

SECTION INL

INTERIOR LIGHTING SYSTEM

CONTENTS

PRECAUTION	3	INT LAMP	16
PRECAUTIONS	3	INT LAMP : CONSULT Function (BCM - INT LAMP)	16
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"	3	BATTERY SAVER	18
SYSTEM DESCRIPTION	4	BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)	18
COMPONENT PARTS	4	INTELLIGENT KEY	19
INTERIOR LIGHTING SYSTEM	4	INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)	19
INTERIOR LIGHTING SYSTEM : Interior Lamp Appearance and Bulb Specifications	4	ECU DIAGNOSIS INFORMATION	24
INTERIOR LIGHTING SYSTEM : Component Parts Location	5	BCM	24
SYSTEM	7	List of ECU Reference	24
INTERIOR ROOM LAMP CONTROL SYSTEM	7	WIRING DIAGRAM	25
INTERIOR ROOM LAMP CONTROL SYSTEM : System Description	7	INTERIOR ROOM LAMP CONTROL SYSTEM	25
INTERIOR ROOM LAMP CONTROL SYSTEM : Circuit Diagram	10	Wiring Diagram	25
INTERIOR ROOM LAMP BATTERY SAVER SYSTEM	10	ILLUMINATION	38
INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Description	11	Wiring Diagram	38
INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : Circuit Diagram	12	BASIC INSPECTION	47
ILLUMINATION CONTROL SYSTEM	12	DIAGNOSIS AND REPAIR WORK FLOW	47
ILLUMINATION CONTROL SYSTEM : System Description	13	Work Flow	47
ILLUMINATION CONTROL SYSTEM : Circuit Diagram	14	DTC/CIRCUIT DIAGNOSIS	50
DIAGNOSIS SYSTEM (BCM)	15	INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT	50
COMMON ITEM	15	Component Function Check	50
COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)	15	Diagnosis Procedure	50
		INTERIOR ROOM LAMP CONTROL CIRCUIT	52
		Component Function Check	52
		Diagnosis Procedure	52

TRUNK ROOM LAMP CIRCUIT	54	VANITY MIRROR LAMP	68
Component Function Check	54	Exploded View	68
Diagnosis Procedure	54	Replacement	68
STEP LAMP CIRCUIT	56	GLOVE BOX LAMP	70
Component Function Check	56	Exploded View	70
Diagnosis Procedure	56	Replacement	70
OUTSIDE HANDLE LAMP CIRCUIT	58	STEP LAMP	71
Component Function Check	58	Exploded View	71
Diagnosis Procedure	58	Removal and Installation	71
PUSH-BUTTON IGNITION SWITCH ILLUMI-		Replacement	72
NATION CIRCUIT	60	PERSONAL LAMP	73
Component Function Check	60	Exploded View	73
Diagnosis Procedure	60	Removal and Installation	73
SYMPTOM DIAGNOSIS	62	Replacement	74
INTERIOR LIGHTING SYSTEM SYMPTOMS...	62	TRUNK ROOM LAMP	76
Symptom Table	62	Exploded View	76
REMOVAL AND INSTALLATION	63	Removal and Installation	76
MAP LAMP	63	Replacement	77
Exploded View	63	OUTSIDE HANDLE LAMP	78
MAP LAMP	63	Exploded View	78
MAP LAMP : Removal and Installation	63	Replacement	78
MAP LAMP : Replacement	64	SERVICE DATA AND SPECIFICATIONS	
MAP LAMP BRACKET	64	(SDS)	79
MAP LAMP BRACKET : Removal and Installation..	64	SERVICE DATA AND SPECIFICATIONS	
		(SDS)	79
		bulb specifications	79

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

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

WARNING:

Always observe the following items for preventing accidental activation.

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

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

WARNING:

Always observe the following items for preventing accidental activation.

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

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COMPONENT PARTS

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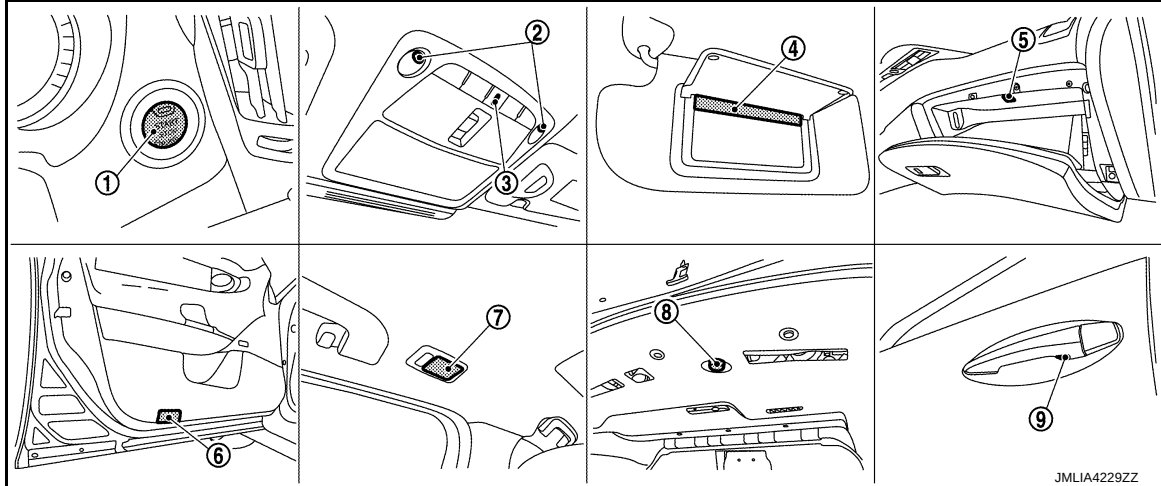
SYSTEM DESCRIPTION

COMPONENT PARTS

INTERIOR LIGHTING SYSTEM

INTERIOR LIGHTING SYSTEM : Interior Lamp Appearance and Bulb Specifications

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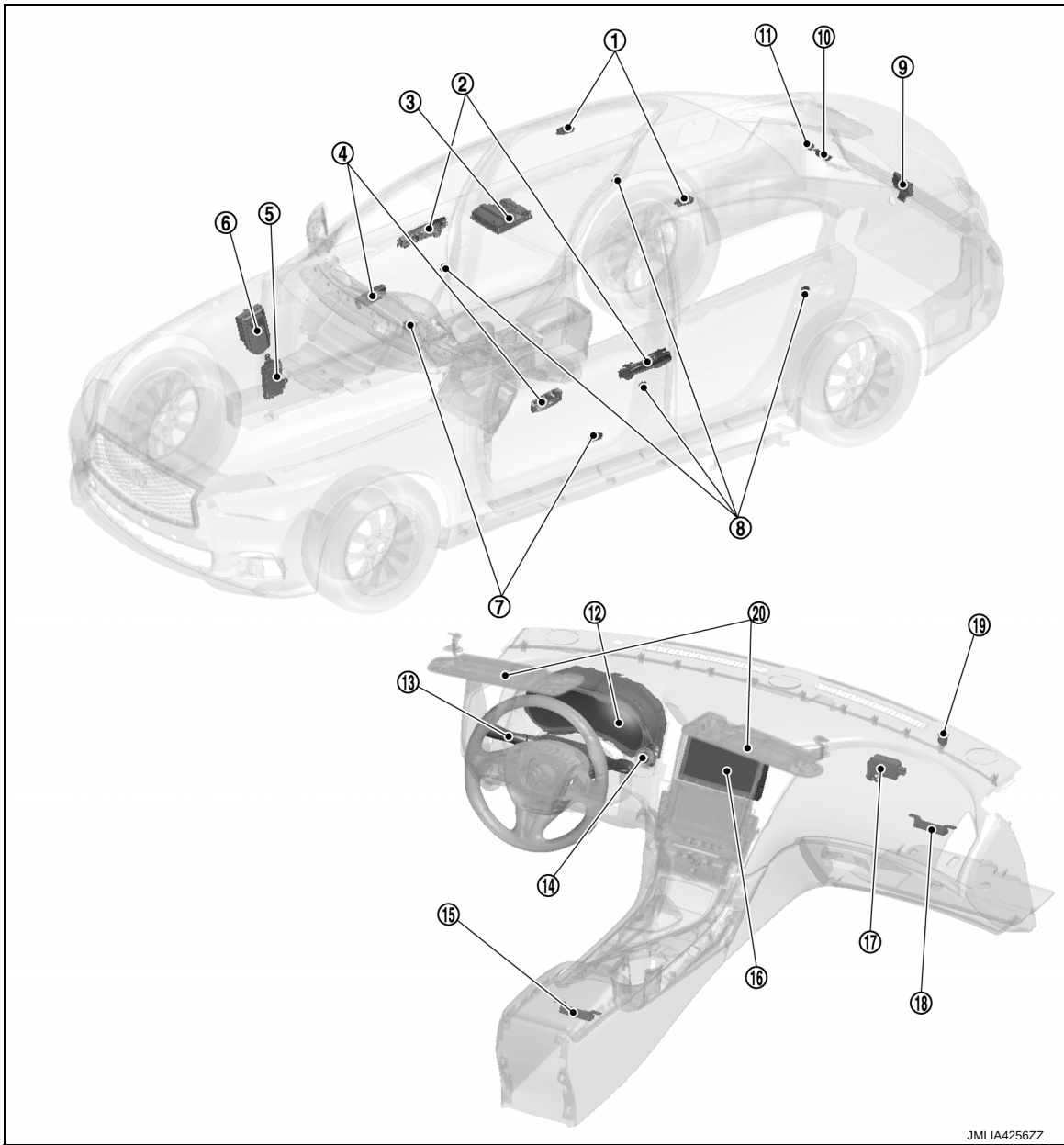
No.	Item	Type	Wattage (W)
①	Push-button ignition switch illumination	LED	—
②	Map lamp	LED	—
③	Console lamp (Integrated into map lamp assembly)	LED	—
④	Vanity mirror lamp	—	1.8
⑤	Glove box lamp	—	2.0
⑥	Step lamp	Wedge	5.0
⑦	Personal lamp	Wedge	8.0
⑧	Trunk room lamp	Wedge	3.4
⑨	Outside handle lamp	LED	—

COMPONENT PARTS

< SYSTEM DESCRIPTION >

INTERIOR LIGHTING SYSTEM : Component Parts Location

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No.	Component		Function
①	Personal lamp		Refer to INL-4, "INTERIOR LIGHTING SYSTEM : Interior Lamp Appearance and Bulb Specifications" .
②	Front outside handle	Request switch	Refer to DLK-11, "DOOR LOCK SYSTEM : Door Request Switch" .
		One touch unlock sensor	Refer to DLK-13, "DOOR LOCK SYSTEM : One Touch Unlock Sensor Assembly" .
		Outside handle lamp	Refer to INL-4, "INTERIOR LIGHTING SYSTEM : Interior Lamp Appearance and Bulb Specifications" .
③	Map lamp		Refer to INL-4, "INTERIOR LIGHTING SYSTEM : Interior Lamp Appearance and Bulb Specifications" .
④	Door lock and unlock switch		Refer to DLK-11, "DOOR LOCK SYSTEM : Door Lock and Unlock Switch" .

COMPONENT PARTS

< SYSTEM DESCRIPTION >

No.	Component	Function
⑤	BCM	- Activates the interior room lamp timer depending on the vehicle condition to turn the interior room lamps ON/OFF. - Operates the interior room lamp battery saver depending on the vehicle condition to turn interior room lamps OFF. - Detects each switch condition by the combination switch reading function. - Judges the illumination lamp ON/OFF status depending on the vehicle condition. And then transmits request signal to IPDM E/R and combination meter (via CAN communication). Refer to BCS-4, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location.
⑥	IPDM E/R	Controls the integrated relay according to the request signal from BCM (via CAN communication). Refer to PCS-4, "Component Parts Location" for detailed installation location.
⑦	Step lamp	Refer to INL-4, "INTERIOR LIGHTING SYSTEM : Interior Lamp Appearance and Bulb Specifications" .
⑧	Door switch	Refer to DLK-11, "DOOR LOCK SYSTEM : Door Switch" .
⑨	Trunk lid lock assembly (Trunk room lamp switch)	Refer to DLK-14, "DOOR LOCK SYSTEM : Trunk Lid Lock Assembly" .
⑩	Inside key antenna (Trunk room)	Refer to DLK-12, "DOOR LOCK SYSTEM : Inside Key Antenna" .
⑪	Trunk room lamp	Refer to INL-4, "INTERIOR LIGHTING SYSTEM : Interior Lamp Appearance and Bulb Specifications" .
⑫	Combination meter	Controls the meter illumination according to the request signal from BCM (via CAN communication).
⑬	Combination switch (Lighting & turn signal switch)	Refer to BCS-8, "COMBINATION SWITCH READING SYSTEM : System Description" .
⑭	Push-button ignition switch (Push-button ignition switch illumination)	Refer to INL-4, "INTERIOR LIGHTING SYSTEM : Interior Lamp Appearance and Bulb Specifications" .
⑮	Inside key antenna (Console)	Refer to DLK-12, "DOOR LOCK SYSTEM : Inside Key Antenna" .
⑯	Display control unit	Controls the brightness of display according to the request signal from BCM.
⑰	Remote keyless entry receiver	Refer to DLK-13, "DOOR LOCK SYSTEM : Remote Keyless Entry Receiver" .
⑱	Inside key antenna (Instrument lower)	Refer to DLK-12, "DOOR LOCK SYSTEM : Inside Key Antenna" .
⑲	Optical sensor	Refer to EXL-15, "Optical Sensor" .
⑳	Vanity mirror lamp	Refer to INL-4, "INTERIOR LIGHTING SYSTEM : Interior Lamp Appearance and Bulb Specifications" .

SYSTEM

< SYSTEM DESCRIPTION >

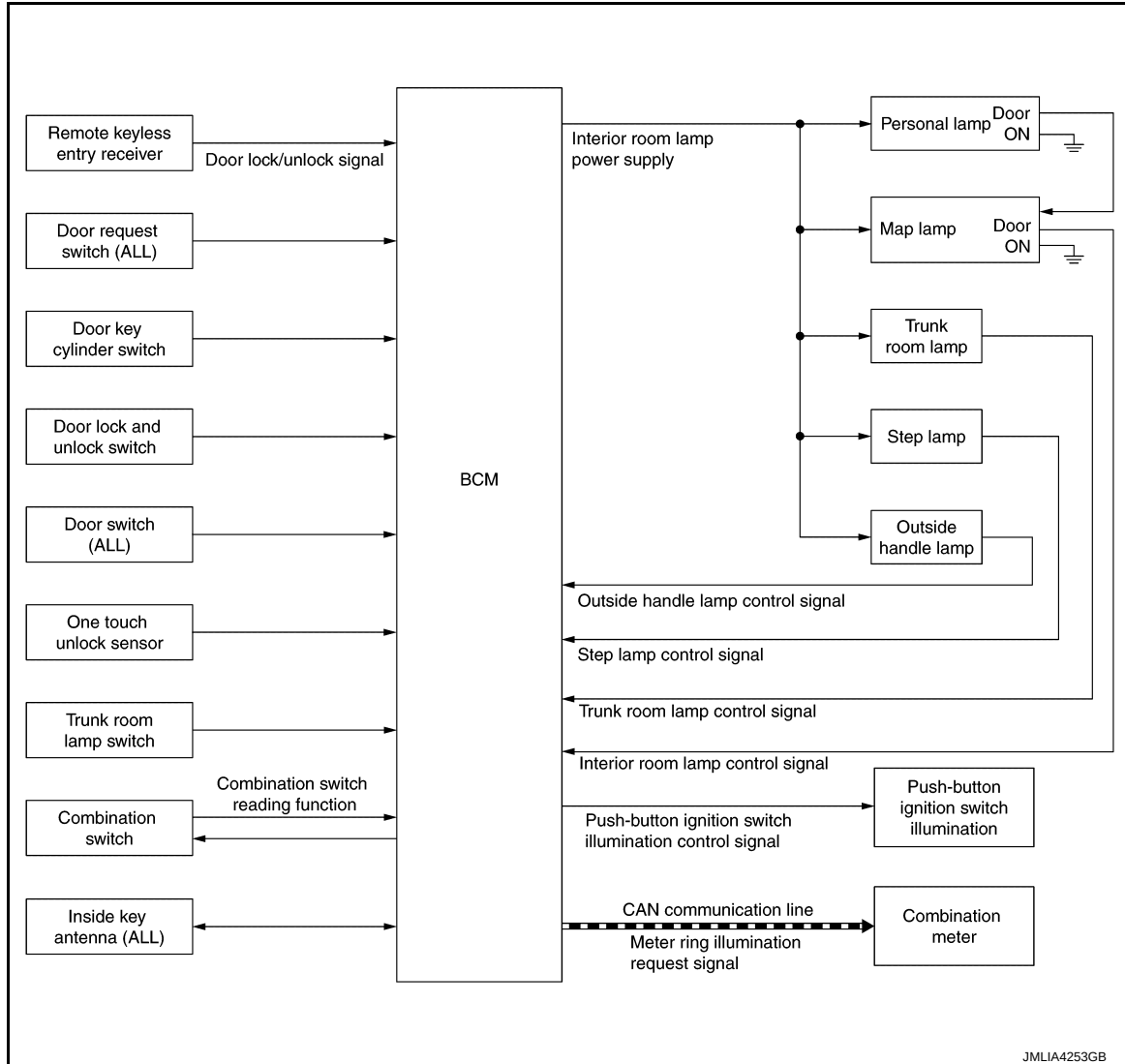
SYSTEM

INTERIOR ROOM LAMP CONTROL SYSTEM

INTERIOR ROOM LAMP CONTROL SYSTEM : System Description

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SYSTEM DIAGRAM



OUTLINE

- Following lamps are controlled by interior room lamp timer control function of BCM.
 - Map lamp*
 - Personal lamp*
 - Outside handle lamp
- Trunk room lamp is controlled by trunk room lamp control function of BCM.
- Step lamp is controlled by step lamp control function of BCM.
- Push-button ignition switch illumination is controlled by push-button ignition switch illumination control function of BCM.
- Illumination ring of meter is controlled by meter ring illumination control function of BCM and meter effect function of combination meter.

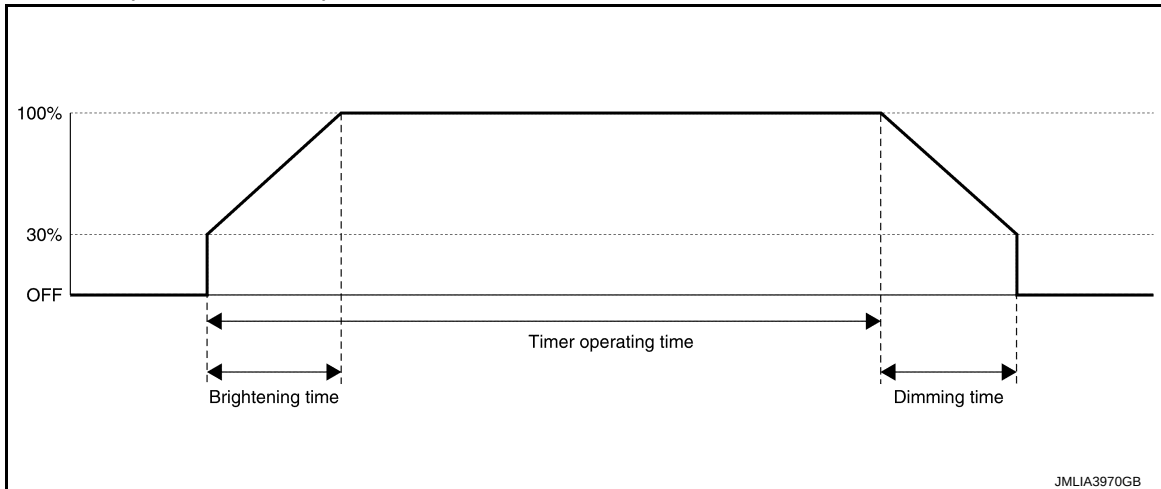
*: Interior room lamp time control operates when the switch position is DOOR.

INTERIOR ROOM LAMP TIMER CONTROL

SYSTEM

< SYSTEM DESCRIPTION >

Interior Room Lamp Timer Basic Operation



- Following lamps turn ON and OFF (gradual brightening and dimming*) by the interior room lamp timer.
 - Map lamp
 - Personal lamp
 - Outside handle lamp
 - Timer operating time is 15 seconds.
 - Brightening time is 1 second and dimming time is 3 seconds.*
 - BCM judges the vehicle condition with the following items and activates the interior room lamp timer.
 - Ignition switch status
 - Door switch signal
 - Door lock/unlock signal (remote keyless entry receiver, door lock and unlock switch, each door request switch, one touch unlock sensor, door key cylinder switch)
- *: Except for outside handle lamp.

