFF signal
S/L SENSOR CIRCUIT 1	Indicates [Gnd/On] condition of steering lock unit sensor circuit
S/L SENSOR CIRCUIT 2	Indicates [On/Off] condition of steering lock unit sensor circuit
S/L POWER OUTPUT	Indicates [On/Off] condition of steering lock unit power supply
S/L POWER CHECK	Indicates [On/Off] condition of steering lock unit power supply
ANTICIPATED POWER	Indicates [On/Off] condition of anticipated power supply
S/L LOCK REQ	Indicates [On/Off] condition of steering lock unit lock request signal
S/L - BCM (CAN)	Indicates [On/Off] condition of CAN communication
S/L POWER ERROR	Indicates [On/Off] condition of steering lock unit power supply error
VEH SPEED ERROR (S/L)	Indicates [On/Off] condition of vehicle speed signal
VEH SPEED NORMAL (S/L)	Indicates [On/Off] condition of vehicle speed signal
ENGINE RUNNING (S/L)	Indicates [On/Off] condition of engine running
S/L ID DISCORD	Indicates [Correct/Incorrect] condition of ID verification
S/L ANTI-SCAN MODE	Indicates [On/Off] condition of antiscan mode
S/L LOCK NOT PERMIT	Indicates [Inhibition/No inhbt] condition of inhibit steering lock
S/L UNLOCK (CAN)	Indicates [Finished/Unfinished] condition of steering lock unit unlock
S/L ID STATUS (CAN)	Indicates [Coded/Blank] condition of registration ID
S/L RESET STATUS (CAN)	Indicates [Exit/No exit] condition of steering lock unit reset signal
S/L LO-LEVEL MALFUNC (CAN)	Indicates [Malf/No malf] condition of lo-level malfunction
S/L LOCK POSITION (CAN)	Indicates [Armed/Malf/Unlocked/Undefined] condition of lock/unlock position signal
S/L ACT MALFUNCTION (CAN)	Indicates [Malf/No malf] condition of steering lock unit malfunction
S/L HI-LEVEL MALFUNC (CAN)	Indicates [Malf/No malf] condition of hi-level malfunction
S/L OPERATION PRHBT (SPD)	Indicates [On/Off] condition of vehicle speed signal
S/L OPERATION PRHBT (PWR)	Indicates [Allowed/Forbid] condition of safety line inhibition
S/L SENSOR POWER (CAN)	Indicates [On/Off] condition of sensor test power supply
S/L SEN TEST PERMIT (CAN)	Indicates [Forbid/Authorize] condition of sensor test
S/L STAT NOT DETECT (CAN)	Indicates [Ok/Undefind] condition of steering lock undefined position signal
S/L LOCKING FINISHED (CAN)	Indicates [Unfinshd/Finished] condition of steering lock unit lock status signal
STOP/START SW	Indicates [On/Off] condition of stop/start off switch
RKE-LOCK	Indicates [On/Off] condition of LOCK signal from Intelligent Key
RKE-UNLOCK	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key
RKE-TR/BD	**NOTE:** This item is displayed, but cannot be monitored
RKE-PANIC	**NOTE:** This item is displayed, but cannot be monitored
RKE-MODE CHG	Indicates [On/Off] condition of MODE CHANGE signal from Intelligent Key
RKE PBD	Indicates [On/Off] condition of back door open request signal from Intelligent Key

Monitor Item	Condition
KEY SW	**NOTE:** This item is displayed, but cannot be monitored
IGN SW	**NOTE:** This item is displayed, but cannot be monitored
START SW	**NOTE:** This item is displayed, but cannot be monitored

*1: It is displayed but does not operate on CVT models.

*2: OFF is displayed when brake pedal is depressed while brake switch power supply is OFF.

ACTIVE TEST

Test item	Description
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation • On: Operate • Off: Non-operation
INSIDE BUZZER	This test is able to check warning chime in combination meter operation • Buzzer 1: Combination meter buzzer sounds (pipipi...) when CONSULT screen is touched • Buzzer 2: Combination meter buzzer sounds (pipi-pipi-...) when CONSULT screen is touched • Buzzer 3: Combination meter buzzer sounds (pipipipi-pipipipi-...) when CONSULT screen is touched • Off: Non-operation
INDICATOR	This test is able to check warning lamp operation • KEY ON: [Intelligent Key system malfunction] displays when CONSULT screen is touched • KEY IND: “KEY” Warning lamp blinks when CONSULT screen is touched • Off: Non-operation
FLASHER	This test is able to check security hazard lamp operation The hazard lamps are activated after “LH/RH/Off” on CONSULT screen is touched
HORN	**NOTE:** This item is displayed, but cannot be used
IGN CONT2	This test is able to operate the blower relay in fuse block (J/B) • On: Operates • Off: Non-operation
ENGINE SW ILLUMI	This test is able to check push-ignition switch illumination operation Push-ignition switch illumination illuminates when “ON” on CONSULT screen is touched
ENGINE START REQUEST	This test is able to check BCM sends starter request signal to IPDM E/R via CAN communication • MODE 1: IGN ON, START request OFF • MODE 2: IGN OFF, START request ON • MODE 3: IGN ON, START request ON • Off: Non-operation
IGNITION RELAY	**NOTE:** This item is displayed, but cannot be used
STARTER CUT RELAY	This test is able to operate the starter control relay • On: Operates • Off: Non-operation
ENGINE START	**NOTE:** This item is displayed, but cannot be used
TRUNK/BACK DOOR	**NOTE:** This item is displayed, but cannot be used
RETRACTABLE MIRROR	**NOTE:** This item is displayed, but cannot be used
AUTO ACC 2	This test is able to check BCM sends power supply to audio unit or NAVI control unit • On: Operate • Off: Non-operation

Test item	Description
AUTOMATIC BACK DOOR	**NOTE:** This item is displayed, but cannot be used
AUTO ACC 1	This test is able to check BCM sends power supply to ignition relay • On: Operate • Off: Non-operation
TRUNK/LUGGAGE LAMP TEST	This test is able to check trunk/luggage room lamp operation • On: Operates • Off: Non-operation

INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY) (Without Super Lock)

INFOID:0000000010957673

WORK SUPPORT

Monitor item	Description
INSIDE ANT DIAGNOSIS	This function allows inside key antenna self-diagnosis
LOCK/UNLOCK BY I-KEY	Door lock/unlock function by door request switch mode can be changed to operation in this mode • On: Operate • Off: Non-operation
ENGINE START BY I-KEY	Engine start function mode can be changed to operation with this mode • On: Operate • Off: Non-operation
TRUNK/GLASS HATCH OPEN	**NOTE:** This item is displayed, but cannot be monitored
AUTO LOCK SET	Auto door lock operation time can be changed in this mode • MODE 1: OFF • MODE 2: 30 sec • MODE 3: 1 minute • MODE 4: 2 minutes • MODE 5: 3 minutes • MODE 6: 4 minutes • MODE 7: 5 minutes
SHORT CRANKING OUTPUT	**NOTE:** This item is displayed, but cannot be monitored
IGN/ACC BATTERY SAVER	Ignition battery saver system mode can be changed to operation with this mode • On: Operate • Off: Non-operation
ANSWER BACK	**NOTE:** This item is displayed, but cannot be used
ANSWER BACK I-KEY LOCK UNLOCK	**NOTE:** This item is displayed, but cannot be used
ANSWER BACK KEYLESS LOCK UNLOCK	**NOTE:** This item is displayed, but cannot be used

SELF-DIAG RESULT

Refer to BCS-78, "DTC Index".

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	Condition
REQ SW -DR	Indicates [On/Off] condition of door request switch (driver side)
REQ SW -AS	Indicates [On/Off] condition of door request switch (passenger side)

Monitor Item	Condition
REQ SW -BD/TR	Indicates [On/Off] condition of back door request switch
PUSH SW	Indicates [On/Off] condition of push-button ignition switch
CLUTCH SW*1	Indicates [On/Off] condition of clutch interlock switch
BRAKE SW 1	Indicates [On/Off]*2 condition of stop lamp switch power supply
BRAKE SW 2	Indicates [On/Off] condition of stop lamp switch
DETE/CANCL SW	Indicates [On/Off] condition of P position
START CLUTCH SW	Indicates [On/Off] condition of clutch pedal position switch
PUSH SW -IPDM	Indicates [On/Off] condition of push-button ignition switch
IGN RLY1 -F/B	Indicates [On/Off] condition of ignition relay 1
NEUTRAL SW - IPDM	Indicates [On/Off] condition of reverse/neutral position switch
SFT PN -IPDM	Indicates [On/Off] condition of P or N position
STARTER RELAY - IPDM	Indicates [On/Off] condition of starter relay
ENGINE STATE	Indicates [Stop/Stall/Crank/Run] condition of engine states
ST/INHIRELAY-IPDM	Display the starter relay/starter control relay status signal from IPDM E/R via CAN communication
REVERSE SIGNAL - IPDM	Indicates [On/Off] condition of R position
CRANKING PERMIT - ECM	Display the engine cranking permit signal from ECM via CAN communication
IS STATUS - ECM	Indicates [On/Off] condition of stop/start system
STARTER CUT RELAY - ECM	Indicates [On/Off] condition of starter control relay signal from ECM via CAN communication
VEH SPEED 1	Display the vehicle speed signal received from combination meter by numerical value [Km/h]
VEH SPEED 2	Display the vehicle speed signal received from ABS actuator and electric unit (control unit) by numerical value [Km/h]
IGN REQ - IPDM	Display the ignition request signal from IPDM E/R via CAN communication
STARTER REQ - IPDM	Display the starter request signal from IPDM E/R via CAN communication
DOOR STAT-DR	Indicates [LOCK/READY/UNLK] condition of driver door status
DOOR STAT-AS	Indicates [LOCK/READY/UNLK] condition of passenger door status
DOOR STAT-RR	Indicates [LOCK/READY/UNLK] condition of rear door RH status
DOOR STAT-RL	Indicates [LOCK/READY/UNLK] condition of rear door LH status
BK DOOR STATE	**NOTE:** This item is displayed, but cannot be monitored
ID OK FLAG	Indicates [Set/Reset] condition of Intelligent Key ID
PRMT ENG STRT	Indicates [Set/Reset] condition of engine start possibility
PRMT RKE STRT	**NOTE:** This item is displayed, but cannot be monitored
I-KEY OK FLAG	Indicates [KEY On/NOT On] condition of Intelligent Key ID and Intelligent Key is detected inside vehicle
PRBT ENG STRT	Indicates whether or not the engine is in start prohibited status
ID AUTHENT CANCEL TIMER	Indicates whether or not it is in engine start possible status when Intelligent Key verification is unnecessary
ACC BATTERY SAVER	Indicates [On/Off] whether or not ignition battery saver is in operation
CRNK PRBT TMR	Indicates [On/Off] whether or not in cranking prohibited status due to starter motor protection function operation
AUT CRANK TMR	Indicates [On/Off] whether or not in AUTO CRANKING MODE status
CRNK PRBT TME	Indicates the time for changing from cranking prohibited status to cranking possible status
AUT CRANK TMR	Indicates the time that AUTO CRANKING MODE operates
CRANKING TME	Indicates the cranking operation time

Monitor Item	Condition
SHORT CRANK	**NOTE:** This item is displayed, but not used
RKE OPE COUN1	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing
RKE OPE COUN2	**NOTE:** This item is displayed, but cannot be monitored
S/L IGN OFF POSITION	Indicates [On/Off] condition of Ignition OFF signal
S/L SENSOR CIRCUIT 1	Indicates [Gnd/On] condition of steering lock unit sensor circuit
S/L SENSOR CIRCUIT 2	Indicates [On/Off] condition of steering lock unit sensor circuit
S/L POWER OUTPUT	Indicates [On/Off] condition of steering lock unit power supply
S/L POWER CHECK	Indicates [On/Off] condition of steering lock unit power supply
ANTICIPATED POWER	Indicates [On/Off] condition of anticipated power supply
S/L LOCK REQ	Indicates [On/Off] condition of steering lock unit lock request signal
S/L - BCM (CAN)	Indicates [On/Off] condition of CAN communication
S/L POWER ERROR	Indicates [On/Off] condition of steering lock unit power supply error
VEH SPEED ERROR (S/L)	Indicates [On/Off] condition of vehicle speed signal
VEH SPEED NORMAL (S/L)	Indicates [On/Off] condition of vehicle speed signal
ENGINE RUNNING (S/L)	Indicates [On/Off] condition of engine running
S/L ID DISCORD	Indicates [Correct/Incorrect] condition of ID verification
S/L ANTI-SCAN MODE	Indicates [On/Off] condition of antiscan mode
S/L LOCK NOT PERMIT	Indicates [Inhibition/No inhbt] condition of inhibit steering lock
S/L UNLOCK (CAN)	Indicates [Finished/Unfinished] condition of steering lock unit unlock
S/L ID STATUS (CAN)	Indicates [Coded/Blank] condition of registration ID
S/L RESET STATUS (CAN)	Indicates [Exit/No exit] condition of steering lock unit reset signal
S/L LO-LEVEL MALFUNC (CAN)	Indicates [Malf/No malf] condition of lo-level malfunction
S/L LOCK POSITION (CAN)	Indicates [Armed/Malf/Unlocked/Undefined] condition of lock/unlock position signal
S/L ACT MALFUNCTION (CAN)	Indicates [Malf/No malf] condition of steering lock unit malfunction
S/L HI-LEVEL MALFUNC (CAN)	Indicates [Malf/No malf] condition of hi-level malfunction
S/L OPERATION PRHBT (SPD)	Indicates [On/Off] condition of vehicle speed signal
S/L OPERATION PRHBT (PWR)	Indicates [Allowed/Forbid] condition of safety line inhibition
S/L SENSOR POWER (CAN)	Indicates [On/Off] condition of sensor test power supply
S/L SEN TEST PERMIT (CAN)	Indicates [Forbid/Authorize] condition of sensor test
S/L STAT NOT DETECT (CAN)	Indicates [Ok/Undefind] condition of steering lock undefined position signal
S/L LOCKING FINISHED (CAN)	Indicates [Unfinshd/Finished] condition of steering lock unit lock status signal
STOP/START SW	Indicates [On/Off] condition of stop/start off switch
RKE-LOCK	Indicates [On/Off] condition of LOCK signal from Intelligent Key
RKE-UNLOCK	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key
RKE-TR/BD	**NOTE:** This item is displayed, but cannot be monitored
RKE-PANIC	**NOTE:** This item is displayed, but cannot be monitored
RKE-MODE CHG	Indicates [On/Off] condition of MODE CHANGE signal from Intelligent Key
RKE PBD	Indicates [On/Off] condition of back door open request signal from Intelligent Key
KEY SW	**NOTE:** This item is displayed, but cannot be monitored

Monitor Item	Condition
IGN SW	**NOTE:** This item is displayed, but cannot be monitored
START SW	**NOTE:** This item is displayed, but cannot be monitored

*1: It is displayed but does not operate on CVT models.

*2: OFF is displayed when brake pedal is depressed while brake switch power supply is OFF.

ACTIVE TEST

Test item	Description
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation • On: Operate • Off: Non-operation
INSIDE BUZZER	This test is able to check warning chime in combination meter operation • Buzzer 1: Combination meter buzzer sounds (pipipi...) when CONSULT screen is touched • Buzzer 2: Combination meter buzzer sounds (pipi-pipi-...) when CONSULT screen is touched • Buzzer 3: Combination meter buzzer sounds (pipipipi-pipipipi-...) when CONSULT screen is touched • Off: Non-operation
INDICATOR	This test is able to check warning lamp operation • KEY ON: [Intelligent Key system malfunction] displays when CONSULT screen is touched • KEY IND: “KEY” Warning lamp blinks when CONSULT screen is touched • Off: Non-operation
FLASHER	This test is able to check security hazard lamp operation The hazard lamps are activated after “LH/RH/Off” on CONSULT screen is touched
HORN	**NOTE:** This item is displayed, but cannot be used
IGN CONT2	This test is able to operate the blower relay in fuse block (J/B) • On: Operates • Off: Non-operation
ENGINE SW ILLUMI	This test is able to check push-ignition switch illumination operation Push-ignition switch illumination illuminates when “ON” on CONSULT screen is touched
ENGINE START REQUEST	This test is able to check BCM sends starter request signal to IPDM E/R via CAN communication • MODE 1: IGN ON, START request OFF • MODE 2: IGN OFF, START request ON • MODE 3: IGN ON, START request ON • Off: Non-operation
IGNITION RELAY	**NOTE:** This item is displayed, but cannot be used
STARTER CUT RELAY	This test is able to operate the starter control relay • On: Operates • Off: Non-operation
ENGINE START	**NOTE:** This item is displayed, but cannot be used
TRUNK/BACK DOOR	**NOTE:** This item is displayed, but cannot be used
RETRACTABLE MIRROR	**NOTE:** This item is displayed, but cannot be used
AUTO ACC 2	This test is able to check BCM sends power supply to audio unit or NAVI control unit • On: Operate • Off: Non-operation
AUTOMATIC BACK DOOR	**NOTE:** This item is displayed, but cannot be used

Test item	Description
AUTO ACC 1	This test is able to check BCM sends power supply to ignition relay • On: Operate • Off: Non-operation
TRUNK/LUGGAGE LAMP TEST	This test is able to check trunk/luggage room lamp operation • On: Operates • Off: Non-operation

MULTI REMOTE ENT

MULTI REMOTE ENT : CONSULT Function (BCM - MULTI REMOTE ENT) (With Super Lock)

INFOID:0000000011022645

WORK SUPPORT

Test item	Description
AUTO LOCK SET	Auto door lock time can be changed in this mode • MODE 1: Non-operation • MODE 2: 30 sec. • MODE 3: 1 minute • MODE 4: 2 minute • MODE 5: 3 minute • MODE 6: 4 minute • MODE 7: 5 minute
ANSWER BACK	**NOTE:** This item is displayed, but cannot be used
ANSWER BACK KEYLESS LOCK UNLOCK	**NOTE:** This item is displayed, but cannot be used
WELCOME LIGHT OP SET	**NOTE:** This item is displayed, but cannot be used

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	Condition
CONFRM ID ALL	Indicates [Yet] at all time.Switches to [Done] when a registered key is inserted into ignition key cylinder.
CONFRM ID4	
CONFRM ID3	
CONFRM ID2	
CONFRM ID1	
NOT REGISTERED	Indicates [ID OK] when key ID that is registered is received or is not yet received. Indicates [ID NG] when key ID that is not registered is received.
TP 4	Indicates the number of IDs that are registered.
TP 3	
TP 2	
TP 1	
CLUTCH SW*1	Indicates [On/Off] condition of clutch interlock switch
BRAKE SW 1	Indicates [On/Off]*2 condition of stop lamp switch power supply
BRAKE SW 2	Indicates [On/Off] condition of stop lamp switch
START CLUTCH SW	Indicates [On/Off] condition of clutch pedal position switch
DOOR STAT-DR	Indicates [LOCK/READY/UNLK] condition of driver door status

Monitor Item	Condition
DOOR STAT-AS	Indicates [LOCK/READY/UNLK] condition of passenger door status
DOOR STAT-RR	Indicates [LOCK/READY/UNLK] condition of rear door RH status
DOOR STAT-RL	Indicates [LOCK/READY/UNLK] condition of rear door LH status
BK DOOR STATE	**NOTE:** This item is displayed, but cannot be monitored
STOP/START SW	Indicates [On/Off] condition of stop/start off switch
RKE-LOCK	Indicates [On/Off] condition of LOCK signal from keyfob
RKE-UNLOCK	Indicates [On/Off] condition of UNLOCK signal from keyfob
RKE-TR/BD	**NOTE:** This item is displayed, but cannot be monitored
RKE-PANIC	**NOTE:** This item is displayed, but cannot be monitored
RKE-MODE CHG	Indicates [On/Off] condition of MODE CHANGE signal from keyfob
KEY SW	Indicates [On/Off] condition of key switch
IGN SW	Indicates [On/Off] condition of ignition switch in ON position
START SW	Indicates [On/Off] condition of ignition switch in START position

*1: It is displayed but does not operate on CVT models.

*2: OFF is displayed when brake pedal is depressed while brake switch power supply is OFF.

