

A
B
C

SECTION INL

INTERIOR LIGHTING SYSTEM

D
E

CONTENTS

<p>PRECAUTION 3</p> <p>PRECAUTIONS 3</p> <p style="padding-left: 20px;">Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"3</p> <p style="padding-left: 20px;">Precaution for Work3</p> <p>PREPARATION 4</p> <p>PREPARATION 4</p> <p style="padding-left: 20px;">Special Service Tool4</p> <p>SYSTEM DESCRIPTION 5</p> <p>COMPONENT PARTS 5</p> <p>INTERIOR ROOM LAMP CONTROL SYSTEM5</p> <p style="padding-left: 20px;">INTERIOR ROOM LAMP CONTROL SYSTEM : Component Parts Location5</p> <p style="padding-left: 20px;">INTERIOR ROOM LAMP CONTROL SYSTEM : Component Description6</p> <p>ILLUMINATION CONTROL SYSTEM6</p> <p style="padding-left: 20px;">ILLUMINATION CONTROL SYSTEM : Component Parts Location6</p> <p style="padding-left: 20px;">ILLUMINATION CONTROL SYSTEM : Component Description7</p> <p>SYSTEM 8</p> <p>INTERIOR ROOM LAMP CONTROL SYSTEM8</p> <p style="padding-left: 20px;">INTERIOR ROOM LAMP CONTROL SYSTEM : System Diagram8</p> <p style="padding-left: 20px;">INTERIOR ROOM LAMP CONTROL SYSTEM : System Description9</p> <p>ILLUMINATION CONTROL SYSTEM 10</p> <p style="padding-left: 20px;">ILLUMINATION CONTROL SYSTEM : System Diagram 10</p> <p style="padding-left: 20px;">ILLUMINATION CONTROL SYSTEM : System Description 10</p>	<p style="text-align: right;">F</p> <p>DIAGNOSIS SYSTEM (BCM) (WITH INTELLIGENT KEY SYSTEM)11</p> <p>COMMON ITEM11</p> <p style="padding-left: 20px;">COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)11</p> <p>DOOR LOCK12</p> <p style="padding-left: 20px;">DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)12</p> <p>INT LAMP12</p> <p style="padding-left: 20px;">INT LAMP : CONSULT Function (BCM - INT LAMP)12</p> <p>INTELLIGENT KEY13</p> <p style="padding-left: 20px;">INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)13</p> <p>BATTERY SAVER16</p> <p style="padding-left: 20px;">BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)16</p> <p>DIAGNOSIS SYSTEM (BCM) (WITHOUT INTELLIGENT KEY SYSTEM) 17</p> <p>COMMON ITEM17</p> <p style="padding-left: 20px;">COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)17</p> <p>DOOR LOCK18</p> <p style="padding-left: 20px;">DOOR LOCK : CONSULT Function (BCM - DOOR LOCK) 18</p> <p>INT LAMP18</p> <p style="padding-left: 20px;">INT LAMP : CONSULT Function (BCM - INT LAMP)18</p> <p>BATTERY SAVER20</p> <p style="padding-left: 20px;">BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)20</p> <p>ECU DIAGNOSIS INFORMATION21</p>
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BCM	21	Component Function Check	45
List of ECU Reference	21	Diagnosis Procedure	45
WIRING DIAGRAM	22	PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT	47
INTERIOR ROOM LAMP CONTROL SYSTEM		Description	47
.....	22	Component Function Check	47
Wiring Diagram	22	Diagnosis Procedure	47
ILLUMINATION	28	SYMPTOM DIAGNOSIS	49
Wiring Diagram	28	INTERIOR LIGHTING SYSTEM SYMPTOMS...	49
BASIC INSPECTION	37	Symptom Table	49
DIAGNOSIS AND REPAIR WORKFLOW	37	REMOVAL AND INSTALLATION	50
Work Flow	37	MAP LAMP	50
DTC/CIRCUIT DIAGNOSIS	39	Exploded View	50
POWER SUPPLY AND GROUND CIRCUIT	39	Removal and Installation	50
BCM (BODY CONTROL SYSTEM) (WITH INTELLIGENT KEY SYSTEM)	39	Bulb Replacement	51
BCM (BODY CONTROL SYSTEM) (WITH INTELLIGENT KEY SYSTEM) : Diagnosis Procedure	39	INTERIOR ROOM LAMP	52
BCM (BODY CONTROL SYSTEM) (WITHOUT INTELLIGENT KEY SYSTEM)	39	Removal and Installation	52
BCM (BODY CONTROL SYSTEM) (WITHOUT INTELLIGENT KEY SYSTEM) : Diagnosis Procedure	39	Bulb Replacement	52
BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT	41	CONSOLE LAMP	53
Description	41	Removal and Installation	53
Component Function Check	41	Bulb Replacement	53
Diagnosis Procedure	41	TRUNK ROOM LAMP	54
INTERIOR ROOM LAMP CONTROL CIRCUIT		Exploded View	54
.....	43	Removal and Installation	54
Description	43	Bulb Replacement	55
Component Function Check	43	ILLUMINATION CONTROL SWITCH	56
Diagnosis Procedure	43	Removal and Installation	56
TRUNK ROOM LAMP CIRCUIT	45	SERVICE DATA AND SPECIFICATIONS (SDS)	57
Description	45	SERVICE DATA AND SPECIFICATIONS (SDS)	57
		Bulb Specifications	57
		Bulb Specifications	57

