

SECTION **INL**

INTERIOR LIGHTING SYSTEM

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PRECAUTIONS

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PRECAUTION

PRECAUTIONS

Precaution for Technicians Using Medical Electric

INFOID:000000007072768

OPERATION PROHIBITION

WARNING:

- Parts with strong magnet is used in this vehicle.
- Technicians using a medical electric device such as pacemaker must never perform operation on the vehicle, as magnetic field can affect the device function by approaching to such parts.

NORMAL CHARGE PRECAUTION

WARNING:

- If a technician uses a medical electric device such as an implantable cardiac pacemaker or an implantable cardioverter defibrillator, the possible effects on the devices must be checked with the device manufacturer before starting the charge operation.
- As radiated electromagnetic wave generated by on board charger at normal charge operation may effect medical electric devices, a technician using a medical electric device such as implantable cardiac pacemaker or an implantable cardioverter defibrillator must not enter the vehicle compartment (including luggage room) during normal charge operation.

PRECAUTION AT TELEMATICS SYSTEM OPERATION

WARNING:

- If a technician uses implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), avoid the device implanted part from approaching within approximately 220 mm (8.66 in) from interior/exterior antenna.
- The electromagnetic wave of TCU might affect the function of the implantable cardiac pacemaker or the implantable cardioverter defibrillator (ICD), when using the service, etc.
- If a technician uses other medical electric devices than implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), the electromagnetic wave of TCU might affect the function of the device. The possible effects on the devices must be checked with the device manufacturer before TCU use.

PRECAUTION AT INTELLIGENT KEY SYSTEM OPERATION

WARNING:

- If a technician uses implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), avoid the device implanted part from approaching within approximately 220 mm (8.66 in) from interior/exterior antenna.
- The electromagnetic wave of Intelligent Key might affect the function of the implantable cardiac pacemaker or the implantable cardioverter defibrillator (ICD), at door operation, at each request switch operation, or at engine starting.
- If a technician uses other medical electric devices than implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), the electromagnetic wave of Intelligent Key might affect the function of the device. The possible effects on the devices must be checked with the device manufacturer before Intelligent Key use.

Point to Be Checked Before Starting Maintenance Work

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The high voltage system may starts automatically. It is required to check that the timer air conditioner and timer charge (during EVSE connection) are not set before starting maintenance work.

NOTE:

If the timer air conditioner or timer charge (during EVSE connection) is set, the high voltage system starts automatically even when the power switch is in OFF state.

PRECAUTIONS

< PRECAUTION >

Precautions for Removing Battery Terminal

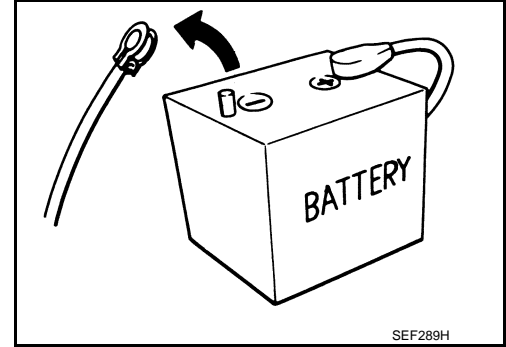
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- When removing the 12V battery terminal, turn OFF the power switch and wait at least 5 minutes.

NOTE:

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

- Always disconnect the battery terminal within 60 minutes after turning OFF the power switch. Even when the power switch is OFF, the 12V battery automatic charge control may automatically start after a lapse of 60 minutes from power switch OFF.
- Disconnect 12V battery terminal according to the following steps.



WORK PROCEDURE

1. Check that EVSE is not connected.

NOTE:

If EVSE is connected, the air conditioning system may be automatically activated by the timer A/C function.

2. Turn the power switch OFF → ON → OFF. Get out of the vehicle. Close all doors (including back door).
3. Check that the charge status indicator lamp does not blink and wait for 5 minutes or more.

NOTE:

If the battery is removed within 5 minutes after the power switch is turned OFF, plural DTCs may be detected.

4. Remove 12V battery terminal within 60 minutes after turning the power switch OFF → ON → OFF.

CAUTION:

- After all doors (including back door) are closed, if a door (including back door) is opened before battery terminals are disconnected, start over from Step 1.
- After turning the power switch OFF, if "Remote A/C" is activated by user operation, stop the air conditioner and start over from Step 1.

NOTE:

Once the power switch is turned ON → OFF, the 12V battery automatic charge control does not start for approximately 1 hour.

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

NOTE:

If the power 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.

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

INFOID:000000007027500

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

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.

PRECAUTIONS

< PRECAUTION >

- **Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see “SRS AIR BAG”.**
- **Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**

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

WARNING:

Always observe the following items for preventing accidental activation.

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

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COMPONENT PARTS

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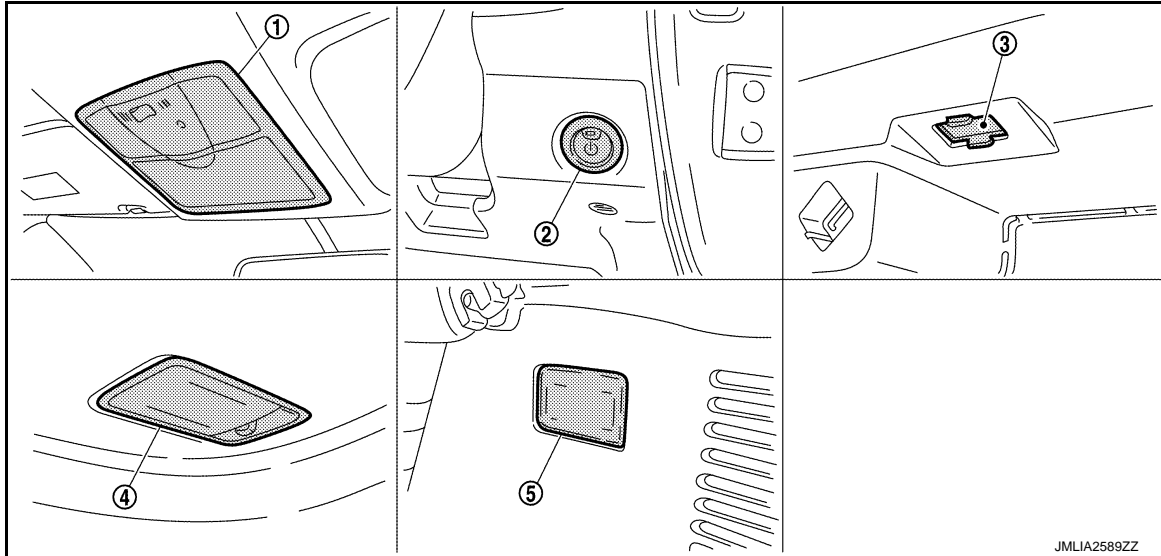
SYSTEM DESCRIPTION

COMPONENT PARTS

Interior Lamp Appearance and Bulb Specification

INFOID:000000008197584

INTERIOR LAMP APPEARANCE



- 1. Map lamp
- 4. Room lamp

- 2. Power SW
- 5. Luggage room lamp

- 3. Glove box lamp

BULB SPECIFICATION

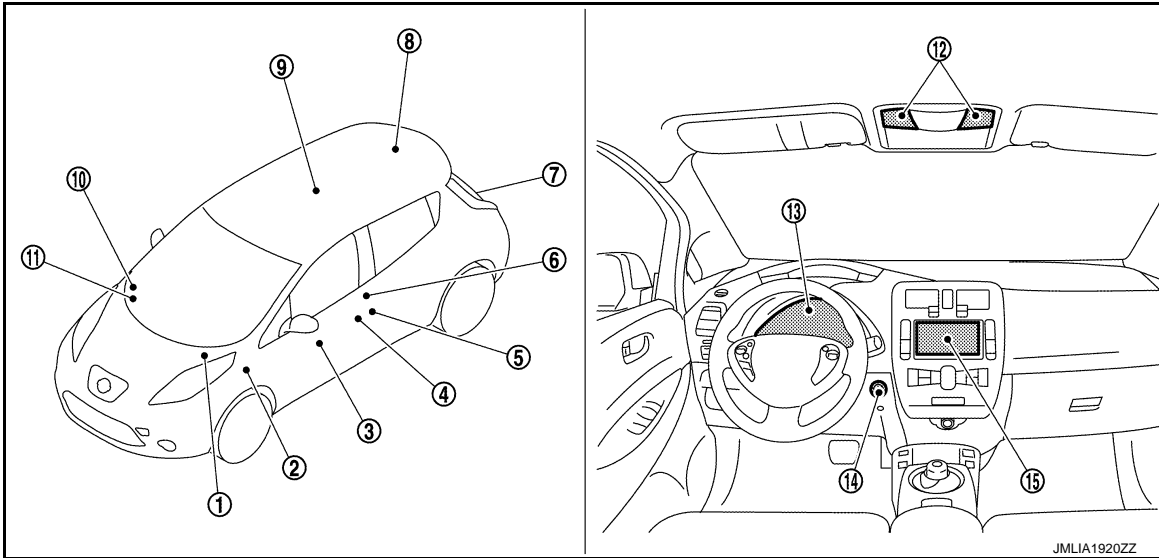
Item	Type	Wattage (W)
Map lamp	Wedge	8
Power SW	LED	—
Glove box lamp	—	1.4
Room lamp	—	8
Luggage room lamp	—	8

COMPONENT PARTS

< SYSTEM DESCRIPTION >

Component Parts Location

INFOID:000000006922547



No.	Part	Description
1.	IPDM E/R	Controls the integrated relay according to the request signal from BCM (via CAN communication). Refer to PCS-7, "Component Parts Location" for detailed installation location.
2.	BCM	<ul style="list-style-type: none"> Activates the interior room lamp timer depending on the vehicle condition to turn the interior room lamps ON/OFF. Operates the interior room lamp battery saver depending on the vehicle condition to cut the interior room lamp power supply. Detects each switch condition by the combination switch reading function. Judges the illumination lamp ON/OFF status depending on the vehicle condition. And then it transmits position light request signal to IPDM E/R and combination meter (with CAN communication). Refer to BCS-6, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location.
3.	Door lock and unlock switch	Refer to DLK-17, "Door Lock and Unlock Switch" .
4.	Front door request switch (driver side)	Refer to DLK-17, "Front Door Request Switch (Driver Side)" .
5.	Front door lock assembly (driver side) (door key cylinder switch)	Refer to DLK-16, "Front Door Lock Assembly (Driver Side)" .
6.	Door switch	Refer to DLK-18, "Door Switch" .
7.	Back door switch	Refer to DLK-17, "Back Door Lock Assembly" .
8.	Luggage room lamp	Refer to INL-6, "Interior Lamp Appearance and Bulb Specification" .
9.	Room lamp	Refer to INL-6, "Interior Lamp Appearance and Bulb Specification" .
10.	Remote keyless entry receiver	Refer to DLK-16, "Remote Keyless Entry Receiver" .
11.	Optical sensor	Refer to EXL-11, "Optical Sensor" .
12.	Map lamp	Refer to INL-6, "Interior Lamp Appearance and Bulb Specification" .
13.	Combination meter	Receives the dimmer signal from BCM (via CAN communication) Refer to MWI-7, "METER SYSTEM : Component Parts Location" for detailed installation location.
14.	Power switch	Refer to PCS-35, "Power Switch" .
15.	AV control unit	Receives the dimmer signal from BCM. Refer to AV-10, "Component Parts Location" for detailed installation location.

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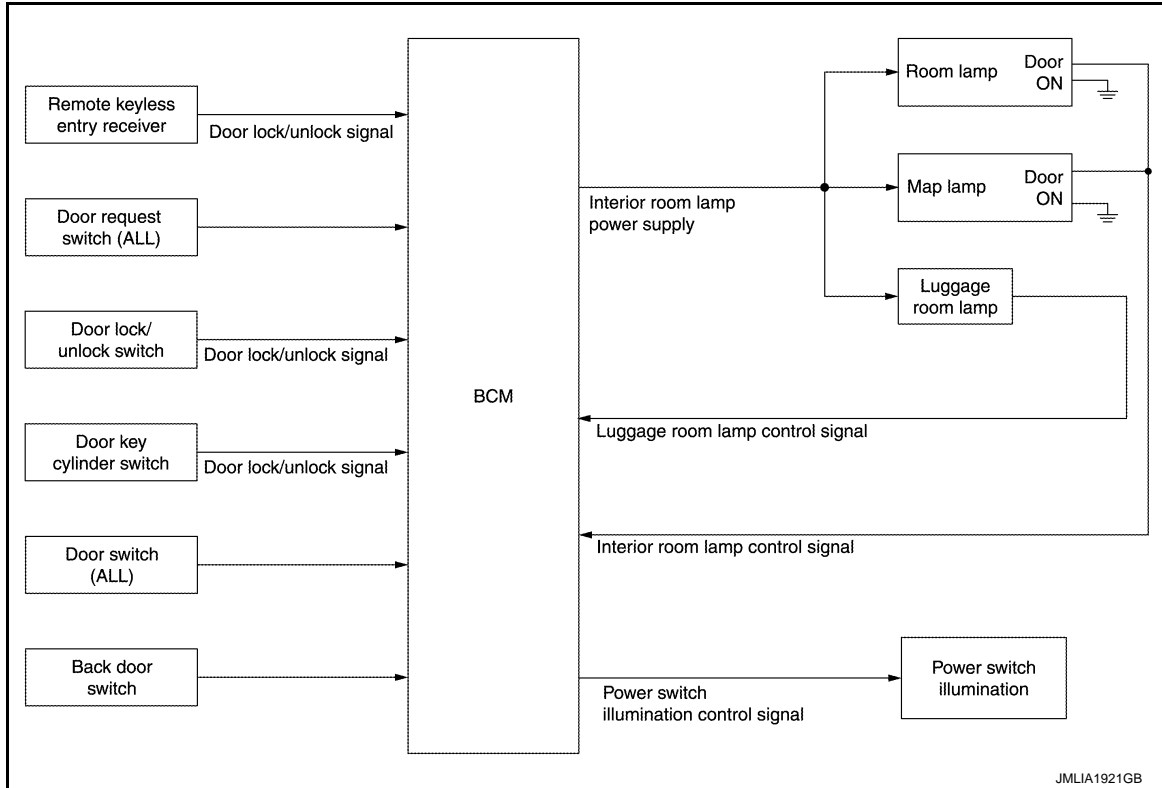
SYSTEM

INTERIOR ROOM LAMP CONTROL SYSTEM

INTERIOR ROOM LAMP CONTROL SYSTEM : System Description

INFOID:000000006922549

SYSTEM DIAGRAM

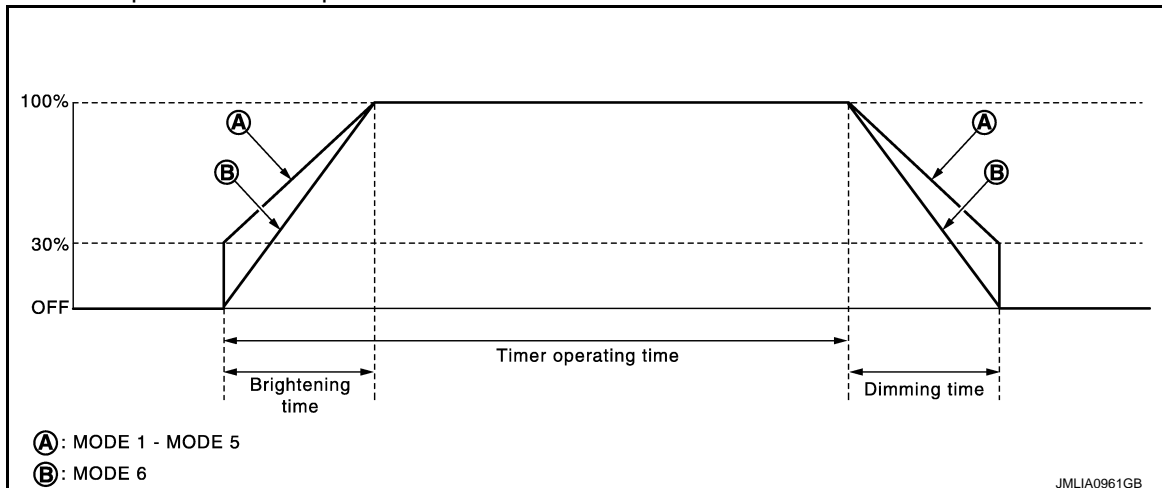


OUTLINE

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

INTERIOR ROOM LAMP TIMER CONTROL

Interior Room Lamp Timer Basic Operation



NOTE:

- A: Sets the interior room lamp gradual brightening and dimming time.
B: Gradually dims from 100% to 0% and gradually brightens 0% to 100% in 1 second.