ACTIVE TEST

Test item	Description
FLASHER	This test is able to check flasher operation [LH/RH/Off]
HORN	**NOTE:** This item is displayed, but cannot be used
IGN CONT2	This test is able to operate the blower relay in fuse block (J/B) • On: Operates • Off: Non-operation
MIRROR+5	**NOTE:** This item is displayed, but cannot be used
TRUNK/BACK DOOR	**NOTE:** This item is displayed, but cannot be used
RETRACTABLE MIRROR	**NOTE:** This item is displayed, but cannot be used
AUTO ACC 2	This test is able to check BCM sends power supply to audio unit or NAVI control unit • On: Operate • Off: Non-operation
AUTO ACC 1	This test is able to check BCM sends power supply to ignition relay • On: Operate • Off: Non-operation
TRUNK/LUGGAGE LAMP TEST	This test is able to check trunk/luggage room lamp operation • On: Operates • Off: Non-operation

MULTI REMOTE ENT : CONSULT Function (BCM - MULTI REMOTE ENT) (Without Super Lock)

INFOID:0000000011022646

WORK SUPPORT

Test item	Description
AUTO LOCK SET	Auto door lock time can be changed in this mode • MODE 1: Non-operation • MODE 2: 30 sec. • MODE 3: 1 minute • MODE 4: 2 minute • MODE 5: 3 minute • MODE 6: 4 minute • MODE 7: 5 minute
ANSWER BACK	**NOTE:** This item is displayed, but cannot be used
ANSWER BACK KEYLESS LOCK UNLOCK	**NOTE:** This item is displayed, but cannot be used
WELCOME LIGHT OP SET	**NOTE:** This item is displayed, but cannot be used

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	Condition
CONFRM ID ALL	Indicates [Yet] at all time.Switches to [Done] when a registered key is inserted into ignition key cylinder.
CONFRM ID4	
CONFRM ID3	
CONFRM ID2	
CONFRM ID1	
NOT REGISTERED	Indicates [ID OK] when key ID that is registered is received or is not yet received. Indicates [ID NG] when key ID that is not registered is received.
TP 4	Indicates the number of IDs that are registered.
TP 3	
TP 2	
TP 1	
CLUTCH SW*1	Indicates [On/Off] condition of clutch interlock switch
BRAKE SW 1	Indicates [On/Off]*2 condition of stop lamp switch power supply
BRAKE SW 2	Indicates [On/Off] condition of stop lamp switch
START CLUTCH SW	Indicates [On/Off] condition of clutch pedal position switch
DOOR STAT-DR	Indicates [LOCK/READY/UNLK] condition of driver door status
DOOR STAT-AS	Indicates [LOCK/READY/UNLK] condition of passenger door status
DOOR STAT-RR	Indicates [LOCK/READY/UNLK] condition of rear door RH status
DOOR STAT-RL	Indicates [LOCK/READY/UNLK] condition of rear door LH status
BK DOOR STATE	**NOTE:** This item is displayed, but cannot be monitored
STOP/START SW	Indicates [On/Off] condition of stop/start off switch
RKE-LOCK	Indicates [On/Off] condition of LOCK signal from keyfob
RKE-UNLOCK	Indicates [On/Off] condition of UNLOCK signal from keyfob
RKE-TR/BD	**NOTE:** This item is displayed, but cannot be monitored
RKE-PANIC	**NOTE:** This item is displayed, but cannot be monitored
RKE-MODE CHG	Indicates [On/Off] condition of MODE CHANGE signal from keyfob

Monitor Item	Condition
KEY SW	Indicates [On/Off] condition of key switch
IGN SW	Indicates [On/Off] condition of ignition switch in ON position
START SW	Indicates [On/Off] condition of ignition switch in START position

*1: It is displayed but does not operate on CVT models.

*2: OFF is displayed when brake pedal is depressed while brake switch power supply is OFF.

ACTIVE TEST

Test item	Description
FLASHER	This test is able to check flasher operation [LH/RH/Off]
HORN	**NOTE:** This item is displayed, but cannot be used
IGN CONT2	This test is able to operate the blower relay in fuse block (J/B) • On: Operates • Off: Non-operation
MIRROR+5	**NOTE:** This item is displayed, but cannot be used
TRUNK/BACK DOOR	**NOTE:** This item is displayed, but cannot be used
RETRACTABLE MIRROR	**NOTE:** This item is displayed, but cannot be used
AUTO ACC 2	This test is able to check BCM sends power supply to audio unit or NAVI control unit • On: Operate • Off: Non-operation
AUTO ACC 1	This test is able to check BCM sends power supply to ignition relay • On: Operate • Off: Non-operation
TRUNK/LUGGAGE LAMP TEST	This test is able to check trunk/luggage room lamp operation • On: Operates • Off: Non-operation

ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

INFOID:0000000010755146

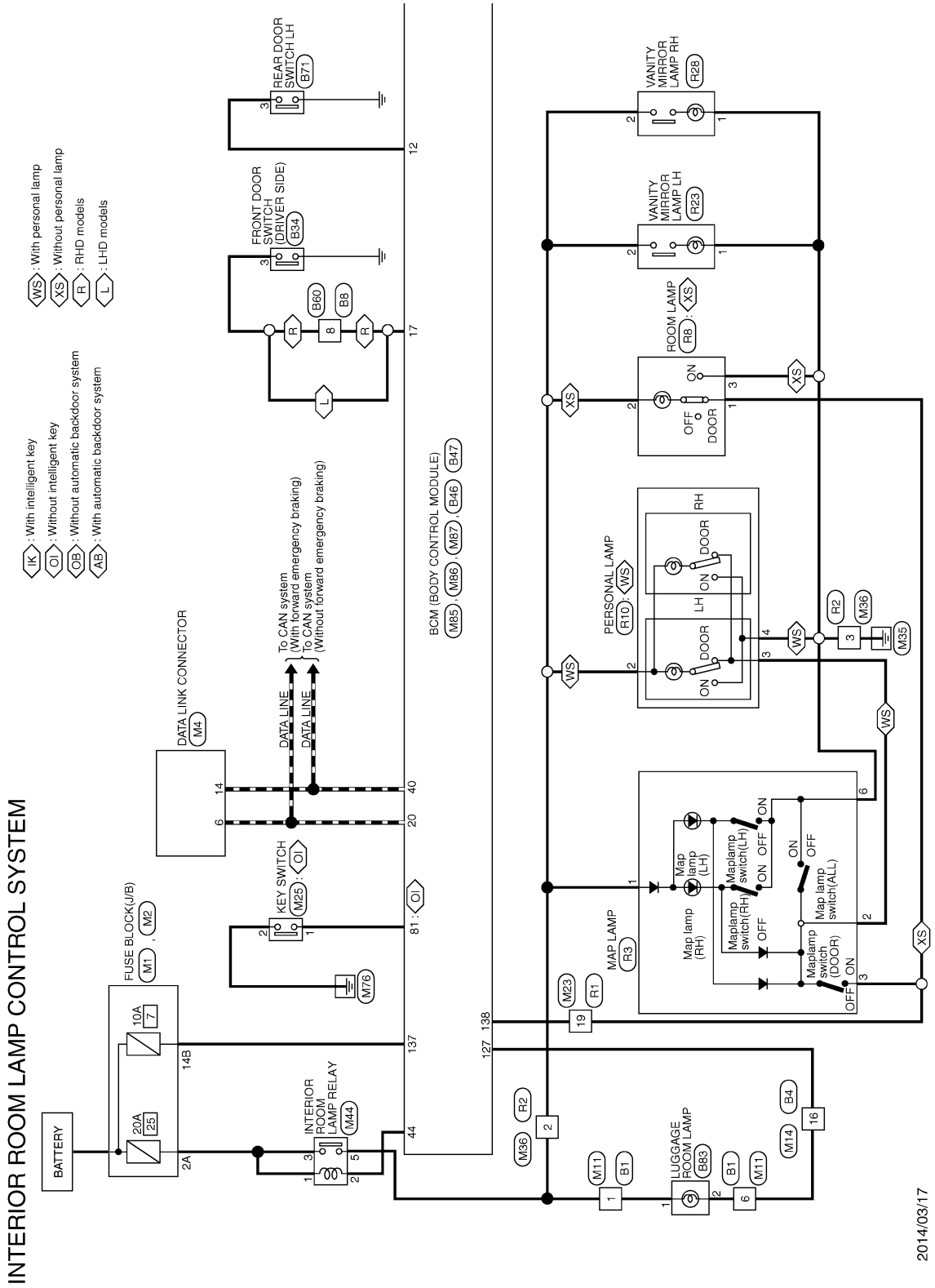
ECU	Reference
BCM	BCS-53, "Reference Value"
	BCS-76, "Fail-safe"
	BCS-77, "DTC Inspection Priority Chart"
	BCS-78, "DTC Index"

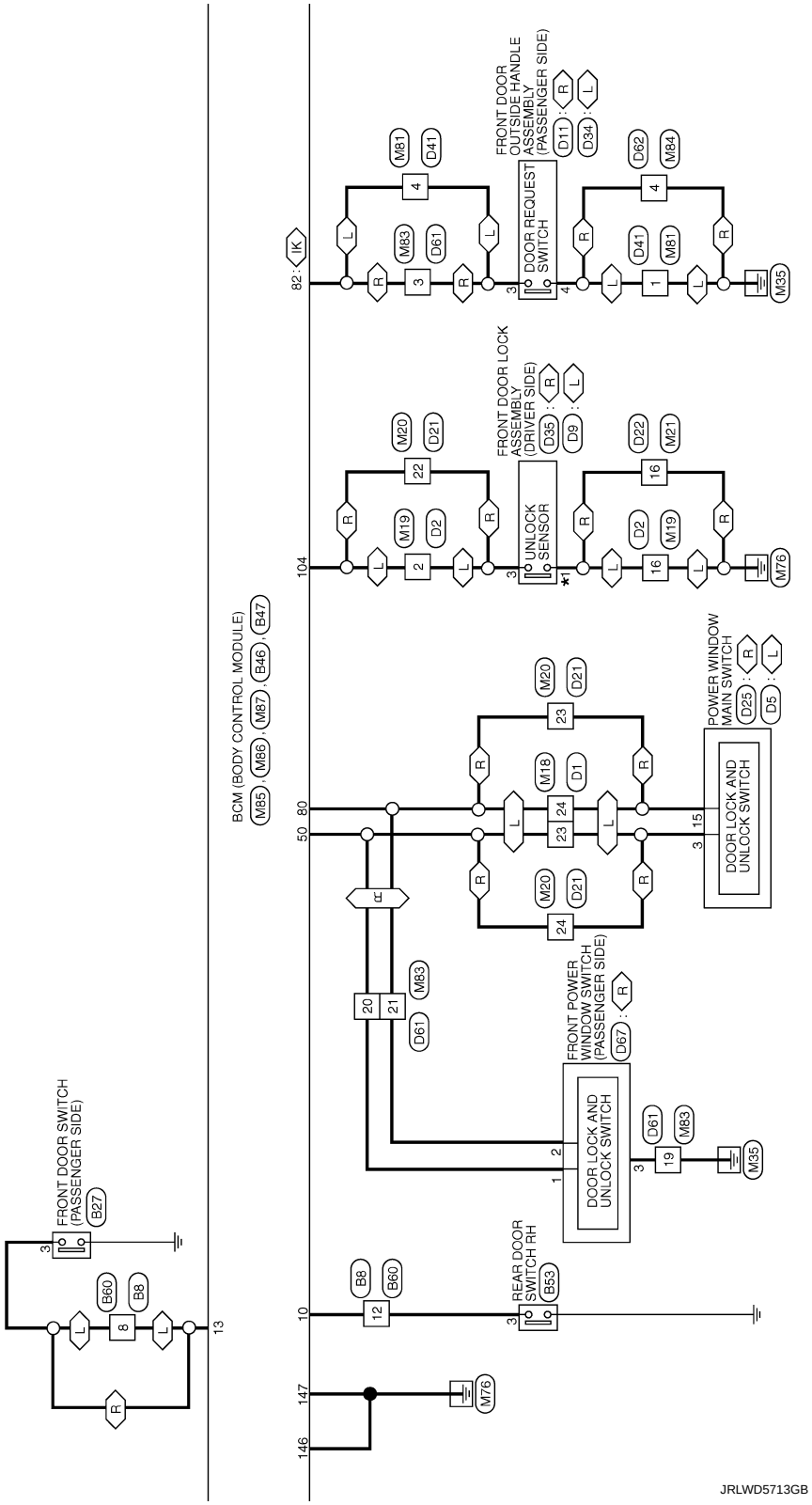
WIRING DIAGRAM

INTERIOR ROOM LAMP CONTROL SYSTEM

Wiring Diagram

INFOID:0000000010755147




BCM (BODY CONTROL MODULE)
M85, M86, M87, B46, B47
FRONT DOOR SWITCH (PASSENGER SIDE)
B27
B60
B8
REAR DOOR SWITCH RH
B53
FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
D67
DOOR LOCK AND UNLOCK SWITCH
POWER WINDOW MAIN SWITCH
D25 : R
D5 : L
DOOR LOCK AND UNLOCK SWITCH
FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
D35 : R
D9 : L
UNLOCK SENSOR
FRONT DOOR OUTSIDE HANDLE ASSEMBLY (PASSENGER SIDE)
D11 : R
D34 : L
DOOR REQUEST SWITCH
IK
M35
M76
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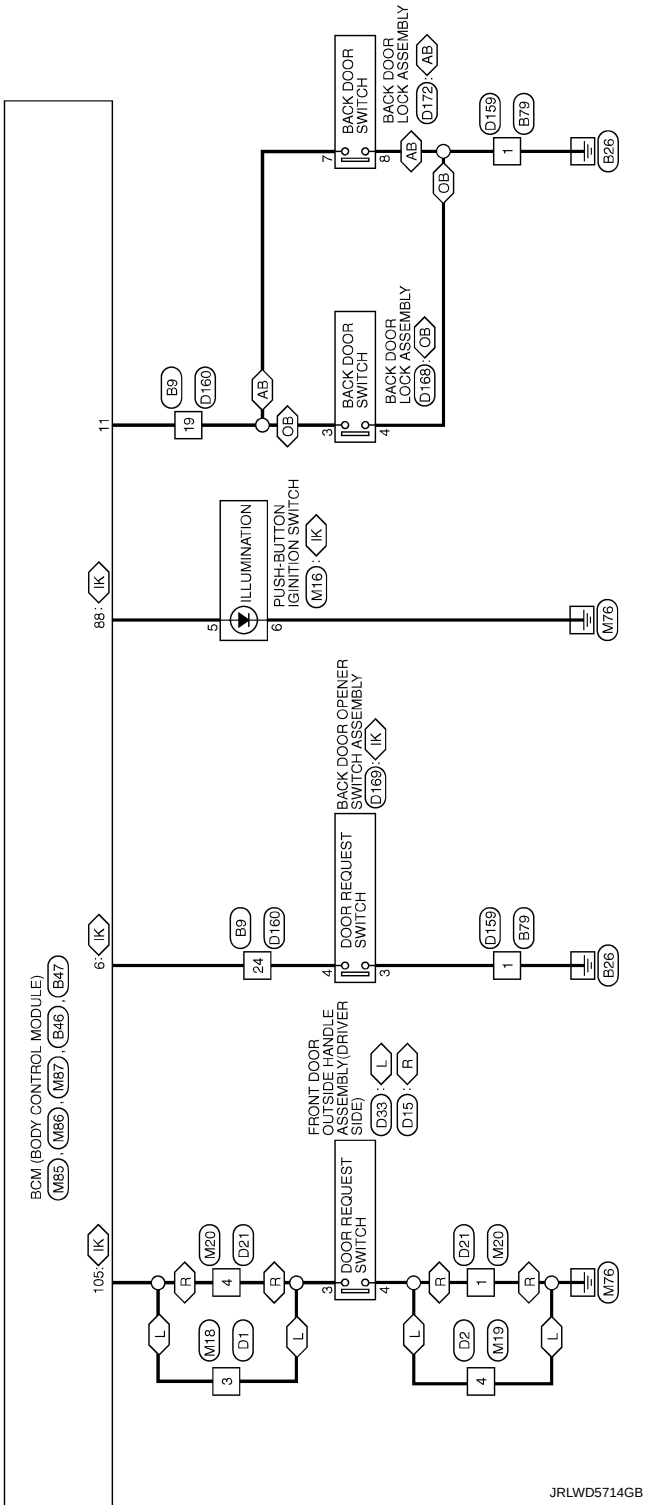
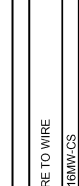

BCM (BODY CONTROL MODULE)
M85, M86, M87, B46, B47
105: IK
88: IK
6: IK
11
BACK DOOR SWITCH
BACK DOOR LOCK ASSEMBLY
AB
OB
D172
D159
B79
B26
B9
D160
19
24
ILLUMINATION
PUSH-BUTTON IGNITION SWITCH
M16 : IK
M76
DOOR REQUEST SWITCH
BACK DOOR OPENER SWITCH ASSEMBLY
D169 : IK
FRONT DOOR OUTSIDE HANDLE ASSEMBLY(DRIVER SIDE)
D33 : L
D15 : R
M20
D21
M18
D1
D2
M19
JRLWD5714GB

INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

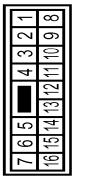
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	LA/Y	-
6	V	-
7	LA/V	-
20	L	- [With diesel engine]
20	LA/L	- [With gasoline engine]
21	B	- [With diesel engine]
21	LA/B	- [With gasoline engine]
24	G	-
25	BR	-
73	LA/Y	-
74	R	-
75	R	-
84	L	-
85	L	-
92	LA/R	-
93	LA/L	-
95	LA/BR	-
97	L	-
98	Y	-
99	LA/P	-
100	GR	- [With diesel engine]
100	LA/GR	- [With gasoline engine]

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
4	LA/G	-
5	W	-
6	G	-
7	R	-
8	LA/G	-
9	P	-
10	R	-
11	LA/V	-
12	LA/L	-
13	LA/R	-
14	LA/BG	-
15	LA/BR	-
16	R	-

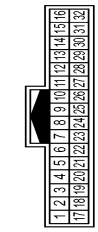
Connector No.	B8
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



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

9	R	-
10	LA/W	-
11	LA/BR	-
12	W	-
13	P	-
14	R	-
15	P	-
16	P	-

Connector No.	B9
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
4	W	-
5	R	-
6	B	-
7	W	-
8	SHIELD	-
13	W	-
14	V	-
15	BR	-
16	SB	-
17	LA/W	-
18	LA/BR	-
19	LG	-
20	LA/G	-
21	LA/G	-
22	LA/R	-
23	LA/R	-
24	R	-
29	Y	-
30	G	-
31	GR	-
32	LG	-

Connector No.	B27
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH04FW-NH

Terminal No.	Color Of Wire	Signal Name [Specification]
3	GR	- [For LHD models]
3	SB	- [For RHD models]

Connector No.	B34
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	TH04FW-NH

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

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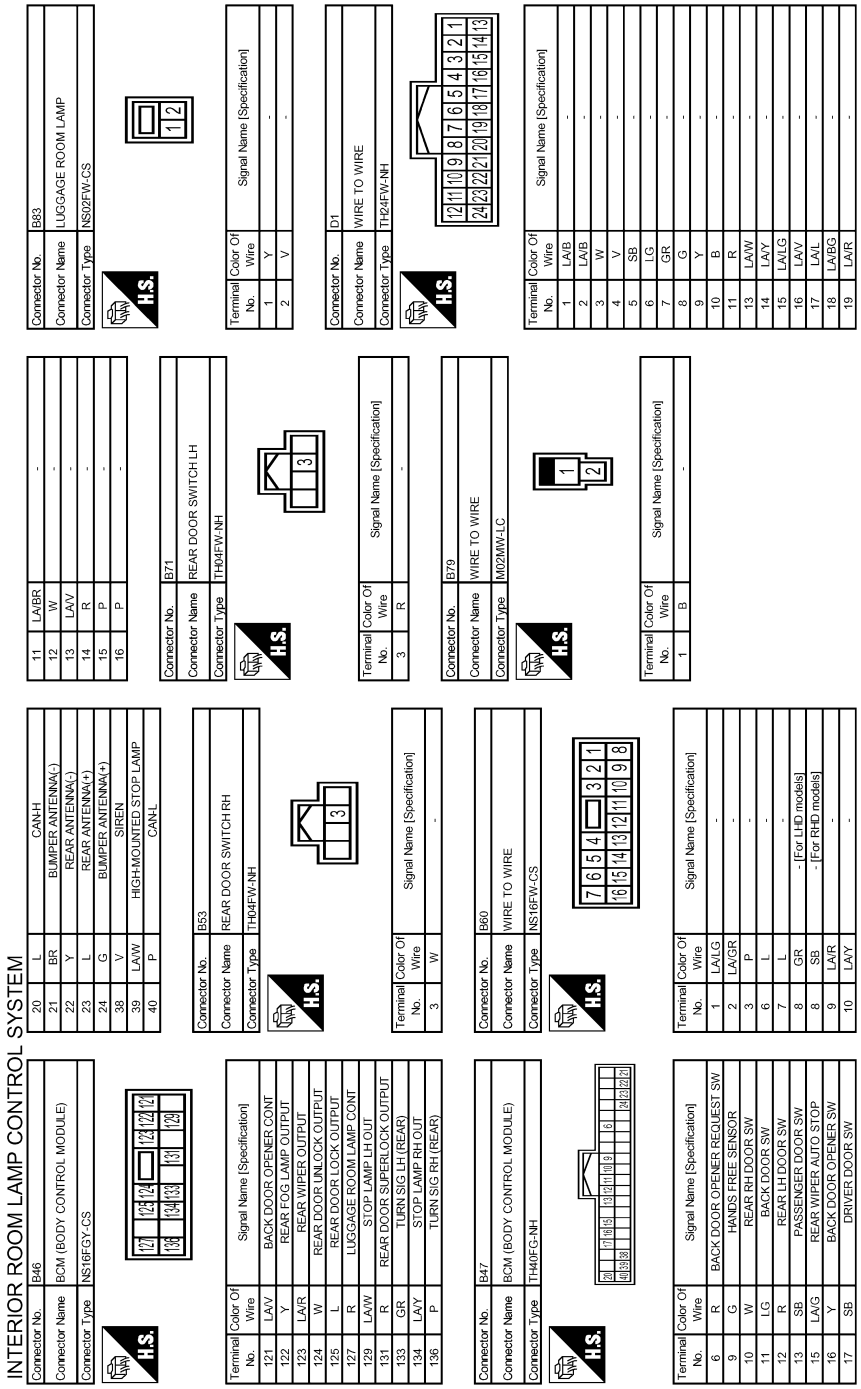