NOTE:

Factory setting of interior room lamp is with interior room lamp timer control. This setting can be set to without by using CONSULT. Refer to [INL-16, "INT LAMP : CONSULT Function \(BCM - INT LAMP\)"](#).

Interior Room Lamp ON Operation

- BCM always turns the interior room lamp ON when any door opens.
- BCM activates the interior room lamp timer in any of the following condition to turn the interior room lamp ON for a period of time.
 - Status of all doors are OPEN → CLOSE
 - Ignition switch is turned ON → OFF
 - Door unlock signal is detected when all doors close with ignition switch OFF

NOTE:

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

Interior Room Lamp OFF Operation

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

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

STEP LAMP CONTROL

BCM turns step lamp ON when the following condition is detected.

- Any door is opened

BCM turns step lamp OFF when the following condition is detected.

- All doors are closed

TRUNK ROOM LAMP CONTROL

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

- Trunk room lamp switch is ON

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

- Trunk room lamp switch is OFF

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CONTROL

Push-button Ignition Switch Illumination Basic Operation

SYSTEM

< SYSTEM DESCRIPTION >

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

Heart Beat Operation

BCM repeats brightening and dimming operation of push-button ignition switch illumination when the following condition is satisfied.

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

Push-button Ignition Switch Illumination ON Operation

BCM turns the push-button ignition switch illumination ON in any of the following condition.

- Ignition switch ON
- Tail lamp is turned ON with ignition OFF/ACC

Dimming Operation

When ignition switch is changed from ON to OFF while tail lamp is OFF, ignition switch illumination dims to 50% brightness.

Push-button Ignition Switch Illumination OFF Operation

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

- Tail lamp is turned OFF with ignition OFF/ACC
- Any of the following condition is satisfied during heart beat operation or dimming operation.
 - Status does not change for 16 seconds
 - Driver side door is UNLOCK → LOCK

METER RING ILLUMINATION CONTROL

Illumination ring of meter is controlled by each function of BCM and combination meter.

Control by BCM

- Meter ring illumination control function

Control by combination meter

- Meter effect function (Refer to [MWI-54. "METER EFFECT FUNCTION : System Description".](#))

Meter Ring Illumination Control Function

BCM transmits meter ring illumination request signal to combination meter via CAN communication when all of the following conditions are satisfied.

- Ignition switch is in LOCK position
- Driver side door is OPEN → CLOSE with intelligent key left inside the vehicle

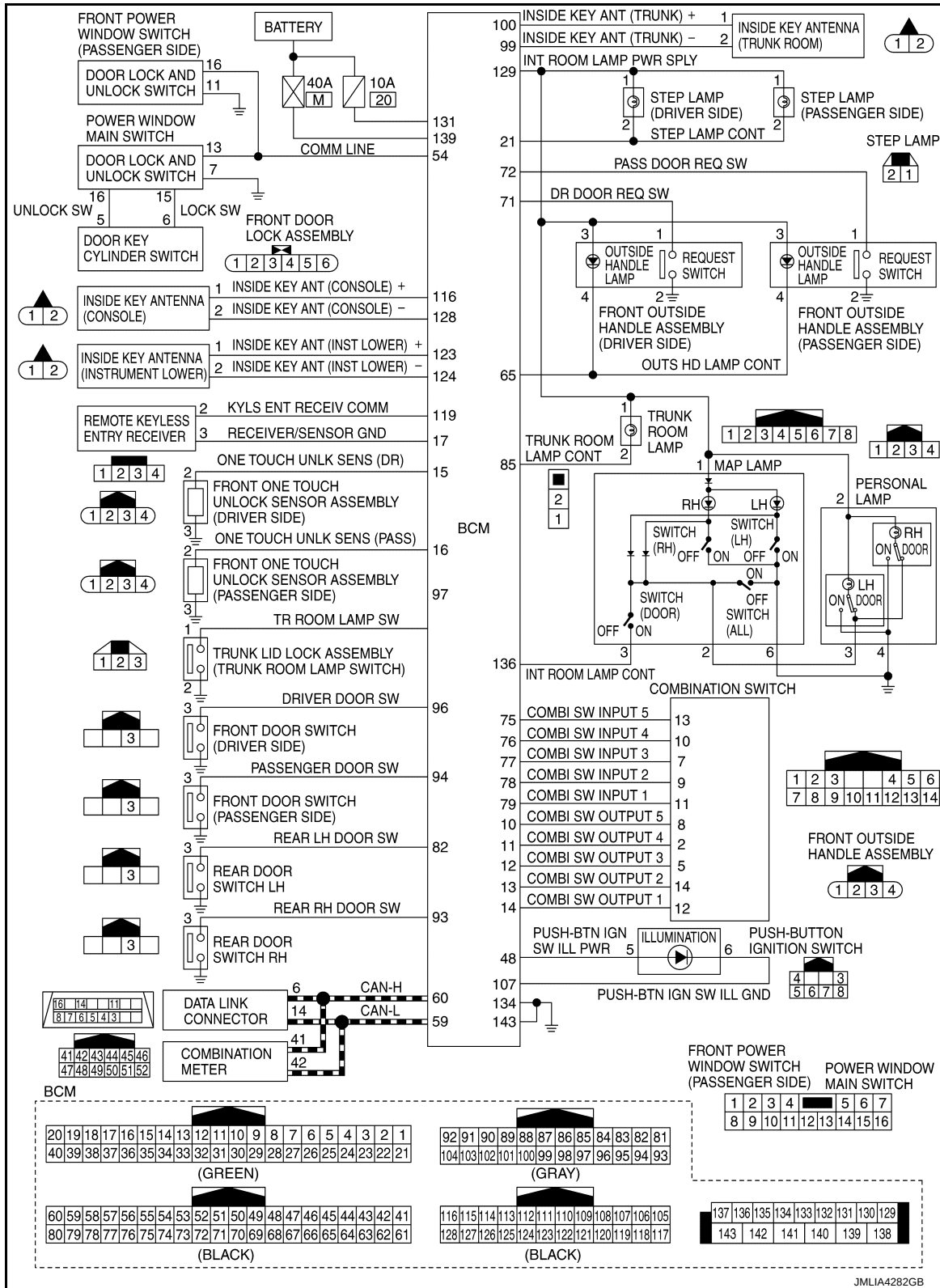
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INTERIOR ROOM LAMP CONTROL SYSTEM : Circuit Diagram

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INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

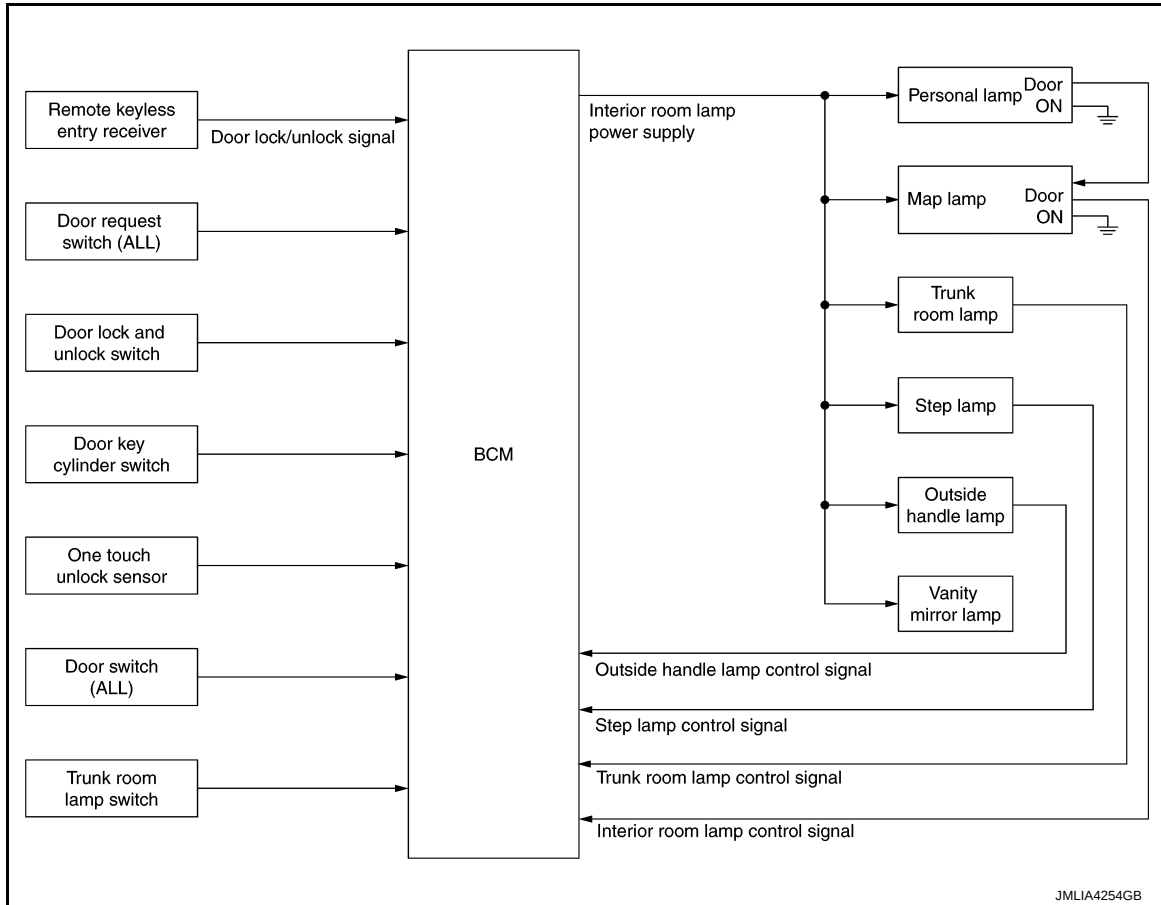
SYSTEM

< SYSTEM DESCRIPTION >

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Description

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SYSTEM DIAGRAM



OUTLINE

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

Applicable lamps

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

INTERIOR ROOM LAMP BATTERY SAVER FUNCTION

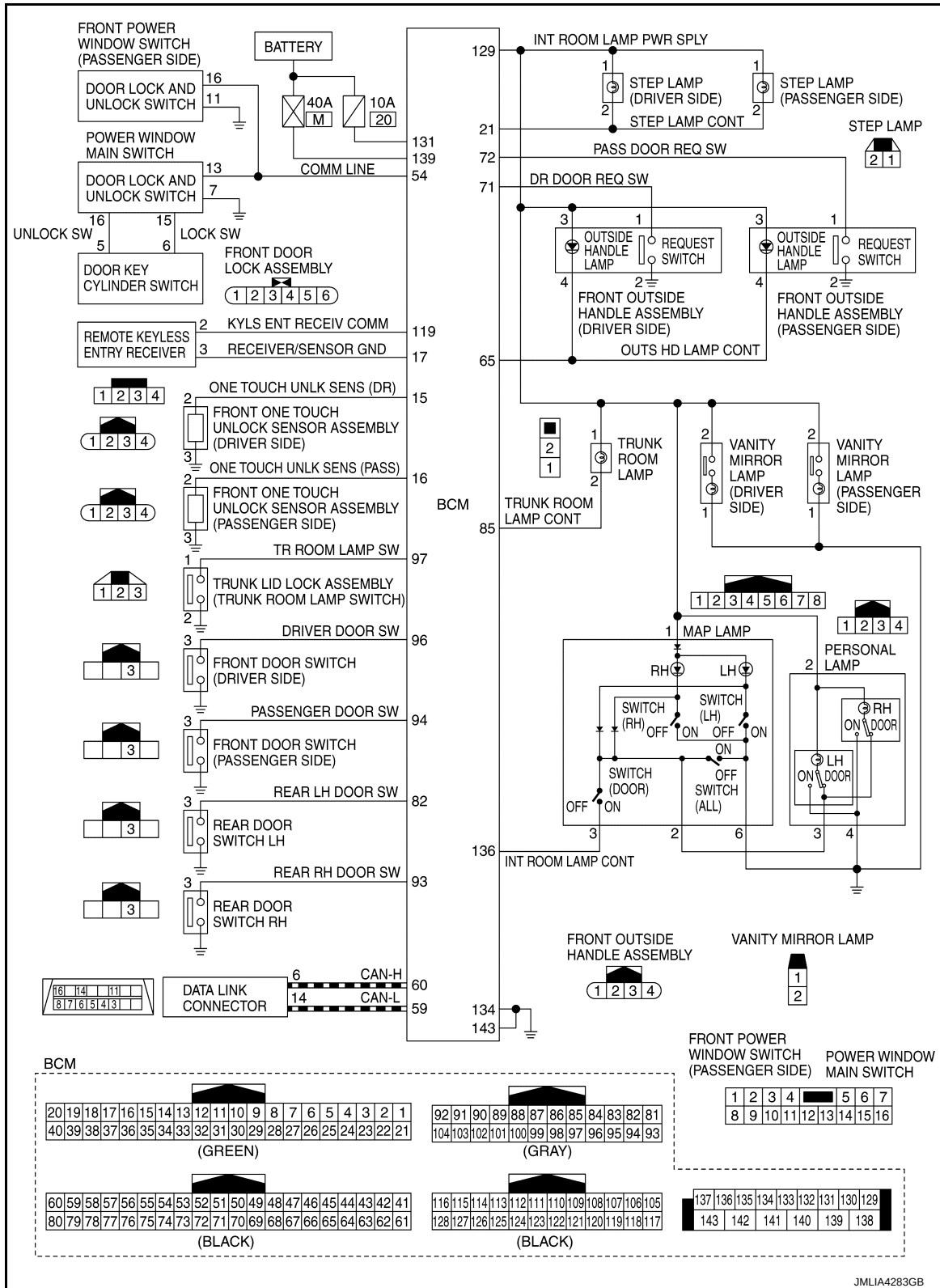
- BCM provides the interior room lamp power supply continuously when the ignition switch position is ON.
- When the ignition switch is turned OFF, BCM operates timer for 10 minutes to cut the interior room lamp power supply.
- BCM restart the timer when any of the following signal changes while operating the timer.
 - Ignition switch status
 - Door switch signal
 - Door lock/unlock signal (remote keyless entry receiver, door lock and unlock switch, each door request switch, one touch unlock sensor, door key cylinder switch)

SYSTEM

< SYSTEM DESCRIPTION >

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : Circuit Diagram

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ILLUMINATION CONTROL SYSTEM

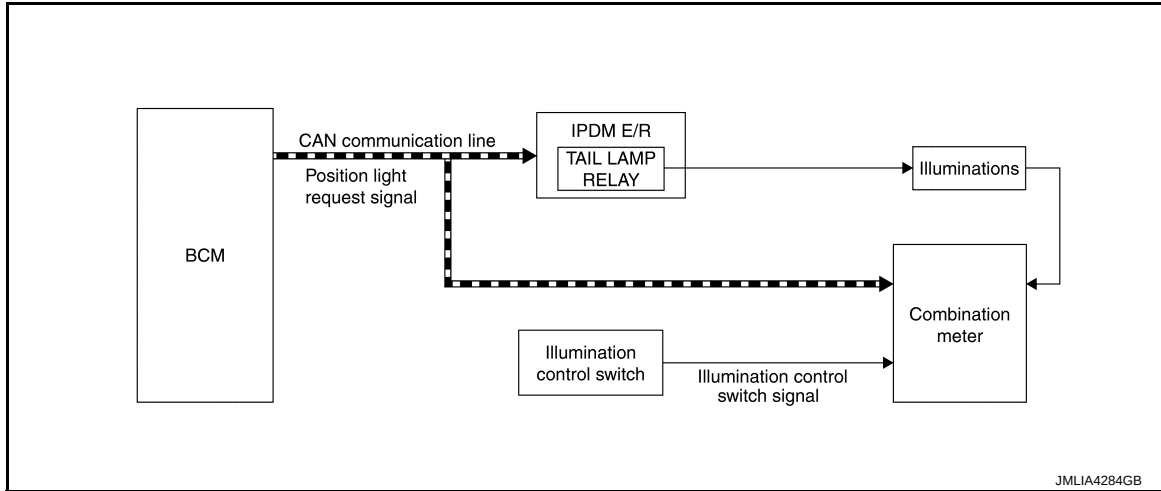
SYSTEM

< SYSTEM DESCRIPTION >

ILLUMINATION CONTROL SYSTEM : System Description

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SYSTEM DIAGRAM



OUTLINE

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

Control by BCM

- Parking, license plate and tail lamp control function

Control by IPDM E/R

- Relay control function

Control by combination meter

- Meter illumination control function (Refer to [MWI-53, "METER ILLUMINATION CONTROL : System Description"](#).)

ILLUMINATION CONTROL

- BCM transmits position light request signal to IPDM E/R and combination meter according to tail lamp ON condition. Refer to [EXL-31, "PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM : System Description"](#).
- 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 controls each illumination brightness according to the illumination control switch signal from illumination control switch.
- Combination meter enters in the nighttime mode according to position light request signal.

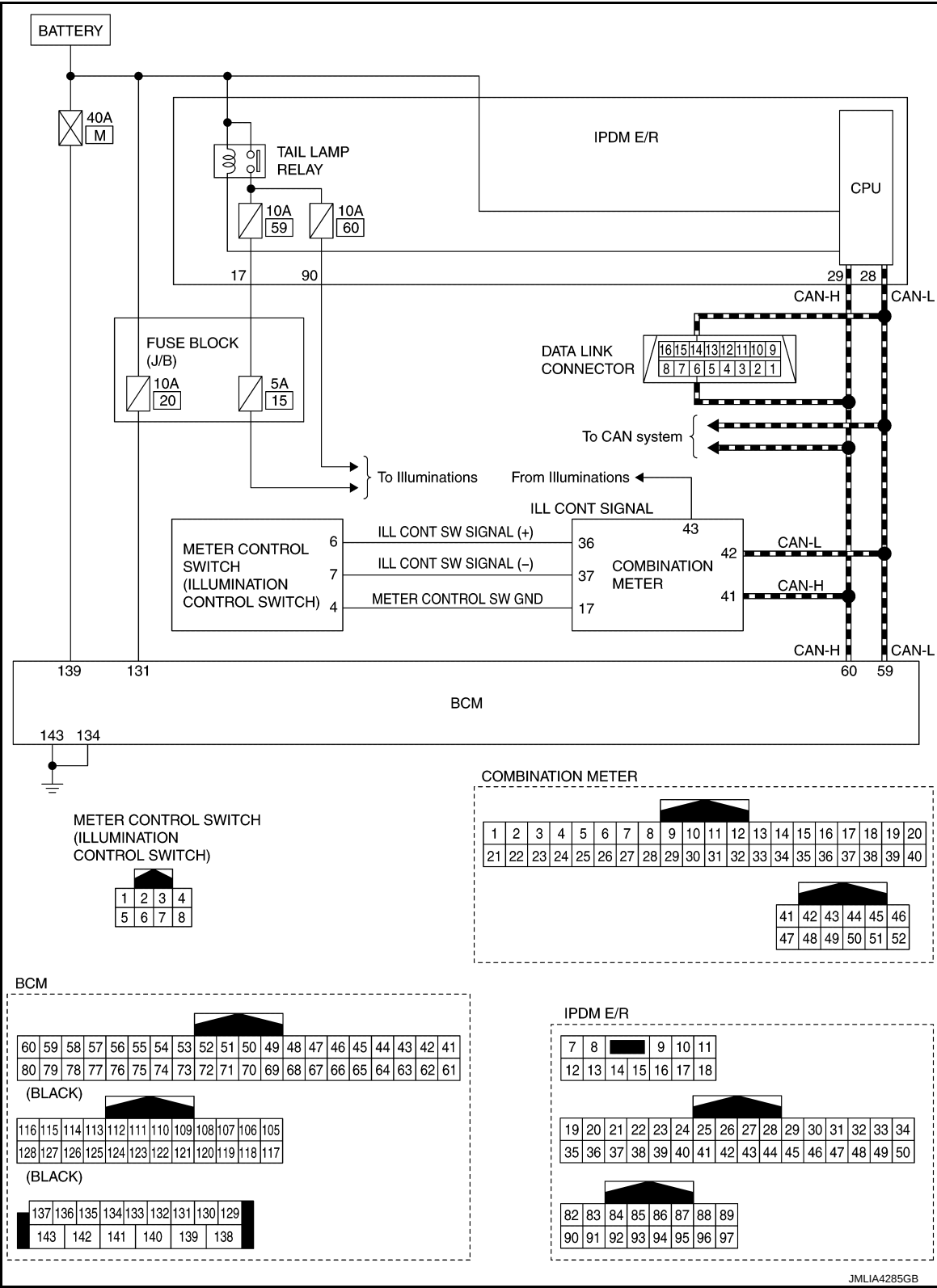
INL

SYSTEM

< SYSTEM DESCRIPTION >

ILLUMINATION CONTROL SYSTEM : Circuit Diagram

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DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

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APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

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

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

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

*: This item is not used.