SYSTEM

< SYSTEM DESCRIPTION >

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

NOTE:

Each function of interior room lamp timer can be set by CONSULT. Refer to [INL-19, "INT LAMP : CONSULT Function \(BCM - INT LAMP\)"](#). C

Interior Room Lamp ON Operation

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

NOTE:

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

Interior Room Lamp OFF Operation

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

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

LUGGAGE ROOM LAMP CONTROL

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

- Back door switch is ON

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

- Back door switch is OFF

POWER SWITCH ILLUMINATION CONTROL

Power Switch Illumination Basic Operation

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

Power Switch Illumination ON Operation

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

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

Power Switch Illumination OFF Operation

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

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

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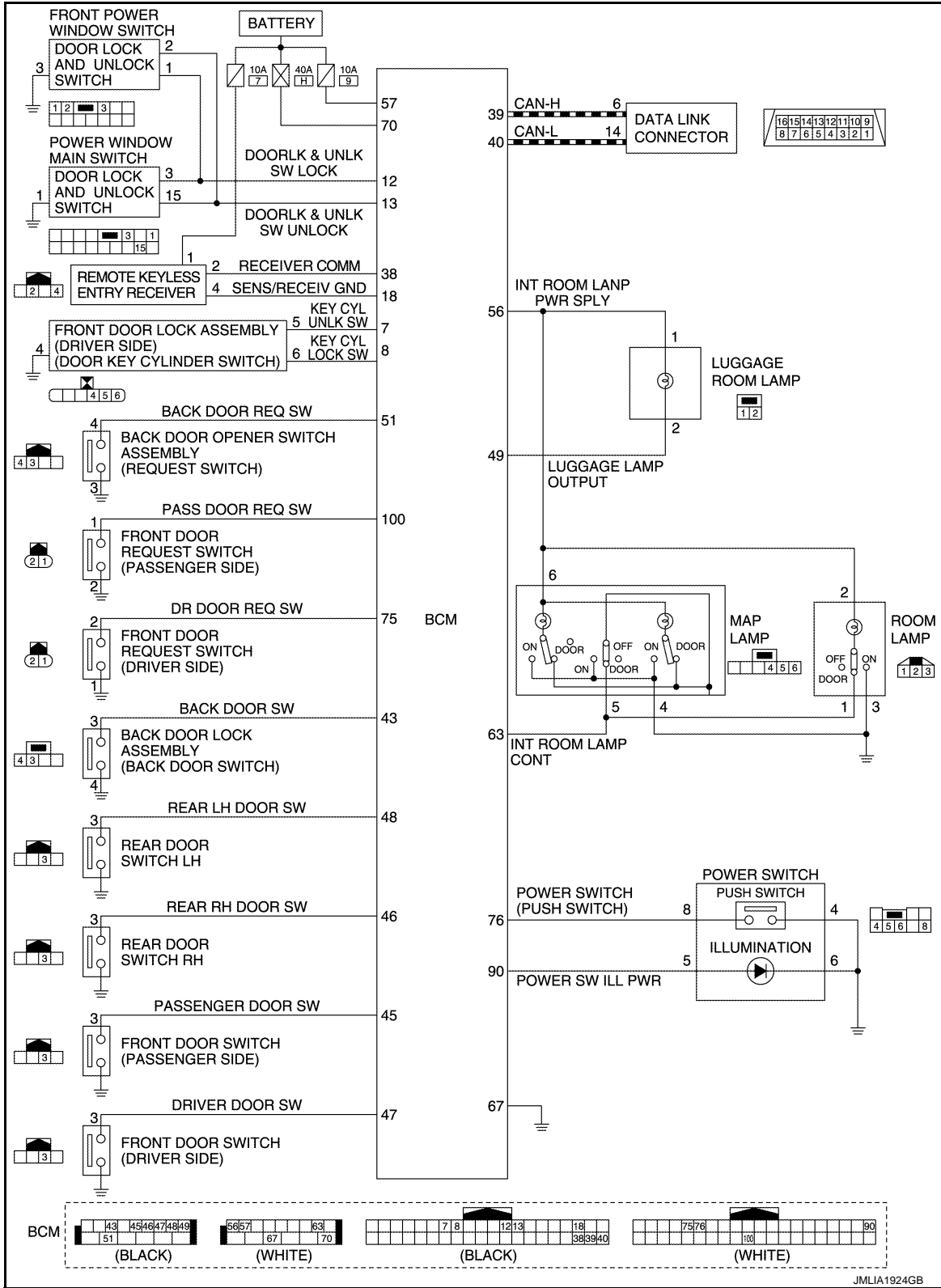
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INTERIOR ROOM LAMP CONTROL SYSTEM : Circuit Diagram

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INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

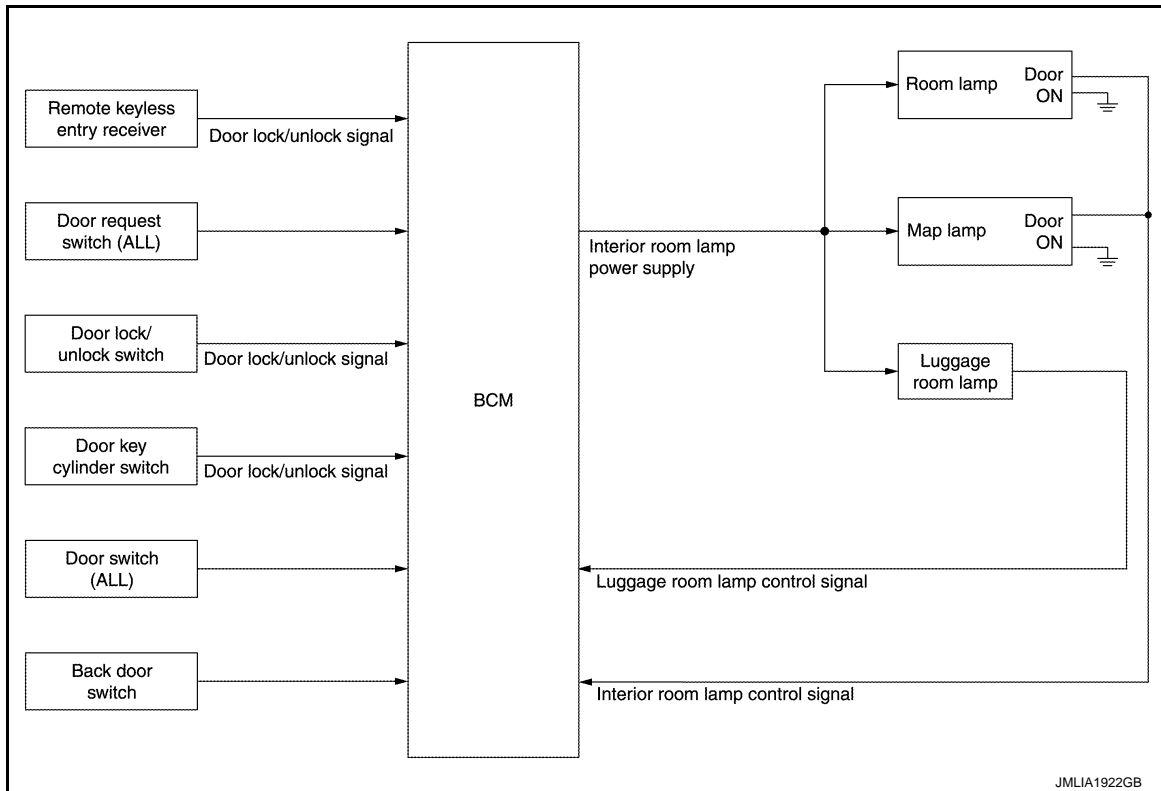
SYSTEM

< SYSTEM DESCRIPTION >

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Description

INFOID:000000006922551

SYSTEM DIAGRAM



OUTLINE

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

Applicable lamps

- Map lamp
- Room lamp
- Luggage room lamp

INTERIOR ROOM LAMP BATTERY SAVER FUNCTION

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

NOTE:

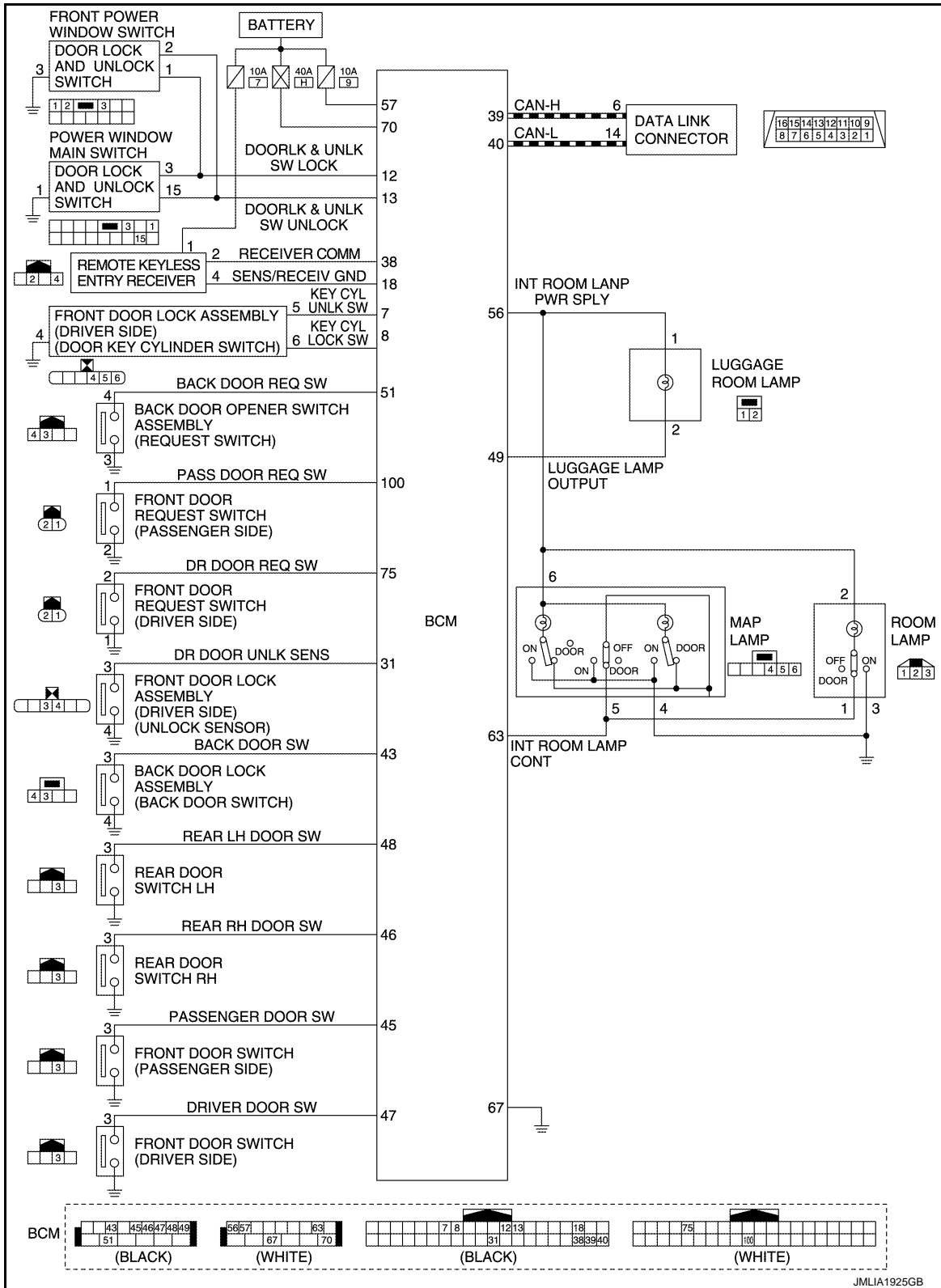
Each function of interior room lamp battery saver can be set by CONSULT. Refer to [INL-20, "BATTERY SAVER : CONSULT Function \(BCM - BATTERY SAVER\)"](#).

SYSTEM

< SYSTEM DESCRIPTION >

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : Circuit Diagram

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ILLUMINATION CONTROL SYSTEM

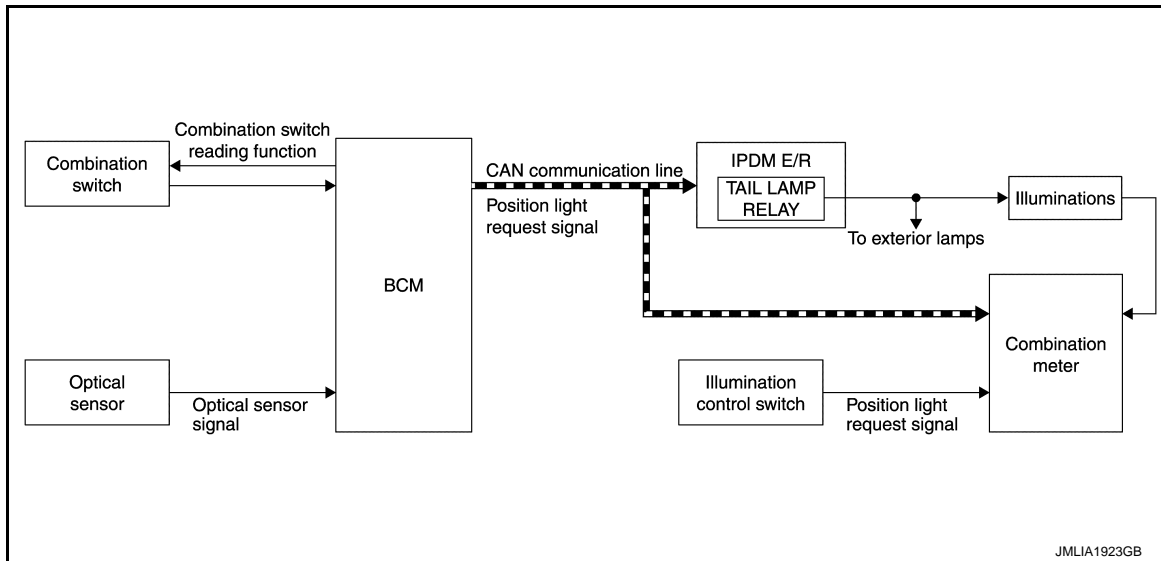
SYSTEM

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ILLUMINATION CONTROL SYSTEM : System Description

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SYSTEM DIAGRAM



OUTLINE

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

Control by BCM

- Combination switch reading function
- Headlamp control function

Control by IPDM E/R

- Relay control function

Control by combination meter

- Meter illumination control function (Refer to [MWI-35. "METER ILLUMINATION CONTROL : System Description".](#))