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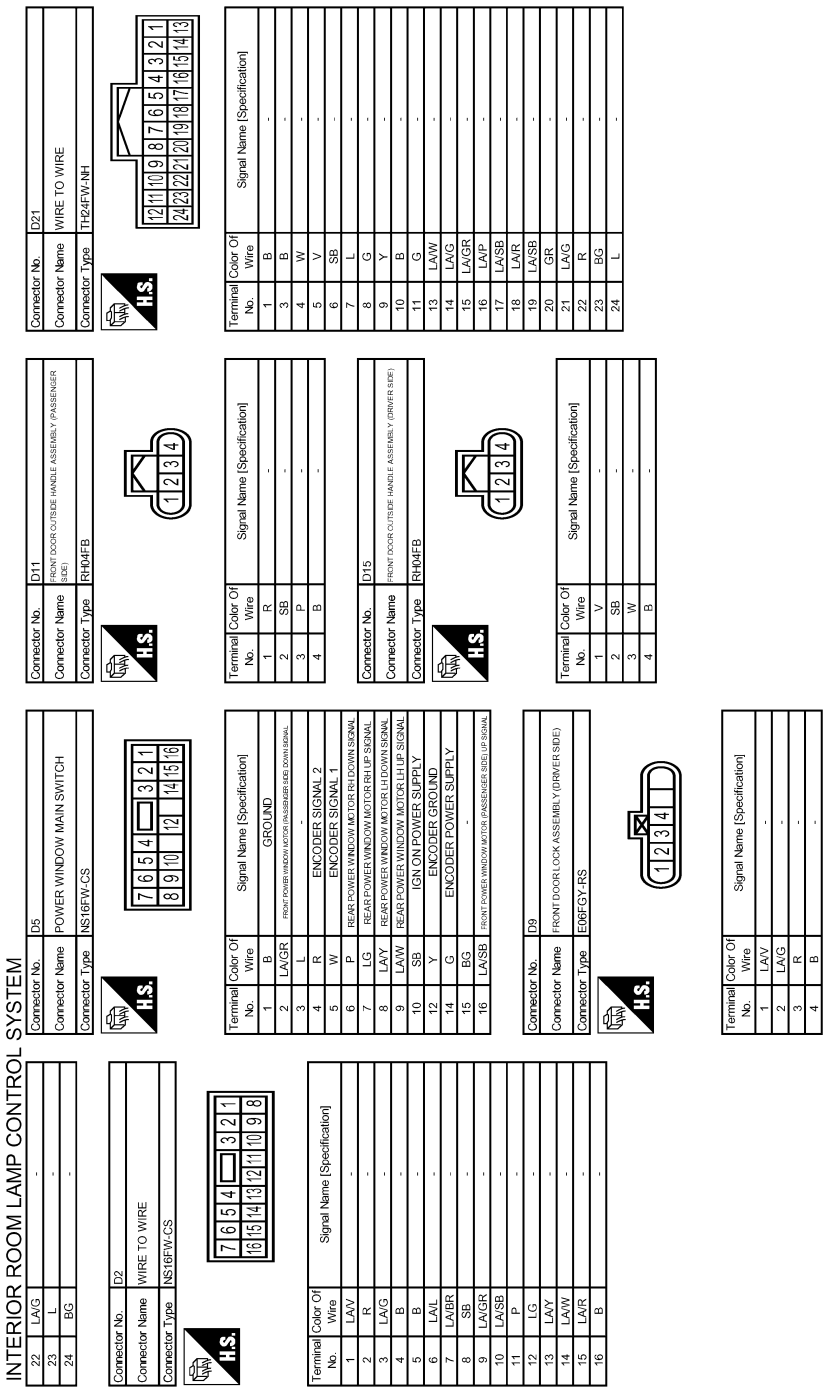

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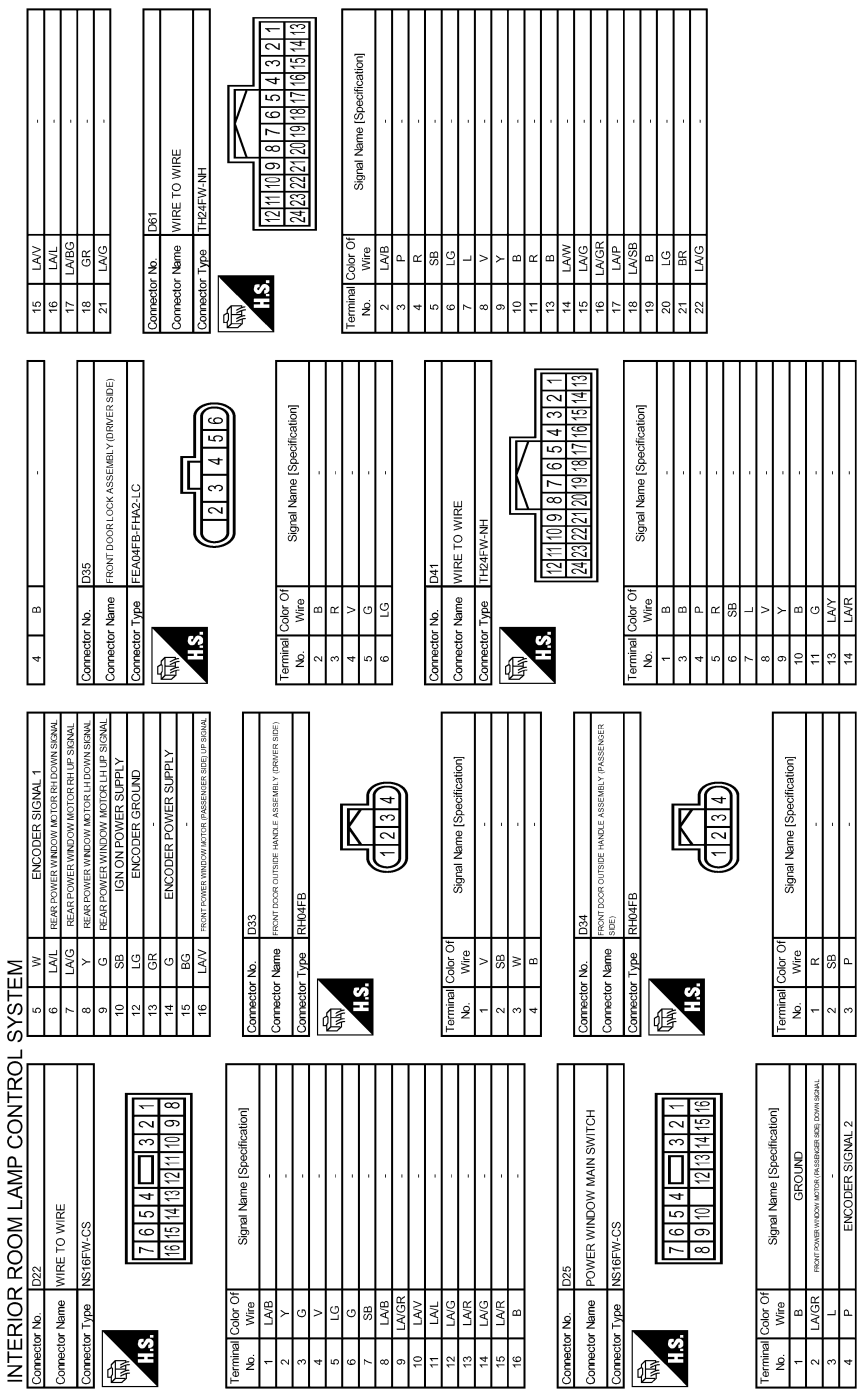

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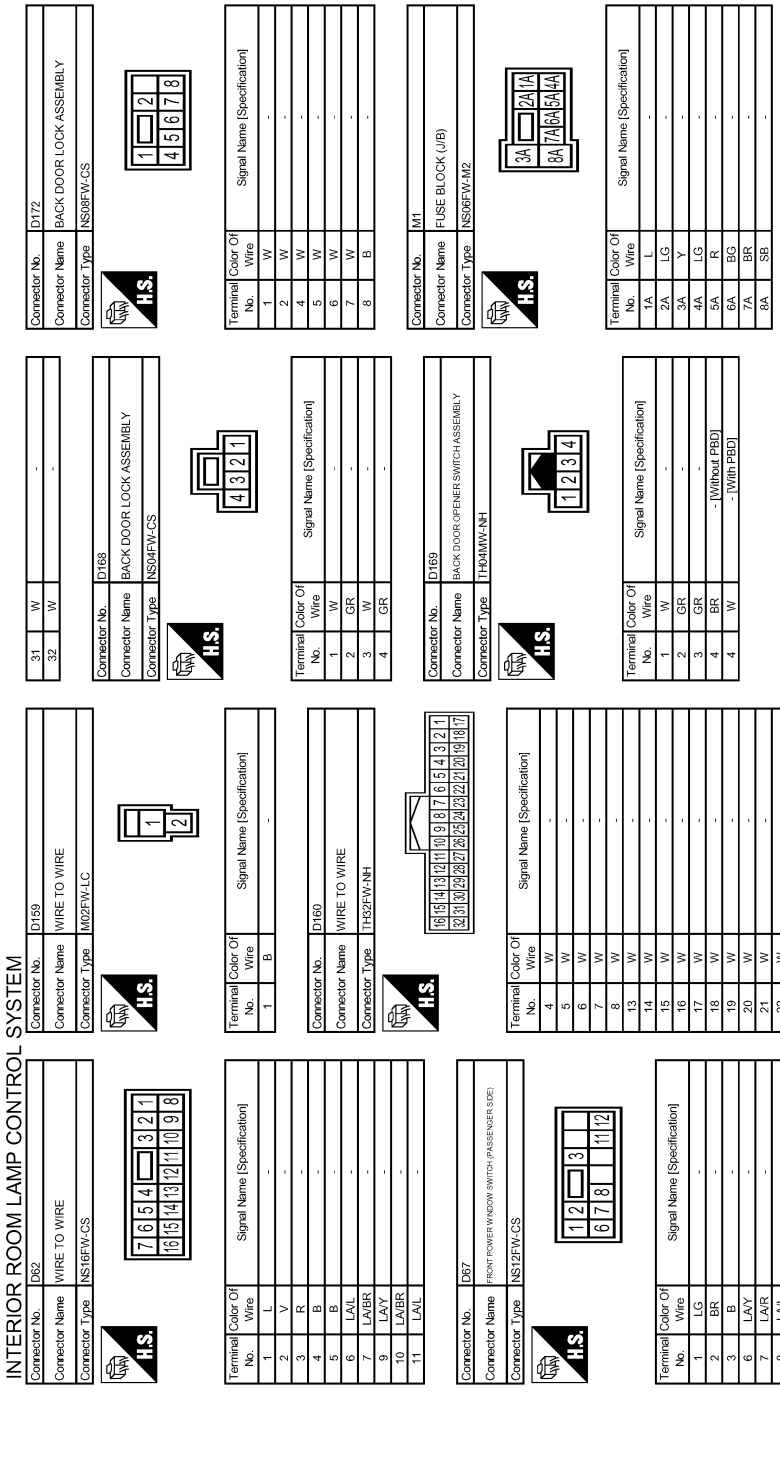

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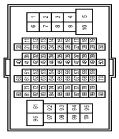
INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FBR-CS

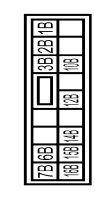
Terminal No.	Color Of Wire	Signal Name [Specification]
10B	GR	- [With MR20 engine or R9M engine]
10B	LA/GR	- [With QR25 Engine]
12B	BR	-
14B	W	-
15B	W	-
16B	GR	-
1B	G	-
2B	R	-
3B	V	-
6B	LA/L	-
7B	LA/V	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



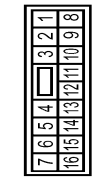
Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	Y	-
6	GR	-
7	LG	-
20	LA/L	-
21	LA/B	-
24	G	-
25	BR	-
73	Y	-
74	R	-
75	R	-
84	L	-
85	L	-
92	LA/W	-
93	LA/Y	-
95	SB	-
97	B/G	-
98	Y	-
99	W	-
100	LA/R	-

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	B0716FW



Terminal No.	Color Of Wire	Signal Name [Specification]
3	LG	-
4	B	-
5	B	-
6	L	-
8	Y	-
11	SB	-
14	P	-
15	BR	-
16	W	-

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

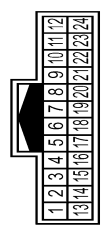


Terminal No.	Color Of Wire	Signal Name [Specification]
4	Y	-
5	W	-
6	LA/G	-
7	R	-
8	BR	-
9	G	-
10	R	-
11	LG	-
12	GR	-
13	BR	-
14	LA/L	-
15	LA/BR	-
16	GR	-

Connector No.	M16
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TH08FW-NH

Terminal No.	Color Of Wire	Signal Name [Specification]
4	B	-
5	W	-
6	B	-
8	Y	-

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



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

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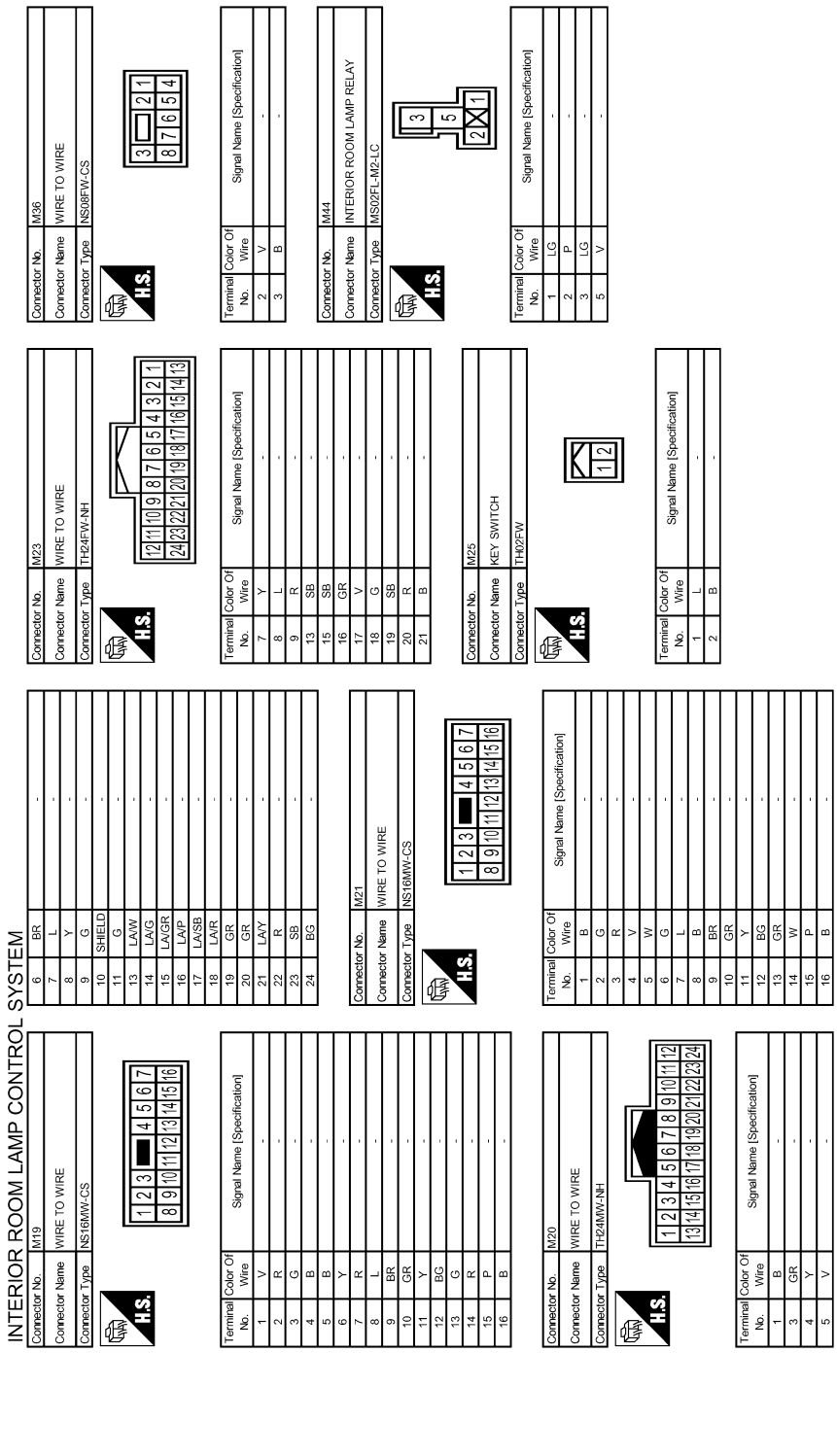

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INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	M81
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	GR	- [With SOW]
3	Y	- [Without SOW]
4	V	-
5	BR	-
6	SB	-
7	B	-
8	L	-
9	Y	-
10	SHIELD	-
11	G	-
13	LA/SB	-
14	LA/GR	-
15	LA/V	-
16	LA/L	-
17	LA/BG	-
18	GR	-
21	LA/V	-

Connector No.	M83
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH

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

Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

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

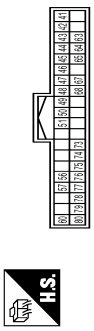
Connector No.	M85
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FBR-CS

Terminal No.	Color Of Wire	Signal Name [Specification]
137	W	BAT POWER SUPPLY (FUSE)
138	SB	INT ROOM LAMP CONT
139	L	PASSENGER DOOR UNLOCK OUTPUT
141	V	FRONT DOOR LOCK OUTPUT
143	LA/V	POWER SUPPLY (FR DOOR LK ACT)
144	BG	POWER SUPPLY (TURN SIGNAL)
145	GR	POWER SUPPLY (STOP LAMP)
146	B	GROUND
147	B	GROUND
148	G	DRIVER DOOR UNLOCK OUTPUT
149	W	FRONT DOOR SUPERLOCK OUTPUT
151	R	POWER SUPPLY (REAR DOOR LK ACT)
152	LG	POWER SUPPLY (REAR WIPER)

Connector No.	M86
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH

Terminal No.	Color Of Wire	Signal Name [Specification]
81	L	KEY SWITCH
82	LA/R	KEY SW (ST) [Without Intelligent key]
82	W	PASS DOOR REQ SW [With Intelligent key]
84	BR	COMBI SW OUTPUT 2
85	SB	COMBI SW OUTPUT 1
86	P	COMBI SW OUTPUT 3
87	BG	COMBI SW OUTPUT 4

Connector No.	M87
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGY-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
41	V	STEERING LOCK UNIT POWER SUPPLY
42	LA/G	TURN SIG LH (SIDE)
43	LA/Y	TURN SIG RH (SIDE)
44	P	INTERIOR ROOM LAMP RELAY CONT
45	R	CAN-L
46	L	CAN-H
47	G	LIGHT & RAIN SENSOR
48	L	CAN-H
49	R	CAN-L
50	BG	DOOR LOCK SW
51	Y	HAZARD SW

88	W	PUSH-BTN IGN SW ILL CONT
90	Y	SIL CONDITION
94	G	DETENTION SW
95	V	EXTENDED STORAGE FUSE SW
99	R	STOP/START OFF SW
100	V	DRIVER DOOR ANT +
101	Y	PUSH SW
104	R	DR DOOR UNLK SENS
105	Y	DR DOOR REQ SW
106	W	ACC OUTPUT
107	V	SENSOR CANCEL SW
109	P	NATS ANTENNA AMP.
110	BG	DIMMER SIGNAL
111	R	DOOR LK STAT IND OUTPUT
112	SB	STOP/START OFF SW INDICATOR
113	LG	NATS ANTENNA AMP.
114	Y	NATS ANTENNA AMP.
115	W	NATS ANTENNA AMP.
116	BG	ROOM ANT 1 -
117	GR	ROOM ANT 1 +
118	SB	PASSENGER DOOR ANT -
119	P	PASSENGER DOOR ANT +
120	BR	RRIVER DOOR ANT +