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000009269220

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 SR and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which 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 the SR section.
- Do not 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:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precaution for Work

INFOID:000000009269221

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:
 - Water soluble dirt:
 - Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
 - Then rub with a soft, dry cloth.
 - Oily dirt:
 - Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
 - Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
 - Then rub with a soft, dry cloth.
 - Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
 - For genuine leather seats, use a genuine leather seat cleaner.

PREPARATION

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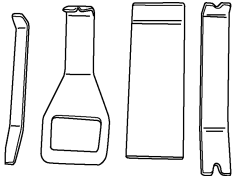
PREPARATION

PREPARATION

Special Service Tool

INFOID:000000009269222

The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name	Description
— (J-46534) Trim Tool Set  AWJ1A0483ZZ	Removing trim components

COMPONENT PARTS

< SYSTEM DESCRIPTION >

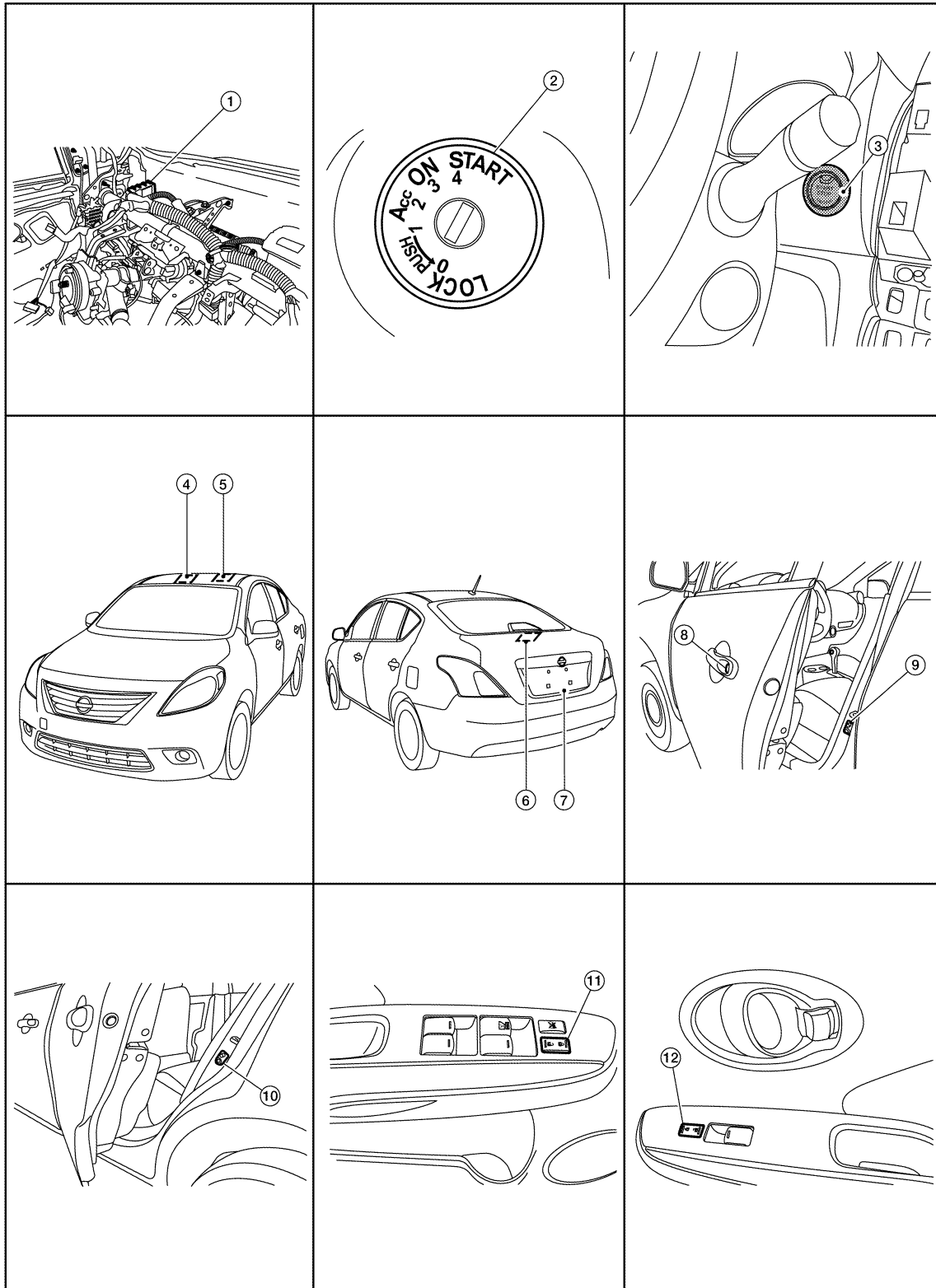
SYSTEM DESCRIPTION

COMPONENT PARTS

INTERIOR ROOM LAMP CONTROL SYSTEM

INTERIOR ROOM LAMP CONTROL SYSTEM : Component Parts Location

INFOID:000000009269223



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COMPONENT PARTS

< SYSTEM DESCRIPTION >

- | | | |
|---|---|---|
| 1. BCM (view with instrument panel removed) | 2. Key switch (without Intelligent Key) | 3. Push-button ignition switch (with Intelligent Key) |
| 4. Map lamp (if equipped) | 5. Interior room lamp | 6. Trunk room lamp |
| 7. Trunk lid lock assembly (with Intelligent Key)
Trunk lid switch (without Intelligent Key) | 8. Front door lock key cylinder switch LH | 9. Front door switch LH (RH similar) |
| 10. Rear door switch LH (RH similar) | 11. Main power window and door lock/unlock switch | 12. Power window and door lock/unlock switch RH |