ILLUMINATION CONTROL

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

Tail lamp ON condition

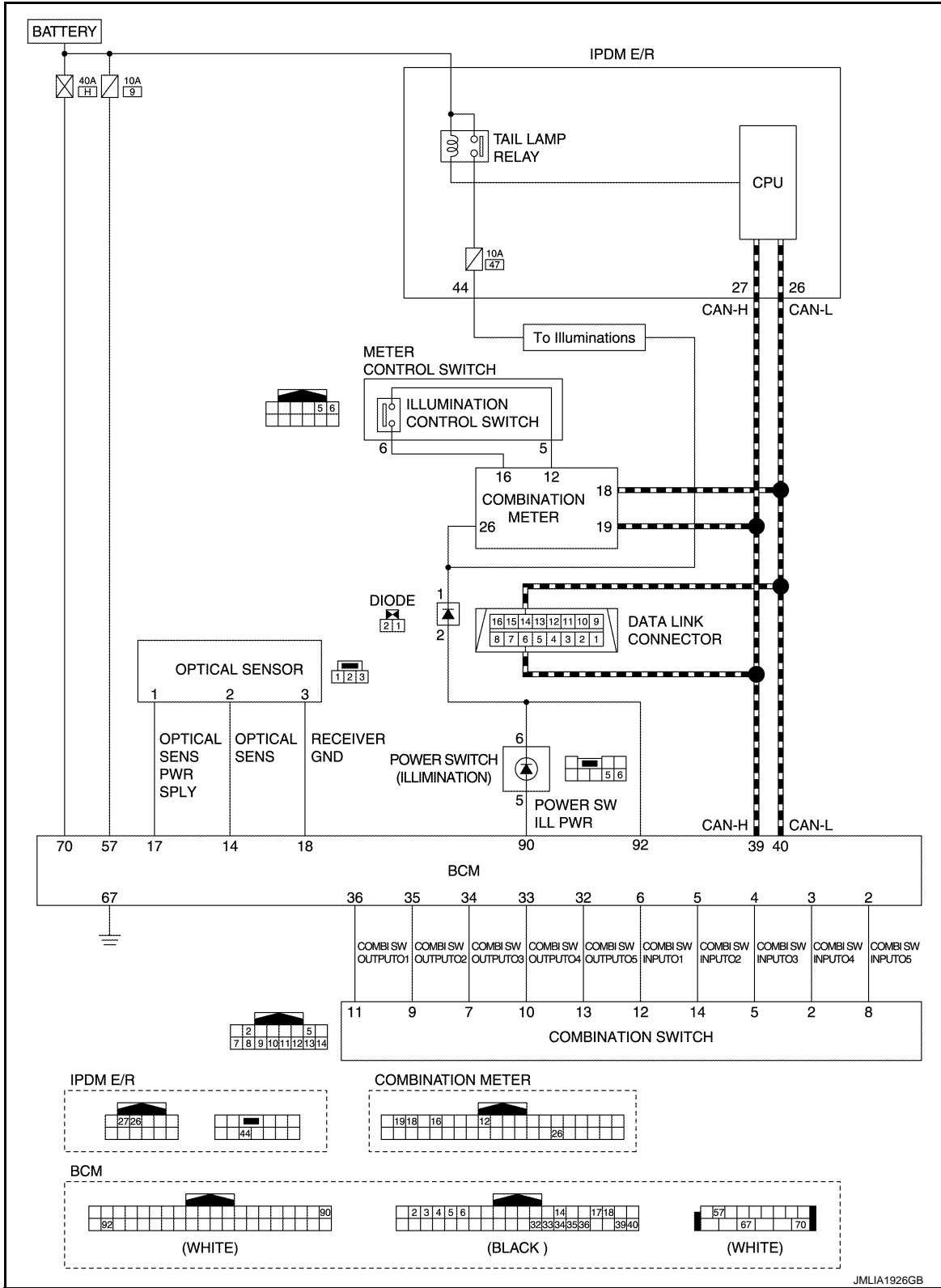
- Lighting switch 1ST
- Lighting switch 2ND
- Lighting switch AUTO, and the auto light function ON judgment
- Lighting switch AUTO, with the front fog lamp switch ON and the power switch ON
- IPDM E/R turns the integrated tail lamp relay ON according to position light request signal. It provides the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

SYSTEM

< SYSTEM DESCRIPTION >

ILLUMINATION CONTROL SYSTEM : Circuit Diagram

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AUTO LIGHT ADJUSTMENT SYSTEM

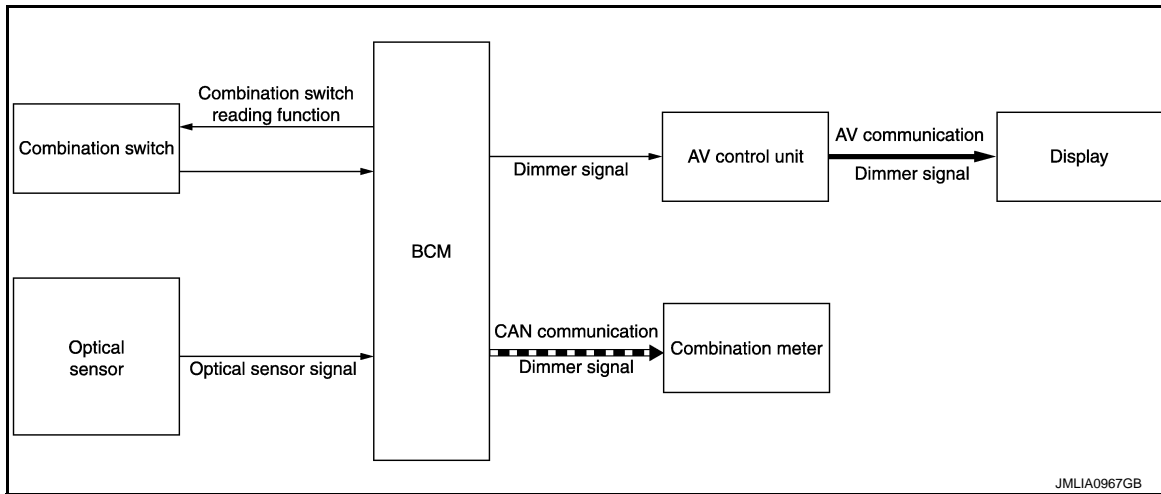
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< SYSTEM DESCRIPTION >

AUTO LIGHT ADJUSTMENT SYSTEM : System Description

INFOID:000000006934405

SYSTEM DIAGRAM



OUTLINE

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

Control by BCM

- Auto light system
- Auto light adjustment system

AUTO LIGHT ADJUSTMENT SYSTEM

Description

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

NOTE:

As to dimming/brightening timing, the sensitivity depends on settings. The settings can be changed with CONSULT. Refer to [EXL-35. "HEADLAMP : CONSULT Function \(BCM - HEAD LAMP\)".](#)

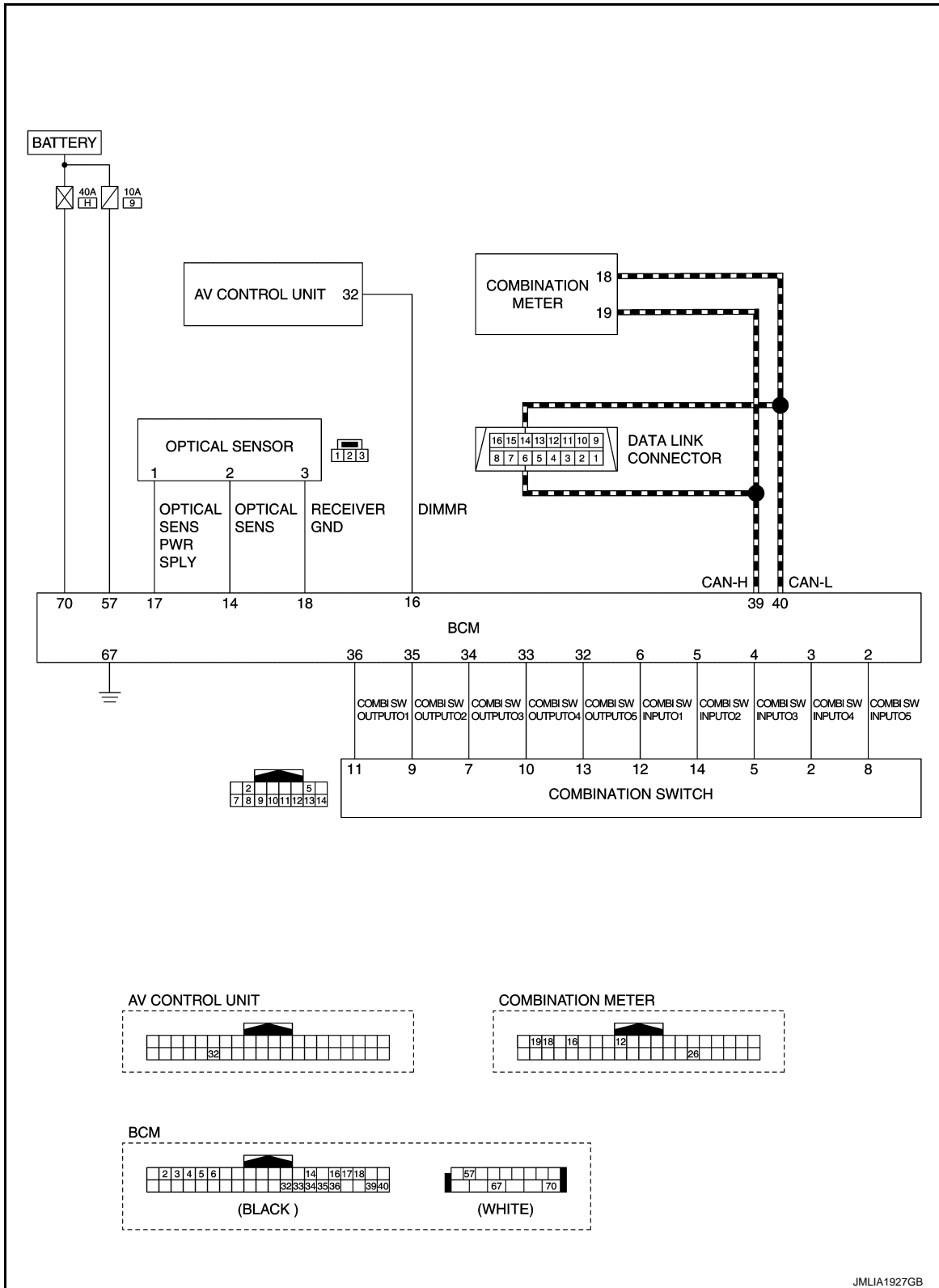
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SYSTEM

< SYSTEM DESCRIPTION >

AUTO LIGHT ADJUSTMENT SYSTEM : Circuit Diagram

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DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:000000007037071

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
Work Support	Changes the setting for each system function.
Self Diagnostic Result	Displays the diagnosis results judged by BCM.
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.
Data Monitor	The BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Ecu Identification	The BCM part number is displayed.
Configuration	<ul style="list-style-type: none"> Read and save the vehicle specification. Write the vehicle specification when replacing BCM.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

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

*: This item is displayed, but not used.

FREEZE FRAME DATA (FFD)

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

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

CONSULT screen item	Indication/Unit	Description	
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected	
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected	
Vehicle Condition	SLEEP>LOCK	Power supply position status of the moment a particular DTC is detected*	While turning BCM status from low power consumption mode to normal mode [Power supply position is OFF (LOCK)]
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode [Power supply position is OFF (OFF)]
	LOCK>ACC		While turning power supply position from OFF (LOCK) to ACC
	ACC>ON		While turning power supply position from ACC to ON
	RUN>ACC		While turning power supply position from READY (RUN) to ACC (Except emergency stop operation)
	CRANK>RUN		While turning power supply position from READY (CRANK) to READY (RUN)
	RUN>URGENT		While turning power supply position from READY (RUN) to ACC (Emergency stop operation)
	ACC>OFF		While turning power supply position from ACC to OFF (OFF)
	OFF>LOCK		While turning power supply position from OFF (OFF) to OFF (LOCK)
	OFF>ACC		While turning power supply position from OFF (OFF) to ACC
	ON>CRANK		While turning power supply position from ON to READY (CRANK)
	OFF>SLEEP		While turning BCM status from normal mode [Power supply position is OFF (OFF)] to low power consumption mode
	LOCK>SLEEP		While turning BCM status from normal mode [Power supply position is OFF (LOCK)] to low power consumption mode
	LOCK		Power supply position is OFF (LOCK)
	OFF		Power supply position is OFF (OFF)
	ACC		Power supply position is ACC
	ON		Power supply position is ON
	ENGINE RUN		Power supply position is READY (RUN)
CRANKING	Power supply position is READY (CRANK)		
IGN Counter	0 - 39	<p>The number of times that power switch is turned ON after DTC is detected</p> <ul style="list-style-type: none"> • The number is 0 when a malfunction is detected now. • The number increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever power switch OFF → ON. • The number is fixed to 39 until the self-diagnosis results are erased if it is over 39. 	

NOTE:

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

- OFF (OFF, LOCK): Power switch OFF
- ACC: Power switch ACC
- ON: Power switch ON
- READY (CRANK): Shifting to vehicle condition READY (Transmitting the READY signal from BCM to VCM)
- READY (RUN): Vehicle condition READY

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

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

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

INT LAMP

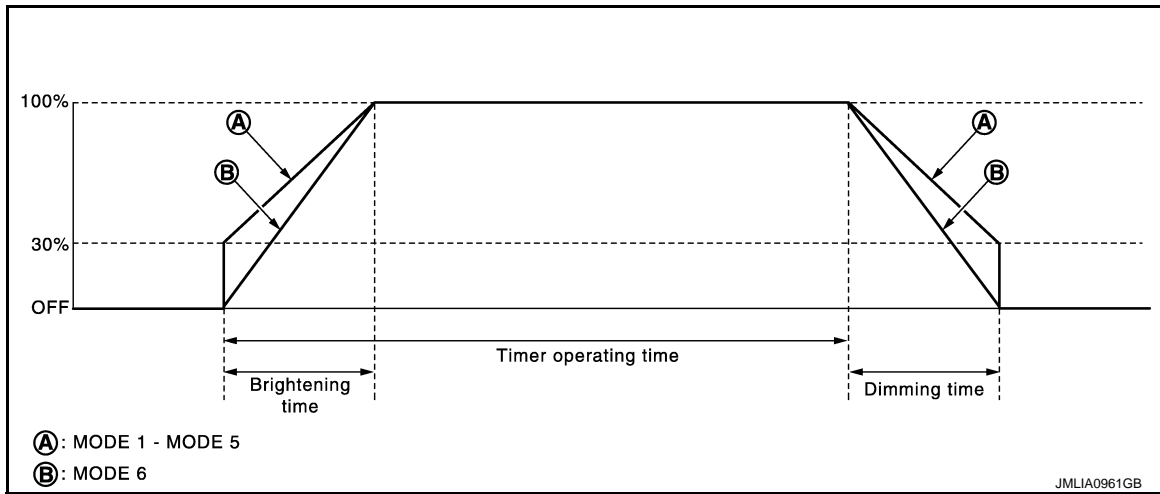
DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

INT LAMP : CONSULT Function (BCM - INT LAMP)

INFOID:000000006922556

WORK SUPPORT



Service item	Setting item	Setting
SET I/L D-UNLCK INTCON	On*	With the interior room lamp timer function
	Off	Without the interior room lamp timer function
ROOM LAMP TIMER SET	MODE 2	7.5 sec.
	MODE 3*	15 sec.
	MODE 4	30 sec.
ROOM LAMP ON TIME SET	MODE 1	0.5 sec.
	MODE 2	1 sec.
	MODE 3	2 sec.
	MODE 4	3 sec.
	MODE 5	0 sec.
	Factory setting	Gradually brightens from 0% to 100% brightness in 1 second.
ROOM LAMP OFF TIME SET	MODE 1	0.5 sec.
	MODE 2	1 sec.
	MODE 3	2 sec.
	MODE 4	3 sec.
	MODE 5	0 sec.
	Factory setting	Gradually dims from 100% to 0% in 1 second.
R LAMP TIMER LOGIC SET	MODE 1*	Interior room lamp timer activates with synchronizing all doors.
	MODE 2	Interior room lamp timer activates with synchronizing the driver door only.

*: Factory setting

DATA MONITOR

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

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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

ACTIVE TEST

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

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

INFOID:000000006922557

WORK SUPPORT

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

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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

*:Factory setting

DATA MONITOR

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

ACTIVE TEST

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

*: Each lamp switch is in ON position.