JRLWD5722GB

INTERIOR ROOM LAMP CONTROL SYSTEM

56	P	DONGLE
57	L	CVT SHIFT SELECT (DETENT SW) PWR
60	R	HEADLAMP WASHER SW
63	G	POWER WINDOW RELAY CON
64	LA/R	REAR WINDOW DEFOGGER RELAY CONT
65	BR	ACC RELAY CONT
67	Y	IGN RELAY (F/B) CONT OUTPUT
68	LA/W	BLOWER RELAY CONT
73	LG	COMBI SW INPUT 5
74	Y	COMBI SW OUTPUT 5
75	BG	SECURITY IND LAMP CONT
76	G	COMBI SW INPUT 3
77	GR	COMBI SW INPUT 4
78	V	COMBI SW INPUT 1
79	W	COMBI SW INPUT 2
80	SB	DOOR UNLOCK SW

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH

Terminal No.	Color Of Wire	Signal Name [Specification]
3	-	-
7	-	-
8	-	-
9	-	-
13	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-
21	-	-

Connector No.	R2
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS

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

Connector No.	R3
Connector Name	MAP LAMP
Connector Type	TH08FW-1V-NH

Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	SB	-
3	SB	-
6	B	-
7	B	-
8	R	-

Connector No.	R8
Connector Name	ROOM LAMP
Connector Type	TB03FW

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

Connector No.	R10
Connector Name	PERSONAL LAMP
Connector Type	TH04FW-NH

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

Connector No.	R23
Connector Name	VANITY MIRROR LAMP LH
Connector Type	MCA02FW

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

Connector No.	R28
Connector Name	VANITY MIRROR LAMP RH
Connector Type	MCA02FW

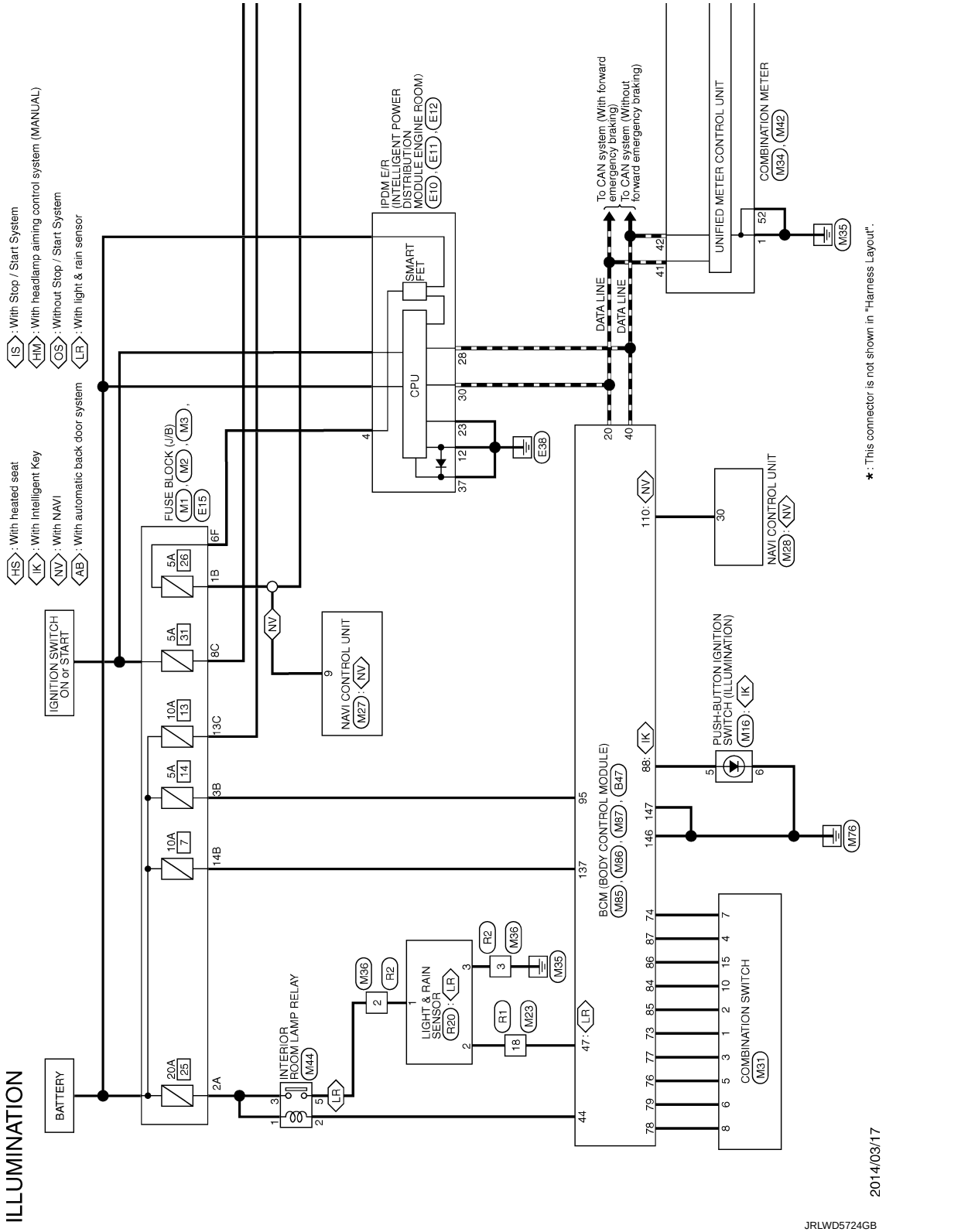
Terminal No.	Color Of Wire	Signal Name [Specification]
1	-	-
2	-	-

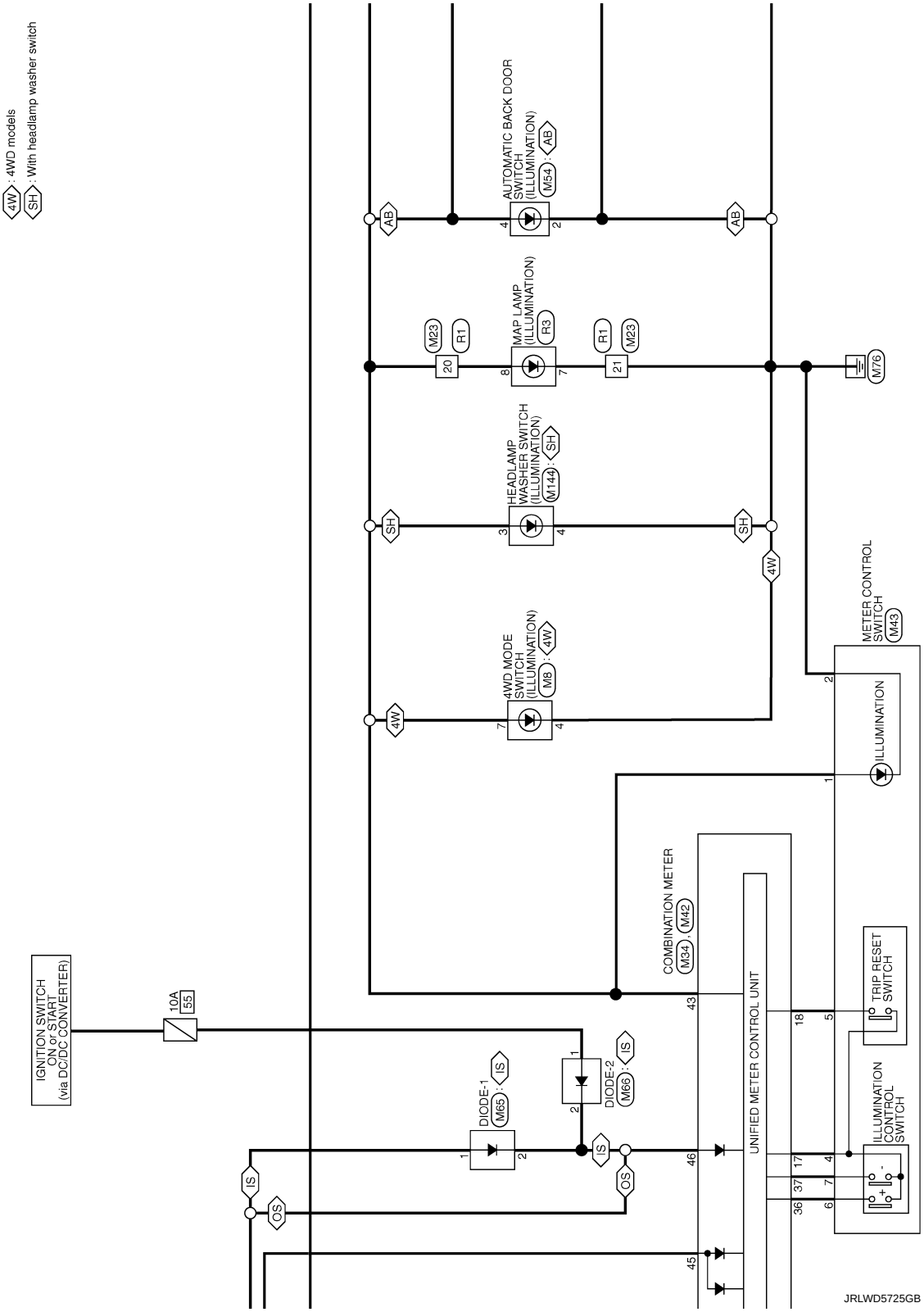
JRLWD5723GB

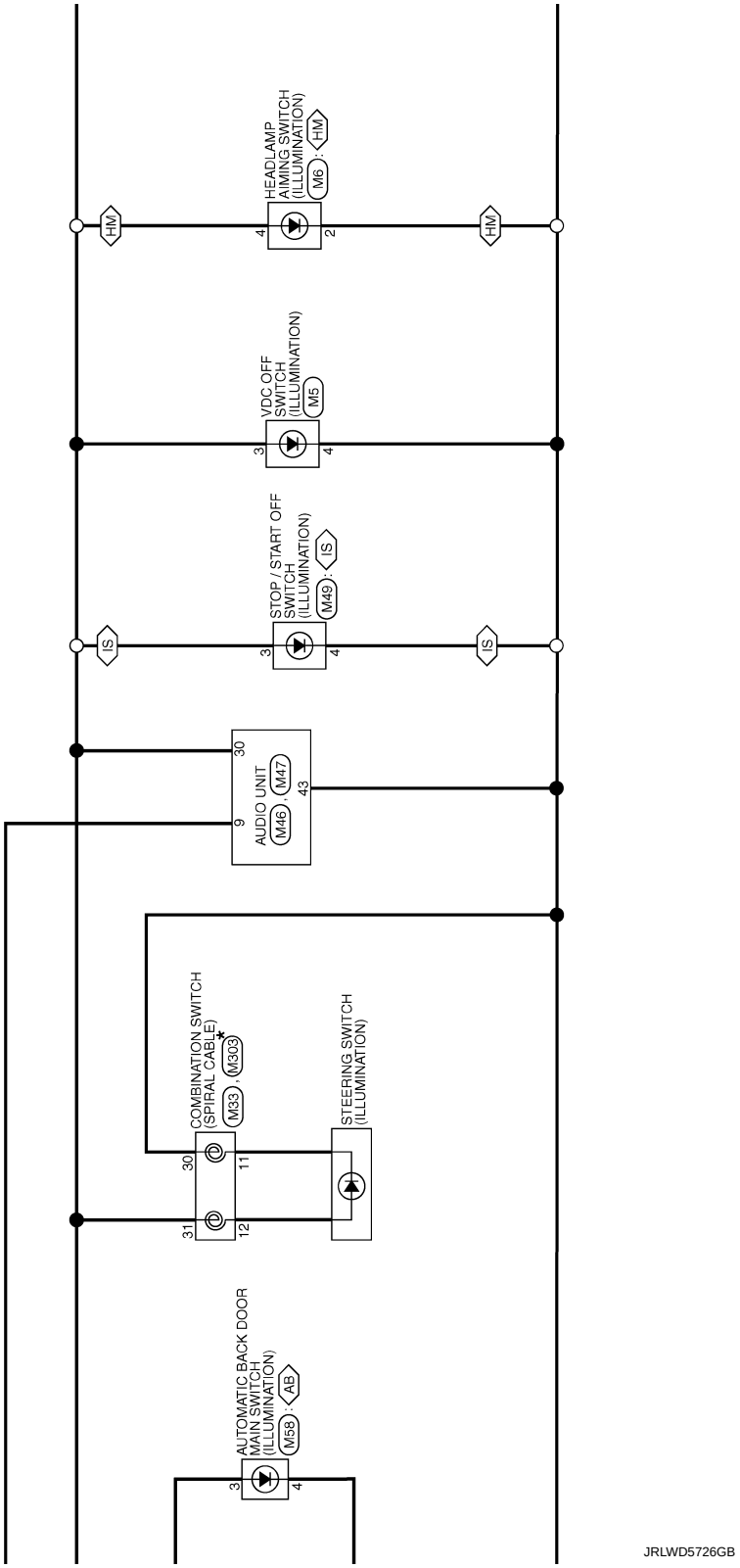
ILLUMINATION

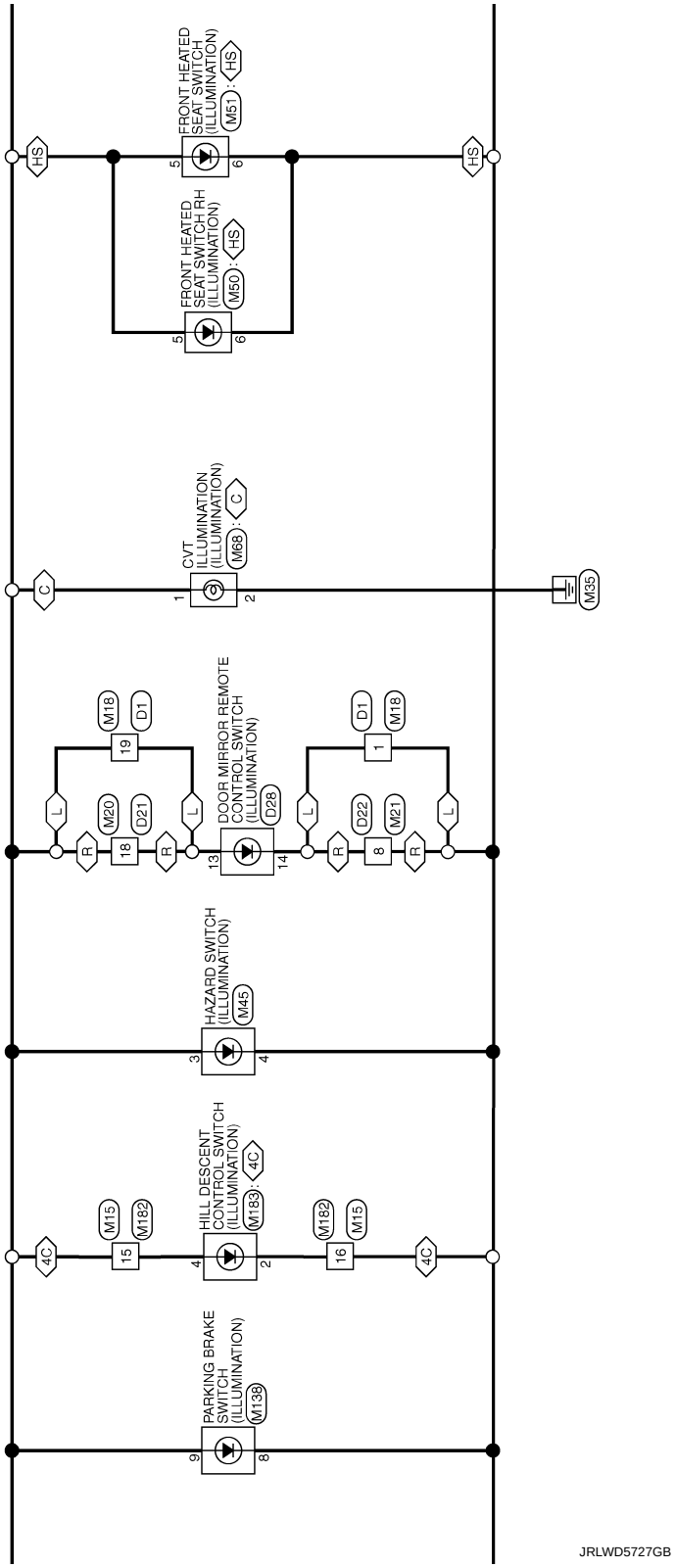
Wiring Diagram

INFOID:0000000010755148

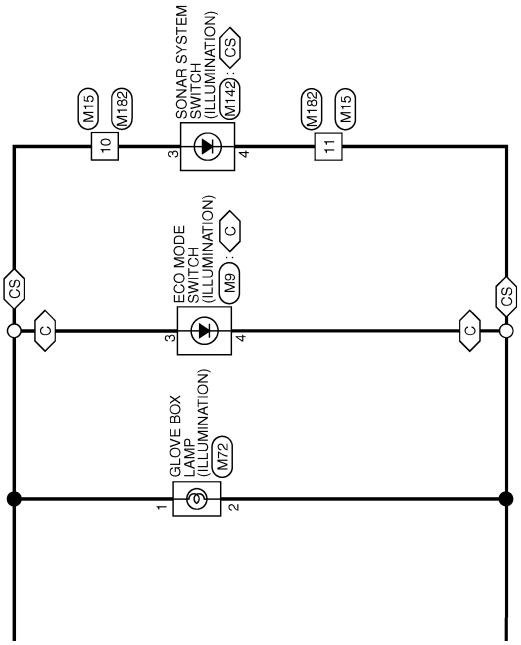



4W : 4WD models
SH : With headlamp washer switch
AUTOMATIC BACK DOOR SWITCH (ILLUMINATION) M54 : AB
MAP LAMP (ILLUMINATION) R3
HEADLAMP WASHER SWITCH (ILLUMINATION) M144 : SH
4WD MODE SWITCH (ILLUMINATION) M8 : 4W
METER CONTROL SWITCH M43
ILLUMINATION
IGNITION SWITCH ON or START (via DC/DC CONVERTER)
10A 55
DIODE-1 M65 : IS
DIODE-2 M66 : IS
COMBINATION METER M34, M42
UNIFIED METER CONTROL UNIT
TRIP RESET SWITCH
ILLUMINATION CONTROL SWITCH
JRLWD5725GB


HEADLAMP AIMING SWITCH (ILLUMINATION)
M6
HM
4
2
VDC OFF SWITCH (ILLUMINATION)
M5
3
4
STOP / START OFF SWITCH (ILLUMINATION)
M49
IS
3
4
AUDIO UNIT
M46
M47
30
9
43
COMBINATION SWITCH (SPIRAL CABLE)
M33
M303
30
31
11
12
STEERING SWITCH (ILLUMINATION)
AUTOMATIC BACK DOOR MAIN SWITCH (ILLUMINATION)
M58
AB
3
4
JRLWD5726GB


FRONT HEATED SEAT SWITCH (ILLUMINATION) : M51
FRONT HEATED SEAT SWITCH RH (ILLUMINATION) : M50
HS
CVT ILLUMINATION (ILLUMINATION) : M68
C
M35
DOOR MIRROR REMOTE CONTROL SWITCH (ILLUMINATION) : D28
M18
D1
M20
D21
D22
M21
L
R
HAZARD SWITCH (ILLUMINATION) : M45
HILL DESCENT CONTROL SWITCH (ILLUMINATION) : M133
4C
M15
M182
PARKING BRAKE SWITCH (ILLUMINATION) : M138
JRLWD5727GB

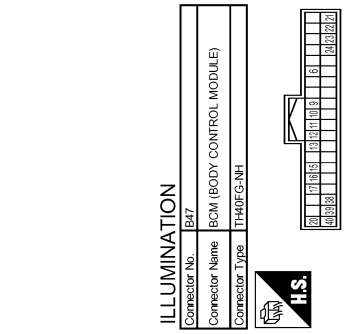
L : LHD models
R : RHD models
C : With CVT
4C : 4WD models with CVT
CS : With sonar system OFF switch



JRLWD5728GB

ILLUMINATION

Connector No.	B47
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH



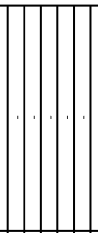
Terminal No.	Color Of Wire	Signal Name [Specification]
6	R	BACK DOOR OPENER REQUEST SW
9	G	HANDS FREE SENSOR
10	W	REAR RH DOOR SW
11	LG	BACK DOOR SW
12	R	REAR LH DOOR SW
13	SB	PASSENGER DOOR SW
15	LA/G	REAR WIPER AUTO STOP
16	Y	BACK DOOR OPENER SW
17	SB	DRIVER DOOR SW
20	L	CAN-H
21	BR	BUMPER ANTENNA(-)
22	Y	REAR ANTENNA(-)
23	L	REAR ANTENNA(+)
24	G	BUMPER ANTENNA(+)
38	V	SIREN
39	LA/W	HIGH-MOUNTED STOP LAMP
40	P	CAN-L