FREEZE FRAME DATA (FFD)

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

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

CONSULT screen item	Indication/Unit	Description	
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected	
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected	
Vehicle Condition	SLEEP>LOCK	Power position status of the moment a particular DTC is detected*	While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK"*)
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)
	LOCK>ACC		While turning power supply position from "LOCK" *to "ACC"
	ACC>ON		While turning power supply position from "ACC" to "IGN"
	RUN>ACC		While turning power supply position from "RUN" to "ACC" (Vehicle is stopping and selector lever is except P position.)
	CRANK>RUN		While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)
	RUN>URGENT		While turning power supply position from "RUN" to "ACC" (Emergency stop operation)
	ACC>OFF		While turning power supply position from "ACC" to "OFF"
	OFF>LOCK		While turning power supply position from "OFF" to "LOCK"*
	OFF>ACC		While turning power supply position from "OFF" to "ACC"
	ON>CRANK		While turning power supply position from "IGN" to "CRANKING"
	OFF>SLEEP		While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply position is "LOCK"*.) to low power consumption mode
	LOCK		Power supply position is "LOCK" (Ignition switch OFF)*
	OFF		Power supply position is "OFF" (Ignition switch OFF)
	ACC		Power supply position is "ACC" (Ignition switch ACC)
	ON		Power supply position is "IGN" (Ignition switch ON with engine stopped)
	ENGINE RUN		Power supply position is "RUN" (Ignition switch ON with engine running)
	CRANKING		Power supply position is "CRANKING" (At engine cranking)
IGN Counter	0 - 39	The number of times that ignition switch is turned ON after DTC is detected • The number is 0 when a malfunction is detected now. • The number increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. • The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.	

NOTE:

*: Power supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position, and any of the following conditions are met.

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

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

INT LAMP

INT LAMP : CONSULT Function (BCM - INT LAMP)

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WORK SUPPORT

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Service item	Setting item	Setting
SCENARIO LIGHTING SETTING	On	NOTE: Do not use this function since interior room lamp control is changed.
	Off*	
SET I/L D-UNLCK INTCON	On	Without interior room lamp timer function
	Off*	With interior room lamp timer function
FOG LAMP OVERRIDE	On	With front fog override function
	Off*	Without front fog override function

*: Factory setting

DATA MONITOR

NOTE:

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

Monitor item [Unit]	Description
REQ SW -DR [On/Off]	Indicated [On/Off] condition of door request switch (driver side)
REQ SW -AS [On/Off]	Indicated [On/Off] condition of door request switch (passenger side)
REQ SW -RR [On/Off]	NOTE: This item is displayed, but cannot be monitored
REQ SW -RL [On/Off]	NOTE: This item is displayed, but cannot be monitored
PUSH SW [On/Off]	Indicates [On/Off] condition of push-button ignition switch
UNLK SEN -DR [On/Off]	Indicates [On/Off] condition of driver door UNLOCK status
DOOR SW-DR [On/Off]	Indicated [On/Off] condition of front door switch (driver side)
DOOR SW-AS [On/Off]	Indicated [On/Off] condition of front door switch (passenger side)
DOOR SW-RR [On/Off]	Indicated [On/Off] condition of rear door switch RH
DOOR SW-RL [On/Off]	Indicated [On/Off] condition of rear door switch LH
DOOR SW-BK [On/Off]	NOTE: This item is displayed, but cannot be monitored
CDL LOCK SW [On/Off]	Indicated [On/Off] condition of lock signal from door lock and unlock switch
CDL UNLOCK SW [On/Off]	Indicated [On/Off] condition of unlock signal from door lock and unlock switch
KEY CYL LK-SW [On/Off]	Indicated [On/Off] condition of lock signal from door key cylinder switch
KEY CYL UN-SW [On/Off]	Indicated [On/Off] condition of unlock signal from door key cylinder switch
TRNK/HAT MNTR [On/Off]	Indicates [On/Off] condition of trunk room lamp switch
RKE-LOCK [On/Off]	Indicates [On/Off] condition of LOCK signal from Intelligent Key
RKE-UNLOCK [On/Off]	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key

ACTIVE TEST

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

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DATA MONITOR

NOTE:

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

Monitor item [Unit]	Description
REQ SW -DR [On/Off]	Indicated [On/Off] condition of door request switch (driver side)
REQ SW -AS [On/Off]	Indicated [On/Off] condition of door request switch (passenger side)
REQ SW -RR [On/Off]	NOTE: This item is displayed, but cannot be monitored
REQ SW -RL [On/Off]	NOTE: This item is displayed, but cannot be monitored
PUSH SW [On/Off]	Indicates [On/Off] condition of push-button ignition switch
UNLK SEN -DR [On/Off]	Indicates [On/Off] condition of driver door UNLOCK status
DOOR SW-DR [On/Off]	Indicated [On/Off] condition of front door switch (driver side)
DOOR SW-AS [On/Off]	Indicated [On/Off] condition of front door switch (passenger side)
DOOR SW-RR [On/Off]	Indicated [On/Off] condition of rear door switch RH
DOOR SW-RL [On/Off]	Indicated [On/Off] condition of rear door switch LH
DOOR SW-BK [On/Off]	NOTE: This item is displayed, but cannot be monitored
CDL LOCK SW [On/Off]	Indicated [On/Off] condition of lock signal from door lock and unlock switch
CDL UNLOCK SW [On/Off]	Indicated [On/Off] condition of unlock signal from door lock and unlock switch
KEY CYL LK-SW [On/Off]	Indicated [On/Off] condition of lock signal from door key cylinder switch
KEY CYL UN-SW [On/Off]	Indicated [On/Off] condition of unlock signal from door key cylinder switch
TRNK/HAT MNTR [On/Off]	Indicates [On/Off] condition of trunk room lamp switch
RKE-LOCK [On/Off]	Indicates [On/Off] condition of LOCK signal from Intelligent Key
RKE-UNLOCK [On/Off]	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

ACTIVE TEST

Test item	Operation	Description
BATTERY SAVER	Off	Outputs interior room lamp power supply.
	On	Stops interior room lamp power supply.

INTELLIGENT KEY

INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)

INFOID:000000009799541

WORK SUPPORT

Monitor item	Description
INSIDE ANT DIAGNOSIS	This function allows inside key antenna self-diagnosis
LOCK/UNLOCK BY I-KEY	Door lock function (door request switch) mode can be changed to operation in this mode - On: Operate - Off: Non-operation
ENGINE START BY I-KEY	Engine start function mode can be changed to operation with this mode - On: Operate - Off: Non-operation
TRUNK/GLASS HATCH OPEN	Reminder function (trunk lid opener request switch) mode can be changed to operation with this mode - On: Operate - Off: Non-operation
AUTO LOCK SET	Auto door lock operation time can be changed in this mode - MODE 1: OFF - MODE 2: 30 sec. - MODE 3: 1 minute - MODE 4: 2 minutes - MODE 5: 3 minutes - MODE 6: 4 minutes - MODE 7: 5 minutes
SHORT CRANKING OUTPUT	Starter motor can operate during the times below 70 msec 100 msec 200 msec
CONFIRM KEY FOB ID	It can be checked whether Intelligent Key ID code is registered or not in this mode
RETRACTABLE MIRROR SET	NOTE: This item is displayed, but cannot be used
TOUCH SENSOR UNLOCK FUNCTION SETTING	One touch unlock function can be changed to operation with this mode - On: Operate - Off: Non-operation
IGN/ACC BATTERY SAVER	Ignition battery saver system mode can be changed to operation with this mode - On: Operate - Off: Non-operation
REMOTE ENGINE START	NOTE: This item is displayed, but cannot be used
INTELLIGENT KEY LINK SET	NOTE: This item is displayed, but cannot be used
ANSWER BACK	Reminder function (door request switch and Intelligent Key) mode can be selected from the following with this mode - On: S mode (buzzer or horn reminder non-operation) - Off: C mode (buzzer or horn operate)

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Monitor item	Description
ANSWER BACK I-KEY LOCK UN-LOCK	Reminder function (door request switch) mode can be selected from the following with this mode • BUZZER: Sound Intelligent Key warning buzzer • HORN: Sound horn • Off: Only hazard warning lamp operate • INVALID: This item is displayed, but cannot be used
ANSWERBACK KEYLESS LOCK UNLOCK	Reminder function (Intelligent Key) mode can be selected from the following with this mode • On: Horn and hazard warning lamp operate • Off: Only hazard warning lamp operate
WELCOME LIGHT OP SET	NOTE: This item is displayed, but cannot be used

SELF-DIAG RESULT

Refer to [BCS-62. "DTC Index"](#).

DATA MONITOR

NOTE:

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

Monitor Item	Condition
REQ SW -DR	Indicates [On/Off] condition of front door request switch (driver side)
REQ SW -AS	Indicates [On/Off] condition of front door request switch (passenger side)
REQ SW -BD/TR	Indicates [On/Off] condition of trunk lid opener request switch
PUSH SW	Indicates [On/Off] condition of push-button ignition switch
SHFTLCK SLNID PWR SPLY	Indicates [On/Off] condition of the power supply from BCM to shift lock solenoid
CLUCH SW	NOTE: This item is displayed, but cannot be monitored
BRAKE SW 1	Indicates [On/Off]* condition of stop lamp switch power supply
BRAKE SW 2	Indicates [On/Off] condition of stop lamp switch
DETE/CANCL SW	Indicates [On/Off] condition of P position
SFT PN/N SW	Indicates [On/Off] condition of P or N position
UNLK SEN -DR	Indicates [On/Off] condition of driver door UNLOCK status
PUSH SW -IPDM	Indicates [On/Off] condition of push-button ignition switch
IGN RLY1 -F/B	Indicates [On/Off] condition of ignition relay 1
DETE SW -IPDM	Indicates [On/Off] condition of P position
SFT PN -IPDM	Indicates [On/Off] condition of P or N position
SFT P -MET	Indicates [On/Off] condition of P position
SFT N -MET	Indicates [On/Off] condition of N position
ENGINE STATE	Indicates [STOP/STALL/CRANK/RUN] condition of engine states
VEH SPEED 1	Display the vehicle speed signal received from combination meter by numerical value [km/h]
VEH SPEED 2	Display the vehicle speed signal received from ABS or VDC or TCM by numerical value [km/h]
DOOR STAT-DR	Indicates [LOCK/READY/UNLK] condition of driver door status
DOOR STAT-AS	Indicates [LOCK/READY/UNLK] condition of passenger door status
DOOR STAT-RR	Indicates [LOCK/READY/UNLK] condition of rear door RH status
DOOR STAT-RL	Indicates [LOCK/READY/UNLK] condition of rear door LH status
BK DOOR STATE	NOTE: This item is displayed, but cannot be monitored
ID OK FLAG	Indicates [Set/Reset] condition of Intelligent Key ID
PRMT ENG STRT	Indicates [Set/Reset] condition of engine start possibility

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Monitor Item	Condition
PRMT RKE STRT	NOTE: This item is displayed, but cannot be monitored
I-KEY OK FLAG	Indicates [KEY On/NOT On] condition of Intelligent Key ID and Intelligent Key is detected inside vehicle
PRBT ENG STRT	Indicates whether or not the engine is in start prohibited status
ID AUTHENT CANCEL TIMER	Indicates whether or not it is in engine start possible status when Intelligent Key verification is unnecessary
ACC BATTERY SAVER	Indicates [On/Off] whether or not ignition battery saver is in operation
CRNK PRBT TMR	Indicates [On/Off] whether or not in cranking prohibited status due to starter motor protection function operation
AUT CRANK TMR	Indicates [On/Off] whether or not in AUTO CRANKING MODE status
CRNK PRBT TME	Indicates the time for changing from cranking prohibited status to cranking possible status
AUT CRANK TMR	Indicates the time that AUTO CRANKING MODE operates
CRANKING TME	Indicates the cranking operation time
SHORT CRANK	NOTE: This item is displayed, but not used
DETE SW PWR	Indicates [On/Off] condition of the power supply from BCM to the A/T shift selector (detention switch)
IGN RLY3-REQ	Indicates [On/Off] condition of blower relay control signal
ACC RLY-REQ	Indicates [On/Off] condition of accessory relay control signal
RKE OPE COUN1	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing
RKE OPE COUN2	NOTE: This item is displayed, but cannot be monitored
TRNK/HAT MNTR	Indicates [On/Off] condition of trunk room lamp switch
RKE-LOCK	Indicates [On/Off] condition of LOCK signal from Intelligent Key
RKE-UNLOCK	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key
RKE-TR/BD	Indicates [On/Off] condition of trunk open signal from Intelligent Key
RKE-PANIC	Indicates [On/Off] condition of panic alarm signal from Intelligent Key
RKE-MODE CHG	NOTE: This item is displayed, but cannot be monitored
RKE PBD	NOTE: This item is displayed, but cannot be monitored

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

ACTIVE TEST

Test item	Description
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation - On: Operates - Off: Non-operation
INSIDE BUZZER	This test is able to check warning chime in combination meter operation - Take Out: Take away warning chime sounds when CONSULT screen is touched - Key: Key warning chime sounds when CONSULT screen is touched - Knob: OFF position warning chime sounds when CONSULT screen is touched - Off: Non-operation
INDICATOR	This test is able to check information display (combination meter) operation - KEY ON: [Intelligent Key system malfunction] displays when CONSULT screen is touched - KEY IND: [Steering lock unit ID registration complete] displays when CONSULT screen is touched - Off: Non-operation

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Test item	Description
INT LAMP	This test is able to check interior room lamp operation - On: Operates - Off: Non-operation
FLASHER	This test is able to check hazard warning lamp operation The hazard warning lamps are activated after "LH/RH/Off" on CONSULT screen is touched
HORN	This test is able to check horn operation On: Operates
IGN CONT2	This test is able to operate the blower relay in fuse block (J/B) - On: Operates - Off: Non-operation
ENGINE SW ILLUMI	This test is able to check push-ignition switch illumination operation Push-ignition switch illumination illuminates when "On" on CONSULT screen is touched
PUSH SWITCH INDICATOR	This test is able to check push-ignition switch indicator operation when "On" on CONSULT screen is touched
ACC CONT	This test is able to operate the accessory relay in fuse block (J/B) - On: Operates - Off: Non-operation
IGN CONT1	This test is able to operate the ignition relay in IPDM E/R - On: Operates - Off: Non-operation
IGNITION RELAY	This test is able to operate the ignition relay in fuse block (J/B) - On: Operates - Off: Non-operation
ST CONT LOW	This test is able to operate the starter relay in IPDM E/R - On: Non-operation - Off: Operates
BATTERY SAVER	This test is able to check interior room lamp battery saver operation - On: Outputs interior room lamp power supply to turn interior room lamps ON. - Off: Cuts interior room lamp power supply to turn interior room lamps OFF.
TRUNK/BACK DOOR	This test is able to check trunk lid open operation. This actuator opens when "Open" on CONSULT screen is touched.
RETRACTABLE MIRROR	NOTE: This item is displayed, but cannot be used
INTELLIGENT KEY LINK(CAN)	NOTE: This item is displayed, but cannot be used
REVERSE LAMP TEST	NOTE: This item is displayed, but cannot be used
DOOR HANDLE LAMP TEST	This test is able to check outside handle lamp operation - On: Operates - Off: Non-operation
DR SEAT LAMP TEST	NOTE: This item is displayed, but cannot be used
AS SEAT LAMP TEST	NOTE: This item is displayed, but cannot be used
SHIFT SPOT LAMP TEST	NOTE: This item is displayed, but cannot be used
TRUNK/LUGGAGE LAMP TEST	This test is able to check trunk room lamp operation - On: Operates - Off: Non-operation
KEYFOB P/W TEST	This test is able to check keyless power window up/down operation - Up: Non-operation - Down*: Power window and sunroof open - Off: Non-operation
SHIFTLOCK SORENOID TEST	NOTE: This item is displayed, but cannot be used

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

*: When ignition switch is OFF, driver door opened, power window and sunroof is closed.

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ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

INFOID:000000009238835

ECU	Reference
BCM	BCS-35, "Reference Value"
	BCS-60, "Fail-safe"
	BCS-61, "DTC Inspection Priority Chart"
	BCS-62, "DTC Index"

INTERIOR ROOM LAMP CONTROL SYSTEM

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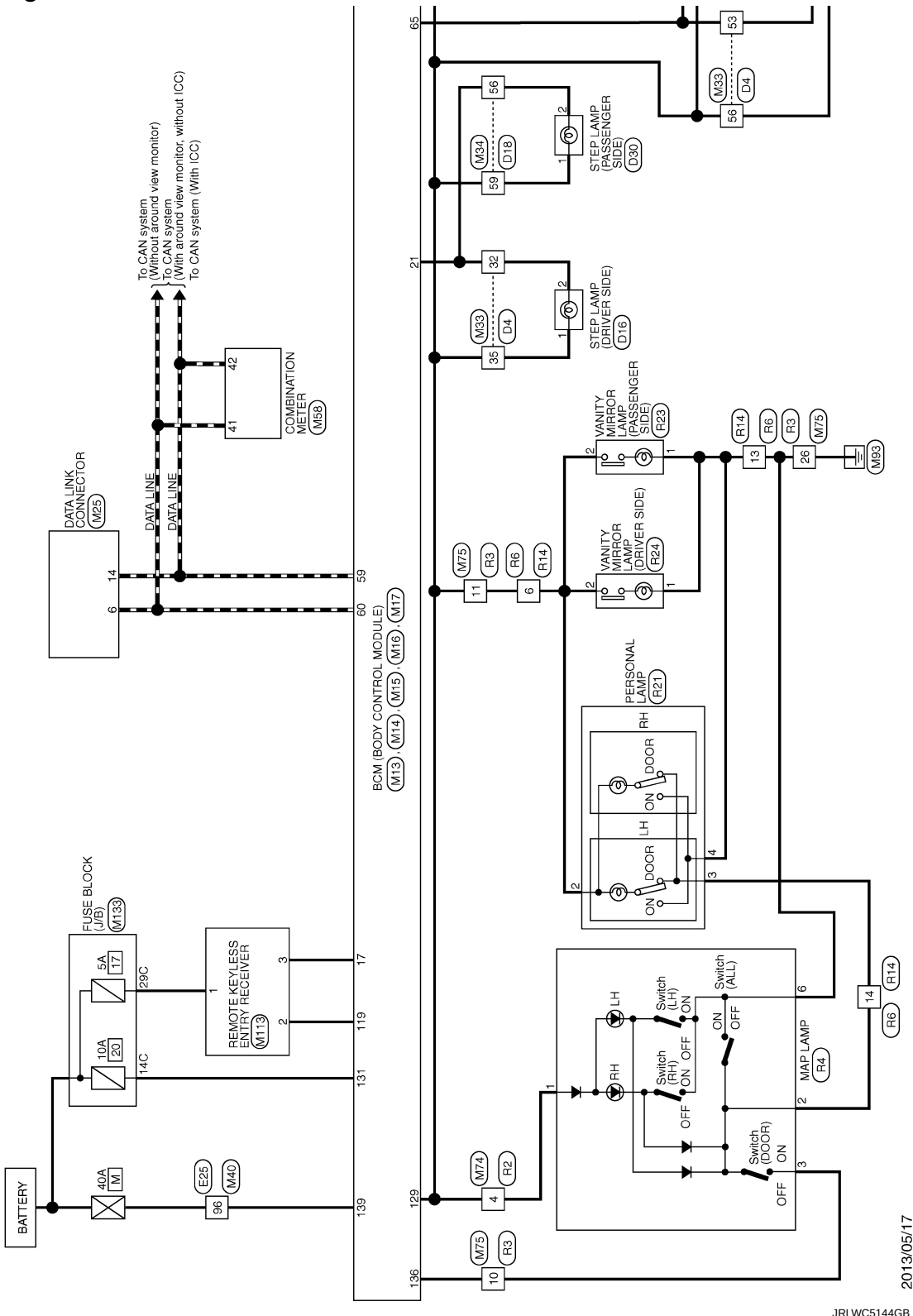
WIRING DIAGRAM