BCM

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM

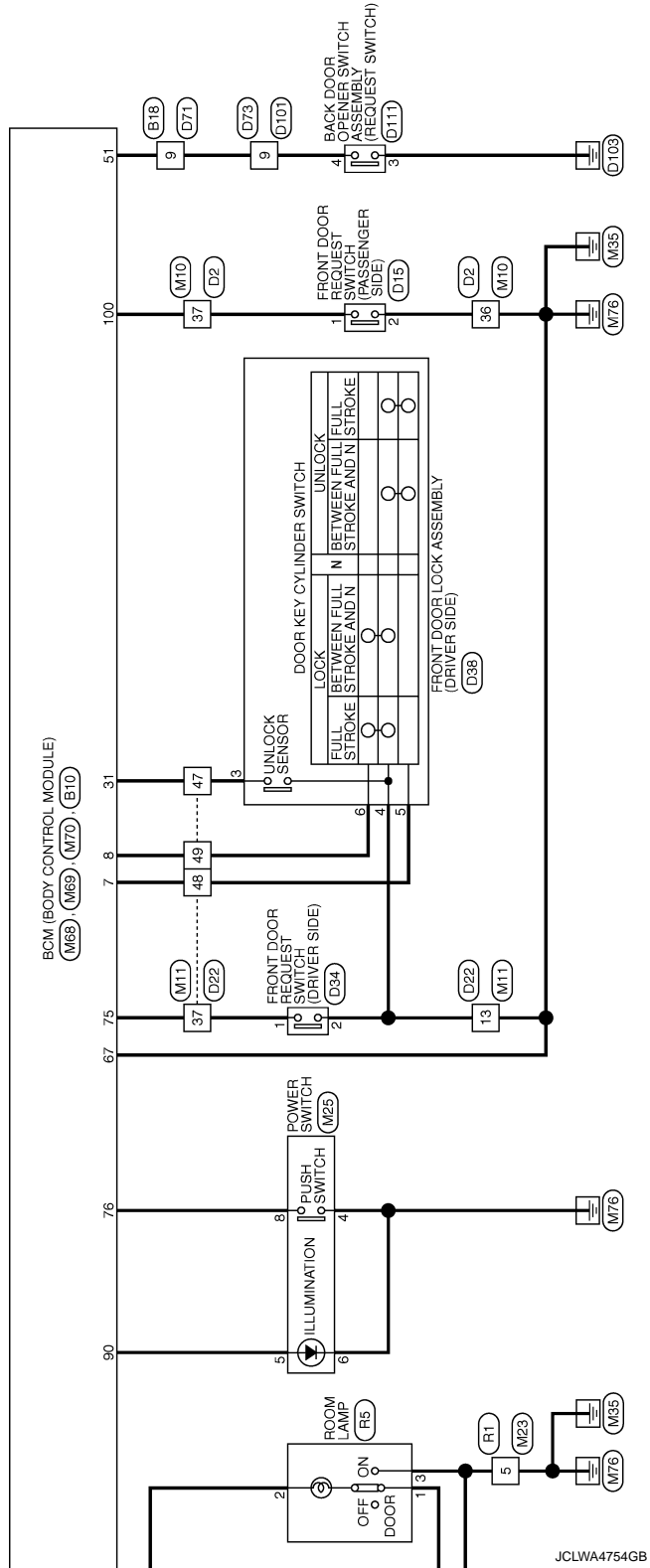
List of ECU Reference

INFOID:000000006922558

ECU	Reference
BCM	BCS-33. "Reference Value"
	BCS-53. "Fail-safe"
	BCS-54. "DTC Inspection Priority Chart"
	BCS-55. "DTC Index"

INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >



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INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

INTERIOR ROOM LAMP

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



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	G	-
6	R	-
7	BR	-
8	P	-
9	GR	-
10	W	-
11	LG	-
12	P	-
13	V	-
14	Y	-
15	W	-
16	L	-

Connector No.	B10
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FB-FHA6-SA



41	42	43	44	45	46	47	48	49
50	51	52	53	54	55			

Terminal No.	Color of Wire	Signal Name [Specification]
43	Y	BACK DOOR SW
44	LG	REAR WIPER STOP POSITION
45	BR	PASSENGER DOOR SW
46	R	REAR RH DOOR SW
47	SB	DRIVER DOOR SW
48	W	REAR LH DOOR SW
49	L	LUGGAGE LAMP OUTPUT
51	P	BACK DOOR REG SW
53	GR	BK DOOR OPEN OUTPUT
54	P	REAR WIPER OUTPUT

55	GR	PASS. RR DOOR UNLK OUTPUT
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Connector No.	B11
Connector Name	LUGGAGE ROOM LAMP
Connector Type	NS10FW-CS



1	2
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Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	L	-

Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	NH10MW-CS10



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

Terminal No.	Color of Wire	Signal Name [Specification]
5	P	-
6	R	-
7	P	-
9	P	-
10	Y	-
11	B	-
12	W	-
13	R	-
14	L	-
15	LG	-
17	SHIELD	-
18	B	-
20	GR	-

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



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

Terminal No.	Color of Wire	Signal Name [Specification]
3	W	-

Connector No.	B48
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	TH04FW-NH



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

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

Connector No.	B49
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH04FW-NH



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

Connector No.	B53
Connector Name	REAR DOOR SWITCH RH
Connector Type	TH04FW-NH



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

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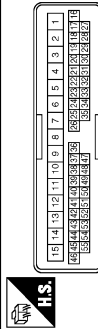
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INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

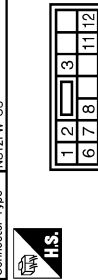
INTERIOR ROOM LAMP

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	R	-
3	Y	-
4	V	-
10	BR	-
11	Y	-
12	B	-
13	W	-
14	SB	-
15	R	-
24	Y	-
25	BR	-
26	SHIELD	-
36	B	-
37	P	-
38	Y	-
39	LG	-
44	V	-
45	W	-
46	BG	-
52	B	-
53	P	-

Connector No.	D10
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	Y	-
3	V	-
11	W	-
12	SB	-

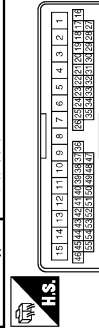
1	Y	-
2	BR	-
3	B	-
6	Y	-
7	R	-
8	R	-
11	SB	-
12	W	-

Connector No.	D15
Connector Name	FRONT DOOR REQUEST SWITCH (PASSENGER SIDE)
Connector Type	RH40ZFB



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

Connector No.	D22
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



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

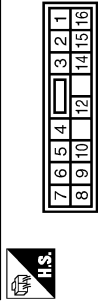
13	B	-
14	V	-
15	R	-
24	R	-
25	G	-
26	SHIELD	-
37	LG	-
38	V	-
39	P	-
40	Y	-
41	GR	-
42	V	-
43	L	-
44	LG	-
45	LG	-
46	BR	-
47	G	-
48	L	-
49	R	-
50	BR	-
53	P	-

Connector No.	D34
Connector Name	FRONT DOOR REQUEST SWITCH (DRIVER SIDE)
Connector Type	RH40ZFB



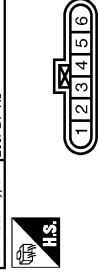
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	B	-

Connector No.	D35
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS



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

Connector No.	D38
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	EMFGY-RS



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

INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

INTERIOR ROOM LAMP

Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	NH10PW-CS10



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

Terminal No.	Color of Wire	Signal Name [Specification]
5	W	-
6	R	-
7	P	-
9	P	-
10	P	-
11	B	-
12	W	-
13	R	-
14	L	-
15	LG	-
17	SHIELD	-
18	Y	-
20	GR	-

Connector No.	D73
Connector Name	WIRE TO WIRE
Connector Type	NH10PW-CS10



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

Terminal No.	Color of Wire	Signal Name [Specification]
5	W	-
6	R	-
7	P	-
9	P	-
10	P	-
12	W	-
13	R	-
14	L	-
15	LG	-

17	SHIELD
18	Y
20	GR

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Type	NH10MW-CS10



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

Terminal No.	Color of Wire	Signal Name [Specification]
5	P	-
6	R	-
7	P	-
9	P	-
10	P	-
12	W	-
13	R	-
14	L	-
15	LG	-
17	SHIELD	-
18	B	-
20	GR	-

Connector No.	D111
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TRQ4MGT-RC



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

Connector No.	D112
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NSCAFV-CS



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

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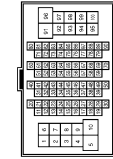
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INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

INTERIOR ROOM LAMP

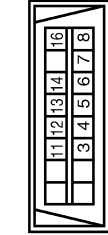
Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	R	-
3	GR	-
4	LG	-
6	W	-
7	V	-
8	P	-
9	G	-
10	R	-
11	O	-
12	W	-
13	B	-
14	Y	-
15	BR	-
16	LG	-
17	L	-
19	G	-
20	V	-
21	P	-
22	LG	-
23	GR	-
24	L	-
25	B	-
26	SB	-
27	B	-
29	BR	-
30	W	-
31	V	-
32	LG	-
33	O	-
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38	SB	-
39	GR	-
40	Y	-
41	R	-
42	W	-
43	SB	-

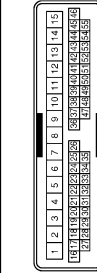
44	GR	-
45	G	-
46	P	-
47	LG	-
48	V	-
49	G	-
50	L	-
51	W	-
54	P	-
55	O	-
56	Y	-
57	P	-
58	LG	-
60	LG	-
61	GR	-
62	BR	-
63	O	-
64	R	-
65	Y	-
66	G	-
67	V	-
68	W	-
69	SB	-
71	Y	-
72	L	-
73	R	-
74	L	-
75	V	-
76	P	-
80	O	-
81	L	-
82	SB	-
83	G	-
84	BR	-
85	LG	-
86	GR	-
88	B	-
89	W	-
90	SHIELD	-
91	Y	-
92	BR	-
93	W	-
94	R	-
95	V	-
96	P	-
97	G	-
98	SB	-
99	O	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
3	LG	-
4	B	-
5	B	-
6	L	-
7	GR	-
8	G	-
11	SB	-
12	G	-
13	L	-
14	P	-
16	Y	-

Connector No.	M10
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	G	-
3	LG	-
4	V	-
10	BR	-
11	Y	-
12	B	-
13	W	-
14	SB	-
15	L	-
24	Y	-

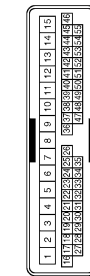
25	BR	-
26	SHIELD	-
36	B	-
37	P	-
38	Y	-
39	LG	-
44	L	-
45	LG	-
46	BR	-
52	B	-
53	V	-

INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

INTERIOR ROOM LAMP

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS-5



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	-
2	L	-
3	G	-
4	V	-
7	BR	-
8	Y	-
9	LG	-
10	W	-
11	W	-
12	SB	-
13	B	-
14	L	-
15	R	-
24	R	-
25	G	-
26	SHIELD	-
37	LG	-
38	V	-
39	P	-
40	Y	-
41	B	-
42	P	-
43	L	-
44	L	-
45	LG	-
46	BR	-
47	W	-
48	GR	-
49	R	-
50	BR	-
53	V	-

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	NS16FF-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
6	V	-
7	P	-
8	P	-
9	B	-
10	W	-
11	LG	-
12	GR	-
13	W	-
14	Y	-
15	LG	-
16	L	-

Connector No.	M23
Connector Name	WIRE TO WIRE
Connector Type	TH10MW-NH



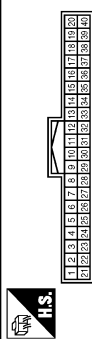
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	L	-
3	SHIELD	-
5	B	-
6	BR	-
7	P	-
8	Y	-
9	R	-
10	B	-
11	O	-

Connector No.	M25
Connector Name	POWER SWITCH
Connector Type	TK08FBR



Terminal No.	Color of Wire	Signal Name [Specification]
3	G	-
4	B	-
5	W	-
6	B	-
7	V	-
8	SB	-

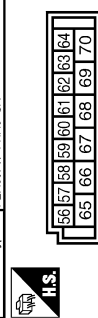
Connector No.	M68
Connector Name	BOM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
2	L	COMBI SW INPUT 5
3	GR	COMBI SW INPUT 4
4	BR	COMBI SW INPUT 3
5	G	COMBI SW INPUT 2
6	V	COMBI SW INPUT 1
7	GR	KEY CYL UNLK SW
8	R	KEY CYL LOCK SW
9	BR	STOP LAMP SW 1
12	Y	DOOR LK & UNLK SW LOCK
13	BR	DOOR LK & UNLK SW UNLOCK
14	G	OPTICAL SENS
15	W	REAR WINDOW DEF SW
16	R	DIMMER
17	Y	OPTICAL SENS PWR SPLY
18	V	SENS/RECEIV GND
21	P	MATS ANTENNA AMP.

23	R	SECURITY INO LAMP CONT
24	SB	DOUBLE UNLK
25	LG	MATS ANTENNA AMP.
29	P	HAZARD SW
30	L	BK DOOR OPERER SW
31	W	DR DOOR UNLK SENS
32	LG	COMBI SW OUTPUT 5
33	Y	COMBI SW OUTPUT 4
34	W	COMBI SW OUTPUT 3
35	R	COMBI SW OUTPUT 2
36	P	COMBI SW OUTPUT 1
37	W	P POSITION
38	SB	RECEIVER COAMM
39	L	CAN-H
40	P	CAN-L

Connector No.	M69
Connector Name	BOM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA6-SA



Terminal No.	Color of Wire	Signal Name [Specification]
56	P	INT ROOM LAMP PWR SPLY
57	P	BAT (FUSE)
59	LG	PASS DOOR UNLK OUTPUT
60	V	TURN SIG LH OUTPUT
61	W	TURN SIG RH OUTPUT
63	BR	INT ROOM LAMP CONT
65	V	ALL DOOR LOCK OUTPUT
66	G	DR DOOR UNLK OUTPUT
67	B	GND
68	L	PW PWR SPLY (ON)
69	P	PW PWR SPLY (BAT)
70	Y	BAT (F/L)

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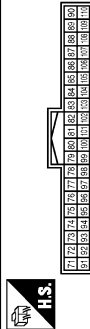
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INTERIOR ROOM LAMP CONTROL SYSTEM

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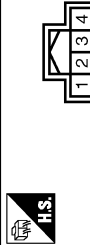
INTERIOR ROOM LAMP

Connector No.	M70
Connector Name	BCM BODY CONTROL MODULE
Connector Type	TH40FY-NH



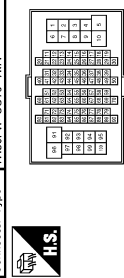
Terminal No.	Color of Wire	Signal Name [Specification]
75	LG	DR DOOR REQ SW
76	SB	POWER SW (PUSH SW)
78	P	DRIVER DOOR ANT+
78	V	DRIVER DOOR ANT-
80	LG	PASS DOOR ANT+
81	Y	PASS DOOR ANT-
82	W	REAR EMPR ANT+
83	B	REAR EMPR ANT-
84	BR	ROOM ANT 1+
85	Y	ROOM ANT 1-
86	G	ROOM ANT 2+
87	R	ROOM ANT 2-
88	V	LUGGAGE ROOM ANT+
89	LG	LUGGAGE ROOM ANT-
90	W	POWER SW ILL PWR
91	V	ACC / ON IND
92	B	POWER SW ILL GND CONT
93	GR	F-KEY WARN BUZZER
96	BR	ACC RELAY CONT
97	W	READY
98	G	IGN RELAY (P/DIM E/R) CONT
98	R	IGN RELAY (F/B) CONT
100	P	PASS DOOR REQ SW
102	R	P/M POSITION
104	LG	WAKE-UP
105	P	STOP LAMP SW 2

Connector No.	M75
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Type	TH40FY-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	GND
2	SB	SIGNAL
4	V	POWER

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80FY-CS16-TM4

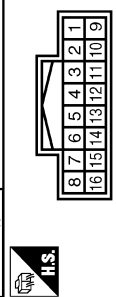


Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	
2	V	
3	GR	
4	LG	
6	W	
7	V	
8	P	
9	SB	
10	L	
11	LG	
12	W	
13	R	
14	Y	
15	R	
16	G	
17	BR	
19	G	
20	G	
21	P	

22	LG	
23	GR	
24	L	
25	R	
26	G	
27	L	
28	W	
30	W	
31	SB	
32	LG	
33	V	
34	L	
35	SB	
38	LG	
39	GR	
40	Y	
41	R	
42	W	
43	SB	
44	GR	
45	P	
46	R	
47	W	
48	L	
49	G	
50	L	
51	L	
54	W	
55	G	
56	BR	
57	P	
58	R	
60	Y	
61	GR	
62	SB	
63	Y	
64	G	
65	V	
66	P	
67	Y	
68	P	
69	BR	
71	Y	
72	L	
73	G	
74	L	
75	V	
76	R	
80	W	
81	L	
82	SB	
83	R	

84	BR	
85	R	
86	GR	
88	R	
89	W	
90	SHIELD	
91	Y	
92	BR	
93	W	
94	P	
95	V	
96	P	
97	G	
98	R	
99	LG	

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH18FY-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	
2	L	
3	SHIELD	
5	B	
6	R	
7	Y	
8	B/Y	
9	V	
10	G	
11	B/R	