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH

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

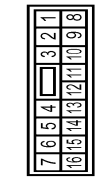
Terminal No.	Color Of Wire	Signal Name [Specification]
11	R	-
13	LA/W	-
14	LA/Y	-
15	LA/LG	-
16	LA/V	-
17	LA/L	-
18	LA/BG	-
19	LA/R	-
22	LA/G	-
23	L	-
24	BG	-

Connector No.	D21
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



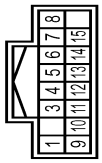
Terminal No.	Color Of Wire	Signal Name [Specification]
13	LA/W	-
14	LA/G	-
15	LA/GR	-
16	LA/P	-
17	LA/SB	-
18	LA/R	-
19	LA/SB	-
20	GR	-
21	LA/G	-
22	R	-
23	BG	-
24	L	-

Connector No.	D22
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



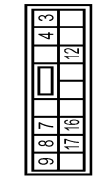
Terminal No.	Color Of Wire	Signal Name [Specification]
1	LA/B	-
2	Y	-
3	G	-
4	V	-
5	LG	-
6	G	-
7	SB	-
8	LA/B	-
9	LA/GR	-
10	LA/V	-
11	LA/L	-
12	LA/G	-
13	LA/R	-
14	LA/G	-
15	LA/R	-
16	B	-

Connector No.	D28
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	TH16FB-NH



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

Connector No.	E10
Connector Name	PDM-E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FGY-CS



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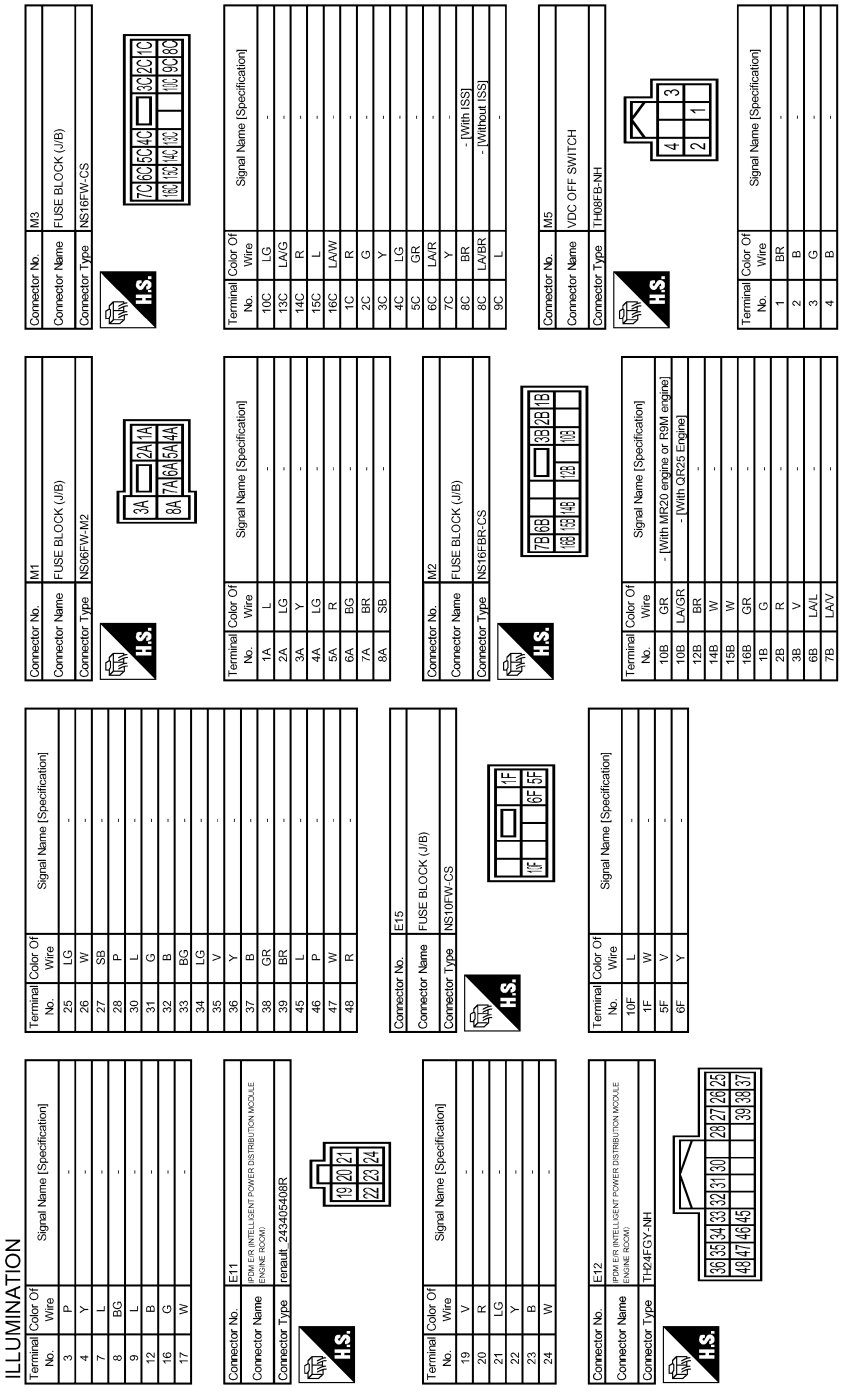
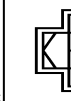


JRLWD5730GB

ILLUMINATION

Connector No.	M6
Connector Name	HEADLAMP AIMING SWITCH
Connector Type	TH04FW-NH

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	GR	GND
3	G	-
4	LG	-

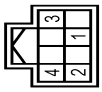
Connector No.	M8
Connector Name	4WD MODE SWITCH
Connector Type	TH08FW-NH

H.S.

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

Connector No.	M9
Connector Name	ECO MODE SWITCH
Connector Type	TH08FGY-NH

H.S.



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

Connector No.	M15
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	- [With corner sensor]
1	Y	- [Without corner sensor]
2	B	- [Without corner sensor]
2	SB	- [With corner sensor]
7	LA/L	-
8	B	-
8	B	- [With corner sensor]
9	G	- [Without corner sensor]
10	B	- [Without corner sensor]
10	Y	- [With corner sensor]
11	B	-
15	G	-
16	B	-

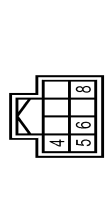
Connector No.	M16
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TH08FW-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
4	B	-
5	W	-
6	B	-
8	Y	-

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH

H.S.



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

Connector No.	M20
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH

H.S.

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

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ILLUMINATION

Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

H.S.

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	B	-
2	G	-
3	R	-
4	V	-
5	W	-
6	G	-
7	L	-
8	B	-
9	BR	-
10	GR	-
11	Y	-
12	BG	-
13	GR	-
14	W	-
15	P	-
16	B	-

Connector No.	M23
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH

H.S.

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

Terminal No.	Color Of Wire	Signal Name [Specification]
7	Y	-
8	L	-
9	R	-
13	SB	-
15	SB	-
16	GR	-
17	V	-
18	G	-
19	SB	-
20	R	-
21	B	-

Connector No.	M27
Connector Name	NAVI CONTROL UNIT
Connector Type	NH18FW-CS2

H.S.

19	11	12	13	14		17	18	20
	2	3	4	5		7	8	9

Terminal No.	Color Of Wire	Signal Name [Specification]
2	W	SOUND SIGNAL FRONT SPEAKER LH + [With 6 Speaker]
2	Y	SOUND SIGNAL FRONT SPEAKER LH + [With 4 Speaker]
3	P	SOUND SIGNAL FRONT LH - [With 6 Speaker]
3	R	SOUND SIGNAL FRONT LH - [With 4 Speaker]
4	GR	SOUND SIGNAL REAR LH +
5	BR	SOUND SIGNAL REAR LH -
7	W	AUTO_ACC INPUT SIGNAL
8	L	CAN-H
9	V	ILLUMINATION SIGNAL
11	G	SOUND SIGNAL FRONT RH + [With 6 Speaker]
11	W	SOUND SIGNAL FRONT RH + [With 4 Speaker]
12	GR	SOUND SIGNAL FRONT RH - [With 4 Speaker]
12	V	SOUND SIGNAL FRONT RH - [With 6 Speaker]
13	LG	SOUND SIGNAL REAR RH +
14	Y	SOUND SIGNAL REAR RH -
17	R	CAN-L
18	G	VEHICLE SPEED SIGNAL (8 PULSE)
19	L	BATTERY POWER SUPPLY
20	B	GROUND

Connector No.	M28
Connector Name	NAVI CONTROL UNIT
Connector Type	TH24FW-NH

H.S.

21	22	23		25			30	31	32
	34	35	36	37	38	39	40	41	42

Terminal No.	Color Of Wire	Signal Name [Specification]
21	G	AUX AUDIO SIGNAL RH
22	Y	AUX AUDIO SIGNAL GROUND
23	L	AUX AUDIO SIGNAL LH
25	BR	REVERSE SIGNAL
30	BG	DIMMER SIGNAL
31	SB	AV COMMUNICATION SIGNAL (H)
32	LG	AV COMMUNICATION SIGNAL (L)
34	W	MICROPHONE SIGNAL
35	B	MICROPHONE VCC
36	SHIELD	MICROPHONE GROUND
37	SHIELD	SHIELD
38	SB	AV COMMUNICATION SIGNAL (H)
39	LG	AV COMMUNICATION SIGNAL (L)
40	LG	IGNITIO NSIGNAL
41	G	CAMERA IMAGE SIGNAL
42	SHIELD	CAMERA IMAGE SIGNAL GROUND

Connector No.	M31
Connector Name	COMBINATION SWITCH
Connector Type	TH16FW-NH

H.S.

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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	INPUT_5
2	SB	OUTPUT_1
3	GR	INPUT_4
4	BG	OUTPUT_4
5	G	INPUT_3
6	W	INPUT_2
7	Y	-
8	V	-
9	G	RR_WASH_MOTOR
10	BR	OUTPUT_2
11	Y	FR_WASH_MOTOR
14	LG	IGN
15	P	OUTPUT_3
16	GR	GND

Connector No.	M33
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TH12FW-NH

H.S.

31	30	29	28	27	26
24	23	22	21	20	

Terminal No.	Color Of Wire	Signal Name [Specification]
20	P	CRUISE_CTRL
21	V	SPEED_LIMIT
22	G	IGN
23	L	-
24	GR	-
26	BG	-
27	LA/R	-
28	LA/BR	-
29	Y	-
30	B	-
31	R	-

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ILLUMINATION

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

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
7	BG	SECURITY SIGNAL
9	GR	ECO MODE SWITCH SIGNAL
15	L	AMBIENT SENSOR SIGNAL
17	BG	METER CONTROL SWITCH GROUND
18	SB	TRIP RESET SWITCH SIGNAL
20	Y	AMBIENT SENSOR GROUND
21	L	STEERING SWITCH GROUND
22	Y	STEERING SWITCH SIGNAL A
23	GR	STEERING SWITCH SIGNAL B
25	V	BRAKE FLUID LEVEL SWITCH SIGNAL
28	Y	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
30	LG	MANUAL MODE SIGNAL
31	SB	NON-MANUAL MODE SIGNAL
32	BG	MANUAL MODE SHIFT UP SIGNAL
33	BR	MANUAL MODE SHIFT DOWN SIGNAL
36	GR	ILLUMINATION CONTROL SWITCH SIGNAL (+)
37	V	ILLUMINATION CONTROL SWITCH SIGNAL (-)
38	G	VEHICLE SPEED SIGNAL (8-PULSE)
39	W	VEHICLE SPEED SIGNAL (2-PULSE)

Connector No.	M36
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS

H.S.

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

Connector No.	M42
Connector Name	COMBINATION METER
Connector Type	TH12FW-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
41	L	CAN-H
42	P	CAN-L
43	W	ILLUMINATION CONTROL SIGNAL
44	LA/B	FUEL LEVEL SENSOR GROUND
45	LA/G	BATTERY POWER SUPPLY
46	LA/BR	IGNITION SIGNAL [Without ISS]
46	V	IGNITION SIGNAL [With ISS]
47	SB	AV COMMUNICATION SIGNAL (H)
48	LG	AV COMMUNICATION SIGNAL (L)
49	Y	OIL LEVEL SENSOR SIGNAL
50	BG	OIL LEVEL SENSOR GROUND
51	LA/L	FUEL LEVEL SENSOR SIGNAL
52	B	GROUND

Connector No.	M43
Connector Name	METER CONTROL SWITCH
Connector Type	TH08FW-NH

H.S.

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

Connector No.	M44
Connector Name	INTERIOR ROOM LAMP RELAY
Connector Type	MS02FL-M2-LC

H.S.

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

Connector No.	M45
Connector Name	HAZARD SWITCH
Connector Type	TH04FW-NH

H.S.

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

Connector No.	M46
Connector Name	AUDIO UNIT
Connector Type	NH18FW-CS2

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
2	W	SOUND SIGNAL FRONT SPEAKER LH + [With 6 Speaker]
2	Y	SOUND SIGNAL FRONT SPEAKER LH + [With 4 Speaker]
3	P	SOUND SIGNAL FRONT SPEAKER LH - [With 6 Speaker]
3	R	SOUND SIGNAL FRONT SPEAKER LH - [With 4 Speaker]
4	GR	SOUND SIGNAL REAR SPEAKER LH +
5	BR	SOUND SIGNAL REAR SPEAKER LH -
7	LG	IGNITION SIGNAL
9	V	ILLUMINATION SIGNAL
11	G	SOUND SIGNAL FRONT SPEAKER RH + [With 6 Speaker]
11	W	SOUND SIGNAL FRONT SPEAKER RH + [With 4 Speaker]
12	GR	SOUND SIGNAL FRONT SPEAKER RH - [With 6 Speaker]
12	V	SOUND SIGNAL FRONT SPEAKER RH - [With 4 Speaker]
13	LG	SOUND SIGNAL REAR SPEAKER RH +
14	Y	SOUND SIGNAL REAR SPEAKER RH -
18	G	VEHICLE SPEED SIGNAL (8-PULSE)
19	L	BATTERY POWER SUPPLY

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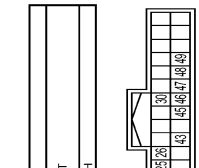
ILLUMINATION

Connector No.	M47
Connector Name	AUDIO UNIT
Connector Type	TH32FW-NH

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
21	B	MICROPHONE VCC
23	L	AUX SOUND SIGNAL LH
24	G	AUX SOUND SIGNAL RH
25	Y	AUX SOUND SIGNAL GROUND
26	SHIELD	SHIELD
30	R	ILLUMINATION SIGNAL
37	W	MICROPHONE SIGNAL
38	SHIELD	MICROPHONE GROUND
43	B	EQ1
45	W	AUTO ACC INPUT SIGNAL
46	SB	AV COMMUNICATION SIGNAL (H)
47	LG	AV COMMUNICATION SIGNAL (L)
48	SB	AV COMMUNICATION SIGNAL (H)
49	LG	AV COMMUNICATION SIGNAL (L)

Connector No.	M49
Connector Name	STOP/START OFF SWITCH
Connector Type	TH08FL-NH

H.S.

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

Connector No.	M50
Connector Name	FRONT HEATED SEAT SWITCH RH
Connector Type	NS06FBR-CS

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	H_SEAT_RLY
2	LA/Y	-
3	LA/W	-
4	B	-
5	G	-
6	B	-

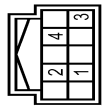
Connector No.	M51
Connector Name	FRONT HEATED SEAT SWITCH LH
Connector Type	NS06FW-CS

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	H_SEAT_RLY
2	LA/L	LO
3	LA/BR	HI
4	B	GND
5	L	-
6	B	-

Connector No.	M54
Connector Name	AUTOMATIC BACK DOOR MAIN SWITCH
Connector Type	TH10FB-NH

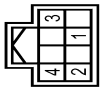
H.S.



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

Connector No.	M58
Connector Name	AUTOMATIC BACK DOOR SWITCH
Connector Type	TH08FG-NH

H.S.



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

Connector No.	M65
Connector Name	DIODE-1
Connector Type	ET02-2W

H.S.

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

Connector No.	M66
Connector Name	DIODE-2
Connector Type	ET02-2W

H.S.

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

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ILLUMINATION

Connector No.	M68
Connector Name	CVT ILLUMINATION
Connector Type	TK02FBR

H.S.

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

Connector No.	M72
Connector Name	GLOVE BOX LAMP
Connector Type	A02FW

H.S.

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

Connector No.	M85
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FBR-CS

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
137	W	BAT POWER SUPPLY (FUSE)
138	SB	INT ROOM LAMP CONT
139	L	PASSENGER DOOR UNLOCK OUTPUT
141	V	FRONT DOOR LOCK OUTPUT
143	LA/V	POWER SUPPLY (FR DOOR LK ACT)
144	BG	POWER SUPPLY (TURN SIGNAL)
145	GR	POWER SUPPLY (STOP LAMP)
146	B	GROUND
147	B	GROUND
148	G	DRIVER DOOR UNLOCK OUTPUT
149	W	FRONT DOOR SUPERLOCK OUTPUT
151	R	POWER SUPPLY (REAR DOOR LK ACT)
152	LG	POWER SUPPLY (REAR WIPER)

Connector No.	M86
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
81	L	KEY SWITCH
82	LA/R	KEY SW (ST) [Without Intelligent key]
82	W	PASS DOOR REQ SW [With Intelligent key]
84	BR	COMBI SW OUTPUT 2
85	SB	COMBI SW OUTPUT 1
86	P	COMBI SW OUTPUT 3
87	BG	COMBI SW OUTPUT 4

88	W	PUSH-BTN IGN SW ILL CONT
90	Y	SIL CONDITION
94	G	DETENTION SW
95	V	EXTENDED STORAGE FUSE SW
99	R	STOP/START OFF SW
100	V	DRIVER DOOR ANT +
101	Y	PUSH SW
104	R	DR DOOR UNLK SENS
105	Y	DR DOOR REQ SW
106	W	ACC OUTPUT
107	V	SENSOR CANCEL SW
109	P	NATS ANTENNA AMP.
110	BG	DIMMER SIGNAL
111	R	DOOR LK STAT IND OUTPUT
112	SB	STOP/START OFF SW INDICATOR
113	LG	NATS ANTENNA AMP.
114	Y	NATS ANTENNA AMP.
115	W	NATS ANTENNA AMP.
116	BG	ROOM ANT 1 -
117	GR	ROOM ANT 1 +
118	SB	PASSENGER DOOR ANT -
119	P	PASSENGER DOOR ANT +
120	BR	RRIVER DOOR ANT +

Connector No.	M87
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGY-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
41	V	STEERING LOCK UNIT POWER SUPPLY
42	LA/G	TURN SIG LH (SIDE)
43	LA/Y	TURN SIG RH (SIDE)
44	P	INTERIOR ROOM LAMP RELAY CONT
45	R	CAN-L
46	L	CAN-H
47	G	LIGHT & RAIN SENSOR
48	L	CAN-H
49	R	CAN-L
50	BG	DOOR LOCK SW
51	Y	HAZARD SW

56	P	DONGLE
57	L	CVT SHIFT SELECT (DETENT SW) PWR
60	R	HEADLAMP WASHER SW
63	G	POWER WINDOW RELAY CON
64	LA/R	REAR WINDOW DEFOGGER RELAY CONT
65	BR	ACC RELAY CONT
67	Y	IGN RELAY (F/B) CONT OUTPUT
68	LA/W	BLOWER RELAY CONT
73	LG	COMBI SW INPUT 5
74	Y	COMBI SW OUTPUT 5
75	BG	SECURITY IND LAMP CONT
76	G	COMBI SW INPUT 3
77	GR	COMBI SW INPUT 4
78	V	COMBI SW INPUT 1
79	W	COMBI SW INPUT 2
80	SB	DOOR UNLOCK SW

Connector No.	M138
Connector Name	PARKING BRAKE SWITCH
Connector Type	TH12FW-NH

H.S.

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

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ILLUMINATION

Connector No.	M142
Connector Name	SONAR SYSTEM OFF SWITCH
Connector Type	TH08FG-NH

H.S.

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

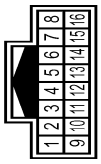
Connector No.	M144
Connector Name	HEADLAMP WASHER SWITCH
Connector Type	TH08FW-NH

H.S.

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

Connector No.	M182
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH

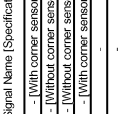
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	- [With corner sensor]
1	Y	- [Without corner sensor]
2	B	- [Without corner sensor]
2	SB	- [With corner sensor]
7	L	-
8	B	-
9	B	- [With corner sensor]
9	R	- [Without corner sensor]
10	B	- [Without corner sensor]
10	Y	- [With corner sensor]
11	B	-
15	P	-
16	B	-

Connector No.	M183
Connector Name	hill descent control SWITCH
Connector Type	TH10FGY-NH

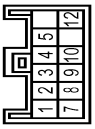
H.S.