INTERIOR ROOM LAMP CONTROL SYSTEM

Wiring Diagram

INFOID:000000009238836

INTERIOR ROOM LAMP CONTROL SYSTEM



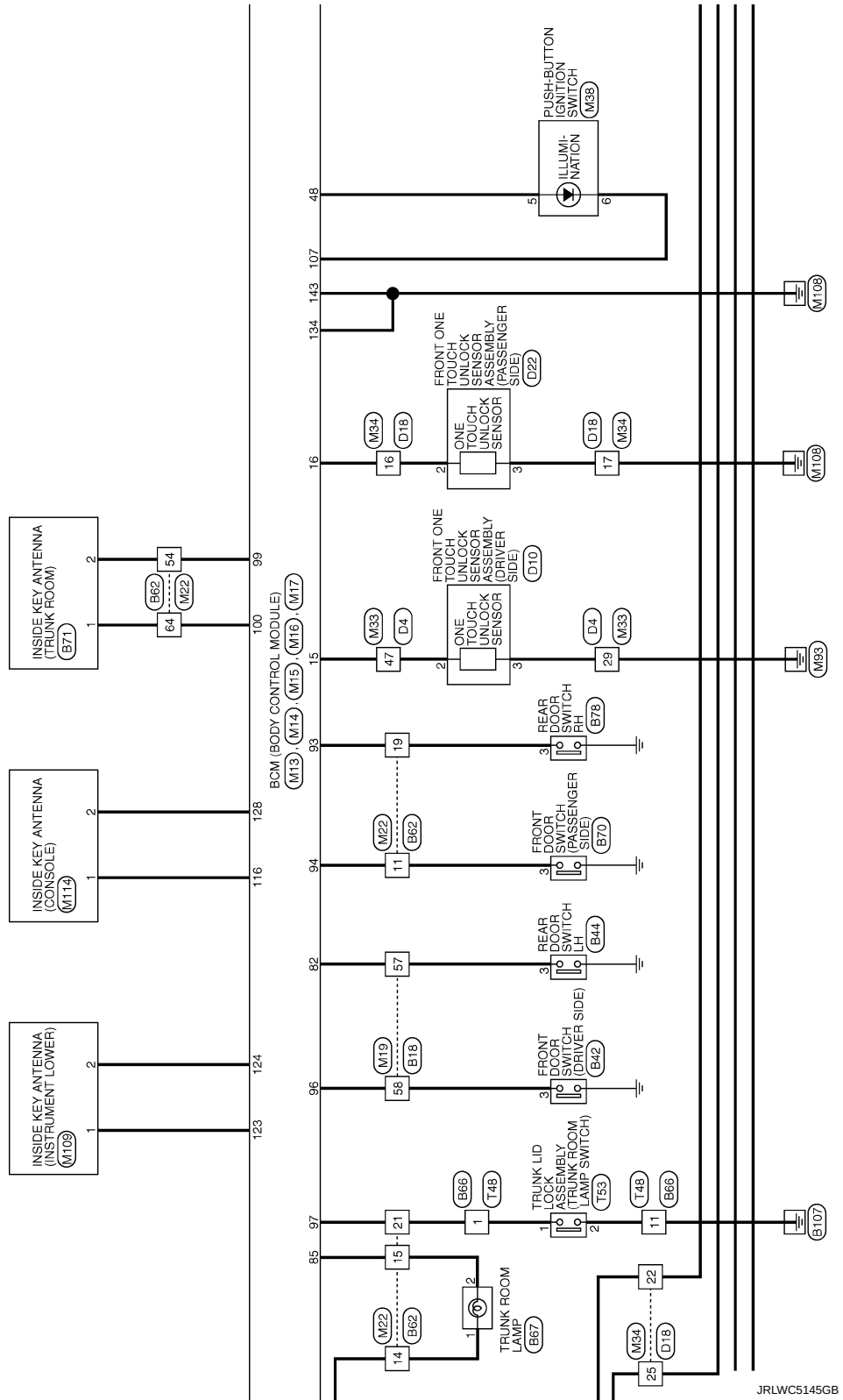
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INTERIOR ROOM LAMP CONTROL SYSTEM

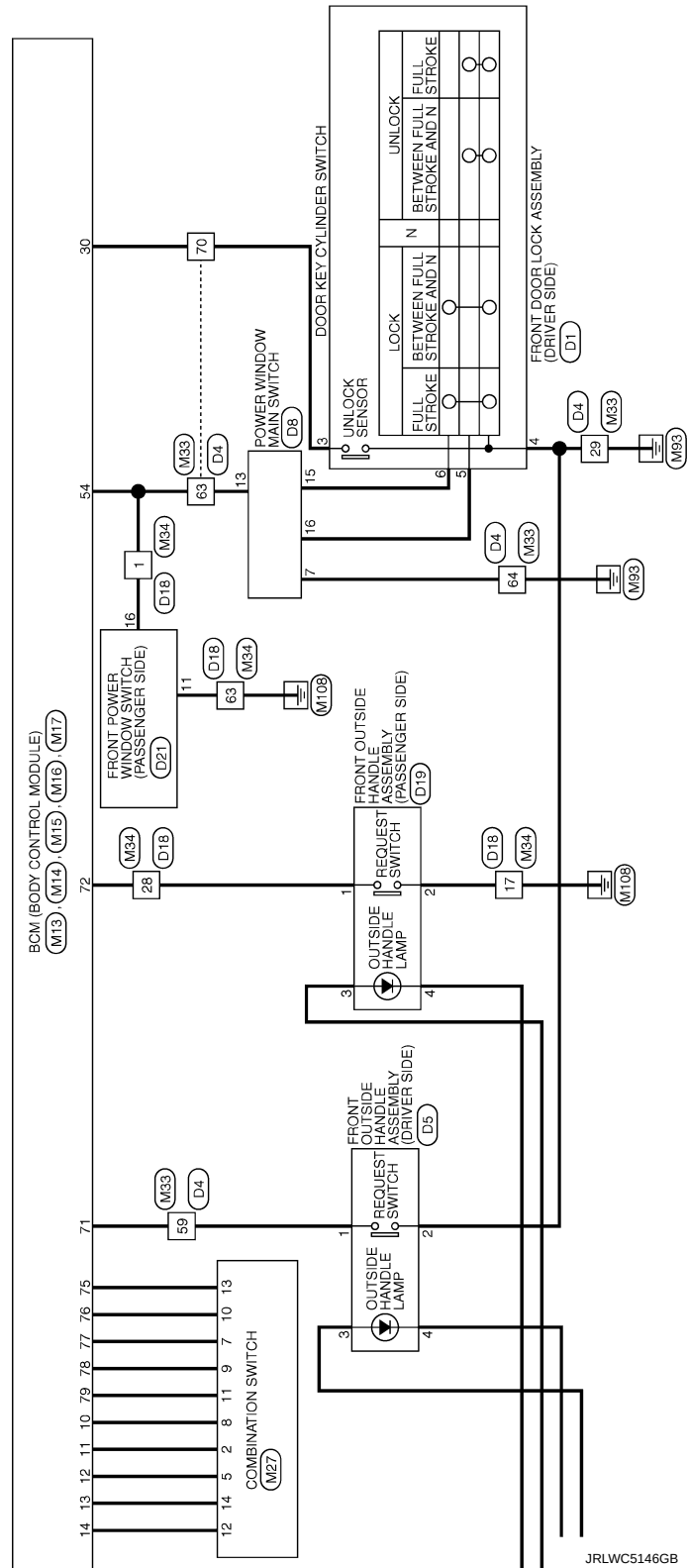
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INTERIOR ROOM LAMP CONTROL SYSTEM

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INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	B19
Connector Name	WIRE TO WIRE
Connector Type	TH8DFW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	W	-
3	LG	-
4	LG	-
6	R	-
7	V	-
8	LG	-
9	BR	-
10	P	-
11	EG	-
12	LG	-
13	GR	-
24	Y	-
25	W	-
31	B	-
32	B	-
33	B	-
34	LG	-
35	P	-
36	W	-
37	SB	-
38	LG	-
40	P	-
41	SB	-
42	BR	-
43	EG	-
44	EG	-
46	R	-
51	SP	-
52	Y	-
54	R	-
55	R	-
57	W	-
58	V	-
59	GR	-

Connector No.	B42
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	TH8DFW-CS16-TM4



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

Connector No.	B44
Connector Name	REAR DOOR SWITCH LH
Connector Type	TH8DFW-H4



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

Connector No.	B62
Connector Name	WIRE TO WIRE
Connector Type	TH8DFW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	L	-
3	R	- [With BOSE system]
3	W	- [Without BOSE system]
4	SHIELD	-
5	G	-
6	W	-
7	BR	- [Without BOSE system]
7	W	- [With BOSE system]
8	B	- [Without BOSE system]
8	W	- [With BOSE system]
10	SHIELD	-
10	V	-
11	GR	-
12	Y	-
13	R	-
14	EG	-
15	GR	-

16	V	-
17	P	-
18	L	-
19	R	-
20	GR	-
21	R	-
22	P	-
23	W	-
24	V	-
25	SB	-
26	G	-
29	P	-
30	LG	-
36	R	-
37	W	-
38	W	-
39	W	-
45	G	-
46	SHIELD	-
47	G	-
48	EG	-
49	G	-
52	Y	-
53	R	-
54	GR	-
57	R	-
58	P	-
59	LG	-
60	P	-
62	L	-
63	W	-
64	W	-
66	LG	-
68	L	-
69	P	-
71	R	-
72	G	-
73	SHIELD	-
76	GR	-
84	BR	-
85	EG	-
86	W	-
87	LG	-
89	Y	-
92	W	-
93	R	-
94	R	-
95	Y	-
96	W	-

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INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

INTERIOR ROOM LAMP CONTROL SYSTEM

Terminal No.	Color Of Wire	Signal Name [Specification]
87	L	-
88	BR	-
109	BR	-

Connector No.	WIRE TO WIRE
B66	NS16MM-CS

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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	BG	-
4	SHIELD	-
5	W	-
6	GR	-
8	B	-
9	R	-
10	P	-
11	B	-
13	SHIELD	- [With back view monitor]
14	R	- [With around view monitor]
15	G	- [With around view monitor]
16	R	- [With around view monitor]
17	B	- [With around view monitor]
18	B	- [With around view monitor]
19	R	- [With around view monitor]

Connector No.	Color Of Wire	Signal Name [Specification]
B67	W	TRUNK ROOM LAMP
SG2W	GR	-

Connector No.	Color Of Wire	Signal Name [Specification]
B78	W	REAR DOOR SWITCH RH
THQ4FW-NH	GR	-

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

Connector No.	Color Of Wire	Signal Name [Specification]
B70	R	FRONT DOOR SWITCH (PASSENGER SIDE)
THQ4FW-NH	GR	-

Connector No.	Color Of Wire	Signal Name [Specification]
D1	W	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
EDFGY-RS	GR	-

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

Connector No.	Color Of Wire	Signal Name [Specification]
B71	P	INSIDE KEY ANTENNA (TRUNK ROOM)
FR02TGY	GR	-

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

Connector No.	Color Of Wire	Signal Name [Specification]
B78	W	REAR DOOR SWITCH RH
THQ4FW-NH	GR	-

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

Connector No.	Color Of Wire	Signal Name [Specification]
D1	W	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
EDFGY-RS	GR	-

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

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

Connector No.	Color Of Wire	Signal Name [Specification]
D4	W	WIRE TO WIRE
NH60FW-TS12	GR	-

Connector No.	Color Of Wire	Signal Name [Specification]
B78	W	REAR DOOR SWITCH RH
THQ4FW-NH	GR	-

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

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INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	D5
Connector Name	FRONT OUTSIDE HANDLE ASSEMBLY (DRIVER SIDE)
Connector Type	RH04FB



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

Connector No.	D8
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS18FW-GS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	ENCODER+
2	Y	DN
3	G	UP
4	L	IGN
5	B	ENCODER GND
6	GR	ENCODER SIG1
7	BR	ENCODER SIG2
8	COM	LOCK SW
9	UNLOCK SW	-

Connector No.	D10
Connector Name	FRONT ONE TOUCH/UNLOCK SENSOR ASSEMBLY (DRIVER SIDE)
Connector Type	RH04FLGY



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

Connector No.	D16
Connector Name	STEP LAMP (DRIVER SIDE)
Connector Type	TB02FW



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

Connector No.	D18
Connector Name	MIRE TO MIRE
Connector Type	NH06FW-TS12



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

22	GR	-
23	BR	-
24	B	-
25	BR	-
26	V	-
27	G	-
28	V	-
29	Y	-
30	R	-
49	LG	-
52	P	-
55	L	-
56	Y	-
57	R	-
58	SB	-
59	G	-
60	G	-
63	B	-
64	Y	-
65	BR	-
66	GR	-
69	W	-
70	L	-
71	BR	-
72	Y	-

Connector No.	D19
Connector Name	FRONT OUTSIDE HANDLE ASSEMBLY (PASSENGER SIDE)
Connector Type	RH04FB



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

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INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	D21
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NSJDFW-CS



8	9	10	11	12	13	14	15	16
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Connector No.	D30
Connector Name	STEP LAMP (PASSENGER SIDE)
Connector Type	TD02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
3	LG	ENCODER GND
5	Y	ENCODER +
8	L	UP
9	G	DOWN
10	Y	-
11	B	-
12	GR	ENCODER SIG1
15	BR	ENCODER SIG2
16	GR	COM

Connector No.	D22
Connector Name	FRONT ONE TOUCH/UNLOCK SENSOR ASSEMBLY (PASSENGER SIDE)
Connector Type	PH04FLGY

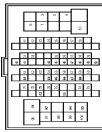


Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	R	-
3	B	-
4	L	-

37	V	-
38	Y	-
39	SB	-
40	LG	-
41	LG	-
44	Y	-
45	W	-
46	B	-
47	G	-
48	SHIELD	-
49	R	-
50	BR	-
51	L	-
52	W	-
53	Y	-
54	W	-
55	SB	-
56	SB	-
57	RG	-
58	B	-
59	W	-
61	R	-
64	Y	-
65	SB	-
66	GR	-
67	LG	-
68	BG	-
71	LG	-
72	G	-
73	G	-
74	BR	-
75	V	-
76	P	-
79	SB	-
83	R	-
86	BG	-
92	Y	-
91	G	-
94	GR	-
95	BG	-
96	W	-
97	LG	-
98	L	-
99	L	-
100	SHIELD	-

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

Connector No.	E25
Connector Name	WIRE TO WIRE
Connector Type	TH88FW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
2	W	-
3	LG	-
4	BR	-
6	V	-
7	L	-
10	BR	-
11	L	-
12	GR	-
13	W	-
14	B	-
16	SB	-
17	BR	-
18	P	-
31	Y	-
32	GR	-
35	GR	-
36	R	-

Connector No.	M/3
Connector Name	BOM (BODY CONTROL MODULE)
Connector Type	TH48FC-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	PUSH SW
2	Y	SECURITY SW
3	BG	OPTICAL SENSOR
5	LG	-
10	W	COMBI SW OUTPUT 5
11	SB	COMBI SW OUTPUT 4
12	L	COMBI SW OUTPUT 3
13	G	COMBI SW OUTPUT 2
14	P	COMBI SW OUTPUT 1
15	G	ONE TOUCH UNLK SENS (DR)
16	G	ONE TOUCH UNLK SENS (PASS)
17	P	RECEIVER SENSOR GND
18	L	SECURITY IND LAMP CONT
20	R	DETENT SW
21	SB	STEP LAMP CONT
22	R	SECURITY SW
23	R	EXTENDED STORAGE CASE SW
26	P	STOP LAMP SW
27	P	DR DOOR UNLK SENS
30	W	TR LID OP CANCEL SW
33	V	HAZARD SW
36	G	-
39	BR	P/N POSITION

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INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	M14
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH44FB-NH



00	59			55	54			52		48																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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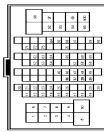
INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

INTERIOR ROOM LAMP CONTROL SYSTEM

Terminal No.	Color Of Wire	Signal Name [Specification]
83	BR	-
84	LG	-
85	W	-
86	W	-
87	W	-
88	W	-
89	W	-
90	W	-
91	W	-
92	W	-
93	W	-
94	W	-
95	W	-
96	W	-
97	W	-
98	W	-

Connector No.	Connector Name	Connector Type
M22	WIRE TO WIRE	TH80MP-CS1F-TM4



HS

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

Terminal No.	Color Of Wire	Signal Name [Specification]
14	LG	-
15	SB	-
16	W	-
17	V	-
18	Y	-
19	L	-
20	GR	-
21	R	-
22	W	-
23	L	-
24	V	-
25	LG	-
26	GR	-
27	SB	-
28	G	-
29	R	-
30	W	-
31	V	-
32	LG	-
33	L	-
34	W	-
35	R	-
36	W	-
37	W	-
38	W	-
39	W	-
40	W	-
41	W	-
42	W	-
43	W	-
44	W	-
45	G	-
46	SHIELD	-
47	G	-
48	BR	-
49	SB	-
50	Y	-
51	R	-
52	W	-
53	R	-
54	GR	-
55	W	-
56	SB	-
57	W	-
58	LG	-
59	L	-
60	V	-
61	W	-
62	W	-
63	L	-
64	W	-
65	R	-
66	R	-
67	L	-
68	P	-
69	R	-
70	R	-
71	R	-
72	G	-
73	SHIELD	-
74	V	-
75	BR	-
76	BR	-
77	BR	-
78	LG	-
79	W	-
80	V	-
81	W	-
82	W	-
83	W	-
84	W	-
85	W	-
86	W	-
87	W	-
88	W	-
89	W	-
90	W	-
91	W	-
92	W	-
93	R	-
94	R	-

Terminal No.	Color Of Wire	Signal Name [Specification]
95	Y	-
96	W	-
97	L	-
98	BR	-
99	BR	-
100	BR	-

Connector No.	Connector Name	Connector Type
M25	DATA LINK CONNECTOR	BD16FW



HS

Terminal No.	Color Of Wire	Signal Name [Specification]
3	SB	AV COMM (L)
4	B	EARTH
5	B	EARTH
6	L	DATA-H
7	V	DATA-L
8	W	DATA-SW
9	W	DATA-SW
10	W	DATA-SW
11	W	DATA-SW
12	R	DATA-SW
13	P	DATA-SW
14	P	DATA-SW
15	W	DATA-SW
16	W	DATA-SW

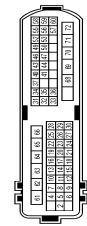
Connector No.	Connector Name	Connector Type
M27	COMBINATION SWITCH	TH16FW-NH



HS

Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	FR WASH MOTOR
2	SB	OUTPUT 4
3	L	OUTPUT 3
4	B	GND
5	V	INPUT 3
6	W	OUTPUT 5
7	Y	INPUT 2
8	EG	INPUT 4
9	LG	INPUT 1
10	P	OUTPUT 1
11	BR	INPUT 5
12	G	OUTPUT 2

Connector No.	Connector Name	Connector Type
M32	WIRE TO WIRE	NH60MM-TS12



HS

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

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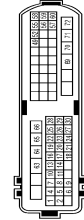
INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

INTERIOR ROOM LAMP CONTROL SYSTEM

21	B	-
22	BG	- [Without DRPO]
23	LG	- [With DRPO]
24	Y	-
25	BG	- [Without DRPO]
26	L	- [With DRPO]
27	GR	-
28	V	-
29	B	-
30	W	-
31	B	-
32	SB	-
33	BR	-
34	LG	-
35	LG	-
36	W	-
37	B	-
40	P	-
41	SB	-
43	Y	-
44	BG	-
46	BR	-
47	G	-
49	V	-
50	B	-
52	BR	-
53	BG	-
56	LG	-
57	V	-
58	R	-
59	G	-
60	L	-
61	G	-
62	R	-
63	V	-
64	B	-
65	R	-
66	BR	-
68	P	-
70	V	-
71	LG	-
72	V	-

Connector No.	M54
Connector Name	WIRE TO WIRE
Connector Type	NH60MW-TS12



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	R	- [With DRPO]
4	G	- [Without DRPO]
5	SB	- [Without DRPO]
6	L	-
7	R	-
8	W	-
9	GR	-
10	V	-
11	Y	-
13	LG	-
14	W	-
16	G	-
17	GR	-
18	W	-
19	R	-
20	SB	- [With DRPO]
20	Y	- [Without DRPO]
21	SHIELD	-
22	B	-
23	BG	- [Without DRPO]
23	P	- [With DRPO]
24	G	-
25	LG	-
26	BG	- [Without DRPO]
26	BR	- [With DRPO]
27	R	-
28	BG	-
28	RG	- [Without DRPO]
28	WB	- [With DRPO]
30	L	-
49	P	-
52	V	-
55	B	-
56	SB	-

57	G	-
58	G	-
59	LG	-
60	R	-
63	B	-
64	R	-
65	BR	-
66	Y	-
69	BR	-
70	Y	-
71	SB	-
72	W	-

Connector No.	M58
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TH88FW-NH



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

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Type	TH88MW-CSI-E-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
2	GR	-
4	V	-
6	WB	-
7	V	-
10	W	-
11	W	-
12	B	-
13	GR	-
14	B	-
15	SB	-
16	B	-
17	LG	-
18	B	-
32	V	-
35	EG	-
36	G	-
37	B	-
38	L	-
39	Y	-
40	GR	-
41	L	-
44	BR	-
45	W	-
46	G	-
47	R	-
48	SHIELD	-
49	P	-
50	BR	-
51	B	-
52	W	-
53	G	-
54	Y	-
55	P	-
56	EG	-