INTERIOR ROOM LAMP CONTROL SYSTEM

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INTERIOR ROOM LAMP

Connector No.	R4
Connector Name	MAP LAMP
Connector Type	TK08FGY

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	G	-
4	B	-
5	R	-
6	Y	-

Connector No.	R5
Connector Name	ROOM LAMP
Connector Type	TB03FW

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

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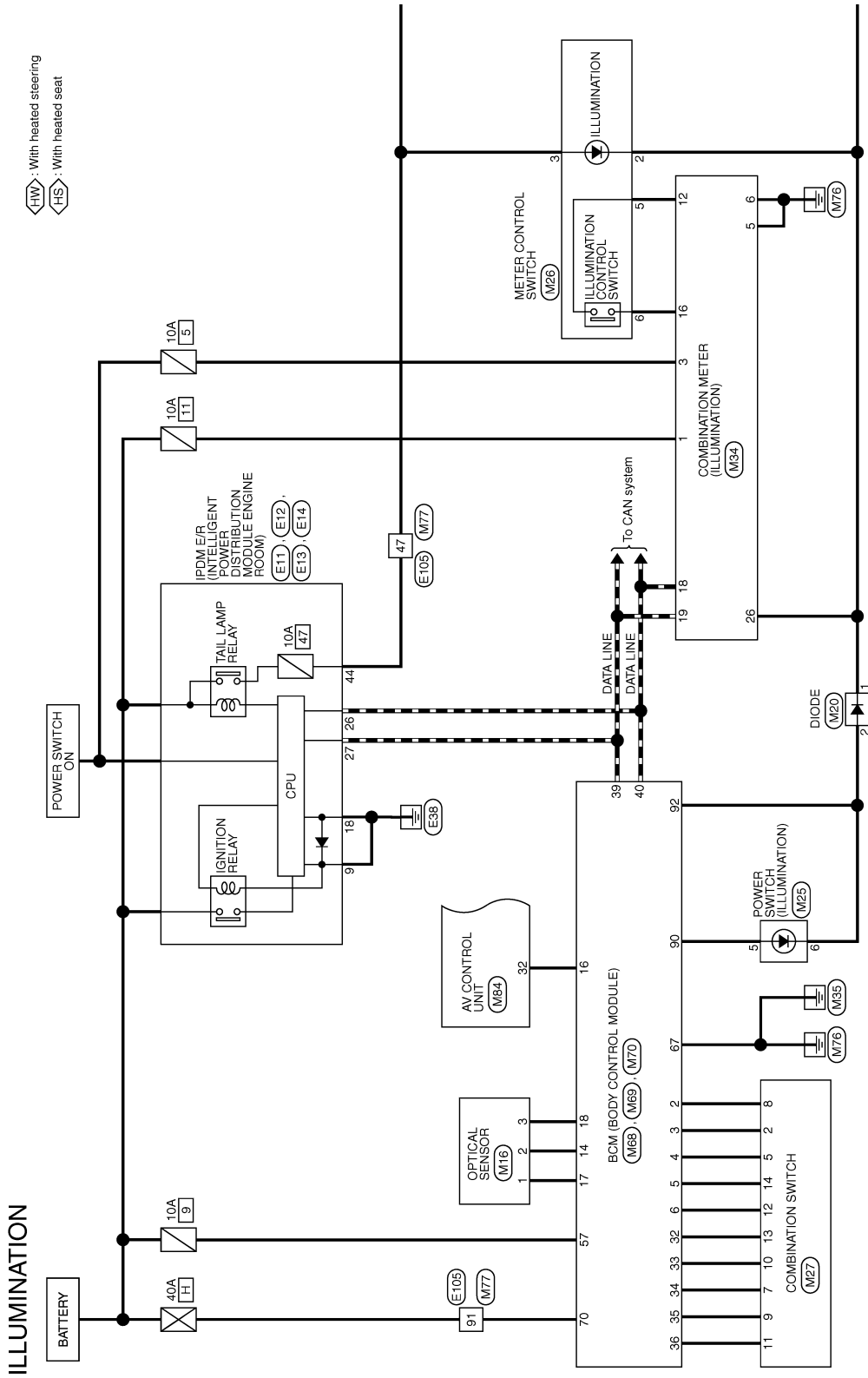
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Wiring Diagram

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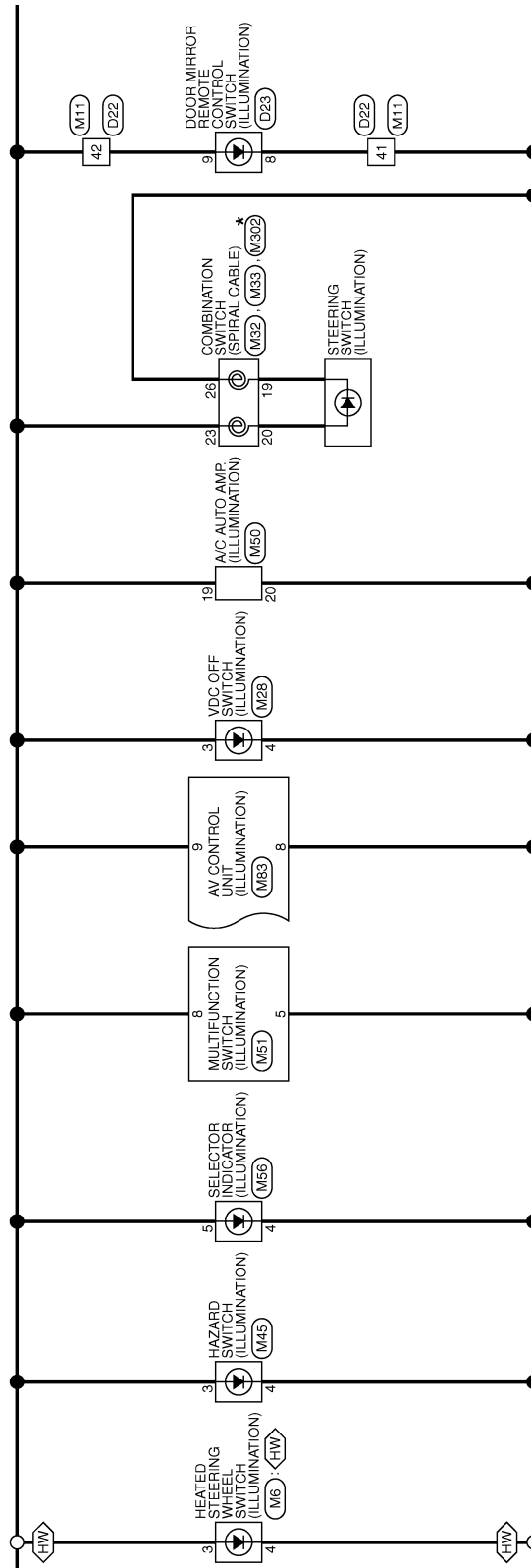


HW: With heated steering
 HS: With heated seat

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

ILLUMINATION

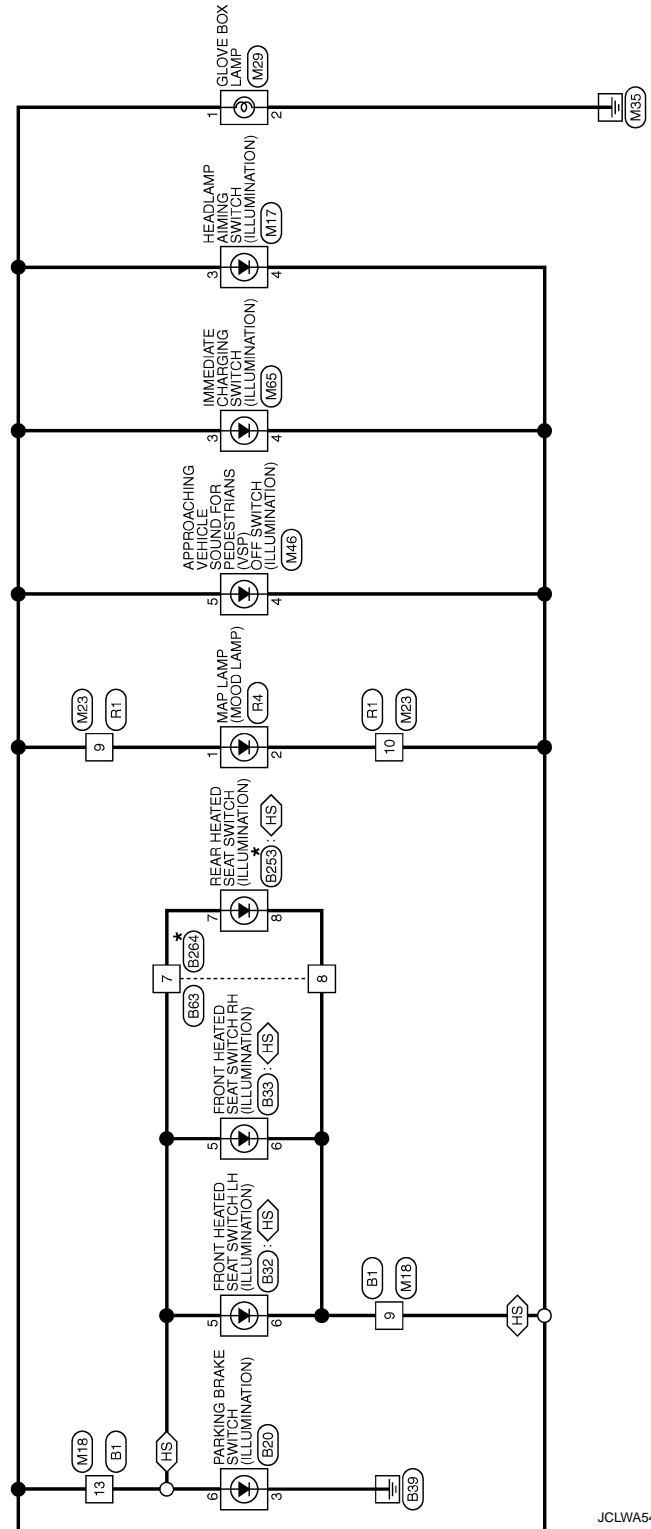
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ILLUMINATION

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ILLUMINATION

Connector No. B1	WIRE TO WIRE	NS16MW-CS	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Connector No. E264	WIRE TO WIRE	NS30MP-CS	1 3 6 8 7 4 5 2	
Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-	1	R	-	1	R	-
6	R	-	2	L	-	2	W	-
7	BR	-	3	B	-	3	B	-
8	P	-	4	P	-	4	BR	-
9	GR	-	5	L	-	5	O	-
10	W	-	6	Y	-	6	Y	-
11	LG	-	7	V	-	7	P	-
12	P	-	8	B	-	8	V	-
13	V	-						
14	Y	-						
15	W	-						
16	L	-						

Connector No. B20	PARKING BRAKE SWITCH	TK08FG	1 2 3 4 5 6 7 8	Connector No. B253	REAR HEATED SEAT SWITCH	NS06FB-CS	7 8 3 5 4 6	
Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-	1	R	-	1	R	-
2	SB	-	2	L	-	2	L	-
3	B	-	3	B	-	3	B	-
4	V	-	4	P	-	4	P	-
5	P	-	5	L	-	5	L	-
6	R	-	6	R	-	6	R	-
7	W	-	7	V	-	7	V	-
8	Y	-	8	B	-	8	B	-

Connector No. B32	FRONT HEATED SEAT SWITCH LH	NS06FF-CS	5 6 4 2 1 3	Connector No. B33	WIRE TO WIRE	NS08FW-CS	6 3 1 2 5 4 7 8	
Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-	1	R	-	1	R	-
2	L	-	2	L	-	2	L	-
3	R	-	3	B	-	3	B	-
4	B	-	4	P	-	4	P	-
5	V	-	5	L	-	5	L	-
6	GR	-	6	R	-	6	R	-

Connector No. B33	FRONT HEATED SEAT SWITCH RH	NS06FB-CS	5 6 4 2 1 3	Connector No. B253	REAR HEATED SEAT SWITCH	NS06FB-CS	7 8 3 5 4 6	
Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-	1	R	-	1	R	-
2	L	-	2	L	-	2	L	-
3	R	-	3	B	-	3	B	-
4	B	-	4	P	-	4	P	-
5	V	-	5	L	-	5	L	-
6	GR	-	6	R	-	6	R	-

Connector No. B33	FRONT HEATED SEAT SWITCH LH	NS06FF-CS	5 6 4 2 1 3	Connector No. B253	REAR HEATED SEAT SWITCH	NS06FB-CS	7 8 3 5 4 6	
Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-	1	R	-	1	R	-
2	L	-	2	L	-	2	L	-
3	R	-	3	B	-	3	B	-
4	B	-	4	P	-	4	P	-
5	V	-	5	L	-	5	L	-
6	GR	-	6	R	-	6	R	-

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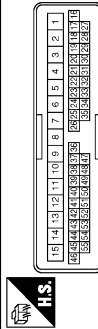
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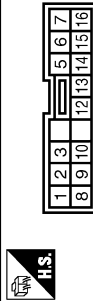
ILLUMINATION

Connector No.	D22
Connector Name	WIRE TO WIRE
Connector Type	TH407W-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	V	-
3	SB	-
4	V	-
7	P	-
8	BR	-
9	LG	-
10	Y	-
11	W	-
12	SB	-
13	B	-
14	V	-
15	R	-
24	R	-
25	G	-
26	SHIELD	-
37	LG	-
38	V	-
39	P	-
40	Y	-
41	GR	-
42	V	-
43	L	-
44	L	-
45	LG	-
46	BR	-
47	G	-
48	L	-
49	R	-
50	BR	-
53	P	-

Connector No.	D23
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	TK18FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
7	L	-
8	GR	-
9	V	-
10	G	-
12	BR	-
13	LG	-
14	Y	-
15	L	-
16	W	-

Connector No.	E11
Connector Name	FORMER INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	M08FB-LC



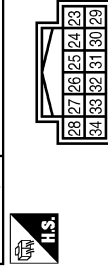
Terminal No.	Color of Wire	Signal Name [Specification]
9	B	-
14	R	-

Connector No.	E12
Connector Name	FORMER INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	NS08FBR-CS



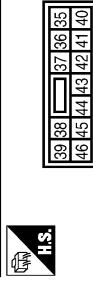
Terminal No.	Color of Wire	Signal Name [Specification]
18	B/W	-
19	W	-
20	V	-

Connector No.	E13
Connector Name	FORMER INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
25	R	-
26	P	-
27	L	-
28	G	-
32	SB	-
34	W	-

Connector No.	E14
Connector Name	FORMER INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	NS12FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
35	G	-
36	GR	-
38	V	-
39	L	-
41	W	-
42	R	-
43	O	-
44	LG	-
45	Y	-

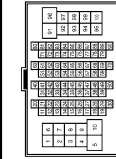
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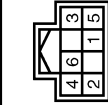
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Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS1F-TM4



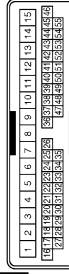
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	R	-
3	GR	-
4	LG	-
5	W	-
6	Y	-
7	V	-
8	P	-
9	G	-
10	R	-
11	O	-
12	W	-
13	B	-
14	Y	-
15	BR	-
16	LG	-
17	L	-
18	G	-
19	V	-
20	V	-
21	P	-
22	LG	-
23	GR	-
24	L	-
25	R	-
26	SB	-
27	B	-
28	BR	-
29	W	-
30	W	-
31	V	-
32	LG	-
33	O	-
34	L	-
35	BR	-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

Connector No.	M6
Connector Name	HEATED STEERING WHEEL SWITCH
Connector Type	TH40FL-NH



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

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS1.5



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	-
2	L	-
3	G	-
4	V	-
7	BR	-
8	Y	-
9	LG	-
10	Y	-
11	W	-
12	SB	-
13	B	-
14	L	-
15	R	-
24	R	-
25	G	-
26	SHIELD	-

37	LG	-
38	V	-
39	P	-
40	Y	-
41	B	-
42	P	-
43	L	-
44	L	-
45	LG	-
46	BR	-
47	W	-
48	GR	-
49	R	-
50	BR	-
53	V	-

Connector No.	M16
Connector Name	OPTICAL SENSOR
Connector Type	TK03FW



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

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ILLUMINATION

Connector No.	M17
Connector Name	HEADLAMP AIMING SWITCH
Connector Type	AA4FW



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

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



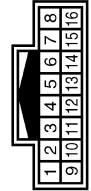
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
6	V	-
7	P	-
8	P	-
9	B	-
10	W	-
11	LG	-
12	GR	-
13	W	-
14	Y	-
15	LG	-
16	L	-

Connector No.	M20
Connector Name	DIODE
Connector Type	24325 C9900



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

Connector No.	M23
Connector Name	WIRE TO WIRE
Connector Type	TH16MP-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	L	-
3	SHIELD	-
5	B	-
6	BR	-
7	P	-
8	Y	-
9	R	-
10	B	-
11	O	-

Connector No.	M25
Connector Name	POWER SWITCH
Connector Type	TK08FB



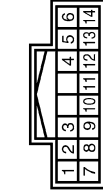
Terminal No.	Color of Wire	Signal Name [Specification]
3	G	-
4	B	-
5	W	-
6	B	-
7	V	-
8	SB	-

Connector No.	M26
Connector Name	METER CONTROL SWITCH
Connector Type	TH12FW-NH



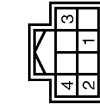
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	B	-
3	R	-
5	V	-
6	BR	-
11	BR	-
12	W	-

Connector No.	M27
Connector Name	COMBINATION SWITCH
Connector Type	TH16FW-NH



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

Connector No.	M28
Connector Name	VDC OFF SWITCH
Connector Type	TH08FB-NH



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

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Connector No.	M29
Connector Name	GLOVE BOX LAMP
Connector Type	AGZFW