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

Connector No.	M303
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TH12FW-NH

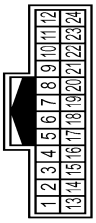
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
7	-	-
8	-	-
9	-	-
10	-	-
12	-	-

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH

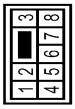
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
3	-	-
7	-	-
8	-	-
9	-	-
13	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-
21	-	-

Connector No.	R2
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS

H.S.



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

Connector No.	R3
Connector Name	MAP LAMP
Connector Type	TH08FW-1V-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	SB	-
3	SB	-
6	B	-
7	B	-
8	R	-

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ILLUMINATION

Connector No.	R20
Connector Name	LIGHT & RAIN SENSOR
Connector Type	AAB03FB

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

JRLWD5737GB

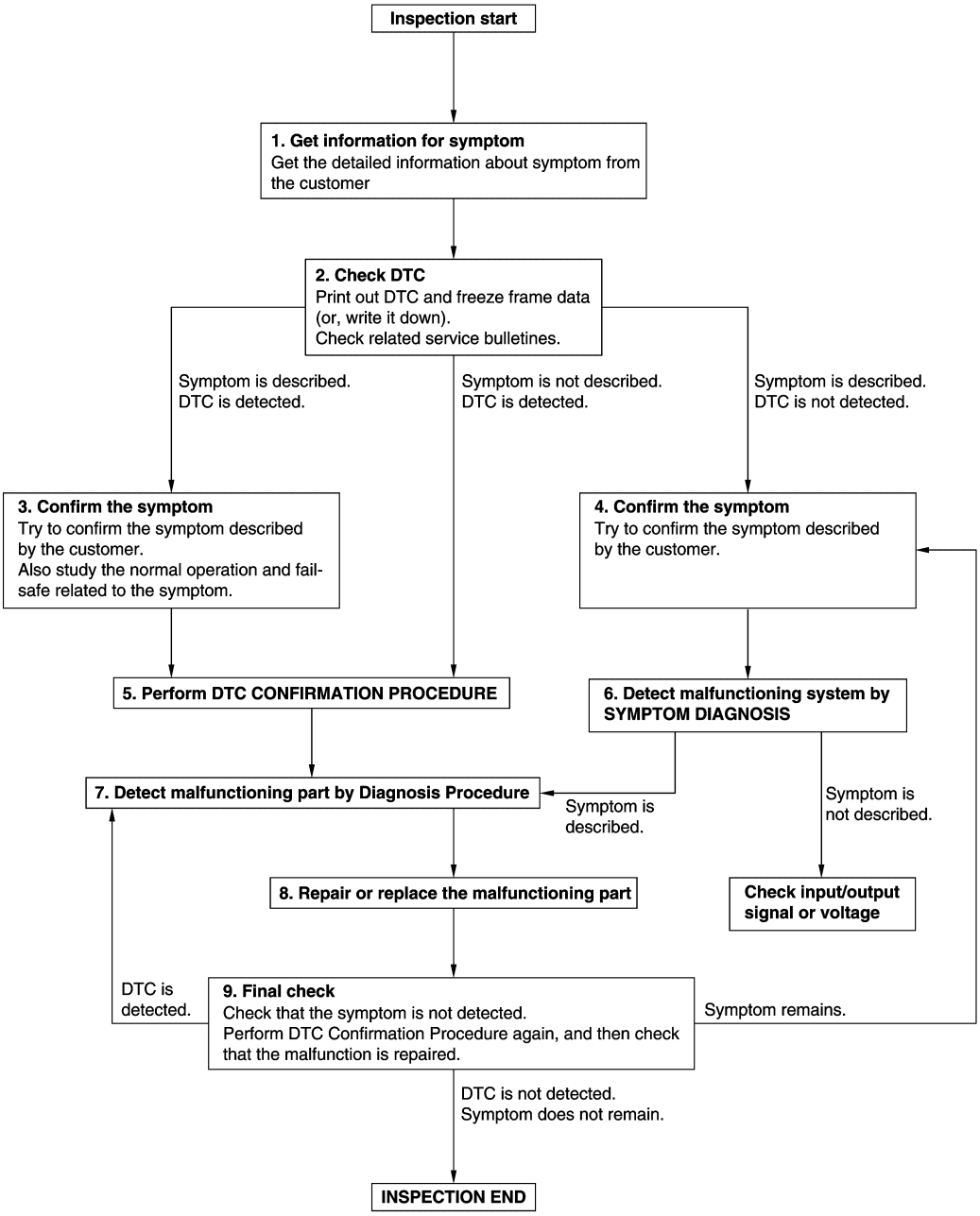
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:0000000010755149

OVERALL SEQUENCE



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DETAILED FLOW

1.GET INFORMATION FOR SYMPTOM

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

>> GO TO 2.

2.CHECK DTC

1. Check DTC.
2. Perform the following procedure if DTC is detected.

- Record DTC and freeze frame data (Print them out using CONSULT.)
- Erase DTC.
- Study the relationship between the cause detected by DTC and the symptom described by the customer.

3. Check related service bulletins for information.

Are any symptoms described and any DTC detected?

Symptom is described, DTC is detected>>GO TO 3.
Symptom is described, DTC is not detected>>GO TO 4.
Symptom is not described, DTC is detected>>GO TO 5.

3.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.
Also study the normal operation and fail-safe related to the symptom.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

4.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6.

5.PERFORM DTC CONFIRMATION PROCEDURE

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

NOTE:

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

Is DTC detected?

YES >> GO TO 7.
NO >> Check according to GI-44, "Intermittent Incident".

6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

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

Is the symptom described?

YES >> GO TO 7.
NO >> Monitor input data from related sensors or check voltage of related module terminals using CONSULT.

7.DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.
NO >> Check according to GI-44, "Intermittent Incident".

8. REPAIR OR REPLACE THE MALFUNCTIONING PART

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

>> GO TO 9.

9. FINAL CHECK

When DTC is detected in step 2, perform DTC CONFIRMATION PROCEDURE again, and then check that the malfunction is repaired securely.
When symptom is described by the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Is DTC detected and does symptom remain?

YES-1 >> DTC is detected: GO TO 7.
YES-2 >> Symptom remains: GO TO 4.
NO >> Before returning the vehicle to the customer, always erase DTC.

DTC/CIRCUIT DIAGNOSIS

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

Diagnosis Procedure

INFOID:0000000010755150

1.CHECK SYMPTOM

Check symptom (A or B).

A	All the following lamps do not turn ON. • Map lamp • Room lamp • Personal lamp • Vanity mirror lamp • Luggage room lamp
B	Interior room lamp battery saver does not activate.

Is the inspection result normal?

A >> GO TO 2.
B >> GO TO 7.

2.CHECK FUSE

1. Turn ignition switch OFF.
2. Check that the following fuse is not fusing.

Fuse No.	Capacity
25	20 A

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace the fuse after repairing the applicable circuit.

3.CHECK INTERIOR ROOM LAMP RELAY CIRCUIT 1

1. Remove interior room lamp relay.
2. Check voltage between interior room lamp relay harness connector and ground.

(+)		(-)	Voltage
Interior room lamp relay			
Connector	Terminal		
M44	1	Ground	Battery voltage
	3		

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace harnesses.

4.CHECK INTERIOR ROOM LAMP RELAY 1

Check interior room lamp relay.
Refer to INL-66, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace interior room lamp relay.

5.CHECK INTERIOR ROOM LAMP RELAY CIRCUIT 2

1. Disconnect map lamp connector.
2. Check continuity between interior room lamp relay harness connector and map lamp harness connector.

Interior room lamp relay		Map lamp		Continuity
Connector	Terminal	Connector	Terminal	
M44	5	R3	1	Existed

Is the inspection result normal?

YES >> GO TO 6.
NO >> Repair or replace harnesses.

6.CHECK INTERIOR ROOM LAMP RELAY CIRCUIT 3

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

Interior room lamp relay		BCM		Continuity
Connector	Terminal	Connector	Terminal	
M44	2	M87	44	Existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-121, "Removal and Installation".
NO >> Repair or replace harnesses.

7.CHECK INTERIOR ROOM LAMP RELAY 2

1. Turn ignition switch OFF.
2. Remove interior room lamp relay.
3. Check interior room lamp relay. Refer to INL-66, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 8.
NO >> Replace interior room lamp relay.

8.CHECK INTERIOR ROOM LAMP RELAY CIRCUIT 4

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

Interior room lamp relay		—	Continuity
Connector	Terminal		
M44	2	Ground	Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-121, "Removal and Installation".
NO >> Repair or replace harnesses.

Component Inspection

INFOID:0000000010755151

1.CHECK INTERIOR ROOM LAMP RELAY

1. Turn ignition switch OFF.
2. Remove interior room lamp relay.
3. Check continuity between interior room lamp relay terminals.

Interior room lamp relay		Condition	Continuity
Terminal			
3	5	12 V direct current supply between terminals 1 and 2.	Existed
		No current supply	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace interior room lamp relay.

INTERIOR ROOM LAMP CIRCUIT

Diagnosis Procedure

INFOID:0000000010755152

NOTE:
Before performing the diagnosis, check that the following items are normal.
- Interior room lamp power supply
- Room lamp bulb
- Personal lamp bulb
- Vanity mirror lamp bulb

1.CHECK INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Remove interior room lamp relay.
3. Disconnect following connectors.

- Map lamp
- Room lamp
- Personal lamp
- Vanity mirror lamp

4. Check continuity between interior room lamp relay harness connector and each interior room lamp harness connector.

Interior room lamp relay		Each interior room lamp			Continuity
Connector	Terminal	Connector		Terminal	
M44	5	Map lamp	R3	1	Existed
		Room lamp	R8	2	
		Personal lamp	R10	2	
		Vanity mirror lamp LH	R23	2	
		Vanity mirror lamp RH	R28	2	

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harnesses.

2.CHECK INTERIOR ROOM LAMP GROUND CIRCUIT

Check continuity between each interior room lamp harness connector and ground.

Each interior room lamp			—	Continuity
Connector		Terminal		
Map lamp	R3	6	Ground	Existed
Room lamp	R8	3		
Personal lamp	R10	4		
Vanity mirror lamp LH	R23	1		
Vanity mirror lamp RH	R28	1		

Is the inspection result normal?

YES >> Replace applicable interior room lamp.
NO >> Repair or replace harnesses.

INTERIOR ROOM LAMP CONTROL CIRCUIT

Component Function Check

INFOID:0000000010755153

NOTE:
Before performing the diagnosis, check that the following items are normal.
- Interior room lamp power supply
- Room lamp bulb
- Personal lamp bulb

1.CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

CONSULT ACTIVE TEST
1. Switch the map lamp switch, room lamp switch or 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.

On : Interior room lamp turns ON
Off : Interior room lamp turns OFF

Does the interior room lamp turns ON/OFF?

YES >> Interior room lamp control circuit is normal.
NO >> Refer to INL-68, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000010755154

1.CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

CONSULT ACTIVE TEST
1. Turn ignition switch OFF.
2. Disconnect following connectors.
- Map lamp
- Room lamp
3. Turn ignition switch ON.
4. Select “INT LAMP” of BCM (INT LAMP) active test item.
5. With operating the test item, check continuity between BCM harness connector and ground.

BCM		—	Test item		Continuity
Connector	Terminal				
M85	138	Ground	INT LAMP	On	Existed
				Off	Not existed

Is the inspection result normal?

YES-1 >> For models without personal lamp: GO TO 2.
YES-2 >> For models with personal lamp: GO TO 3.
NO-1 >> Continuity exists and remains unchanged: GO TO 5.
NO-2 >> Continuity does not exist and remains unchanged: Replace BCM. Refer to BCS-121, "Removal and Installation".

2.CHECK INTERIOR ROOM LAMP CONTROL CIRCUIT 1

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

BCM		Each interior room lamp			Continuity
Connector	Terminal	Connector		Terminal	
M85	138	Map lamp	R3	3	Existed
		Room lamp	R8	1	

Is the inspection result normal?

YES >> Check map lamp and room lamp. Replace the applicable interior room lamp.
NO >> Repair or replace harnesses.

3. CHECK INTERIOR ROOM LAMP CONTROL CIRCUIT 2

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

BCM		Map lamp		Continuity
Connector	Terminal	Connector	Terminal	
M85	138	R3	3	Existed

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

Map lamp		Personal lamp		Continuity
Connector	Terminal	Connector	Terminal	
R3	2	R10	3	Existed

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace harnesses.

4. CHECK PERSONAL LAMP

Check personal lamp. Refer to INL-69, "Component Inspection".

Is the inspection result normal?

YES >> Replace map lamp.
NO >> Replace personal lamp.

5. CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

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

BCM		—	Continuity
Connector	Terminal		
M85	138	Ground	Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-121, "Removal and Installation".
NO >> Repair or replace harnesses.

Component Inspection

INFOID:0000000010755155

1. CHECK PERSONAL LAMP

1. Turn ignition switch OFF.
2. Remove personal lamp
3. Check continuity between personal lamp terminals.

Personal lamp		Condition		Continuity
Terminal				
2	3	Switch position	DOOR	Existed
			ON	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace personal lamp.

LUGGAGE ROOM LAMP CIRCUIT

Component Function Check

INFOID:0000000010755156

NOTE:
Before performing the diagnosis, check that the following items are normal.
- Interior room lamp power supply
- Luggage room lamp bulb

1.CHECK LUGGAGE ROOM LAMP OPERATION

CONSULT ACTIVE TEST
1. Turn ignition switch ON.
2. Select “TRUNK/LUGGAGE LAMP TEST” of BCM (INTELLIGENT KEY) or (MULTI REMOTE ENT) active test item.
3. With operating the test items, check that luggage room lamp turns ON/OFF.

On : Luggage room lamp ON
Off : Luggage room lamp OFF

Does luggage room lamp turns ON/OFF?

YES >> Luggage room lamp circuit is normal.
NO >> Refer to INL-70, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000010755157

1.CHECK LUGGAGE ROOM LAMP POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Remove interior room lamp relay.
3. Disconnect luggage room lamp connector.
4. Check continuity between interior room lamp relay harness connector and luggage room lamp harness connector.

Interior room lamp relay		Luggage room lamp		Continuity
Connector	Terminal	Connector	Terminal	
M44	5	B83	1	Existed

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harnesses.

2.CHECK LUGGAGE ROOM LAMP OUTPUT

Check continuity between BCM harness connector and ground.

BCM		—	Condition		Continuity
Connector	Terminal				
B46	127	Ground	Back door	Open	Existed
				Closed	Not existed

Is the inspection result normal?

YES >> GO TO 3.
NO-1 >> Continuity exists and remains unchanged: GO TO 4.
NO-2 >> Continuity does not exist and remains unchanged: Replace BCM. Refer to BCS-121, "Removal and Installation".

3.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	
B46	127	B83	2	Existed

Is the inspection result normal?

YES >> Replace luggage room lamp.
NO >> Repair or replace harnesses.

4. CHECK LUGGAGE ROOM LAMP SHORT CIRCUIT

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

BCM		—	Continuity
Connector	Terminal		
B46	127	Ground	Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-121, "Removal and Installation".
NO >> Repair or replace harnesses.

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

Component Function Check

INFOID:0000000010755158

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 turns ON/OFF?

YES >> Push-button ignition switch illumination circuit is normal.
NO >> Refer to INL-72, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000010755159

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

CONSULT ACTIVE TEST
1. Turn ignition switch ON.
2. Select “ENGINE SW ILLUMI” of BCM (INTELLIGENT KEY) active test item.
3. With operating the test item, check the voltage between BCM harness connector and ground.

(+)		(–)	Condition		Voltage
BCM					
Connector	Terminal				
M86	88	Ground	ENGINE SW ILLUMI	On	12 V
				Off	0 V

Is the inspection result normal?

YES >> GO TO 2.
NO >> GO TO 4.

2.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

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

BCM		Push-button ignition switch		Continuity
Connector	Terminal	Connector	Terminal	
M86	88	M16	5	Existed

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harnesses.

3.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION GROUND CIRCUIT

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

Push-button ignition switch		—	Continuity
Connector	Terminal		
M16	6	Ground	Existed

Is the inspection result normal?

YES >> Replace push-button ignition switch.

NO >> Repair or replace harnesses.

4. CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION SHORT CIRCUIT

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

BCM		Ground	Continuity
Connector	Terminal		
M86	88		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-121, "Removal and Installation".
NO >> Repair or replace harnesses.

SYMPTOM DIAGNOSIS

INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

INFOID:0000000010755160

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

Symptom	Possible cause	Inspection item
All the following lamps do not turn ON. • Map lamp • Room lamp • Personal lamp • Vanity mirror lamp • Luggage room lamp	• Fuse • Harness between battery and interior room lamp relay • Harness between BCM and interior room lamp relay • Interior room lamp relay • BCM	Interior room lamp power supply circuit Refer to INL-65, "Diagnosis Procedure".
Any of the following lamp does not turn ON. • Map lamp • Room lamp • Personal lamp • Vanity mirror lamp	• Harness between each interior room lamp and interior room lamp relay • Harness between each interior room lamp and ground • Each interior room lamp	Interior room lamp circuit Refer to INL-67, "Diagnosis Procedure".
• 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 • BCM	Door switch circuit Refer to DLK-186, "Component Function Check" (Type 1*), DLK-495, "Component Function Check" (Type 2*), DLK-695, "Component Function Check" (Type 3*) or DLK-842, "Component Function Check" (Type 4*).
	• Harness between BCM and each interior room lamp • BCM	Interior room lamp control circuit Refer to INL-68, "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, "INT LAMP : CONSULT Function (BCM - INT LAMP)".
• Luggage room lamp does not turn ON even though the back door is open. • Luggage room lamp does not turn OFF even though the back door is closed.	• Harness between BCM and back door switch • BCM	Back door switch circuit Refer to DLK-166, "Component Function Check" (Type 1*), DLK-477, "Component Function Check" (Type 2*), DLK-681, "Component Function Check" (Type 3*) or DLK-830, "Component Function Check" (Type 4*).
	• Harness between luggage room lamp and interior room lamp relay • Harness between BCM and luggage room lamp • luggage room lamp • BCM	Luggage room lamp circuit Refer to INL-70, "Component Function Check".

Symptom	Possible cause	Inspection item
Push-button ignition switch illumination does not illuminate.	• Harness between BCM and push-button ignition switch • Harness between push-button ignition switch and ground • Push-button ignition switch • BCM	Push-button ignition switch illumination circuit Refer to INL-72, "Component Function Check".
Interior room lamp battery saver does not activate.	• Harness between BCM and interior room lamp relay • Interior room lamp relay • BCM	Interior room lamp power supply circuit Refer to INL-65, "Diagnosis Procedure".

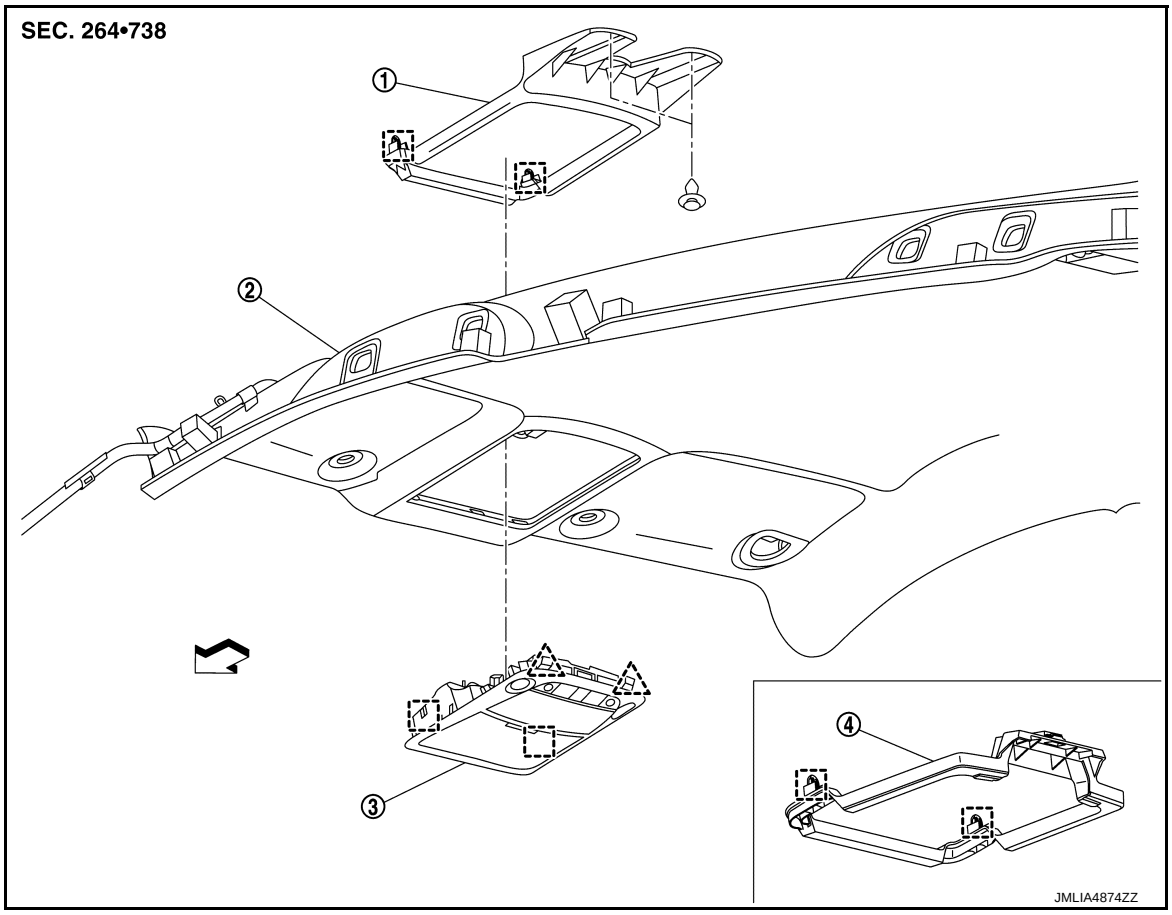
*:Refer to DLK-22, "Information" for detailed information of vehicle type.