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INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

INTERIOR ROOM LAMP CONTROL SYSTEM

Terminal No.	Color Of Wire	Signal Name [Specification]
37	GR	-
38	GR	-
39	SB	AV COMMUNICATION SIGNAL (L)
40	SB	FUEL LEVEL SENSOR SIGNAL
41	WB	GROUND
42	WB	GROUND
43	R	-
44	V	-
45	LG	-
46	LG	-
47	LG	-
48	LG	-
49	LG	-
50	LG	-
51	LG	-
52	LG	-
53	LG	-
54	LG	-
55	LG	-
56	LG	-
57	LG	-
58	LG	-
59	LG	-
60	LG	-
61	LG	-
62	LG	-
63	LG	-
64	LG	-
65	LG	-
66	LG	-
67	LG	-
68	LG	-
69	LG	-
70	LG	-
71	LG	-
72	LG	-
73	R	-
74	BR	-
75	B	-
76	G	-
77	R	-
78	G	-
79	R	-
80	R	-
81	W	-
82	R	-
83	W	-
84	W	-
85	W	-
86	W	-
87	W	-
88	W	-
89	W	-
90	W	-
91	W	-
92	W	-
93	W	-
94	W	-
95	W	-
96	W	-
97	W	-
98	W	-
99	W	-
100	SHIELD	-

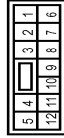
Connector No.	Signal Name [Specification]
M68	COMBINATION METER
TH12FW-NH	-



Terminal No.	Color Of Wire	Signal Name [Specification]
41	R	ILLUMINATION CONTROL SIGNAL
42	B	FUEL LEVEL SENSOR SIGNAL
43	Y	BATTERY POWER SUPPLY
44	W	IGNITION SIGNAL
45	R	AV COMMUNICATION SIGNAL (H)
46	R	-
47	LG	-

Terminal No.	Color Of Wire	Signal Name [Specification]
46	SB	AV COMMUNICATION SIGNAL (L)
47	SB	FUEL LEVEL SENSOR SIGNAL
48	B	GROUND

Connector No.	Signal Name [Specification]
M74	WIPE TO WIPE
NS12FW-CS	-



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

Connector No.	Signal Name [Specification]
M75	WIPE TO WIPE
TH132FW-NH	-



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

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

Connector No.	Signal Name [Specification]
M109	INSIDE KEY ANTENNA (INSTRUMENT LOWER)
PRO2FGY	-



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

Connector No.	Signal Name [Specification]
M113	REMOTE KEYLESS ENTRY RECEIVER
AAC04EB	-



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

Connector No.	Signal Name [Specification]
M114	INSIDE KEY ANTENNA (CONSOLE)
PRO2FGY	-



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

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< WIRING DIAGRAM >

Connector No.	R14
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH

INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

INTERIOR ROOM LAMP CONTROL SYSTEM

9	R	-
10	LG	-
12	G	-
13	B	-
14	L	-

Connector No.	R21
Connector Name	PERSONAL LAMP
Connector Type	TH06FW-NH



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

Connector No.	R23
Connector Name	VANITY MIRROR LAMP (PASSENGER SIDE)
Connector Type	MC402FW



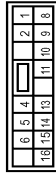
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B/L	-
2	V	-

Connector No.	R24
Connector Name	VANITY MIRROR LAMP (DRIVER SIDE)
Connector Type	MC402FW



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

Connector No.	T48
Connector Name	WIRE TO WIRE
Connector Type	NS18FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	B/G	-
4	L	-
5	P	-
6	G	-
8	B	-
9	R	-
10	P	-
11	L	-
13	G	- [With around view monitor]
13	G	- [With back view monitor]
14	B	- [With back view monitor]
14	R	- [With back view monitor]
15	B	- [With around view monitor]
15	W	- [With around view monitor]
16	R	- [With back view monitor]
16	W	- [With around view monitor]

Connector No.	T53
Connector Name	TRUNK LID LOCK ASSEMBLY
Connector Type	TE03FW-LG



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

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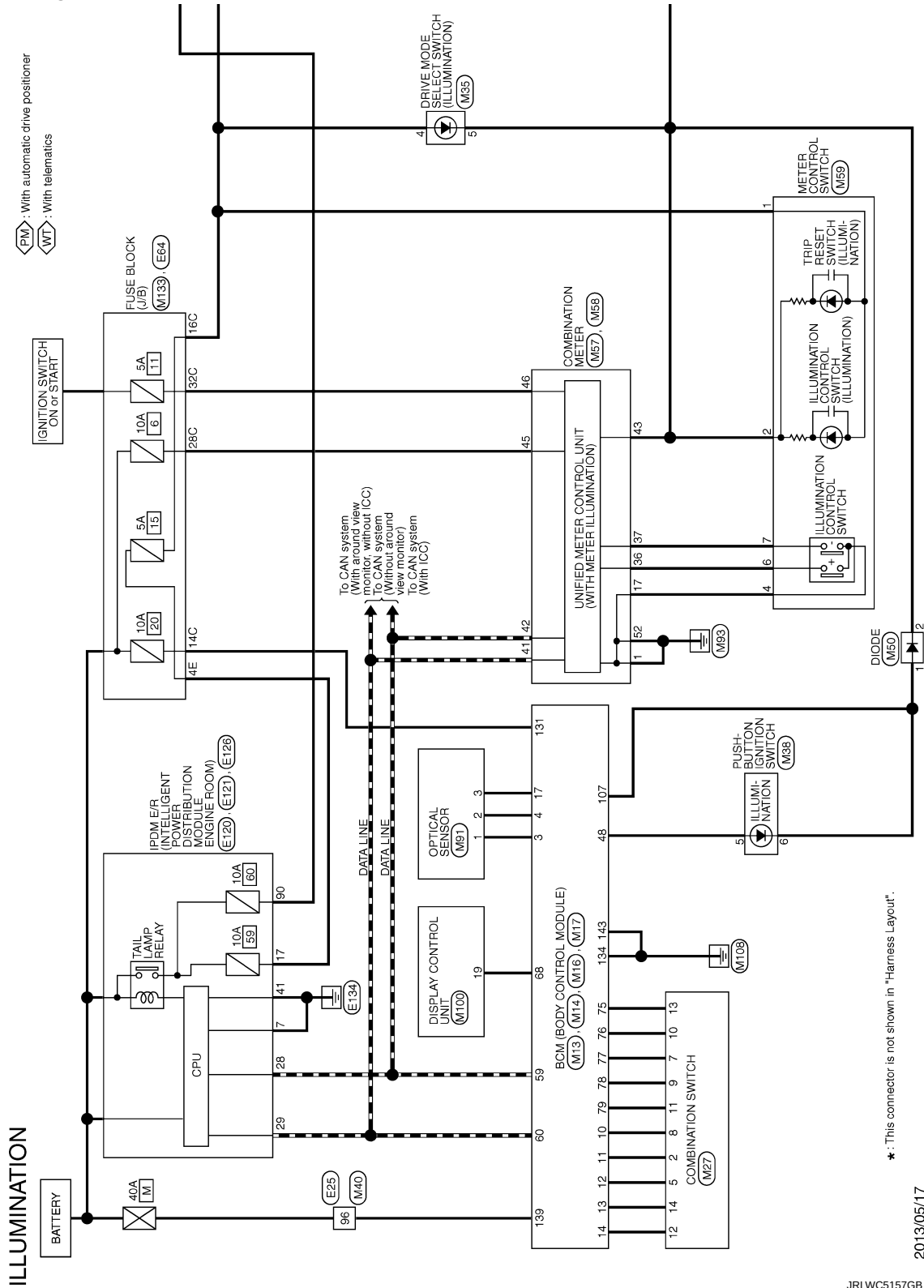
ILLUMINATION

< WIRING DIAGRAM >

ILLUMINATION

Wiring Diagram

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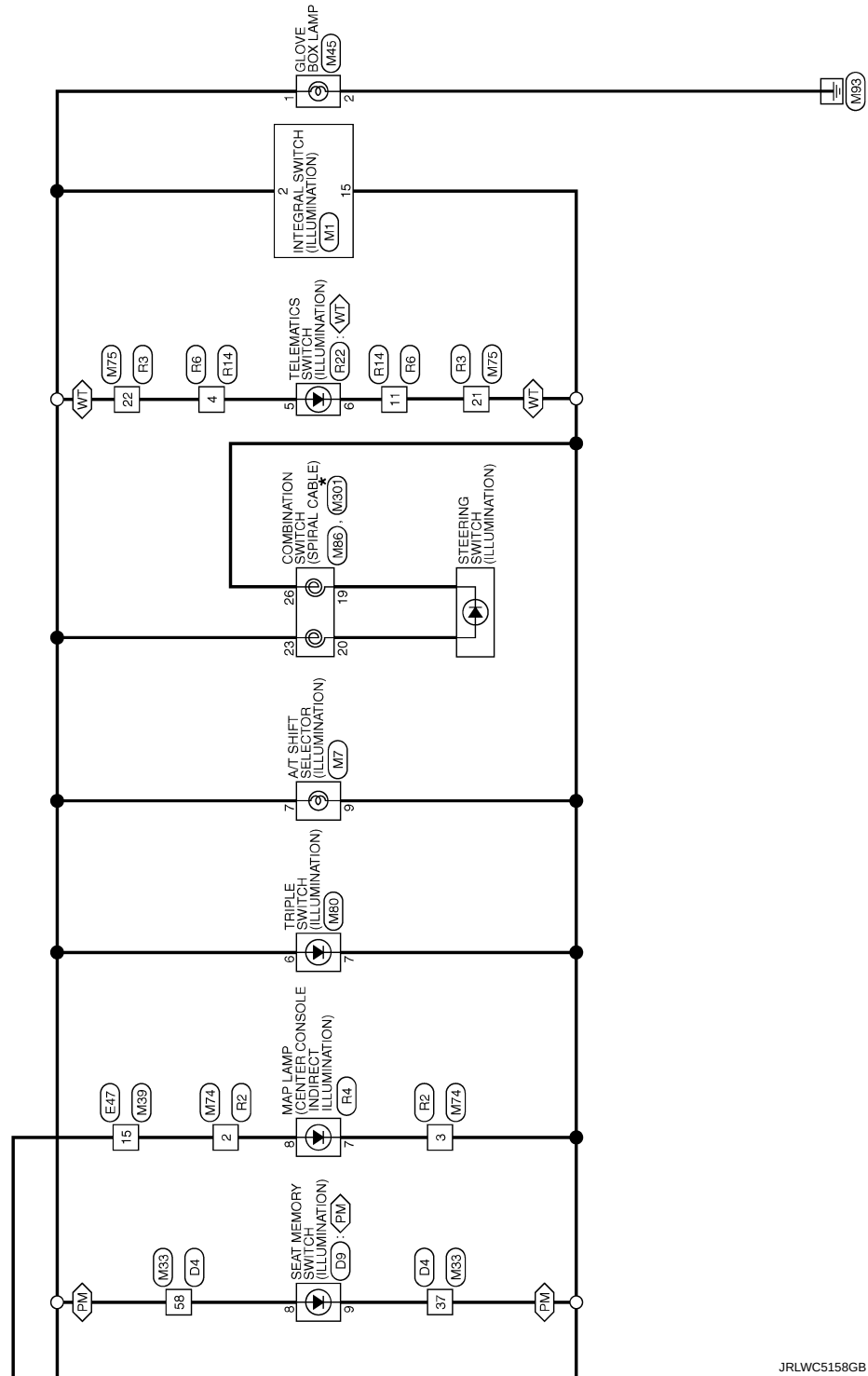
*: This connector is not shown in "Harness Layout".

2013/05/17

JRLWC5157GB

ILLUMINATION

< WIRING DIAGRAM >



JRLWC5158GB

A
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P

ILLUMINATION

< WIRING DIAGRAM >

ILLUMINATION

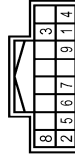
Connector No.	D4
Connector Name	WIRE TO WIRE
Connector Type	TH8BFW-TS12



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

36	GR	-
37	G	-
40	P	-
41	L	-
43	BG	-
44	Y	-
46	W	-
47	R	-
49	BR	-
50	B	-
52	V	-
53	GR	-
55	GR	-
56	BR	-
57	R	-
59	V	-
60	G	-
61	BG	-
62	Y	-
63	SB	-
64	B	-
65	Y	-
66	BR	-
68	Y	-
69	L	-
70	W	-
71	LG	-
72	P	-

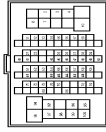
Connector No.	D8
Connector Name	SEAT MEMORY SWITCH
Connector Type	TH18FW-4H



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

5	BG	-
8	W	-
7	P	-
8	L	-
9	G	-

Connector No.	E25
Connector Name	WIRE TO WIRE
Connector Type	TH8BFW-CS16-TM4



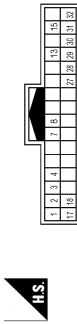
Terminal No.	Color Of Wire	Signal Name [Specification]
2	W	-
3	LG	-
4	BR	-
6	V	-
7	L	-
10	BR	-
11	L	-
12	GR	-
13	W	-
14	B	-
15	SB	-
16	Y	-
17	BR	-
18	P	-
31	Y	-
32	GR	-
35	GR	-
36	R	-
37	V	-
38	L	-
39	SB	-
41	LG	-
44	Y	-
45	W	-
46	B	-
47	G	-
49	SHIELD	-

49	R	-
50	BR	-
51	B	-
52	W	-
53	V	-
54	P	-
55	W	-
56	SB	-
57	BG	-
58	B	-
59	W	-
61	R	-
64	Y	-
65	SB	-
66	GR	-
67	LG	-
68	BG	-
71	LG	-
72	V	-
73	G	-
74	BR	-
75	V	-
78	P	-
79	SB	-
83	R	-
86	BG	-
91	G	-
92	Y	-
95	GR	-
96	W	-
97	LG	-
98	L	-
99	P	-
100	SHIELD	-

JRLWC5159GB

ILLUMINATION

Connector No.	E47
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	BR	-
3	Y	-
4	P	-
7	L	-
8	W	-
13	G	-
15	BR	-
17	W	-
18	EG	-
27	LG	-
28	BR	-
29	W	-
30	Y	-
31	G	-
32	LG	-

Connector No.	E64
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS08FW-CS



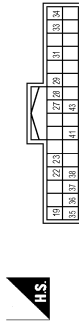
Terminal No.	Color Of Wire	Signal Name [Specification]
2E	P	-
3E	V	-
4E	GR	-
6E	L	-

Connector No.	E120
Connector Name	POWER IN INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	NS12FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
7	BR	-
8	Y	-
10	LG	-
11	V	-
13	Y	-
14	SB	-
15	Y	-
17	GR	-
18	L	-

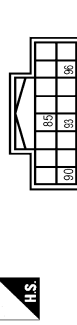
Connector No.	E121
Connector Name	POWER IN INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	TH32FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
19	G	-
22	EG	-
23	LG	-
27	GR	-
28	L	-
31	G	-
33	SB	-
34	Y	-
35	G	-
36	SB	-

37	GR	-
38	EG	-
43	V	-

Connector No.	E126
Connector Name	POWER IN INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	TH16FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
35	L	-
38	BR	-
43	V	-
45	P	-

Connector No.	MT
Connector Name	INTEGRAL SWITCH
Connector Type	TH24FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BAT
3	SB	AV COMM (L)
4	LG	DOOR LOCK SETTING SWITCH SIGNAL
7	W/B	DISK EJECT SIGNAL
8	G	HAZARD SIGNAL
13	B	GND
14	V	ACC
15	B	ILLUMINATION CONTROL SIGNAL
16	EG	DISK EJECT SIGNAL GROUND

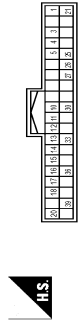
18	R	IGN
19	BR	CAMERA SIGNAL SIGNAL
29	LG	AIR BAG INDICATOR OFF SIGNAL

Connector No.	M7
Connector Name	A/T SHIFT SELECTOR
Connector Type	TH12FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	GR	-
3	EG	-
4	B	-
5	G	-
7	R	-
8	V	-
9	B	-
10	GR	-
11	R	-

Connector No.	M13
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40EC-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	PUSH SW
3	Y	SENS PWR SPPLY
4	EG	OPTICAL SENSOR
5	LG	-
10	W	COMBI SW OUTPUT 5

JRLWC5160GB

ILLUMINATION

< WIRING DIAGRAM >

ILLUMINATION

11	SB	COMBI SW OUTPUT 4
12	SB	COMBI SW OUTPUT 3
13	G	COMBI SW OUTPUT 2
14	P	COMBI SW OUTPUT 1
15	G	ONE TOUCH UNLK SENS (PASS)
16	G	ONE TOUCH UNLK SENS (DR)
17	P	RECEIVER/SENSOR GND
18	L	SECURITY IND LAMP CONT
20	R	DETENT SW
21	SB	STEP LAMP CONT
25	R	STOP LAMP SW2
26	R	EXTENDED STORAGE FUSE SW
27	P	STOP LAMP SW
30	W	DR DOOR UNLK SENS
32	V	TR LID OPEN SW
33	G	TR LID OPEN SW2
39	BR	P/N POSITION

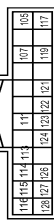
Connector No.	M14
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
48	R	PUSH-BTN IGN SW ILL PWR
52	G	DOUBLE LINK
54	V	COMM LINE
55	R	RAIN SENSOR
59	P	CAN-L
60	L	CAN-H
61	G	REAR WINDOW DEF RLY CONT
62	R	STARTER RLY CONT
64	V	FLYET WARN BUZZER
66	B	LOCK/UNLOCK CONT
68	B	BUZZER/CLAY RLY CONT
67	W/B	IGN RLYAY (E/CB) CONT
88	R	DIMMER
69	GR	A/T SHIFT SELECT PWR SPLY
70	B	IGN RLYAY (PDM E/R) CONT
71	G	DR DOOR REQ SW
72	SB	PASS DOOR REQ SW

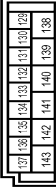
76	BR	COMBI SW INPUT 5
76	BR	COMBI SW INPUT 4
77	V	COMBI SW INPUT 3
78	Y	COMBI SW INPUT 2
79	LG	COMBI SW INPUT 1
80	L	TR LID OPNR SW

Connector No.	M16
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH24FB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
105	V	TURN SIG RH OUTPUT (FRONT)
107	P	PUSH-BTN IGN SW ILL GND
111	Y	ACC/IGN IND
113	SB	ACC RELAY CONT
114	LG	PASSENGER DOOR ANT +
115	LG	PASSENGER DOOR ANT -
116	GR	IGN RELAY (E/CB) +
117	W/B	TURN SIG LH OUTPUT (FRONT)
119	L	KY'S ENT REC'DV COMM
121	SB	DRIVER DOOR ANT -
122	BG	DRIVER DOOR ANT +
123	R	INSIDE KEY ANT (INSTRUMENT LOWER) +
124	G	INSIDE KEY ANT (INSTRUMENT LOWER) -
126	B	NATS ANT AMP
127	W	NATS ANT AMP
128	GR	INSIDE KEY ANT CONSOLE -

Connector No.	M17
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA08FW-FH46-SA



Terminal No.	Color Of Wire	Signal Name [Specification]
130	LG	INT ROOM LAMP PWR SPLY
132	P	PASS DOOR UNLK OUTPUT
131	P	BAT FUSE
132	V	RR RL DOOR UNLK OUTPUT
133	BR	RR RL DOOR UNLK OUTPUT
134	B	GND
135	V	FRONT DOOR FL ID LK OUTPUT
136	V	INT ROOM LAMP CONT
137	LG	FRONT DOOR FL ID UNLK OUTPUT
138	P	REAR DOORS ACT PWR SPLY
139	W	BAT F/L
140	BR	IGN ON
141	R	PWR SPLY (BAT)
142	R	FRONT DOORS FL ID ACT PWR SPLY
143	B	GND

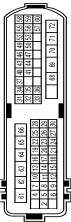
Connector No.	M27
Connector Name	COMBINATION SWITCH
Connector Type	TH18FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	FR WASH MOTOR
2	SB	OUTPUT 4
5	L	OUTPUT 3
6	B	GND
7	V	INPUT 3