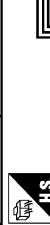
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	
2	B	

Connector No.	M22
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FY-EX-IV



Terminal No.	Color of Wire	Signal Name [Specification]
23	R	
28	Y/V	
30	GR	

Connector No.	M23
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-IV



Terminal No.	Color of Wire	Signal Name [Specification]
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24	BR	-
25	LG	-
26	B	-
31	Y	-
32	SB	-
33	SHIELD	-
34	G	-

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	TH4QFW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	BATTERY POWER SUPPLY
2	R	BATTERY POWER SUPPLY (FOR UPPER METER)
3	GR	POWER SWITCH SUPPLY
4	BR	POWER SWITCH SUPPLY (FOR UPPER METER)
5	B	GROUND
6	B	GROUND
7	V	ELECTRIC SHIFT WARNING SIGNAL
8	Y	WASHER LEVEL SWITCH SIGNAL
9	G	PLUG IN SIGNAL
10	L	COMMUNICATION SIGNAL (METER → VSP)
11	P	COMMUNICATION SIGNAL (VSP → METER)
12	V	METER CONTROL SWITCH GROUND
13	LG	ENTER SWITCH SIGNAL
14	W	SELECT SWITCH SIGNAL
15	BR	TRIP-RESET SWITCH SIGNAL
16	BR	ILLUMINATION CONTROL SWITCH SIGNAL
17	V	ILLUMINATION CONTROL SIGNAL (FOR UPPER METER)
18	P	CAN-L
19	L	CAN-H
20	V	SEAT BELT BRIOLE SWITCH SIGNAL (PASSENGER SIDE)
22	GR	GROUND (FOR UPPER METER)
24	BR	ELECTRIC PARKING BRAKE CONTROL MODULE MAKEUP SIGNAL
25	SB	BRAKE FLUID LEVEL SWITCH SIGNAL
26	B	ILLUMINATION CONTROL SIGNAL
27	R	AIR BAG SIGNAL
28	R	SECURITY SIGNAL
30	GR	VEHICLE SPEED SIGNAL (8-PULSE)
32	W	COMMUNICATION SIGNAL (METER → UPPER)
33	LG	CLOCK SIGNAL

34	L	PLUG IN INDICATOR LAMP SIGNAL
38	V	LED-HEADLAMP (RH) WARNING SIGNAL
39	LG	LED-HEADLAMP (LH) WARNING SIGNAL
40	Y	SEAT BELT BRIOLE SWITCH SIGNAL (DRIVER SIDE)

Connector No.	M45
Connector Name	HAZARD SWITCH
Connector Type	TK04FW



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

Connector No.	M46
Connector Name	APPROACHING VEHICLE SOUND FOR PEDESTRIANS (VSP) OFF SWITCH
Connector Type	TK08FGY



Terminal No.	Color of Wire	Signal Name [Specification]
2	LG	
3	GR	
4	B	
5	W	
6	B	
7	G	

Connector No.	M60
Connector Name	A/C AUTO AMP.
Connector Type	TH4QFW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	REC
2	R	MODE4
3	P	MODE3
4	Y	MODE2
5	V	MODE1
6	BR	MIK4
7	SB	MIK3
8	LG	MIK2
9	L	MIK1
10	B	GND
12	GR	BLOWER PWM
13	V	W/PUMP PWM
14	L	COMP TX
15	W	RR DEF SW O/P
16	LG	HEATED STEERING WHEEL SWITCH SIGNAL
17	R	W/PUMP F/B
18	W	COMP RX
19	W	LIGHT+
20	B	LIGHT-
21	G	FRESH
22	LG	HEATED STEERING WHEEL RELAY CONTROL SIGNAL
23	SB	SEAT HEAT RELAY
27	W	BY OUT
28	L	EV CAN-H
29	G	EV CAN-L
30	R	SEMS GND
31	W	BATT
32	Y	IGN 1
33	LG	INCAR SENS
34	G	INTAKE SENS
35	P	SUN SENS
36	GR	AMB SENS
37	BR	WATER SENS
38	SB	INT F/B
40	SB	PTC/LIN

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

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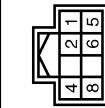
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ILLUMINATION

< WIRING DIAGRAM >

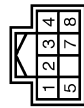
ILLUMINATION

Connector No.	M51
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH08FV-NH



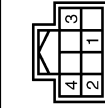
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	LG	-
4	R	-
5	B	-
6	SB	-
8	W	-

Connector No.	M56
Connector Name	SELECTOR INDICATOR
Connector Type	TH08FV-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	R	-
3	B	-
4	B	-
5	W	-
7	L	-
8	R	-

Connector No.	M65
Connector Name	IMMEDIATE CHARGING SWITCH
Connector Type	TH08FY-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	SB	-
3	W	ILLUMINATION +
4	B	ILLUMINATION -

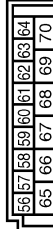
Connector No.	M68
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
2	L	COMBI SW INPUT 5
3	GR	COMBI SW INPUT 4
4	BR	COMBI SW INPUT 2
5	G	COMBI SW INPUT 2
6	V	COMBI SW INPUT 1
7	GR	KEY CYL UNLK SW
8	R	KEY CYL LOCK SW
9	BR	STOP LAMP SW 1
12	Y	DOOR LK & UNLK SW LOCK
13	BR	DOOR LK & UNLK SW UNLOCK
14	G	OPTICAL SENS
15	W	REAR WINDOW DEF SW
16	R	DIMMER
17	Y	OPTICAL SENS PWR SPLY
18	V	SENS/RECEIV GND
21	P	NATS ANTENNA AMP
23	R	SECURITY IND LAMP CONT
24	SB	DOUBLE LINK

25	LG	NATS ANTENNA AMP
28	P	HAZARD SW
30	L	BK DOOR CREWER SW
31	W	DR DOOR UNLK SENS
32	LG	COMBI SW OUTPUT 5
33	Y	COMBI SW OUTPUT 4
34	W	COMBI SW OUTPUT 3
35	R	COMBI SW OUTPUT 2
36	P	COMBI SW OUTPUT 1
37	W	P POSITION
38	SB	RECEIVER COMM
39	L	CAN-H
40	P	CAN-L

Connector No.	M69
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA08FW-FH4B-SA



Terminal No.	Color of Wire	Signal Name [Specification]
56	P	INT ROOM LAMP PWR SPLY
57	P	BAT (FUSE)
59	LG	PASS DOOR UNLK OUTPUT
60	V	TURN SIG LH OUTPUT
61	W	TURN SIG RH OUTPUT
63	BR	INT ROOM LAMP CONT
65	V	ALL DOOR LOCK OUTPUT
66	G	DR DOOR UNLK OUTPUT
67	B	GND
68	L	PW PWR SPLY (GN)
69	P	PW PWR SPLY (BAT)
70	Y	BAT (F/L)

Connector No.	M70
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
75	LG	DR DOOR REQ SW
76	SB	POWER SW (PUSH SW)
78	P	DRIVER DOOR ANT+
79	V	DRIVER DOOR ANT-
80	LG	PASS DOOR ANT+
81	Y	PASS DOOR ANT-
82	W	REAR BMPR ANT+
83	B	REAR BMPR ANT-
84	BR	ROOM ANT 1+
85	Y	ROOM ANT 1-
86	G	ROOM ANT 2+
87	R	ROOM ANT 2-
88	V	LUGGAGE ROOM ANT+
89	LG	LUGGAGE ROOM ANT-
90	W	POWER SW ILL PWR
91	V	ACC / ON IND
92	B	POWER SW ILL GND CONT
93	GR	F-KEY WARN BUZZER
96	BR	ACC RELAY CONT
97	W	READY
98	G	IGN RELAY (PDM / E / R) CONT
99	R	IGN RELAY (E / B) CONT
100	P	PASS DOOR REQ SW
102	R	P/N POSITION
104	LG	WAKE-UP
105	P	STOP LAMP SW 2

ILLUMINATION

< WIRING DIAGRAM >

ILLUMINATION

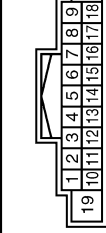
Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80PW-CS16-TM4



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

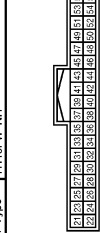
44	GR	-
45	P	-
46	R	-
47	W	-
48	L	-
49	G	-
50	L	-
51	L	-
54	W	-
55	G	-
56	BR	-
57	P	-
58	R	-
60	Y	-
61	GR	-
62	SB	-
63	Y	-
64	G	-
65	V	-
66	P	-
67	Y	-
68	P	-
69	BR	-
71	Y	-
72	L	-
73	G	-
74	L	-
75	V	-
76	R	-
80	W	-
81	L	-
82	SB	-
83	R	-
84	BR	-
85	R	-
86	GR	-
88	R	-
89	W	-
90	SHIELD	-
91	Y	-
92	BR	-
93	W	-
94	P	-
95	V	-
96	P	-
97	G	-
98	R	-
99	LG	-

Connector No.	M83
Connector Name	AV CONTROL UNIT
Connector Type	TH18PW-CS2



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

Connector No.	M84
Connector Name	AV CONTROL UNIT
Connector Type	TH40PW-RH



Terminal No.	Color of Wire	Signal Name [Specification]
21	LG	AV COMM (L)
22	SB	AV COMM (H)
23	LG	AV COMM (L)
24	SB	AV COMM (H)
25	P	CAN-L
26	L	CAN-H
28	GR	VEHICLE SPEED SIGNAL (0-PULSE)

29	BR	PARKING BRAKE SIGNAL
30	G	REVERSE SIGNAL
31	V	POWER SWITCH ON SIGNAL
32	R	DIMMER SIGNAL
46	L	MICROPHONE SIGNAL
47	Y	MICROPHONE VCC
48	SHIELD	MICROPHONE SHIELD
49	R	AUX SOUND SIGNAL LH (+)
50	W	AUX SOUND SIGNAL RH (+)
51	B	AUX SOUND SIGNAL (-)
52	SHIELD	SHIELD
56	B	CAMERA CONNECTION RECOGNITION SIGNAL
57	R	CAMERA POWER SUPPLY
58	W	CAMERA GROUND
59	R	CAMERA IMAGE SIGNAL
60	SHIELD	SHIELD

Connector No.	M822
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY



Terminal No.	Color of Wire	Signal Name [Specification]
13	R	-
14	W	-
15	L	-
16	B	-
17	BR	-
18	G	-
19	Y	-
20	Y	-

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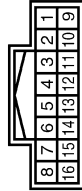
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ILLUMINATION

< WIRING DIAGRAM >

ILLUMINATION

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH16FV-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	-
2	L	-
3	SHIELD	-
5	B	-
6	R	-
7	Y	-
8	B/Y	-
9	V	-
10	G	-
11	B/R	-

Connector No.	R4
Connector Name	MAP LAMP
Connector Type	TK06FGY



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

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

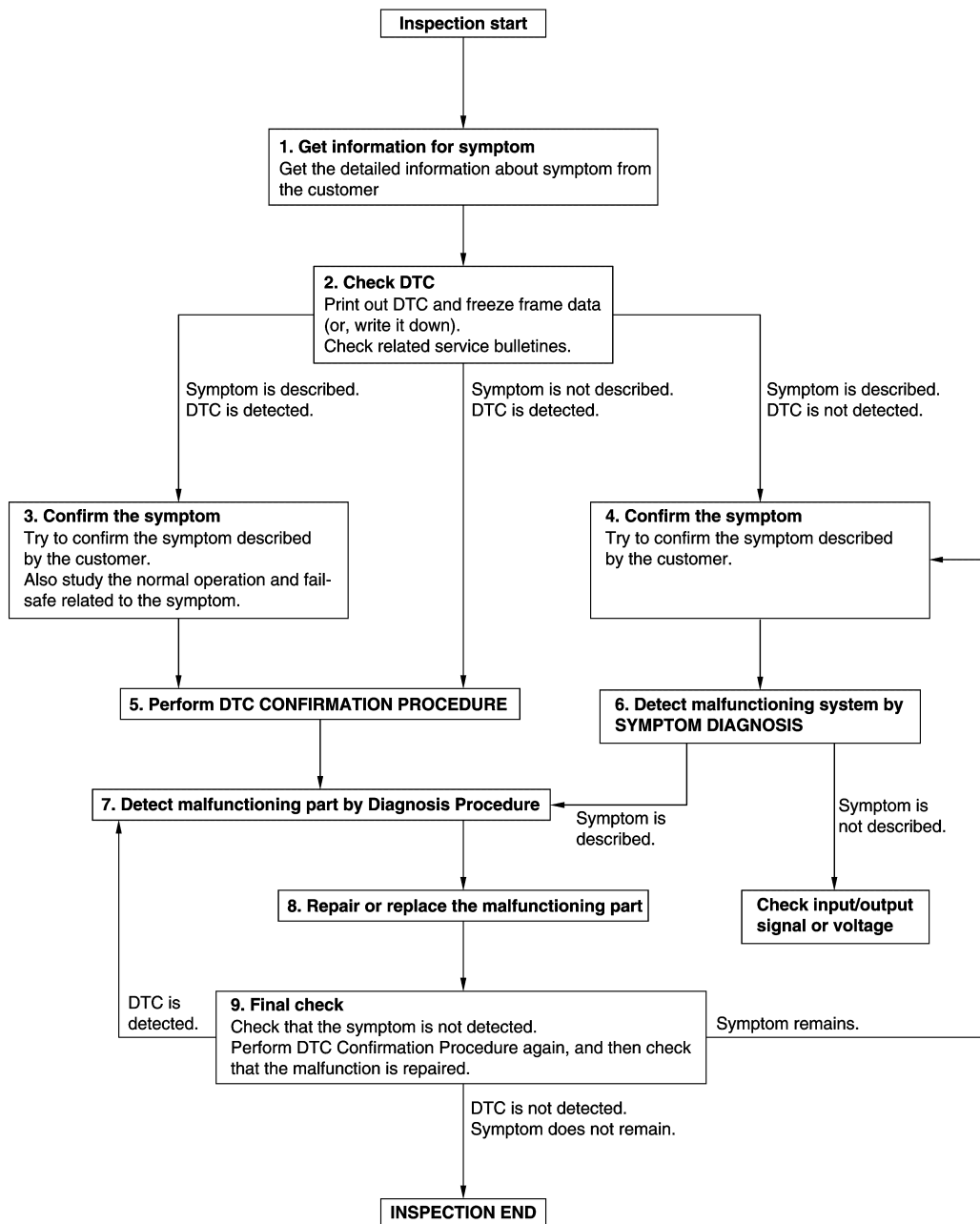
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000007425911

OVERALL SEQUENCE



DETAILED FLOW

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

1. GET INFORMATION FOR SYMPTOM

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

>> GO TO 2.

2. CHECK DTC

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

Are any symptoms described and any DTC detected?

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

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

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

3. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

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

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

>> GO TO 5.

4. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

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

>> GO TO 6.

5. PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC CONFIRMATION PROCEDURE for the detected DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check self diagnostic results in real time.

If two or more DTCs are detected, refer to [BCS-54. "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-51. "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 DIAGNOSTIC PROCEDURE

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

Inspect according to Diagnostic Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to [GI-51. "Intermittent Incident"](#).

8. REPAIR OR REPLACE THE MALFUNCTIONING PART

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

>> GO TO 9.

9. FINAL CHECK

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

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

Is DTC detected and does symptom remain?

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

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

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

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INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

Description

INFOID:000000006922562

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

Component Function Check

INFOID:000000006922563

1. CHECK INTERIOR ROOM LAMP POWER SUPPLY FUNCTION

Ⓟ CONSULT ACTIVE TEST

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

Off : Interior room lamp OFF

On : Interior room lamp ON

Does each interior room lamp turn ON/OFF?

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

NO >> Refer to [INL-46. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000006922564

1. CHECK INTERIOR ROOM LAMP POWER SUPPLY OUTPUT

Ⓟ CONSULT ACTIVE TEST

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

BCM		(-)	Test item	Voltage (Approx.)	
(+) Connector Terminal					
M69	56	Ground	BATTERY SAVER	Off	0 V
				On	12 V

Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 3.

2. CHECK INTERIOR ROOM LAMP POWER SUPPLY OPEN CIRCUIT

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

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

BCM		Each interior room lamp			Continuity
Connector	Terminal	Connector	Terminal	Terminal	
M69	56	Map lamp	R4	6	Existed
		Room lamp	R5	2	
		Luggage room lamp	B11	1	

Is the inspection result normal?

YES >> Check for internal short circuit of each interior room lamp.

NO >> Repair or replace harnesses.