REMOVAL AND INSTALLATION

MAP LAMP

Exploded View

INFOID:0000000010755161



① Map lamp bracket*1 ② Headlining assembly ③ Map lamp assembly

④ Map lamp bracket*2

: Pawl

: Metal clip

: Vehicle front

*1: Without sunroof

*2: With sunroof

MAP LAMP

MAP LAMP : Removal and Installation

INFOID:0000000010755162

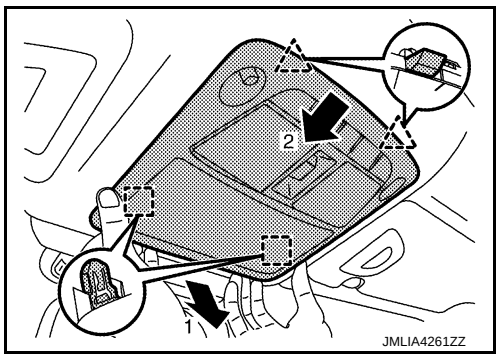
REMOVAL

CAUTION:

Disconnect the battery negative terminal or remove power circuit fuse when performing the operation for preventing electric leakage. Refer to INL-4, "Precautions for Removing Battery Terminal".

1. Disengage map lamp assembly fixing pawls and metal clips according to numerical order 1→2 indicated by arrows as shown in the figure.

: Pawl
: Metal clip



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

INSTALLATION
Install in the reverse order of removal.

MAP LAMP : Replacement

INFOID:0000000010755163

MAP LAMP BULB

CAUTION:

Replacement of a single part is not possible due to the adoption of LED. For replacement, replace map lamp assembly as a set.

MAP LAMP BRACKET

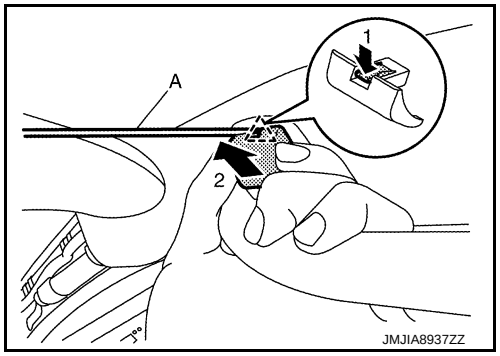
MAP LAMP BRACKET : Removal and Installation

INFOID:0000000010755164

REMOVAL

1. Remove all assist grips.
Disengage assist grip cap fixing pawl using a remover tool (A), and then slide assist grip cap and remove it according to numerical order 1→2 indicated by arrows as shown in the figure.

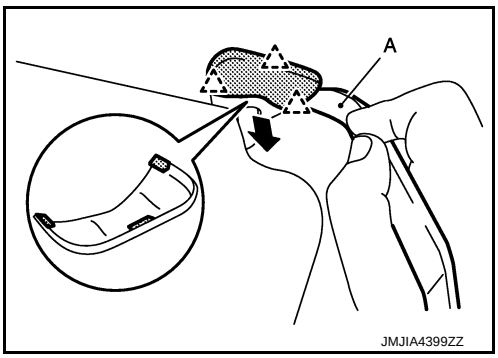
: Pawl



2. Disengage assist grip fixing metal clips, and then remove assist grip.
3. Remove center pillar upper garnish (LH and RH). Refer to INT-28, "CENTER PILLAR UPPER GARNISH : Removal and Installation".
4. Remove front pillar garnish (LH and RH). Refer to INT-23, "FRONT PILLAR GARNISH : Removal and Installation".
5. Remove light & rain sensor cover. Refer to WW-109, "Removal and Installation". (With light & rain sensor)
6. Remove map lamp assembly. Refer to INL-76, "MAP LAMP : Removal and Installation".
7. Remove sun visor assembly (LH and RH).

a. Disengage sun visor cover fixing pawls using a remover tool (A), and then remove sun visor cover (LH and RH).

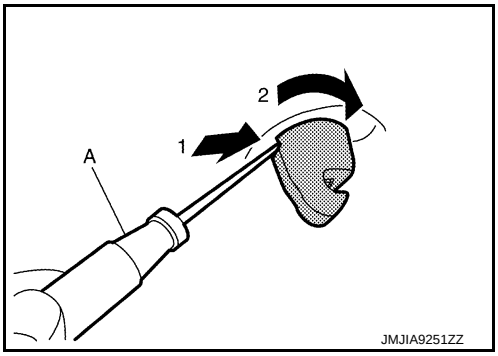
△ : Pawl



b. Remove sun visor assembly fixing screws, and then disconnect vanity mirror lamp harness connector. (With vanity mirror lamp)

c. Remove sun visor assembly (LH and RH).

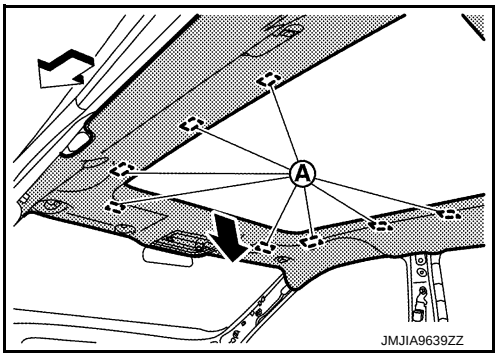
8. Remove sun visor holder (LH and RH) using a remover tool (A) according to numerical order 1→2 indicated by arrows as shown in the figure.



9. Disengage dual lock fasteners Ⓐ between headlining assembly and roof panel. (With sunroof)

CAUTION:

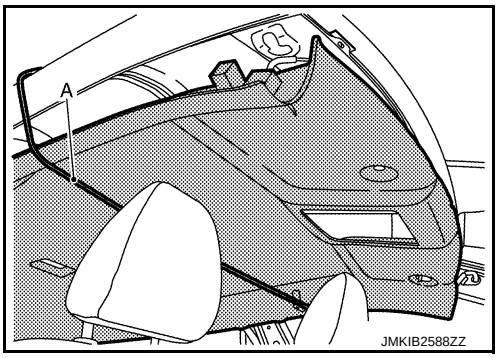
Never bend headlining when removing.



10. Remove front portion of headlining assembly from roof panel.

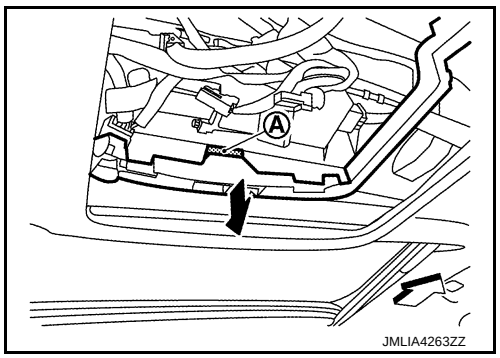
CAUTION:

To prevent damage of the headlining assembly, hold it using a rope (A) or belt.

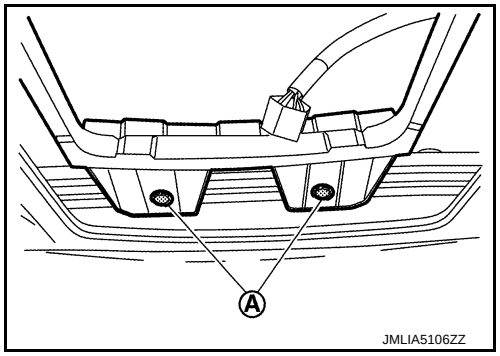


11. Disengage map lamp bracket fixing dual lock fastener Ⓐ from roof panel. (With sunroof)

⇦ : Vehicle front

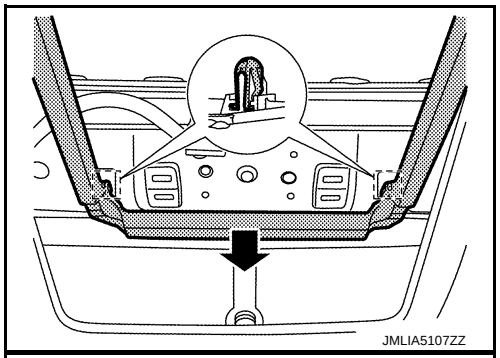


12. Remove map lamp bracket fixing clips Ⓐ. (Without sunroof)

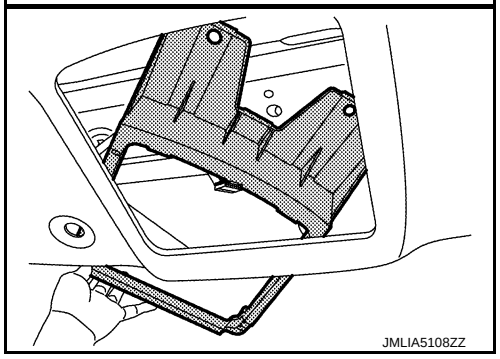


13. Disengage map lamp bracket fixing metal clips.

⬚ : Metal clip



14. Remove map lamp bracket from between headlining assembly and roof panel.
CAUTION:
Never damage windshield glass.



INSTALLATION

Note the following items, and then install in the reverse order of removal.

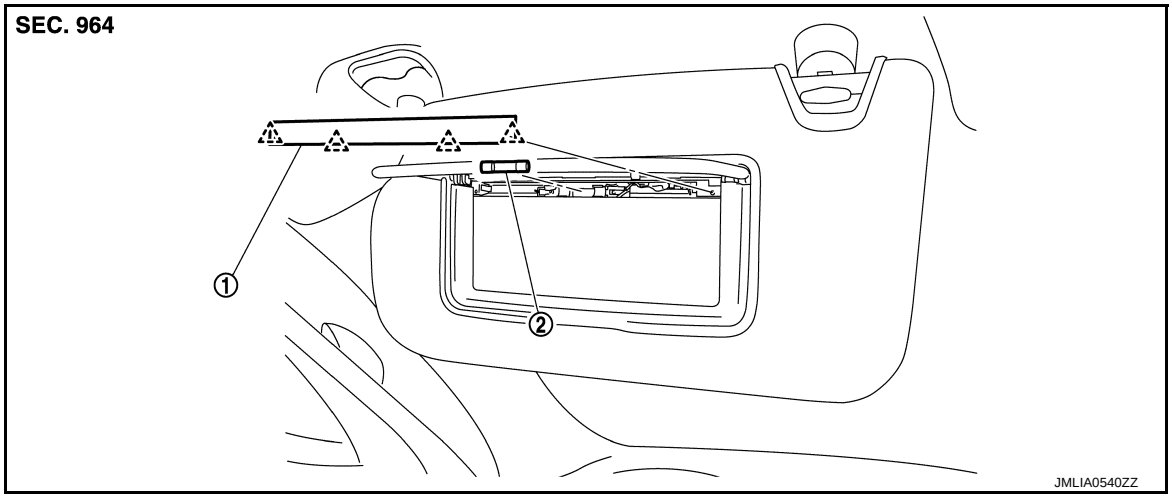
CAUTION:

- **Make sure that map lamp bracket fixing dual lock fastener are engaged to roof panel. (With sunroof)**
- **Visually check clips for deformation and damage during installation. Replace with new ones if necessary. (Without sunroof)**
- **Visually check metal clips for deformation and damage during installation. Replace with new ones if necessary.**

VANITY MIRROR LAMP

Exploded View

INFOID:0000000010755165



① Lens
② Bulb
: Pawl

Replacement

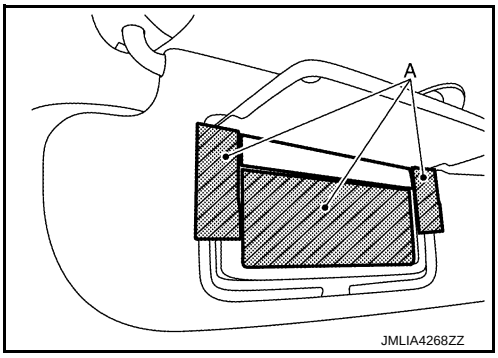
INFOID:0000000010755166

VANITY MIRROR LAMP BULB

CAUTION:

- **Disconnect the battery negative terminal or remove power circuit fuse when performing the operation for preventing electric leakage. Refer to INL-4, "Precautions for Removing Battery Terminal".**
- **Never touch the glass surface of the bulb with bare hands or allow oil or grease to get on it for preventing damage to the bulb.**
- **The surface of the bulb is very hot just after the lamp is turned OFF. Never touch the glass surface of the bulb with bare hands for preventing burns.**
- **Leaving the bulb removed from housing for a long period of time can deteriorate performance of the lens and reflector (due to dirt or clouding). Always prepare a new bulb and have it on hand when replacing the bulb.**

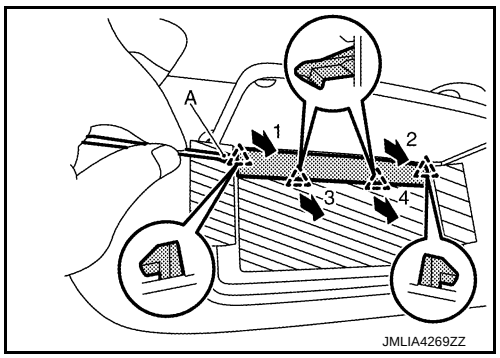
1. Apply protective tapes (A) to vanity mirror of surface for protecting it from damage.



2. Disengage lens fixing pawls using a remover tool (A) according to numerical order 1→4 indicated by arrows as shown in the figure, and then remove lens.

CAUTION:

Use a remover tool wrapped in tape.



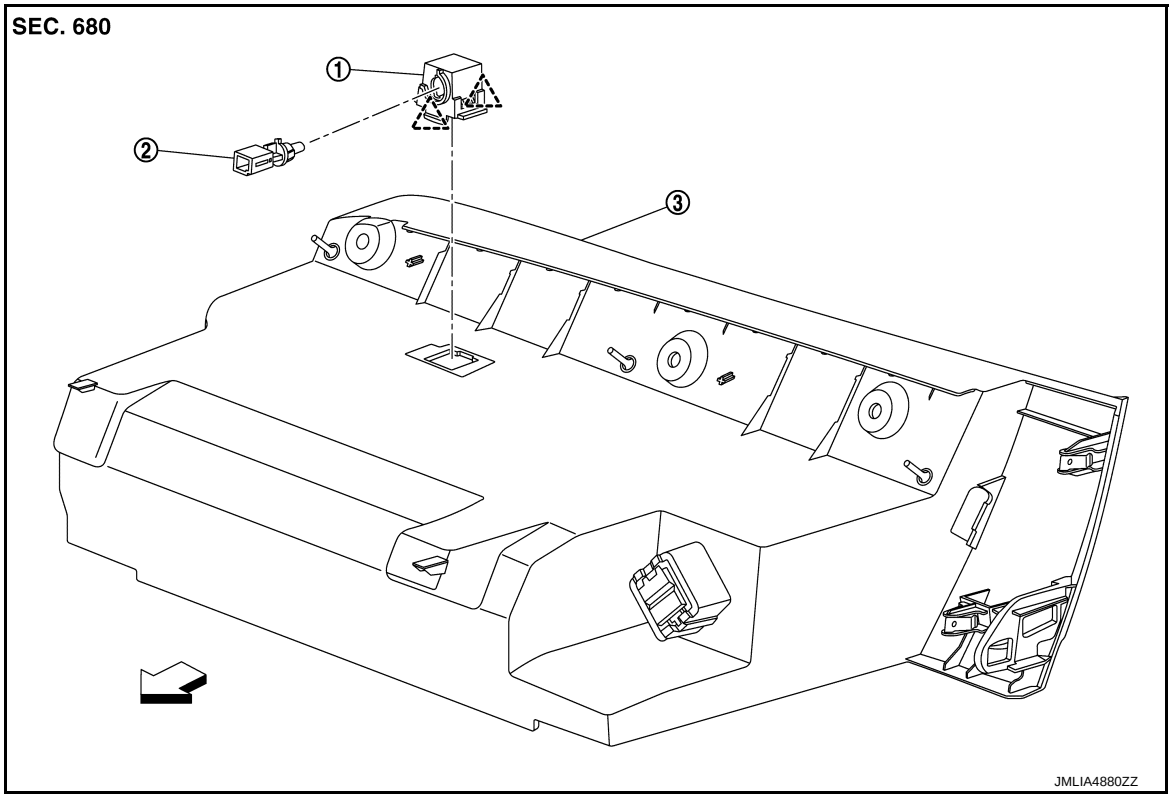
: Pawl

3. Remove bulb.

GLOVE BOX LAMP

Exploded View

INFOID:0000000010755167



① Lamp housing
② Bulb & socket assembly
③ Glove box cover
: Pawl
: Vehicle front

Replacement

INFOID:0000000010755168

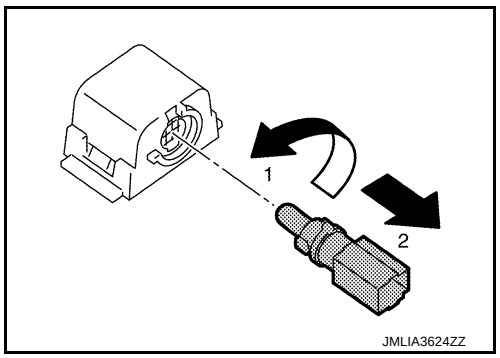
GLOVE BOX LAMP BULB

CAUTION:

- **Disconnect the battery negative terminal or remove power circuit fuse when performing the operation for preventing electric leakage. Refer to INL-4, "Precautions for Removing Battery Terminal".**
- **Never touch the glass surface of the bulb with bare hands or allow oil or grease to get on it for preventing damage to the bulb.**
- **The surface of the bulb is very hot just after the lamp is turned OFF. Never touch the glass surface of the bulb with bare hands for preventing burns.**
- **Leaving the bulb removed from housing for a long period of time can deteriorate performance of the lens and reflector (due to dirt or clouding). Always prepare a new bulb and have it on hand when replacing the bulb.**

1. Remove glove box cover. Refer to the following.
   - LHD models: Refer to IP-14, "Removal and Installation".
   - RHD models: Refer to IP-41, "Removal and Installation".