8	W	OUTPUT 5
9	Y	INPUT 2
10	EG	INPUT 4
11	LG	INPUT 1
12	P	OUTPUT 1
13	BR	INPUT 5
14	G	OUTPUT 2

Connector No.	M33
Connector Name	WIRE TO WIRE
Connector Type	NH60MM-TS12



Terminal No.	Color Of Wire	Signal Name [Specification]
2	W	-
4	G	- [With DRPO]
4	SB	- [Without DRPO]
5	G	-
6	R	-
7	R	-
8	GR	-
9	GR	-
10	W	-
11	SHIELD	-
12	P	-
13	SB	-
14	LG	-
15	Y	-
16	Y	-
17	P	-
18	W/B	-
19	LG	- [With DRPO]
19	Y	- [Without DRPO]
20	Y	-
21	B	-
22	EG	- [Without DRPO]
22	G	- [With DRPO]
23	L	-
24	Y	-
25	EG	- [Without DRPO]
25	L	- [With DRPO]

JRLWC5161GB

ILLUMINATION

< WIRING DIAGRAM >

ILLUMINATION

26	Y	-
27	GR	-
28	V	-
29	B	-
30	W	-
31	B	-
32	SB	-
33	L	-
34	BR	-
35	LG	-
36	W	-
37	B	-
40	P	-
41	SB	-
43	Y	-
44	BR	-
46	BR	-
47	G	-
49	V	-
50	B	-
52	BR	-
53	B	-
55	EG	-
56	LG	-
57	V	-
58	R	-
59	G	-
60	L	-
61	G	-
62	R	-
65	V	-
64	B	-
85	R	-
86	BR	-
88	P	-
89	V	-
70	W	-
71	LG	-
72	V	-

Connector No.	M35
Connector Name	DRIVE MODE SELECT SWITCH
Connector Type	TH08FW-NH



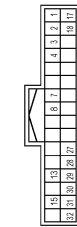
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	SB	-
3	SB	-
4	R	-
5	B	-

Connector No.	M38
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TH08FW-NH



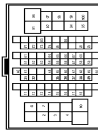
Terminal No.	Color Of Wire	Signal Name [Specification]
3	W	-
4	B	-
5	R	-
6	P	-
7	Y	-
8	BR	-

Connector No.	M39
Connector Name	WIRE TO WIRE
Connector Type	TH132FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W/B	-
2	SB	-
3	SB	-
4	P	-
4	R	-
7	L	-
8	W	-
13	G	-
15	R	-
17	BR	-
18	EG	-
27	LG	-
28	BR	-
29	W/B	-
30	W	-
32	LG	-

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Type	TH18MM-CS18-TM4



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

6	W/B	-
7	Y	-
10	W	-
11	W	-
12	B	-
13	GR	-
14	B	-
15	SB	-
16	B	-
17	LG	-
18	B	-
31	W	-
32	V	-
35	EG	-
36	G	-
38	B	-
39	L	-
39	Y	-
40	GR	-
41	L	-
44	BR	-
45	W	-
46	G	-
47	R	-
48	SHIELD	-
49	B	-
50	BR	-
51	L	-
52	W	-
53	V	-
54	Y	-
55	P	-
56	EG	-
57	GR	-
58	B	-
59	SB	-
61	W/B	-
64	Y	-
65	R	-
66	V	-
67	LG	-
68	EG	-
71	Y	-
72	LG	-
75	B	-
74	BR	-
75	B	-
78	G	-
79	R	-
83	R	-

JRLWC5162GB

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ILLUMINATION

Connector No.	M57
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH



Connector No.	M45
Connector Name	GLOVE BOX LAMP
Connector Type	A02FW



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

Connector No.	M60
Connector Name	DIODE
Connector Type	24335 C9600



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

Connector No.	M58
Connector Name	COMBINATION METER
Connector Type	TH12FW-NH



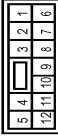
Terminal No.	Color Of Wire	Signal Name [Specification]
41	P	IGN-H
42	P	IGN-H
43	B	ILLUMINATION CONTROL SIGNAL
44	Y	FUEL LEVEL SENSOR GROUND
45	W	BATTERY POWER SUPPLY
46	R	IGNITION SIGNAL
47	LG	AV COMMUNICATION SIGNAL (H)
48	SB	AV COMMUNICATION SIGNAL (L)
51	BR	FUEL LEVEL SENSOR SIGNAL
52	B	GROUND

Connector No.	M59
Connector Name	METER CONTROL SWITCH
Connector Type	TH08FW-NH



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

Connector No.	M74
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-CS



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

Connector No.	M75
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH



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

JRLWC5163GB

ILLUMINATION

11	LG	-
12	W	-
13	G	-
14	B	-
16	R	-
17	SHIELD	-
18	G	-
19	L	-
21	B	-
22	R	-
23	V	-
25	W	-
26	B	-
27	R	-
28	GR	-
29	W	-
31	W	-
32	L	-

Connector No.	M80
Connector Name	TRIPLE SWITCH
Connector Type	TH12FE-NH



ILLUMINATION

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

Connector No.	R2
Connector Name	WIRE TO WIRE
Connector Type	TH132MP-CS

1	2	3	4	5
6	7	8	9	10
11	12			

HS

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

Connector No.	R3
Connector Name	WIRE TO WIRE
Connector Type	TH132MP-NH

HS

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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	GR	-
3	W	-
4	BR	-
5	R	-
6	G	-
7	B	-
10	BR	-
11	SB	-
12	GR	-
14	B	-
16	V	-
17	SHIELD	-
18	R	-
19	L	-
21	LG	-
22	V	-
23	GR	-
25	W	-
26	B	-
27	BR	-
28	B	-
29	EG	-
31	W	-
32	L	-

Connector No.	R4
Connector Name	MAP LAMP
Connector Type	TH108FW-1V-NH

HS

1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---

Connector No.	R6
Connector Name	WIRE TO WIRE
Connector Type	TH186FW-NH

HS

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

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

Connector No.	R14
Connector Name	WIRE TO WIRE
Connector Type	TH186FW-NH

HS

8	7	6	4	3	2	1
14	13	12	11	9		

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

9	R	-
11	LG	-
12	G	-
13	B	-
14	L	-

Connector No.	R22
Connector Name	TELEMATICS SWITCH
Connector Type	TH108FW-NH

HS

3	2	1
7	6	5

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

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

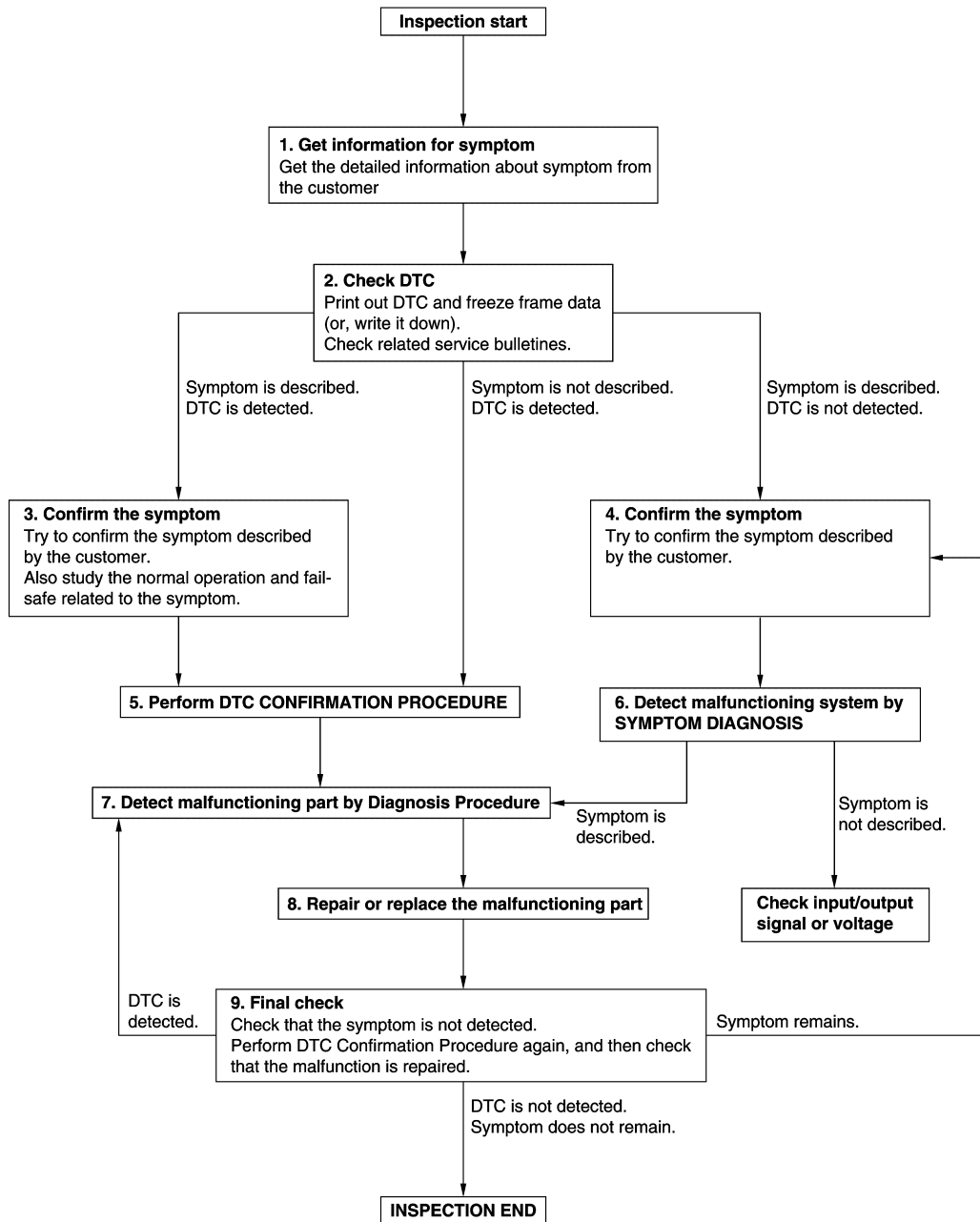
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000009238838

OVERALL SEQUENCE



DETAILED FLOW

JMKIA8652GB

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

1.GET INFORMATION FOR SYMPTOM

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

>> GO TO 2.

2.CHECK DTC

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

Are any symptoms described and any DTC detected?

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

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

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

3.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

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

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

>> GO TO 5.

4.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

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

>> GO TO 6.

5.PERFORM DTC CONFIRMATION PROCEDURE

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

NOTE:

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

Is DTC detected?

YES >> GO TO 7.

NO >> Check according to [GI-43. "Intermittent Incident"](#).

6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

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

Is the symptom described?

YES >> GO TO 7.

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

7.DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to [GI-43. "Intermittent Incident"](#).

8. REPAIR OR REPLACE THE MALFUNCTIONING PART

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

>> GO TO 9.

9. FINAL CHECK

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

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

Is DTC detected and does symptom remain?

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

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

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

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INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

Component Function Check

INFOID:000000009238840

1.CHECK INTERIOR ROOM LAMP POWER SUPPLY FUNCTION

CONSULT ACTIVE TEST

1. Turn ignition switch ON.
2. Turn each interior room lamp ON.
 - Personal lamp
 - Map lamp
 - Trunk room lamp
 - Step lamp
 - Outside handle lamp
 - Vanity mirror lamp
3. Select "BATTERY SAVER" of BCM (BATTERY SAVER) active test item.
4. With operating the test items, check that each interior room lamp turns ON/OFF.

Off : Interior room lamp ON

On : Interior room lamp OFF

Does the interior room lamp turn ON/OFF?

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

NO >> Refer to [INL-50, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009238841

1.CHECK INTERIOR ROOM LAMP POWER SUPPLY OUTPUT

CONSULT ACTIVE TEST

1. Turn ignition switch OFF.
2. Disconnect the following connectors.
 - Personal lamp
 - Map lamp
 - Trunk room lamp
 - Step lamp (ALL)
 - Outside handle lamp (both sides)
 - Vanity mirror lamp (both sides)
3. Turn ignition switch ON.
4. Select "BATTERY SAVER" of BCM (BATTERY SAVER) active test item.
5. With operating the test item, check voltage between BCM harness connector and ground.

BCM		(-)	Test item		Voltage
(+)					
Connector	Terminal				
M17	129	Ground	BATTERY SAVER	Off	9 – 16 V
				On	0 V

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace BCM. Refer to [BCS-98, "Removal and Installation"](#).

2.CHECK INTERIOR ROOM LAMP POWER SUPPLY OPEN CIRCUIT

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

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

BCM		Each interior room lamp		Continuity
Connector	Terminal	Connector	Terminal	
M17	129	Map lamp	R4	Existed
		Trunk room lamp	B67	
		Step lamp (driver side)	D16	
		Step lamp (passenger side)	D30	
		Outside handle lamp (driver side)	D5	
		Outside handle lamp (passenger side)	D19	
		Vanity mirror lamp (driver side)	R24	
		Vanity mirror lamp (passenger side)	R23	
		Personal lamp	R21	

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-43, "Intermittent Incident"](#).
 NO >> Repair or replace harnesses.

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INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL CIRCUIT

Component Function Check

INFOID:000000009238843

NOTE:

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

- Interior room lamp power supply
- Personal lamp bulb

1.CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

CONSULT ACTIVE TEST

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

On : Interior room lamp gradual brightening

Off : Interior room lamp gradual dimming

Does the interior room lamp turns ON/OFF?

YES >> Interior room lamp control circuit is normal.

NO >> Refer to [INL-52, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009238844

1.CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

CONSULT ACTIVE TEST

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

BCM		Ground	Test item		Continuity
Connector	Terminal				
M17	136		INT LAMP	On	Existed
				Off	Not existed

Is the inspection result normal?

YES >> GO TO 2.

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

NO-2 >> Continuity does not exist and remains unchanged: Replace BCM. Refer to [BCS-98, "Removal and Installation"](#).

2.CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

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

BCM		Map lamp		Continuity
Connector	Terminal	Connector	Terminal	
M17	136	R4	3	Existed

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

Personal lamp		Map lamp		Continuity
Connector	Terminal	Connector	Terminal	
R21	3	R4	2	Existed

INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- YES >> Replace map lamp or personal lamp. Refer to [INL-63, "MAP LAMP : Removal and Installation"](#) (map lamp) or [INL-73, "Removal and Installation"](#) (personal lamp).
- NO >> Repair or replace harnesses.

3.CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

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

BCM		Ground	Continuity
Connector	Terminal		
M17	136		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-98, "Removal and Installation"](#).
- NO >> Repair or replace harnesses.

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TRUNK ROOM LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

TRUNK ROOM LAMP CIRCUIT

Component Function Check

INFOID:000000009725184

NOTE:

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

- Interior room lamp power supply
- Trunk room lamp bulb

1.CHECK TRUNK ROOM LAMP OPERATION

CONSULT ACTIVE TEST

1. Turn ignition switch ON.
2. Select "TRUNK/LUGGAGE LAMP TEST" of BCM (INTELLIGENT KEY) active test item.
3. With operating the test items, check that trunk room lamp turns ON/OFF.

On : Trunk room lamp ON

Off : Trunk room lamp OFF

Does the trunk room lamp turn ON/OFF?

YES >> Trunk room lamp circuit is normal.

NO >> Refer to [INL-58, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009725185

1.CHECK TRUNK ROOM LAMP OUTPUT

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

BCM		Ground	Condition		Continuity
Connector	Terminal				
M15	85		Trunk lid	Open	Existed
				Closed	Not existed

Is the inspection result normal?

YES >> GO TO 2.

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

NO-2 >> Continuity does not exist and remains unchanged: Replace BCM. Refer to [BCS-98, "Removal and Installation"](#).

2.CHECK TRUNK ROOM LAMP OPEN CIRCUIT

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

BCM		Trunk room lamp		Continuity
Connector	Terminal	Connector	Terminal	
M15	85	B67	2	Existed

Is the inspection result normal?

YES >> Replace trunk room lamp. Refer to [INL-76, "Removal and Installation"](#).

NO >> Repair or replace harnesses.

3.CHECK TRUNK ROOM LAMP SHORT CIRCUIT

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

TRUNK ROOM LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

BCM		Ground	Continuity
Connector	Terminal		
M15	85		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-98, "Removal and Installation"](#).
- NO >> Repair or replace harnesses.

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STEP LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

STEP LAMP CIRCUIT

Component Function Check

INFOID:000000009238848

NOTE:

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

- Interior room lamp power supply
- Step lamp bulb

1.CHECK STEP LAMP OPERATION

CONSULT ACTIVE TEST

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

On : Step lamp ON

Off : Step lamp OFF

Does the step lamp turn ON/OFF?

YES >> Step lamp circuit is normal.

NO >> Refer to [INL-56, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009238849

1.CHECK STEP LAMP OUTPUT

CONSULT ACTIVE TEST

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

BCM		Ground	Test item		Continuity
Connector	Terminal		STEP LAMP TEST	On	Existed
M13	21			Off	Not existed

Is the inspection result normal?

YES >> GO TO 2.

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

NO-2 >> Continuity does not exist and remains unchanged: Replace BCM. Refer to [BCS-98, "Removal and Installation"](#).

2.CHECK STEP LAMP OPEN CIRCUIT

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

BCM		Step lamp			Continuity
Connector	Terminal	Connector		Terminal	
M13	21	Driver side	D16	2	Existed
		Passenger side	D30		

Is the inspection result normal?

YES >> Replace step lamp. Refer to [INL-71, "Removal and Installation"](#).

NO >> Repair or replace harnesses.

3.CHECK STEP LAMP SHORT CIRCUIT

STEP LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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

BCM		Ground	Continuity
Connector	Terminal		
M13	21		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-98, "Removal and Installation"](#).
NO >> Repair or replace harnesses.

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OUTSIDE HANDLE LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

OUTSIDE HANDLE LAMP CIRCUIT

Component Function Check

INFOID:000000009725186

NOTE:

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

- Interior room lamp power supply

1.CHECK OUTSIDE HANDLE LAMP OPERATION

CONSULT ACTIVE TEST

1. Turn ignition switch ON.
2. Select "DOOR HANDLE LAMP TEST" of BCM (INTELLIGENT KEY) active test item.
3. With operating the test items, check that outside handle lamp turns ON/OFF.

On : Outside handle lamp ON

Off : Outside handle lamp OFF

Does the outside handle lamp turn ON/OFF?

YES >> Outside handle lamp circuit is normal.

NO >> Refer to [INL-58, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009725187

1.CHECK OUTSIDE HANDLE LAMP OUTPUT

CONSULT ACTIVE TEST

1. Turn ignition switch OFF.
2. Disconnect outside handle lamp connector (ALL).
3. Turn ignition switch ON.
4. Select "DOOR HANDLE LAMP TEST" of BCM (INTELLIGENT KEY) active test item.
5. With operating the test item, check continuity between BCM harness connector and ground.

BCM		Ground	Test item		Continuity
Connector	Terminal				
M14	65		DOOR HANDLE LAMP TEST	On	Existed
				Off	Not existed

Is the inspection result normal?

YES >> GO TO 2.

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

NO-2 >> Continuity does not exist and remains unchanged: Replace BCM. Refer to [BCS-98, "Removal and Installation"](#).

2.CHECK OUTSIDE HANDLE LAMP OPEN CIRCUIT

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

BCM		Outside handle lamp			Continuity
Connector	Terminal	Connector		Terminal	
M14	65	Driver side	D5	4	Existed
		Passenger side	D19		

Is the inspection result normal?

YES >> Replace front outside handle assembly. Refer to [DLK-224, "OUTSIDE HANDLE : Removal and Installation"](#).

NO >> Repair or replace harnesses.

3.CHECK OUTSIDE HANDLE LAMP SHORT CIRCUIT

OUTSIDE HANDLE LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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

BCM		Ground	Continuity
Connector	Terminal		
M14	65		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-98, "Removal and Installation"](#).
NO >> Repair or replace harnesses.

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PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

Component Function Check

INFOID:000000009238853

1.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION OPERATION

CONSULT ACTIVE TEST

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

On : Push-button ignition switch illumination ON

Off : Push-button ignition switch illumination OFF

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

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

NO >> Refer to [INL-60, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009725382

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

CONSULT ACTIVE TEST

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

(+)		(-)	Condition		Voltage
BCM					
Connector	Terminal				
M14	48	Ground	ENGINE SW ILLUMI	On	9 V
				Off	0 V

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace BCM. Refer to [BCS-98, "Removal and Installation"](#).

2.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION GROUND

CONSULT ACTIVE TEST

With operating the test item, check continuity between BCM harness connector and ground.

BCM		Ground	Test item		Continuity
Connector	Terminal				
M16	107		ENGINE SW ILLUMI	On	Existed
				Off	Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO-1 >> Continuity exists and remains unchanged: GO TO 4.

NO-2 >> Continuity does not exist and remains unchanged: Replace BCM. Refer to [BCS-98, "Removal and Installation"](#).

3.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

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

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

BCM		Push-button ignition switch		Continuity
Connector	Terminal	Connector	Terminal	
M14	48	M38	5	Existed

BCM		Push-button ignition switch		Continuity
Connector	Terminal	Connector	Terminal	
M16	107	M38	6	Existed

Is the inspection result normal?