3. CHECK INTERIOR ROOM LAMP POWER SUPPLY SHORT CIRCUIT

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

BCM		Ground	Continuity
Connector	Terminal		
M69	56		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-77. "Removal and Installation"](#) .

NO >> Repair or replace harnesses.

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INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL CIRCUIT

Description

INFOID:000000006922565

Controls each interior room lamp (ground side) by PWM signal.

NOTE:

PWM signal control period is approximately 250 Hz (in the gradual brightening/dimming).

Component Function Check

INFOID:000000006922566

CAUTION:

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

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

1. CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

CONSULT ACTIVE TEST

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

On : Interior room lamp gradual brightening

Off : Interior room lamp gradual dimming

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

YES >> Interior room lamp control circuit is normal.

NO >> Refer to [INL-48, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000006922567

1. CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

CONSULT ACTIVE TEST

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

BCM		Ground	Test item		Continuity
Connector	Terminal		INT LAMP	On	Existed
M69	63			On	Existed
			Off	Not existed	

Is the inspection result normal?

YES >> GO TO 2.

Fixed ON>>GO TO 3.

Fixed OFF>>Replace BCM. Refer to [BCS-77, "Removal and Installation"](#).

2. CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

1. Turn power switch OFF.
2. Disconnect BCM connector, map lamp and room lamp connectors.
3. Check continuity between BCM harness connector and map lamp harness connector.

BCM		Map lamp		Continuity
Connector	Terminal	Connector	Terminal	
M69	63	R4	5	Existed

INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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

BCM		Room lamp		Continuity
Connector	Terminal	Connector	Terminal	
M69	63	R5	1	Existed

Is the inspection result normal?

YES >> Replace map lamp or room lamp.

NO >> Repair or replace harnesses.

3. CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

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

BCM		Ground	Continuity
Connector	Terminal		
M69	63		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-77, "Removal and Installation"](#).

NO >> Repair or replace harnesses.

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LUGGAGE ROOM LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

LUGGAGE ROOM LAMP CIRCUIT

Description

INFOID:000000006922568

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

Diagnosis Procedure

INFOID:000000006922569

CAUTION:

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

- Interior room lamp power supply
- Luggage room lamp bulb

1. CHECK LUGGAGE ROOM LAMP OUTPUT

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

BCM		Ground	Condition		Continuity
Connector	Terminal		Back door	Open	Existed
B10	49			Closed	Not existed

Is the inspection result normal?

YES >> GO TO 2.

Fixed ON>>GO TO 3.

Fixed OFF>>Replace BCM. Refer to [BCS-77. "Removal and Installation"](#).

2. CHECK LUGGAGE ROOM LAMP OPEN CIRCUIT

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

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

Is the inspection result normal?

YES >> Replace luggage room lamp.

NO >> Repair or replace harnesses.

3. CHECK LUGGAGE ROOM LAMP SHORT CIRCUIT

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

BCM		Ground	Continuity
Connector	Terminal		
B10	49		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-77. "Removal and Installation"](#).

NO >> Repair or replace harnesses.

POWER SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SWITCH ILLUMINATION CIRCUIT

Description

INFOID:000000006922570

Provides the power supply and the ground to control the power switch illumination.

Component Function Check

INFOID:000000006922571

1. CHECK POWER SWITCH ILLUMINATION OPERATION

CONSULT ACTIVE TEST

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

On : Power switch illumination ON

Off : Power switch illumination OFF

Does the power switch illumination turn ON/OFF?

- YES >> Power switch illumination circuit is normal.
NO >> Refer to [INL-51, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000006922572

1. CHECK POWER SWITCH ILLUMINATION POWER SUPPLY OUTPUT

1. Turn power switch OFF.
2. Disconnect power switch connector.
3. Check voltage between power switch harness connector and ground.

(+)		(-)	Condition	Voltage (Approx.)	
Connector	Terminal				
M25	5	Ground	Power switch illumination	ON	12 V
			OFF	0 V	

Is the inspection result normal?

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

2. CHECK POWER SWITCH ILLUMINATION POWER SUPPLY OPEN CIRCUIT

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

BCM		Power switch		Continuity
Connector	Terminal	Connector	Terminal	
M70	90	M25	5	Existed

Is the inspection result normal?

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

3. CHECK POWER SWITCH ILLUMINATION POWER SUPPLY SHORT CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M70	90		Not existed

POWER SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-77, "Removal and Installation"](#).

NO >> Repair or replace harnesses.

4. CHECK POWER SWITCH ILLUMINATION GROUND CIRCUIT

1. Turn the power switch OFF.
2. Check continuity between power switch harness connector and ground.

Power switch		Ground	Continuity
Connector	Terminal		
M25	6		Existed

Is the inspection result normal?

YES >> Replace power switch.

NO >> Repair or replace harnesses.

INTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

INFOID:000000006922573

CAUTION:

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

Symptom	Possible cause	Inspection item
All the following lamps do not turn ON. <ul style="list-style-type: none"> Map lamp Room lamp Luggage room lamp 	<ul style="list-style-type: none"> Harness between BCM and each interior room lamp BCM 	Interior room lamp power supply circuit Refer to INL-46 .
<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> Harness between BCM and each door switch Harness between BCM and each interior room lamp BCM 	Door switch circuit Refer to DLK-97 . Interior room lamp control circuit Refer to INL-48 .
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-19 .
<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> Harness between BCM and back door switch Harness between BCM and luggage room lamp BCM 	Back door switch circuit Refer to DLK-97 . Luggage room lamp circuit Refer to INL-50 .
Power switch illumination does not illuminate.	<ul style="list-style-type: none"> Harness between BCM and power switch BCM 	Power switch illumination circuit Refer to INL-51 .
Interior room lamp battery saver does not activate.	BCM	Replace BCM. Refer to BCS-77 .

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MAP LAMP

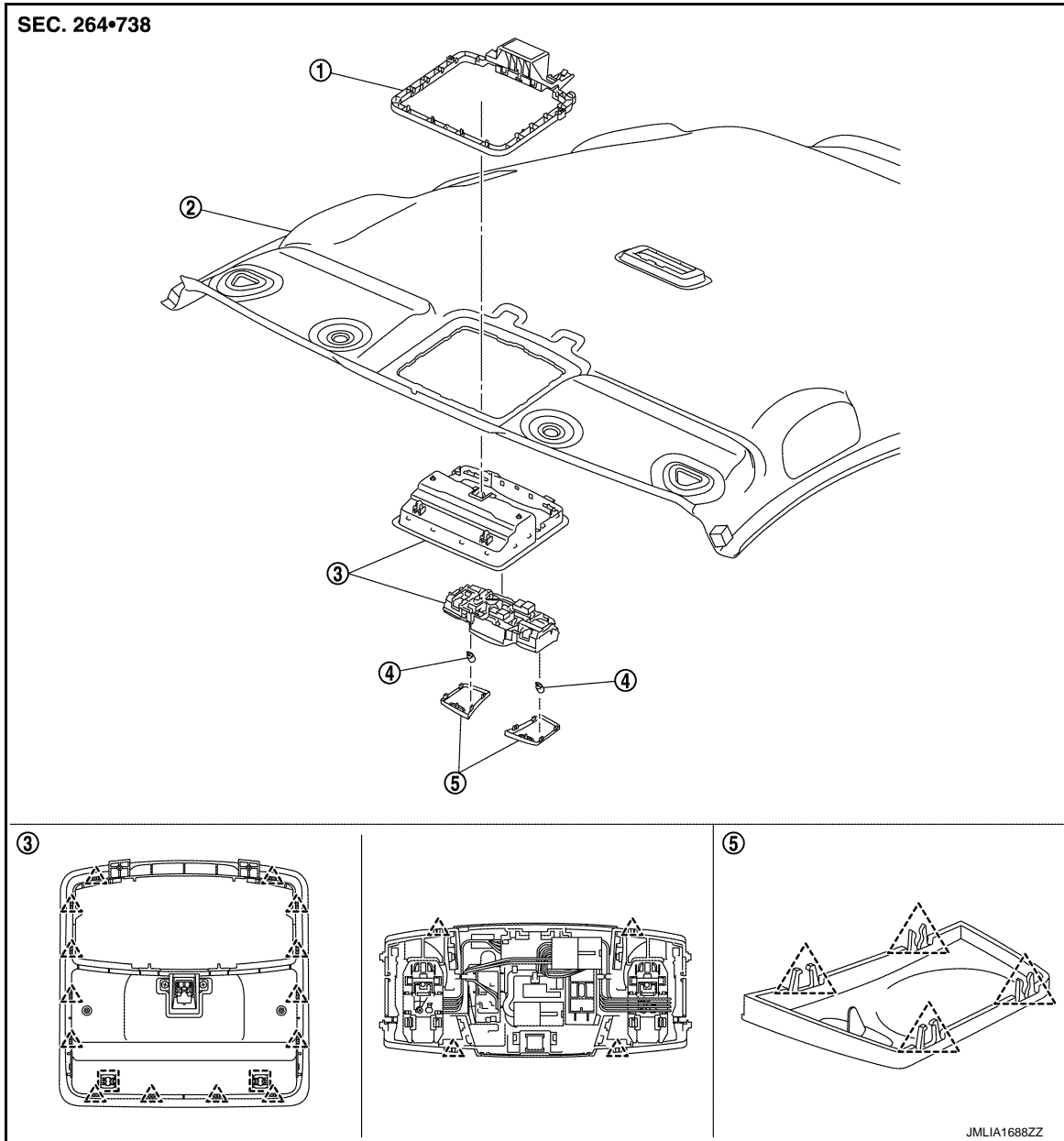
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

MAP LAMP

Exploded View

INFOID:000000006922574



1. Map lamp plate

4. Bulb

△ : Pawl

□ : Metal clip

2. Headlining

5. Lens

3. Map lamp assembly

Removal and Installation

INFOID:000000006922575

CAUTION:

- Disconnect the 12V battery negative terminal or remove power circuit fuse while performing the operation to prevent electric leakage. Refer to [INL-4, "Precautions for Removing Battery Terminal"](#).

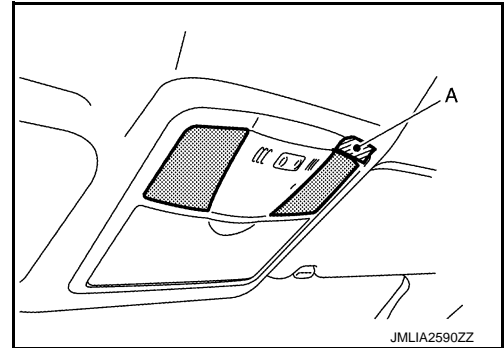
MAP LAMP

< REMOVAL AND INSTALLATION >


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

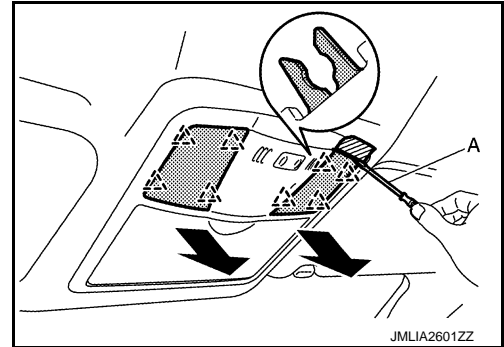
REMOVAL

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




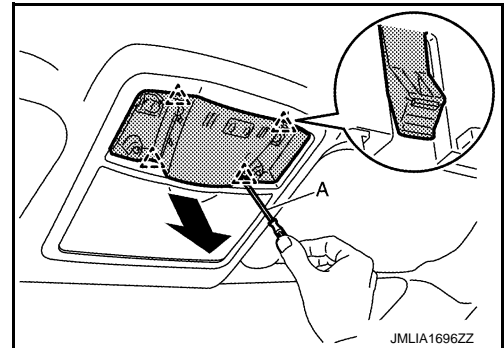
2. Remove lens.
Disengage lens fixing pawls using a remover tool (A).

 : Pawl




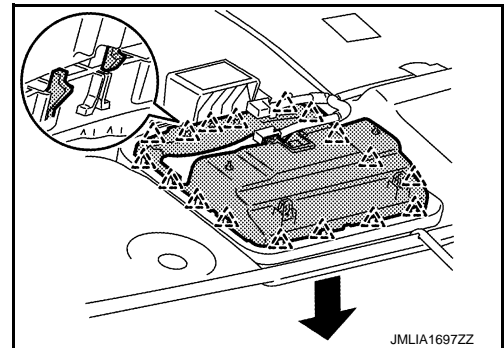
3. Remove lamp unit.
 - a. Disengage lamp unit fixing pawls using a remover tool (A).

 : Pawl



- b. Disconnect harness connector, and then remove lamp unit.
4. Remove headlining. Refer to [INT-32. "Removal and Installation"](#).
 5. Disengage map lamp assembly fixing pawls, and then remove map lamp assembly.

 : Pawl



INSTALLATION

Install in the reverse order of removal.

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MAP LAMP

< REMOVAL AND INSTALLATION >

Replacement

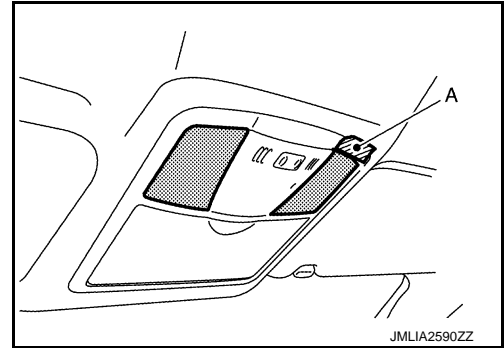
INFOID:000000006922576

CAUTION:


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

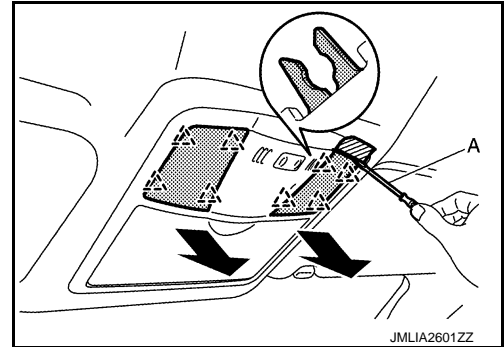
MAP LAMP BULB

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



2. Remove lens.
Disengage lens fixing pawls using a remover tool (A).

 : Pawl



3. Remove bulb.

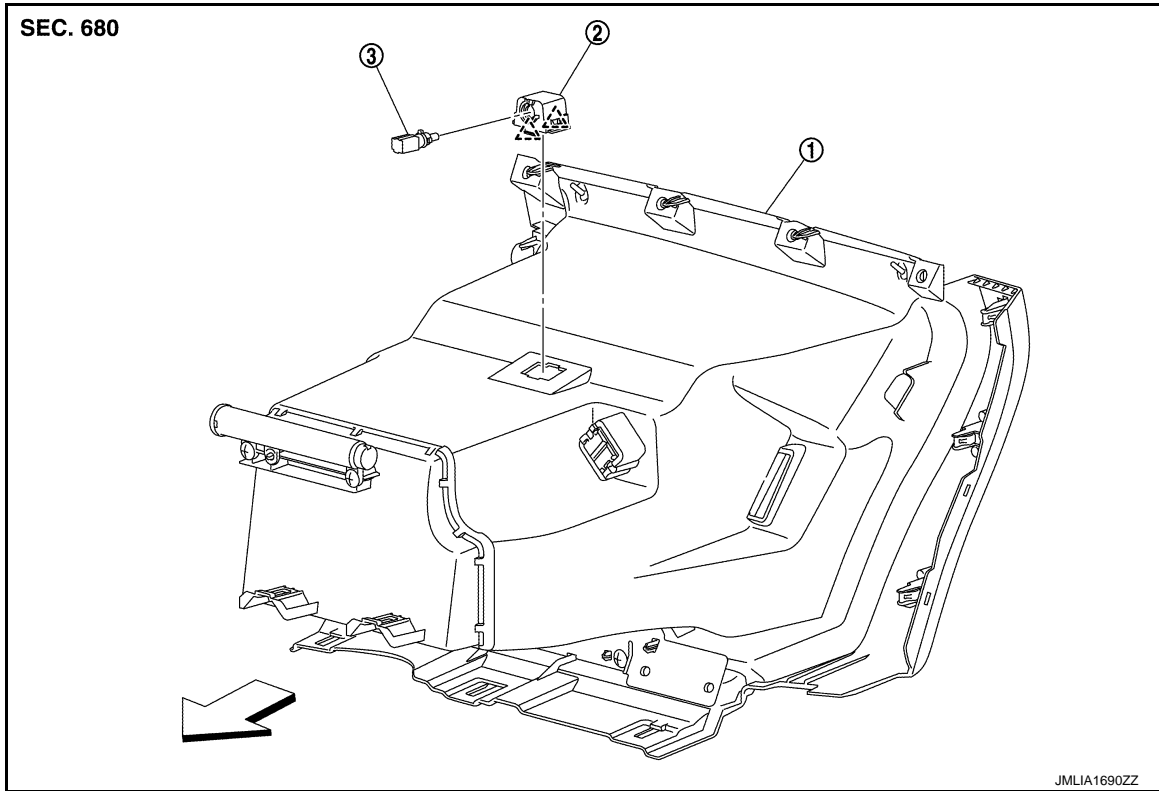
GLOVE BOX LAMP

< REMOVAL AND INSTALLATION >

GLOVE BOX LAMP

Exploded View


INFOID:000000006922577



1. Glove box assembly

2. Lamp housing

3. Bulb & socket assembly

 : Pawl

 : Vehicle front

Replacement

INFOID:000000006922578

CAUTION:

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

GLOVE BOX LAMP BULB

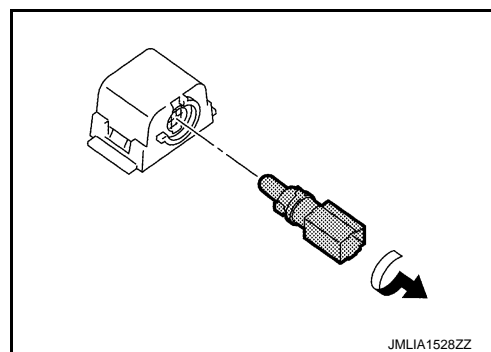
1. Remove glove box assembly. Refer to [IP-14, "Removal and Installation"](#).