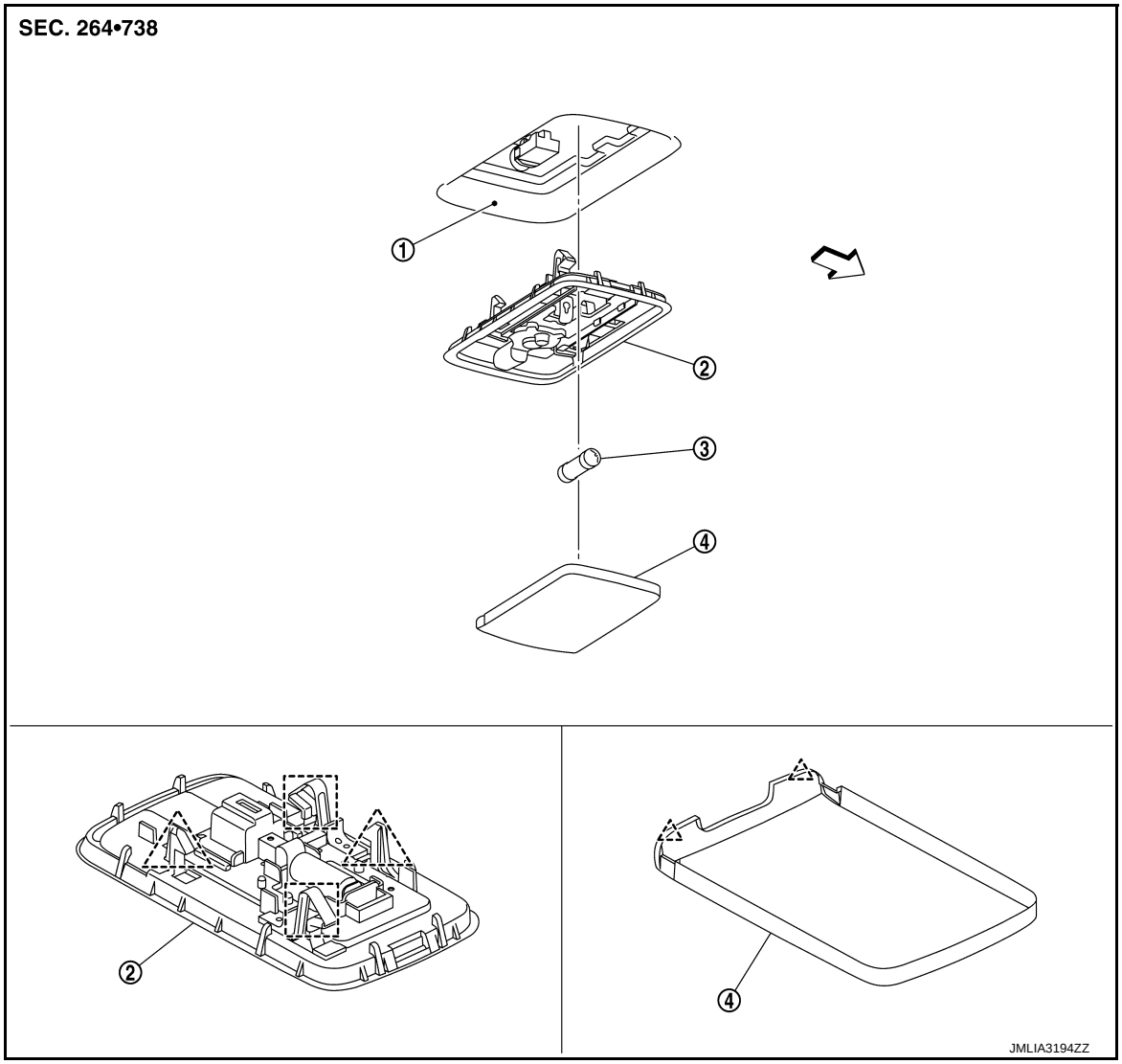
2. Remove bulb & socket assembly according to numerical order 1→2 indicated by arrows as shown in the figure.



ROOM LAMP

Exploded View

INFOID:0000000010755169



① Headlining ② Room lamp housing ③ Bulb
④ Lens
: Pawl
: Metal clip
: Vehicle front

Removal and Installation

INFOID:0000000010755170

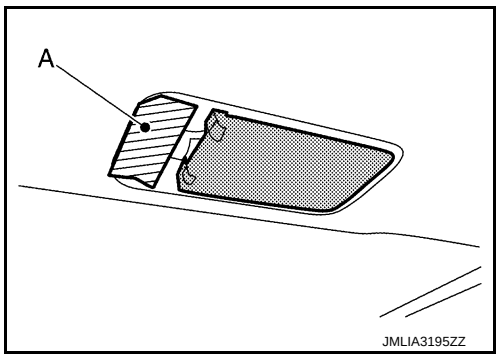
CAUTION:

- **Disconnect the battery negative terminal or remove power circuit fuse when performing the operation for preventing electric leakage. Refer to INL-4, "Precautions for Removing Battery Terminal".**
- **Never touch the glass surface of the bulb with bare hands or allow oil or grease to get on it for preventing damage to the bulb.**
- **The surface of the bulb is very hot just after the lamp is turned OFF. Never touch the glass surface of the bulb with bare hands for preventing burns.**

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

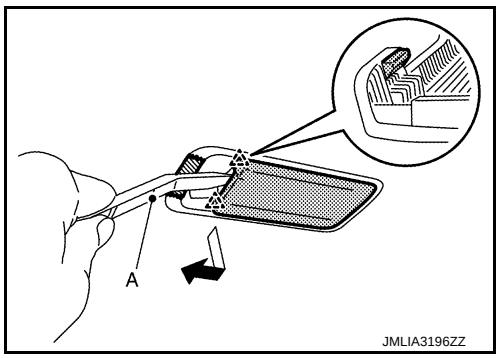
REMOVAL

1. Apply protective tape (A) to room lamp housing for protecting it from damage.



2. Disengage lens fixing pawls using a remover tool (A), and then remove lens.

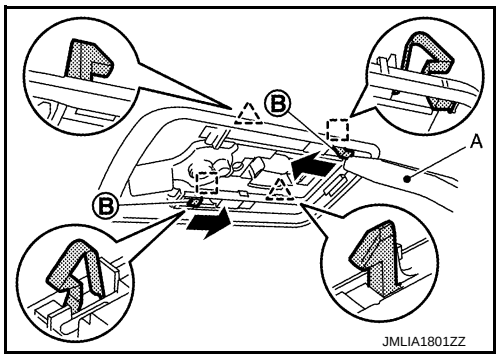
: Pawl



3. Press metal clip Ⓑ using a remover tool (A) to disengage metal clips.
4. Pull downward room lamp housing, and then disengage room lamp fixing pawls.
   CAUTION:
   Never damage the headlining assembly.

: Pawl

: Metal clip



5. Disconnect harness connector, and then remove room lamp housing.

INSTALLATION

Install in the reverse order of removal.

Replacement

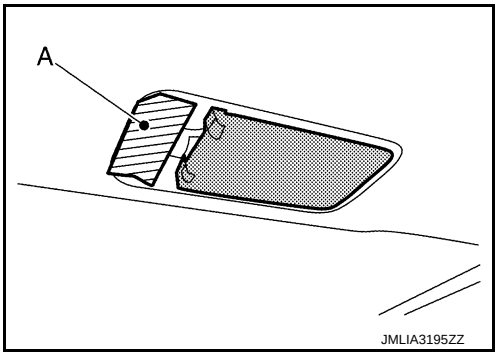
INFOID:0000000010755171

CAUTION:

- **Disconnect the battery negative terminal or remove power circuit fuse when performing the operation for preventing electric leakage. Refer to INL-4, "Precautions for Removing Battery Terminal".**
- **Never touch the glass surface of the bulb with bare hands or allow oil or grease to get on it for preventing damage to the bulb.**
- **The surface of the bulb is very hot just after the lamp is turned OFF. Never touch the glass surface of the bulb with bare hands for preventing burns.**
- **Leaving the bulb removed from housing for a long period of time can deteriorate performance of the lens and reflector (due to dirt or clouding). Always prepare a new bulb and have it on hand when replacing the bulb.**

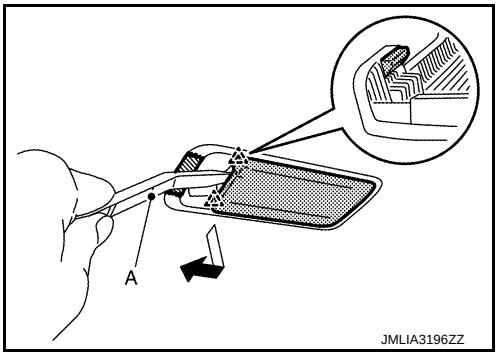
ROOM LAMP BULB

1. Apply protective tape (A) to room lamp housing for protecting it from damage.



2. Disengage lens fixing pawls using a remover tool (A), and then remove lens.

: Pawl

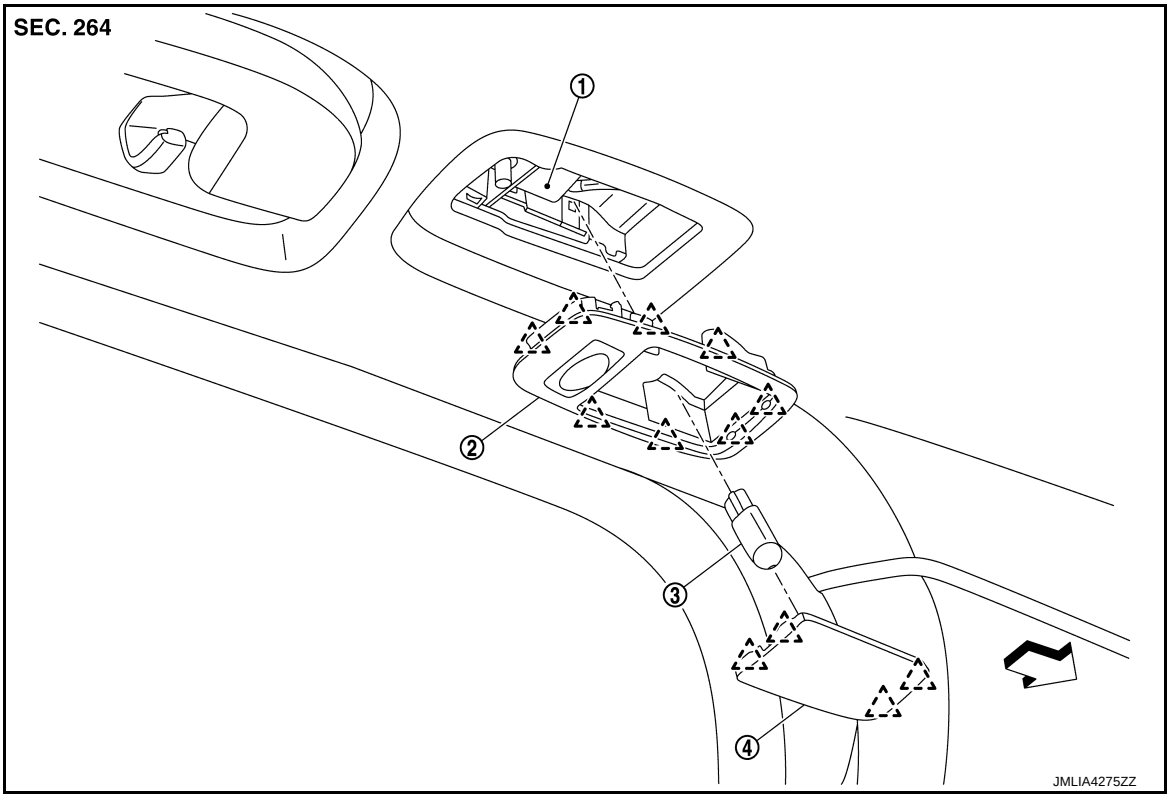


3. Remove bulb.

PERSONAL LAMP

Exploded View

INFOID:0000000010755172



① Personal lamp base ② Personal lamp finisher ③ Bulb
④ Lens
: Pawl
: Vehicle front

Removal and Installation

INFOID:0000000010755173

REMOVAL

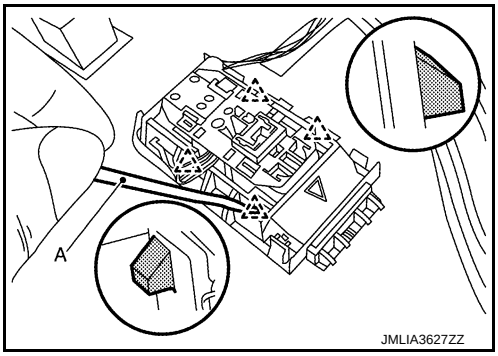
CAUTION:

- **Disconnect the battery negative terminal or remove power circuit fuse when performing the operation for preventing electric leakage. Refer to INL-4, "Precautions for Removing Battery Terminal".**
- **Never touch the glass surface of the bulb with bare hands or allow oil or grease to get on it for preventing damage to the bulb.**
- **The surface of the bulb is very hot just after the lamp is turned OFF. Never touch the glass surface of the bulb with bare hands for preventing burns.**
- **Leaving the bulb removed from housing for a long period of time can deteriorate performance of the lens and reflector (due to dirt or clouding). Always prepare a new bulb and have it on hand when replacing the bulb.**
- **Remove personal lamp base LH and RH as a set.**

1. Remove headlining assembly. Refer to INT-37, "Removal and Installation".

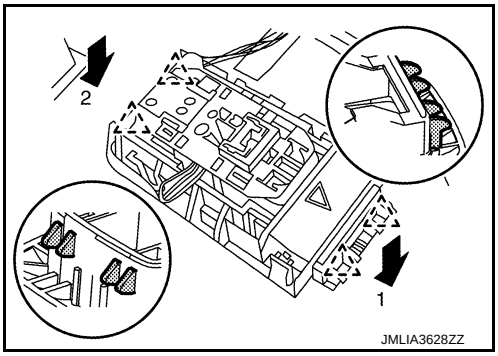
2. Disengage personal lamp finisher fixing pawls using a remover tool (A).

: Pawl



3. Disengage personal lamp finisher fixing pawls according to numerical order 1→2 indicated by arrows as shown in the figure, and then remove personal lamp finisher.

: Pawl



4. Remove personal lamp base from headlining assembly.

INSTALLATION

Install in the reverse order of removal.

Replacement

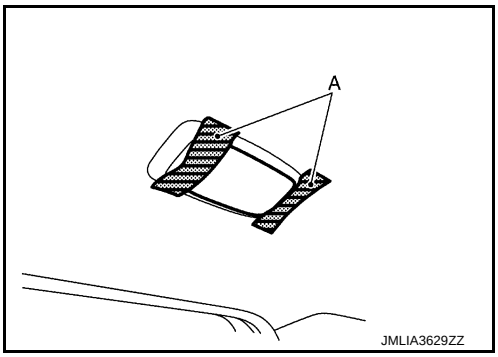
INFOID:0000000010755174

PERSONAL LAMP BULB

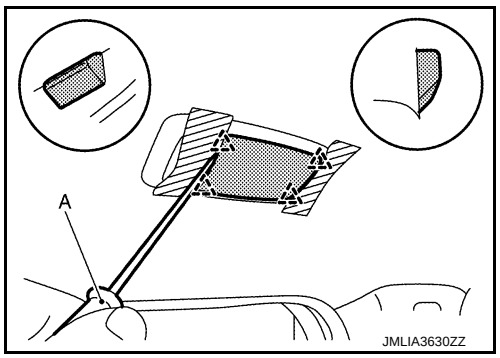
CAUTION:

- **Disconnect the battery negative terminal or remove power circuit fuse when performing the operation for preventing electric leakage. Refer to INL-4, "Precautions for Removing Battery Terminal".**
- **Never touch the glass surface of the bulb with bare hands or allow oil or grease to get on it for preventing damage to the bulb.**
- **The surface of the bulb is very hot just after the lamp is turned OFF. Never touch the glass surface of the bulb with bare hands for preventing burns.**
- **Leaving the bulb removed from housing for a long period of time can deteriorate performance of the lens and reflector (due to dirt or clouding). Always prepare a new bulb and have it on hand when replacing the bulb.**

1. Apply protective tapes (A) to personal lamp finisher for protecting it from damage.



2. Disengage lens fixing pawls using a remover tool (A), and then remove lens.
CAUTION:
Use a remover tool wrapped in tape.



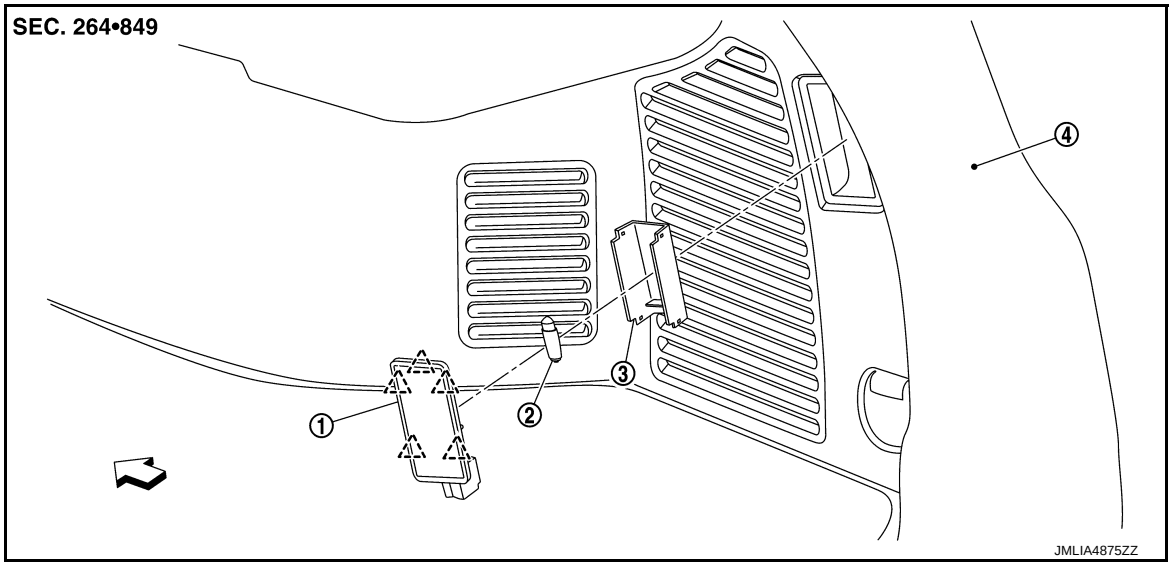
: Pawl

3. Remove bulb.

LUGGAGE ROOM LAMP

Exploded View

INFOID:0000000010755175



① Luggage room lamp base ② Bulb ③ Shade
④ Luggage side lower finisher RH
: Pawl
: Vehicle front

Removal and Installation

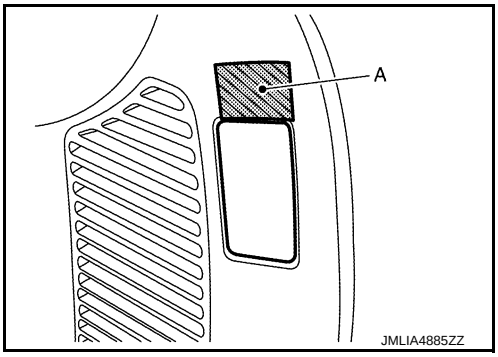
INFOID:0000000010755176

REMOVAL

CAUTION:

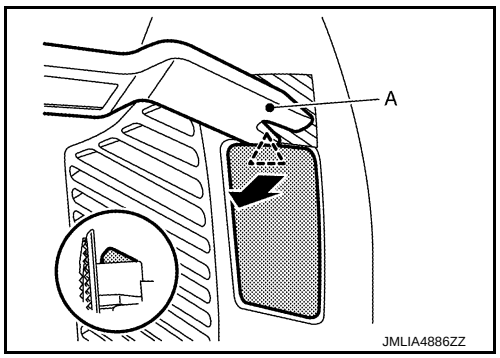
- **Disconnect the battery negative terminal or remove power circuit fuse when performing the operation for preventing electric leakage. Refer to INL-4, "Precautions for Removing Battery Terminal".**
- **Never touch the glass surface of the bulb with bare hands or allow oil or grease to get on it for preventing damage to the bulb.**
- **The surface of the bulb is very hot just after the lamp is turned OFF. Never touch the glass surface of the bulb with bare hands for preventing burns.**
- **Leaving the bulb removed from housing for a long period of time can deteriorate performance of the lens and reflector (due to dirt or clouding). Always prepare a new bulb and have it on hand when replacing the bulb.**

1. Apply protective tape (A) to luggage side lower finisher RH for protecting it from damage.



2. Disengage luggage room lamp fixing pawl using a remover tool (A).

: Pawl



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

INSTALLATION

Install in the reverse order of removal.

Replacement

INFOID:0000000010755177

LUGGAGE ROOM LAMP BULB

CAUTION:

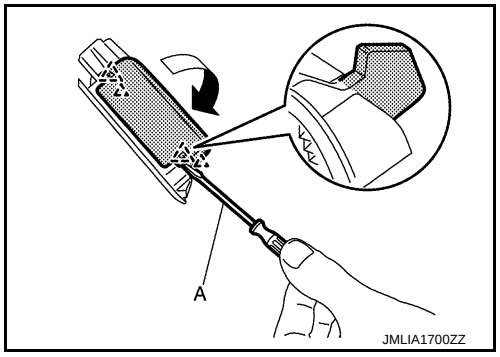
- **Disconnect the battery negative terminal or remove power circuit fuse when performing the operation for preventing electric leakage. Refer to INL-4, "Precautions for Removing Battery Terminal".**
- **Never touch the glass surface of the bulb with bare hands or allow oil or grease to get on it for preventing damage to the bulb.**
- **The surface of the bulb is very hot just after the lamp is turned OFF. Never touch the glass surface of the bulb with bare hands for preventing burns.**
- **Leaving the bulb removed from housing for a long period of time can deteriorate performance of the lens and reflector (due to dirt or clouding). Always prepare a new bulb and have it on hand when replacing the bulb.**

1. Remove luggage room lamp. Refer to INL-90, "Removal and Installation".
2. Disengage shade fixing pawls using a remover tool (A), and then remove shade.

CAUTION:

Use a remover tool wrapped in tape.

: Pawl



3. Remove bulb.

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Bulb Specifications

INFOID:0000000010755178

Item	Type	Wattage (W)
Push-button ignition switch illumination	LED	—
Map lamp	LED	—
Map lamp illumination (Integrated into map lamp assembly)	LED	—
Vanity mirror lamp	—	1.8
Glove box lamp	Wedge	1.4
Room lamp*1	—	8.0
Personal lamp*2	Wedge	8.0
Luggage room lamp	—	3.4

*1: Without sunroof

*2: With sunroof