- YES >> Replace push-button ignition switch.
NO >> Repair or replace harnesses.

4.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION SHORT CIRCUIT

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

Push-button ignition switch		Ground	Continuity
Connector	Terminal		
M16	107		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-98, "Removal and Installation"](#).
NO >> Repair or replace harnesses.

INL

INTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

INFOID:000000009238855

NOTE:

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

Symptom	Possible cause	Inspection item
All the following lamps do not turn ON. • Map lamp • Personal lamp • Vanity mirror lamp • Step lamp • Outside handle lamp • Trunk room lamp	• Harness between BCM and each interior room lamp • BCM	Interior room lamp power supply circuit Refer to INL-50, "Component Function Check" .
• Interior room lamp does not turn ON even though the door is open. (It turns ON when turning the interior room lamp ON.) • Interior room lamp does not turn OFF even though the door is closed.	• Harness between BCM and each door switch • Harness between BCM and each interior room lamp • BCM	Door switch circuit Refer to DLK-111, "Component Function Check" . Interior room lamp control circuit Refer to INL-52, "Component Function Check" .
Interior room lamp timer does not activate. (It turns ON/ OFF when the door opens/closes.)	—	Check the interior room lamp setting. Refer to INL-16, "INT LAMP : CONSULT Function (BCM - INT LAMP)" .
• Outside handle lamp does not turn ON even though the door is open. • Outside handle lamp does not turn OFF even though the door is closed.	• Harness between BCM and each door switch • Harness between BCM and outside handle lamp • BCM	Door switch circuit Refer to DLK-111, "Component Function Check" . Outside handle lamp circuit Refer to INL-58, "Component Function Check" .
• Trunk room lamp does not turn ON even though the trunk lid is open. • Trunk room lamp does not turn OFF even though the trunk lid is closed.	• Harness between BCM and trunk room lamp switch • Harness between BCM and trunk room lamp • BCM	Trunk room lamp switch circuit Refer to DLK-133, "Component Function Check" . Trunk room lamp circuit Refer to INL-54, "Component Function Check" .
• Step lamps (ALL) do not turn ON. • Step lamps (ALL) do not turn OFF.	• Harness between BCM and each door switch • Harness between BCM and each step lamp • BCM	Door switch circuit Refer to DLK-111, "Component Function Check" . Step lamp circuit Refer to INL-56, "Component Function Check" .
Push-button ignition switch illumination does not illuminate.	• Harness between BCM and push-button ignition switch • BCM	Push-button ignition switch illumination circuit Refer to INL-60, "Component Function Check" .
Interior room lamp battery saver does not activate.	BCM	Replace BCM. Refer to BCS-98, "Removal and Installation" .

MAP LAMP

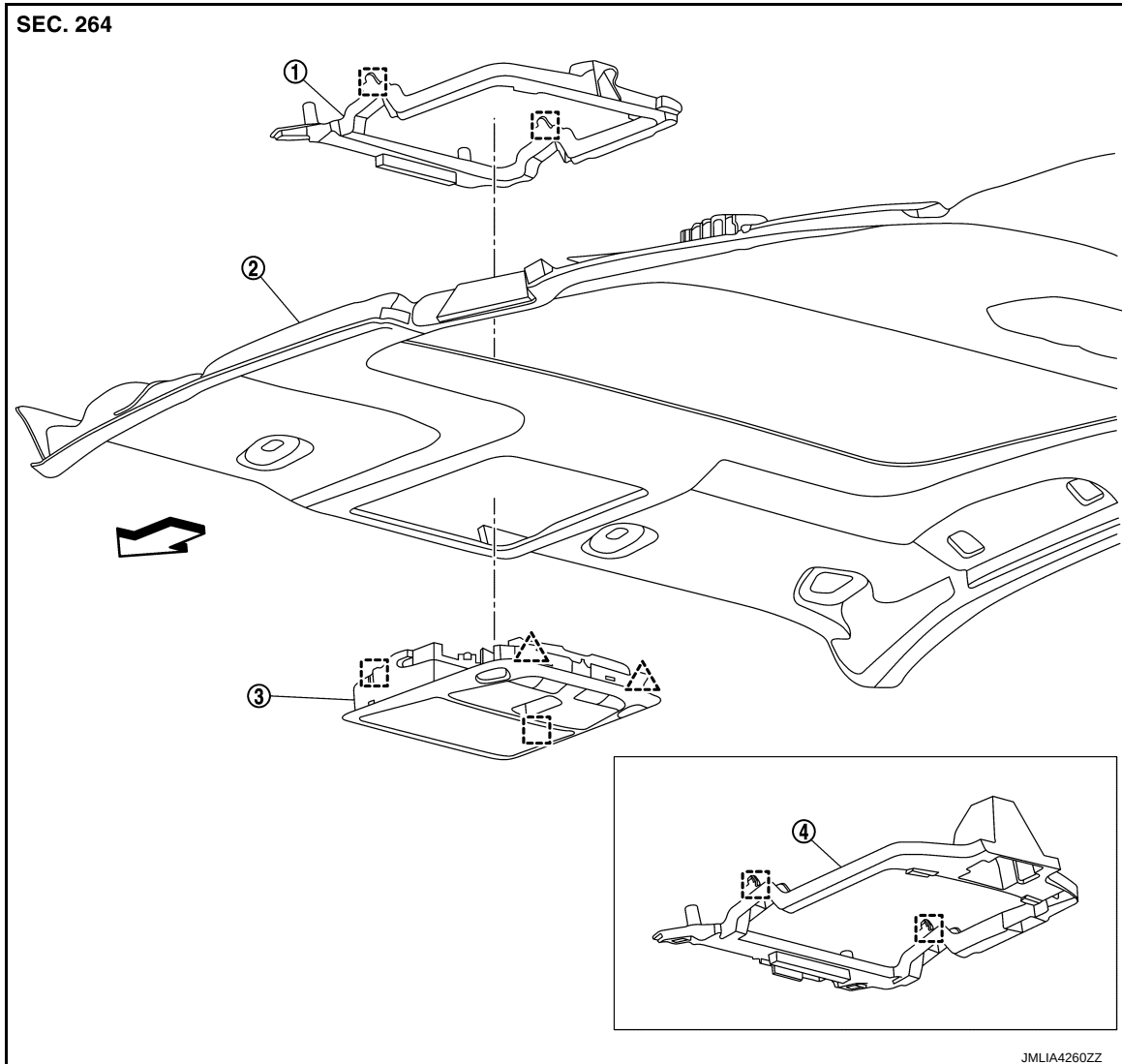
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

MAP LAMP

Exploded View

INFOID:000000009238856



① Map lamp bracket^{*1}

② Headlining assembly

③ Map lamp assembly

④ Map lamp bracket^{*2}

△ : Pawl

□ : Metal clip

← : Vehicle front

^{*1}: With sunroof

^{*2}: Without sunroof

MAP LAMP

MAP LAMP : Removal and Installation

INFOID:000000009238857

REMOVAL

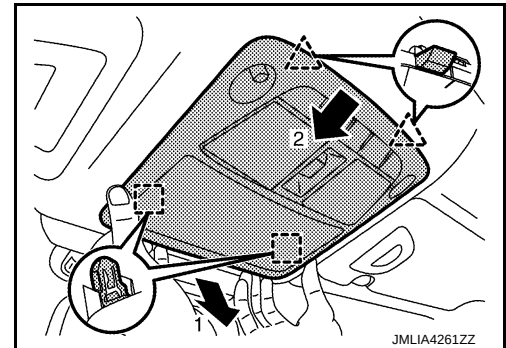
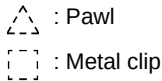
MAP LAMP

< REMOVAL AND INSTALLATION >

CAUTION:

- Disconnect the battery negative terminal or remove power circuit fuse when performing the operation for preventing electric leakage.
- The surface of the bulb is very hot just after the lamp is turned OFF. Never touch the glass surface of the bulb with bare hands for preventing burns.

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



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

INSTALLATION

Install in the reverse order of removal.

MAP LAMP : Replacement

INFOID:000000009238858

MAP LAMP BULB

CAUTION:

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

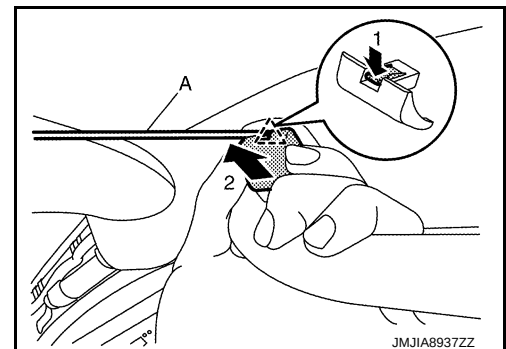
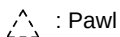
MAP LAMP BRACKET

MAP LAMP BRACKET : Removal and Installation

INFOID:000000009727046

REMOVAL

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

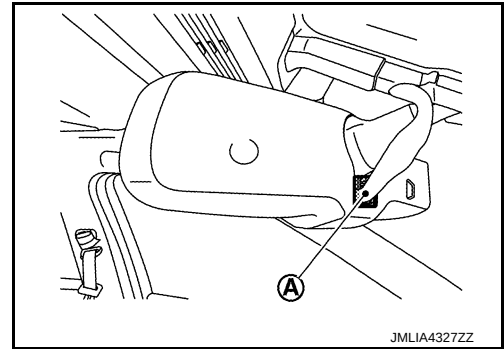


2. Remove center pillar upper garnish (LH and RH). Refer to [INT-29, "CENTER PILLAR UPPER GARNISH : Removal and Installation"](#).
3. Remove front pillar garnish (LH and RH). Refer to [INT-24, "FRONT PILLAR GARNISH : Removal and Installation"](#).

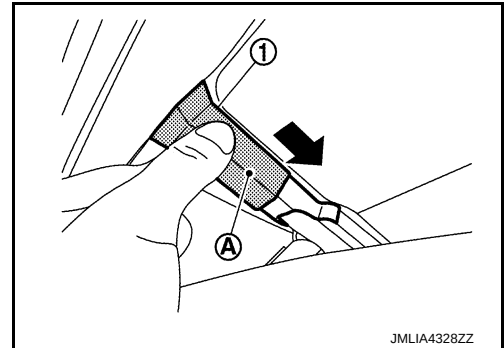
MAP LAMP

< REMOVAL AND INSTALLATION >

4. Disconnect inside mirror harness connector ①. (With auto anti-dazzling)

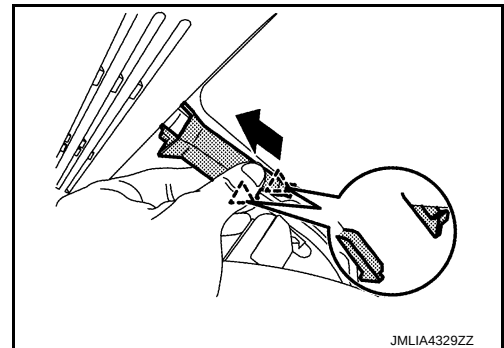


5. Remove inside mirror harness cover. (Without rain sensor)
 - a. Slide part ① of inside mirror harness cover ① in the direction of the arrow in the figure.



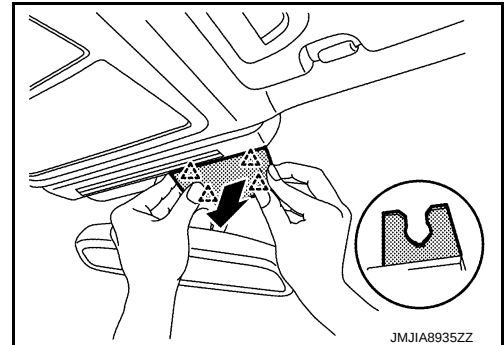
- b. Disengage inside mirror harness cover fixing pawls, and then remove inside mirror harness cover.

 : Pawl



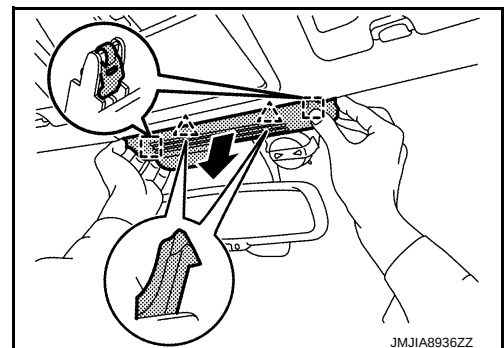
6. Disengage rain sensor cover fixing pawls, and then remove rain sensor cover. (With rain sensor)

 : Pawl



7. Disengage inside mirror cover fixing pawls and metal clips, and then remove inside mirror cover.

 : Pawl
 : Metal clip



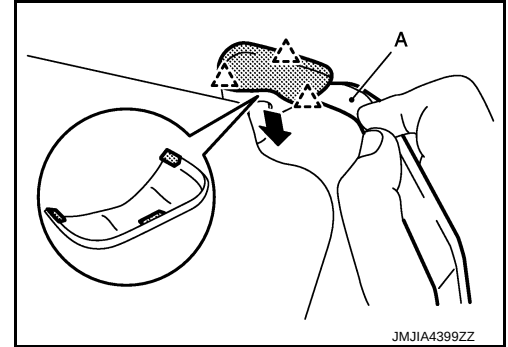
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MAP LAMP

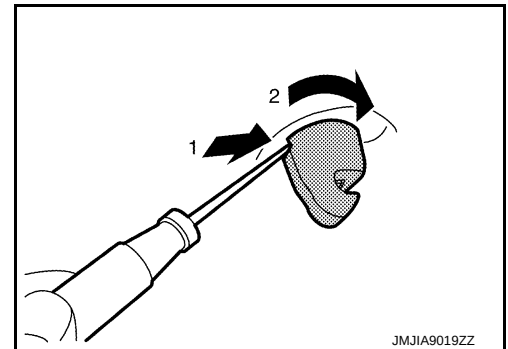
< REMOVAL AND INSTALLATION >

8. Remove map lamp assembly. Refer to [INL-63, "MAP LAMP : Removal and Installation"](#).
9. Remove sun visor assembly (LH and RH).
 - a. Disengage sun visor cover fixing pawls using a remover tool (A), and then remove sun visor cover (LH and RH).

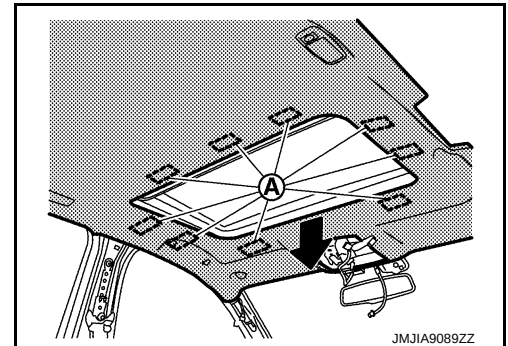
 : Pawl



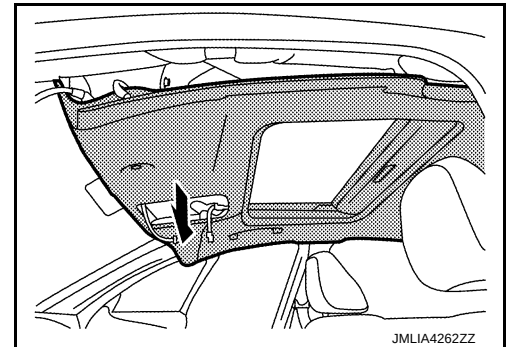
- b. Remove sun visor assembly fixing screws, and then disconnect vanity mirror lamp harness connector.
 - c. Remove sun visor assembly (LH and RH).
10. Remove sun visor holder (LH and RH) using a remover tool according to numerical order 1→2 indicated by arrows as shown in the figure.



11. Peel off dual lock fasteners (A) between headlining assembly and roof panel. (With sunroof)
CAUTION:
Never bend headlining when removing.



12. Remove front portion of headlining as shown in the figure.
CAUTION:
To prevent damage of the headlining assembly, hold the headlining assembly using a rope or tape before removal operation.

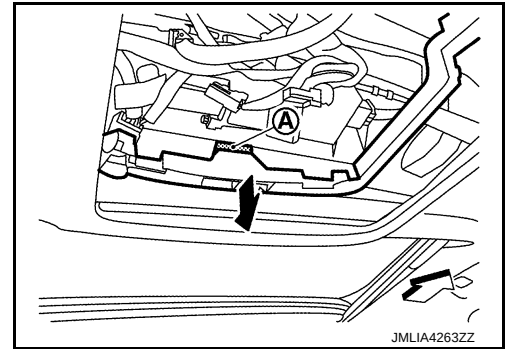


MAP LAMP

< REMOVAL AND INSTALLATION >

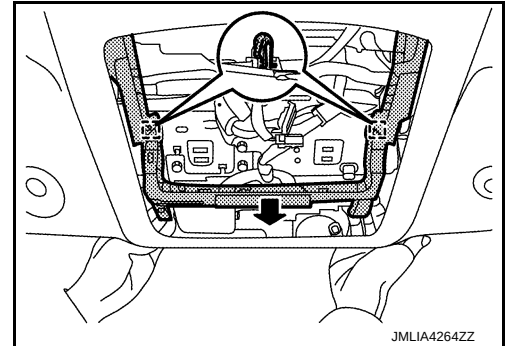
13. Disengage map lamp bracket fixing dual lock fastener ①.

← : Vehicle front

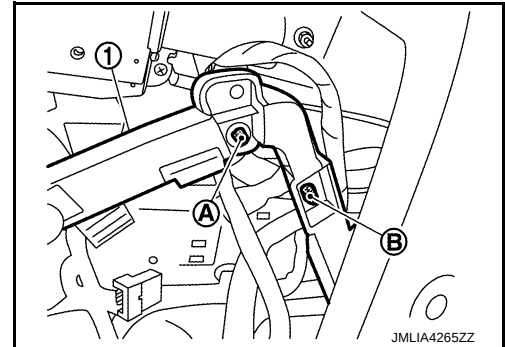


14. Disengage map lamp bracket fixing metal clips from between headlining assembly and roof panel.

□ : Metal clip



15. Remove harness connector fixing clips ① and ②, and then remove map lamp bracket ③ from between headlining assembly and roof panel.



INSTALLATION

Install in the reverse order of removal.

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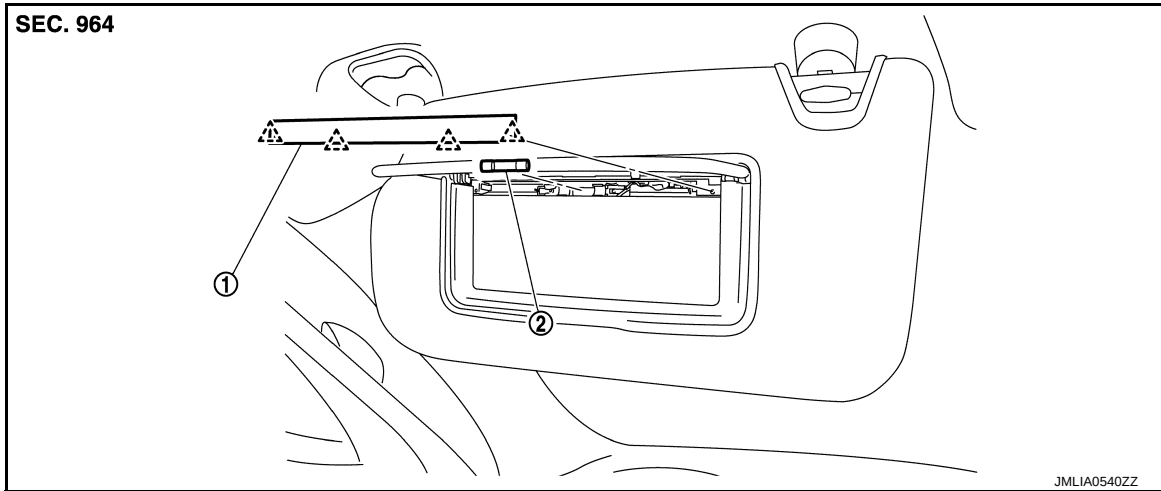
VANITY MIRROR LAMP

< REMOVAL AND INSTALLATION >

VANITY MIRROR LAMP

Exploded View

INFOID:000000009238859



Replacement

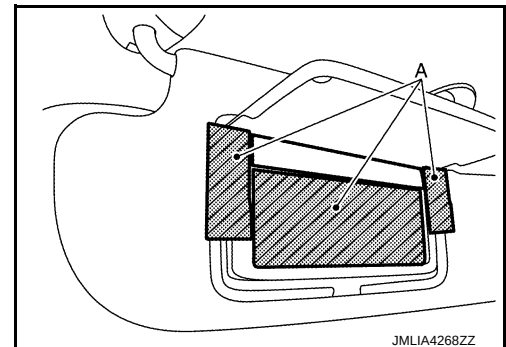
INFOID:000000009238860

VANITY MIRROR LAMP BULB

CAUTION:

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

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



VANITY MIRROR LAMP

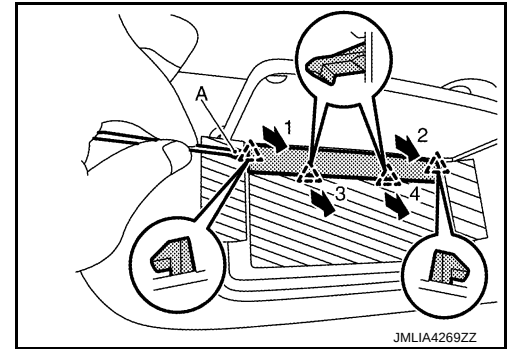
< REMOVAL AND INSTALLATION >

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

CAUTION:

Use a remover tool wrapped in tape.