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GLOVE BOX LAMP

< REMOVAL AND INSTALLATION >

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



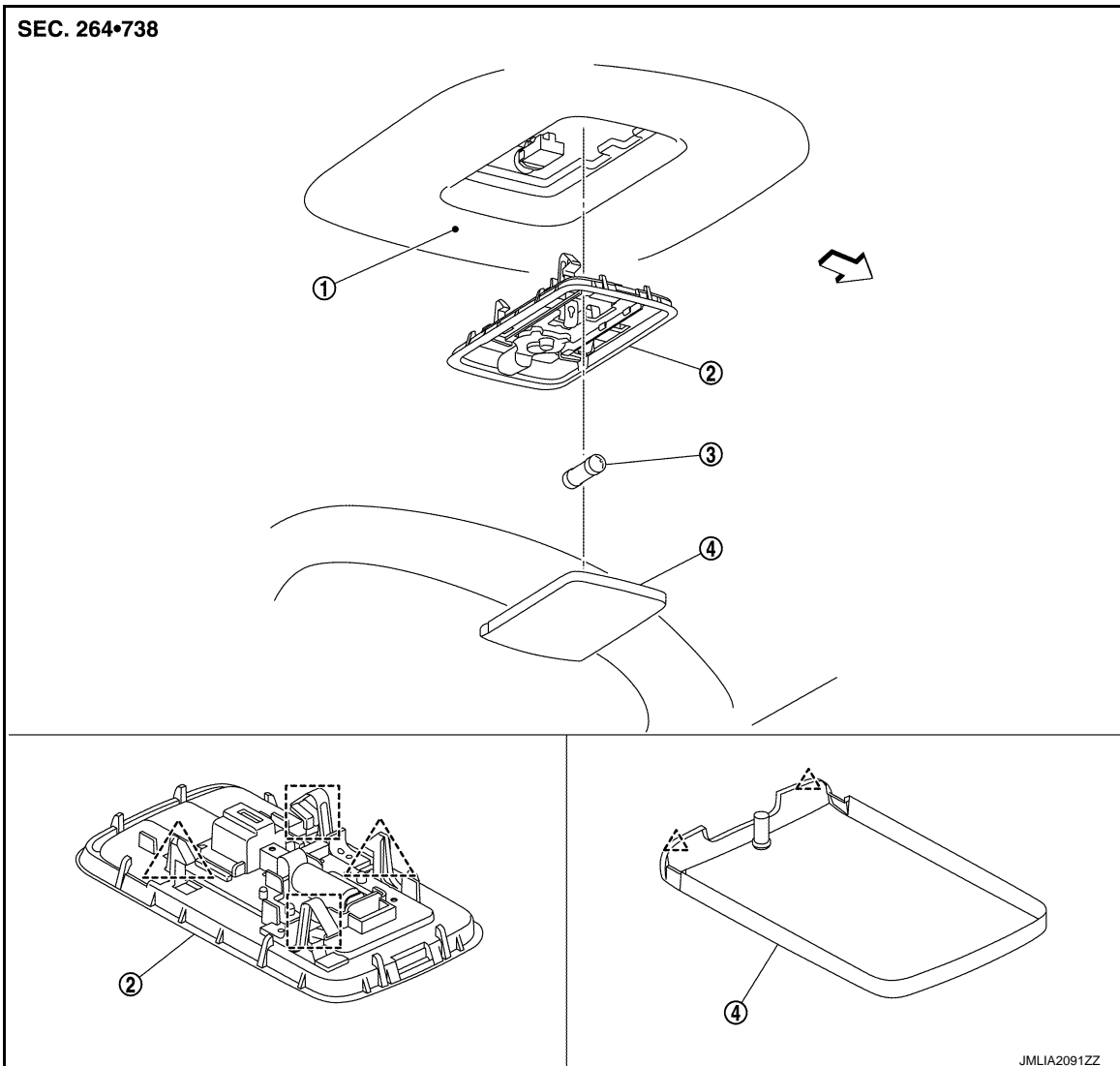
ROOM LAMP

< REMOVAL AND INSTALLATION >

ROOM LAMP

Exploded View

INFOID:000000006922579





1. Headlining

2. Room lamp assembly

3. Bulb

4. Lens

 : Pawl

 : Metal clip

 : Vehicle front

Removal and Installation

INFOID:000000006922580

CAUTION:

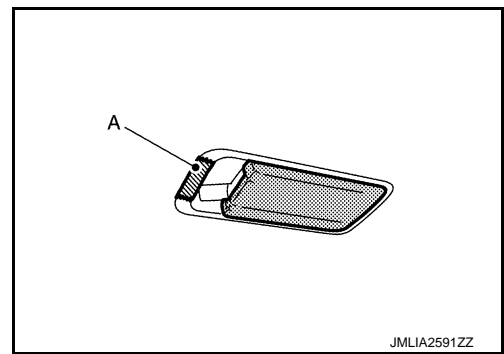
- Disconnect the 12V battery negative terminal or remove power circuit fuse while performing the operation to prevent electric leakage. Refer to [INL-4, "Precautions for Removing Battery Terminal"](#).
- Never touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Never touch the glass surface of the bulb with bare hands because the surface is very hot just after the lamp is turned OFF to prevent a burns.

REMOVAL


ROOM LAMP

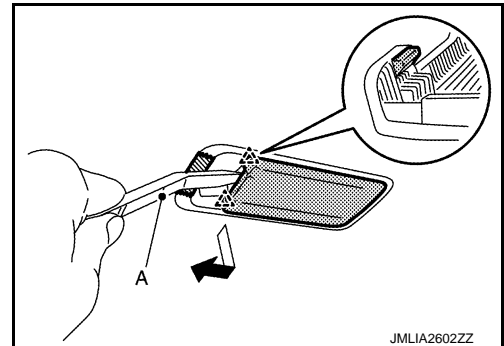
< REMOVAL AND INSTALLATION >

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



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



 : Pawl

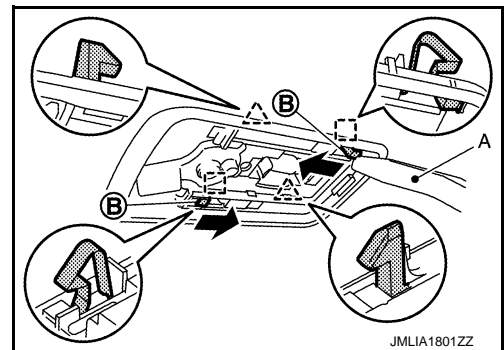


3. Using a remover tool (A), press metal clip (B), and then disengage.
4. Pull downward and then disengage room lamp fixing pawls.

CAUTION:

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

 : Pawl
 : Metal clip



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

INSTALLATION

Install in the reverse order of removal.

Replacement

INFOID:000000006922581

CAUTION:

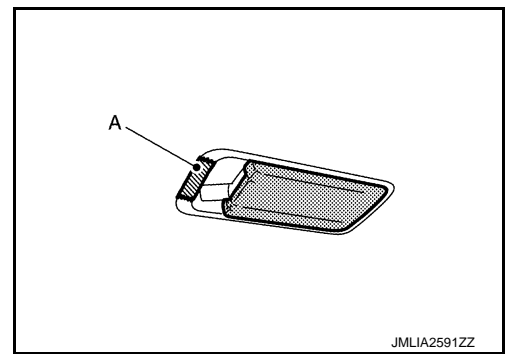
- Disconnect the 12V battery negative terminal or remove power circuit fuse while performing the operation to prevent electric leakage. Refer to [INL-4, "Precautions for Removing Battery Terminal"](#).
- Never touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Never touch the glass surface of the bulb with bare hands because the surface is very hot just after the lamp is turned OFF to prevent a burns.
- Leaving the bulb removed from housing for a long period of time can deteriorate performance of the lens and reflector (causing dirty or clouding). Always prepare a new bulb and have it on hand when replacing the bulb.

ROOM LAMP BULB


ROOM LAMP

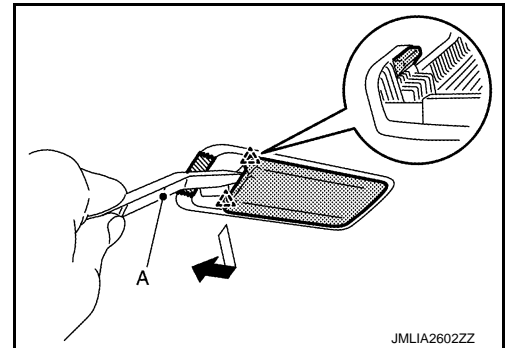
< REMOVAL AND INSTALLATION >

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



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

 : Pawl



3. Remove bulb.

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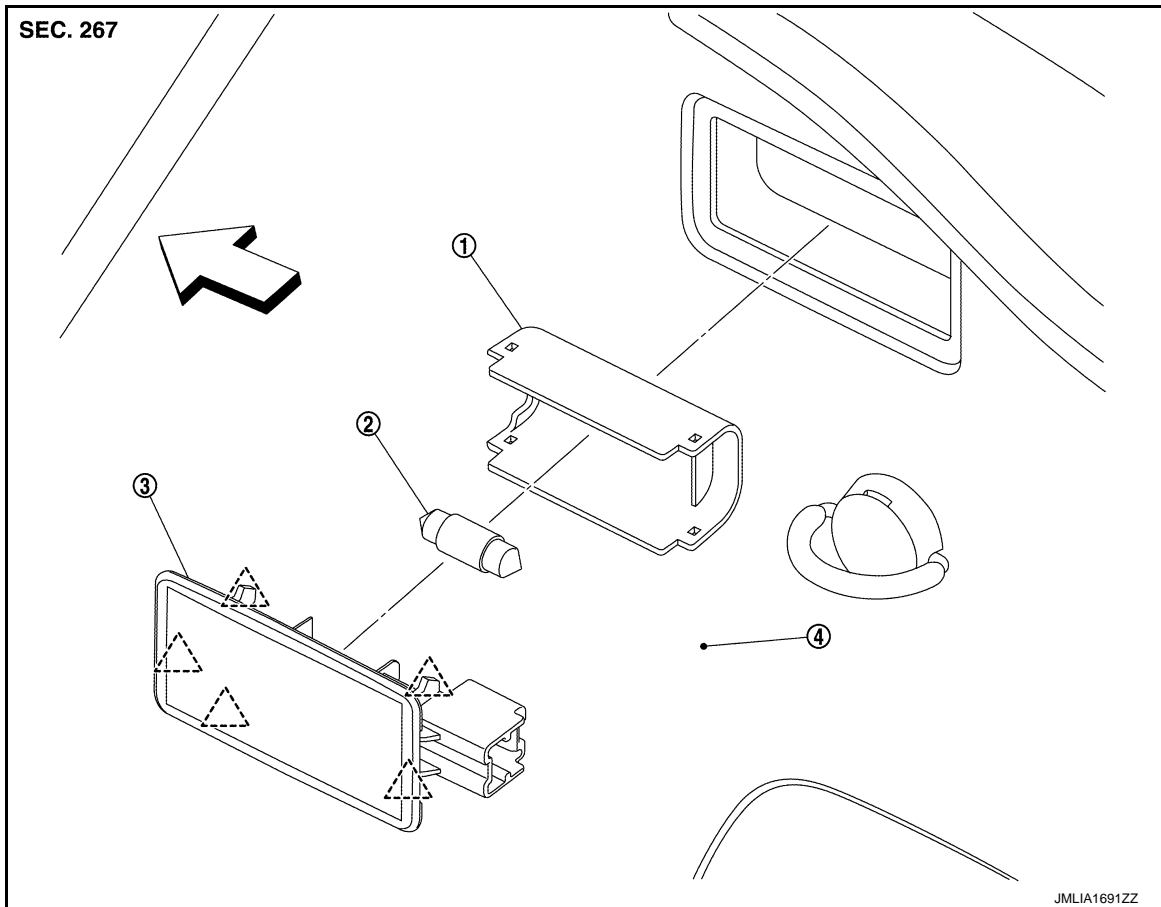
LUGGAGE ROOM LAMP

< REMOVAL AND INSTALLATION >

LUGGAGE ROOM LAMP

Exploded View

INFOID:000000006922582



- 1. Shade
- 2. Bulb
- 3. Luggage room lamp assembly

- 4. Luggage side lower finisher

△ : Pawl

← : Vehicle front

Removal and Installation

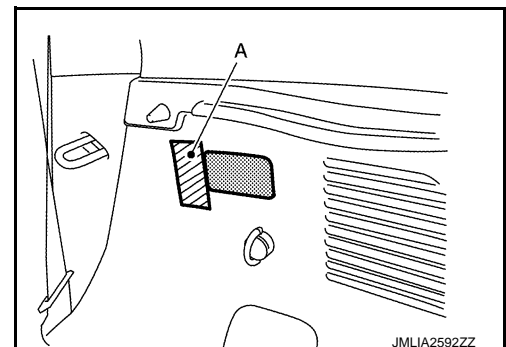
INFOID:000000006922583

CAUTION:

Disconnect the 12V battery negative terminal or remove power circuit fuse while performing the operation to prevent electric leakage. Refer to [INL-4, "Precautions for Removing Battery Terminal"](#).

REMOVAL


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

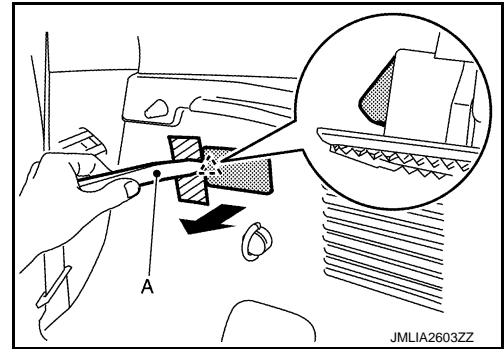


LUGGAGE ROOM LAMP

< REMOVAL AND INSTALLATION >

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

 : Pawl



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

INSTALLATION

Install in the reverse order of removal.

Replacement


INFOID:000000006922584

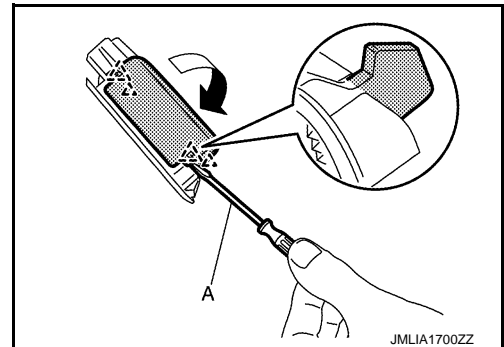
CAUTION:

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

LUGGAGE ROOM LAMP BULB

1. Remove luggage room lamp assembly. Refer to [INL-62, "Removal and Installation"](#).
2. Disengage shade fixing pawls using a remover tool (A), and then remove shade.

 : Pawl



3. Remove the bulb.

SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Bulb Specifications

INFOID:000000006922585

Item	Type	Wattage (W)
Map lamp	Wedge	8
Glove box lamp	—	1.4
Room lamp	—	8
Luggege room lamp	—	8