 : Pawl



3. Remove bulb.

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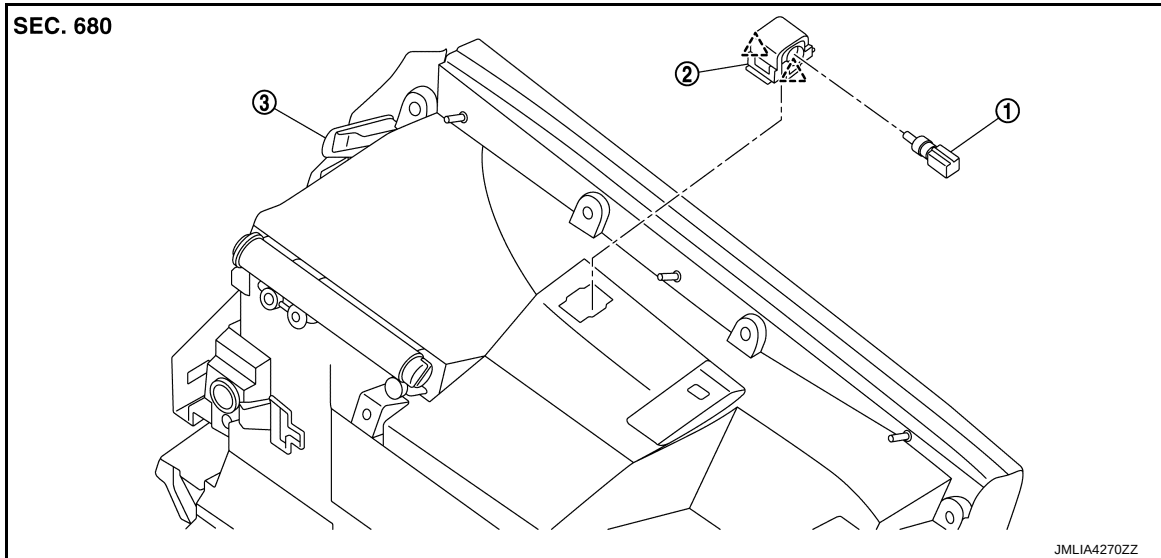
GLOVE BOX LAMP

< REMOVAL AND INSTALLATION >

GLOVE BOX LAMP

Exploded View

INFOID:000000009238867



① Bulb & socket assembly

② Lamp housing

③ Instrument lower panel RH

△ : Pawl

Replacement

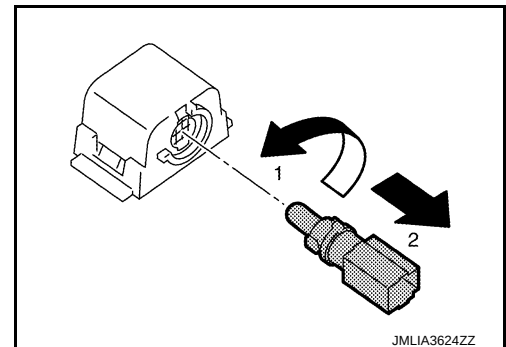
INFOID:000000009238869

GLOVE BOX LAMP BULB

CAUTION:

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

1. Remove instrument lower panel RH. Refer to [IP-12, "Removal and Installation"](#).
2. Remove bulb & socket assembly according to numerical order 1→2 indicated by arrows as shown in the figure.



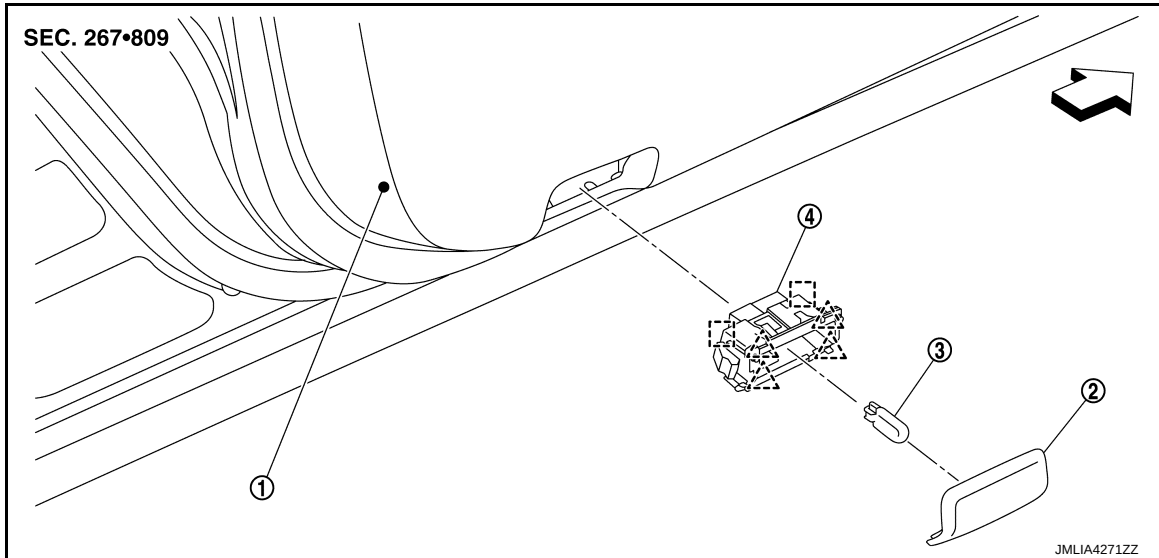
STEP LAMP

< REMOVAL AND INSTALLATION >

STEP LAMP

Exploded View

INFOID:000000009238876



① Front door finisher

② Lens

③ Bulb

④ Step lamp base

△ : Pawl

□ : Metal clip

← : Vehicle front

Removal and Installation

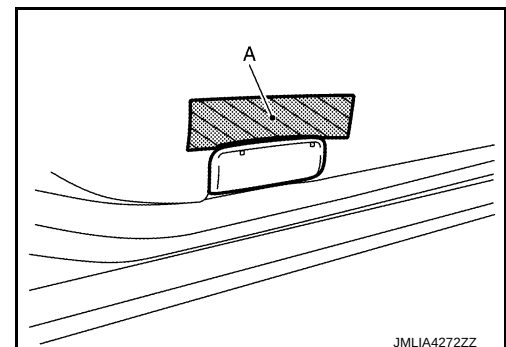
INFOID:000000009238877

REMOVAL

CAUTION:

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

1. Apply protective tape (A) to front door finisher for protecting it from damage.

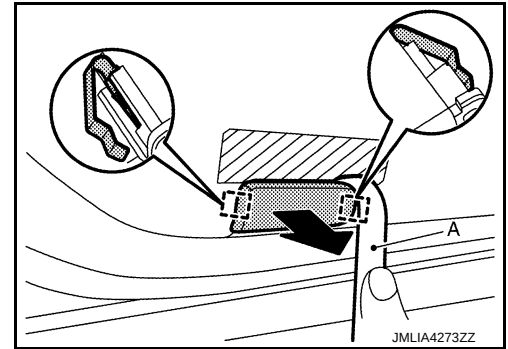


STEP LAMP

< REMOVAL AND INSTALLATION >

2. Disengage step lamp assembly fixing metal clips using a remover tool (A).

 : Metal clip



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

INSTALLATION

Install in the reverse order of removal.

Replacement

INFOID:000000009238878

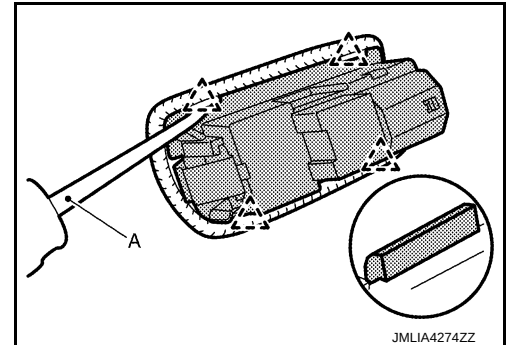
STEP LAMP BULB

CAUTION:

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

1. Remove step lamp assembly. Refer to [INL-71, "Removal and Installation"](#).
2. Disengage lens fixing pawls using a remover tool (A), and then remove lens.

 : Pawl



3. Remove bulb.

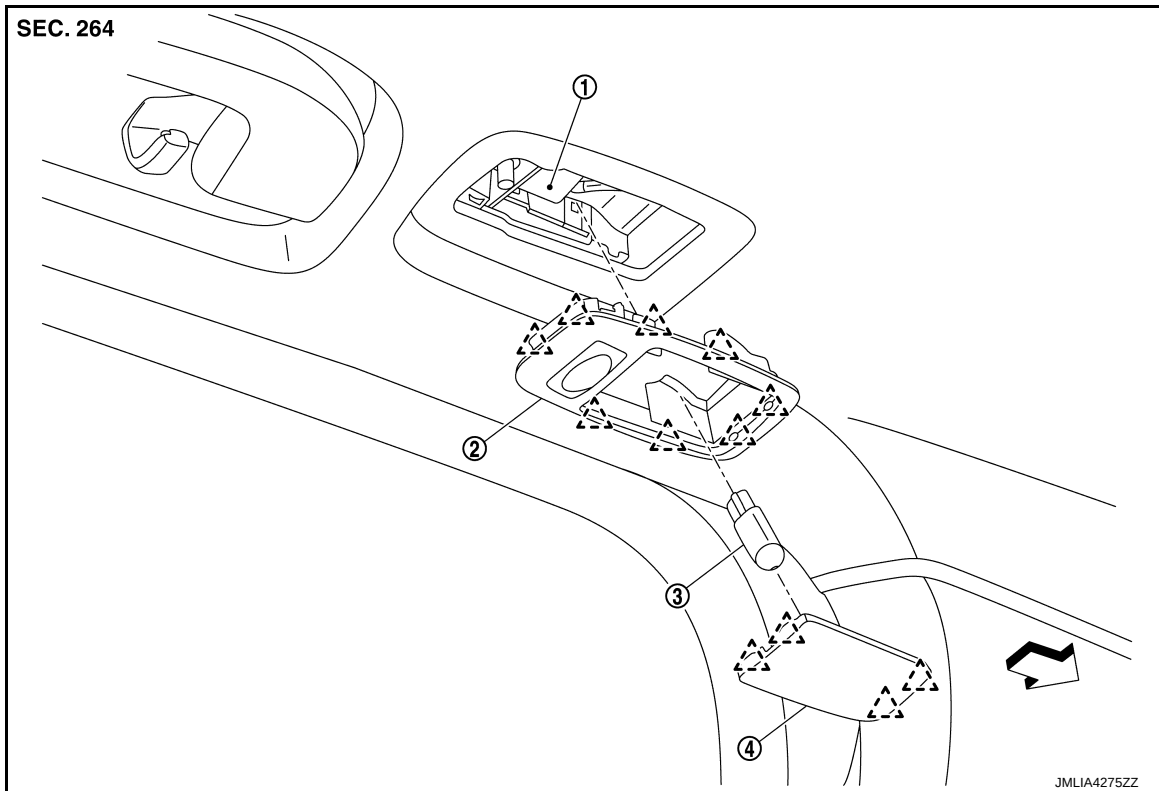
PERSONAL LAMP

< REMOVAL AND INSTALLATION >

PERSONAL LAMP

Exploded View

INFOID:000000009238879



① Personal lamp base

② Personal lamp finisher

③ Bulb

④ Lens

△ : Pawl

← : Vehicle front

Removal and Installation

INFOID:000000009238880

REMOVAL

CAUTION:

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

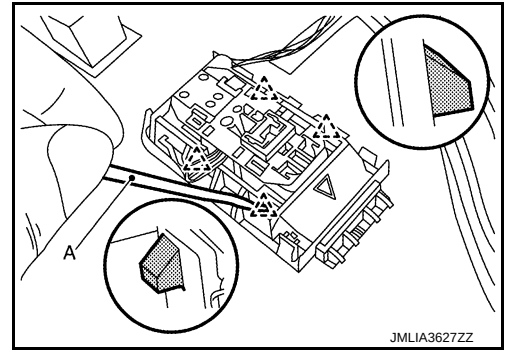
1. Remove headlining assembly. Refer to [INT-42, "Removal and Installation"](#).

PERSONAL LAMP

< REMOVAL AND INSTALLATION >

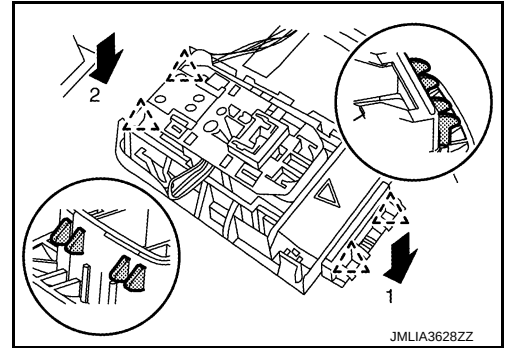
2. Disengage personal lamp finisher fixing pawls using a remover tool (A).

 : Pawl



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

 : Pawl



4. Remove personal lamp base from headlining assembly.

INSTALLATION

Install in the reverse order of removal.

Replacement

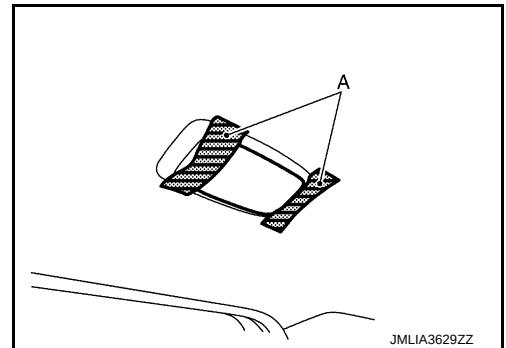
INFOID:000000009238881

PERSONAL LAMP BULB

CAUTION:

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

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

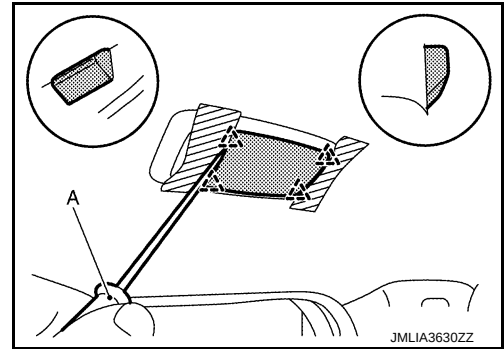


PERSONAL LAMP

< REMOVAL AND INSTALLATION >

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

 : Pawl



3. Remove bulb.

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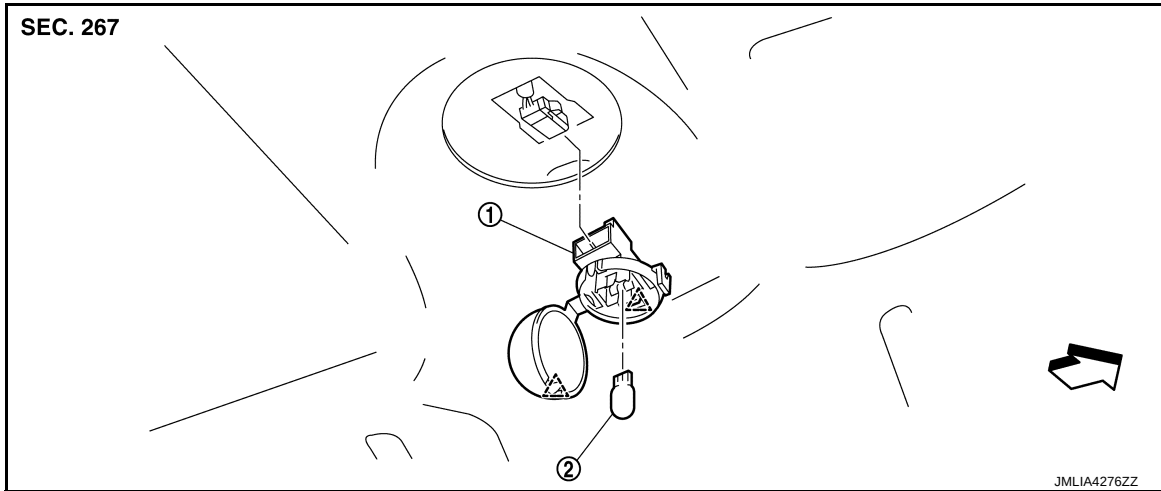
TRUNK ROOM LAMP

< REMOVAL AND INSTALLATION >

TRUNK ROOM LAMP

Exploded View

INFOID:000000009238883



- ① Trunk room lamp housing ② Bulb

△ : Pawl

⇨ : Vehicle front

Removal and Installation

INFOID:000000009238884

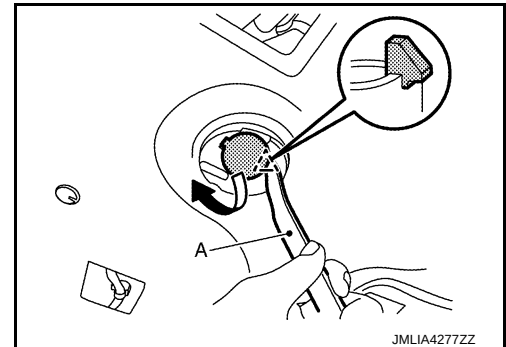
REMOVAL

CAUTION:

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

1. Disengage trunk room lamp housing cover fixing pawl using a remover tool (A), and then open trunk room lamp housing cover.

△ : Pawl



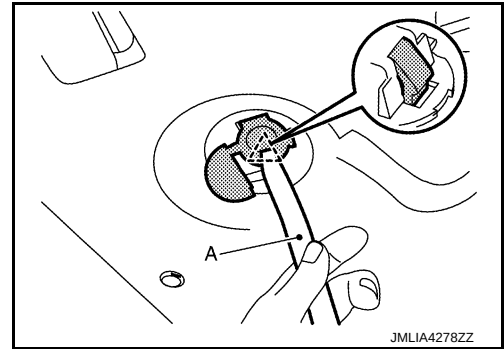
2. Remove bulb.

TRUNK ROOM LAMP

< REMOVAL AND INSTALLATION >

3. Disengage trunk room lamp housing fixing pawl using a remover tool (A).

 : Pawl



4. Disconnect trunk room lamp harness connector, and then remove trunk room lamp housing.

INSTALLATION

Install in the reverse order of removal.

Replacement

INFOID:000000009238885

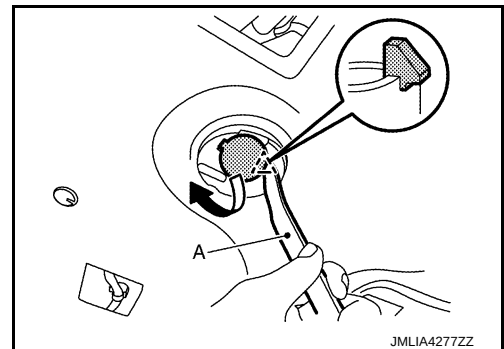
TRUNK ROOM LAMP BULB

CAUTION:

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

1. Disengage trunk room lamp housing cover fixing pawl using a remover tool (A), and then open trunk room lamp housing cover.

 : Pawl



2. Remove bulb.

OUTSIDE HANDLE LAMP

< REMOVAL AND INSTALLATION >

OUTSIDE HANDLE LAMP

Exploded View

INFOID:000000009728582

Refer to [DLK-223, "Exploded View"](#).

Replacement

INFOID:000000009238882

Always replace outside handle lamp together with outside handle as a set, when replacing since outside handle lamp is integrated with outside handle. Refer to [DLK-224, "OUTSIDE HANDLE : Removal and Installation"](#).

SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

bulb specifications

INFOID:000000009238886

Item	Type	Wattage (W)
Push-button ignition switch illumination	LED	—
Map lamp	LED	—
Console lamp (Integrated into map lamp assembly)	LED	—
Vanity mirror lamp	—	1.8
Glove box lamp	—	2.0
Step lamp	Wedge	5.0
Personal lamp	Wedge	8.0
Trunk room lamp	Wedge	3.4
Outside handle lamp	LED	—

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