INTERIOR ROOM LAMP CONTROL SYSTEM : Component Description

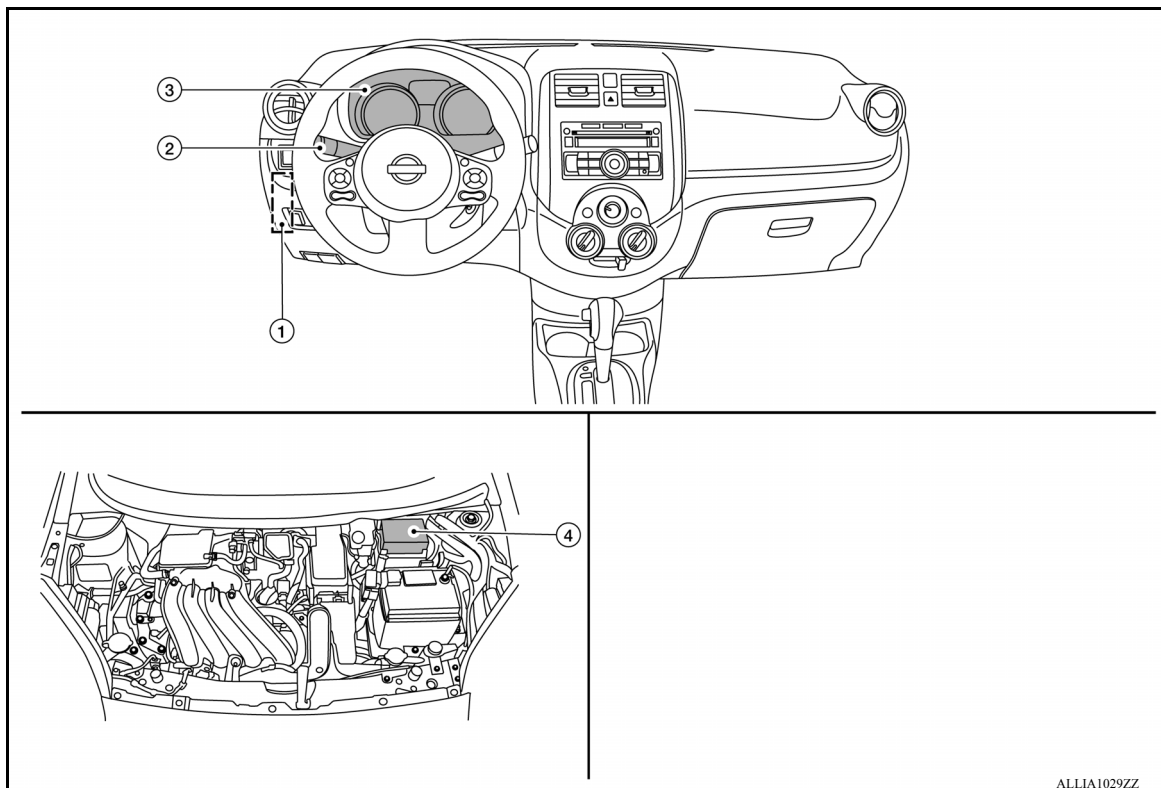
INFOID:000000009269224

Part name	Description
BCM	Provides power and ground and controls timer functions for the interior room lamp, map lamp (if equipped) and trunk room lamp.
Push-button ignition switch (with Intelligent Key)	Provides ignition switch status to the BCM.
Key switch (without Intelligent Key)	Provides key in ignition switch status to the BCM.
Door switches	Provides door OPEN/CLOSED status to the BCM.
Main power window and door lock/unlock switch	Provides door lock/unlock switch LH status to the BCM.
Power window and door lock/unlock switch RH	Provides door lock/unlock switch RH status to the BCM.
Front door lock key cylinder switch LH	Provides door lock/unlock switch LH status to the BCM.
Trunk lid lock assembly (with Intelligent Key) Trunk lid switch (without Intelligent Key)	Provides trunk lid OPEN/CLOSED status to the BCM.

ILLUMINATION CONTROL SYSTEM

ILLUMINATION CONTROL SYSTEM : Component Parts Location

INFOID:000000009269225



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- | | | |
|---|---|--|
| 1. BCM (located behind left side of instrument panel) | 2. Combination switch (lighting and turn signal switch) | 3. Combination meter (illumination control switch) |
| 4. IPDM E/R | | |

COMPONENT PARTS

< SYSTEM DESCRIPTION >

ILLUMINATION CONTROL SYSTEM : Component Description

INFOID:000000009269226

Part name	Description
BCM	The BCM monitors the combination switch (lighting and turn signal switch) position. The BCM requests, via CAN communication, that the IPDM E/R activate the tail lamp relay.
IPDM E/R	The IPDM E/R activates the tail lamp relay based on inputs received from the BCM via the CAN communication network.
Combination meter (illumination control switch)	The illumination control switch is a part of the combination meter. The combination meter controls illumination intensity by varying resistance to the illumination lamps based on the illumination control switch position.
Combination switch (lighting and turn signal switch)	The combination switch (lighting and turn signal switch) provides input to the BCM about the combination switch (lighting and turn signal switch) position.

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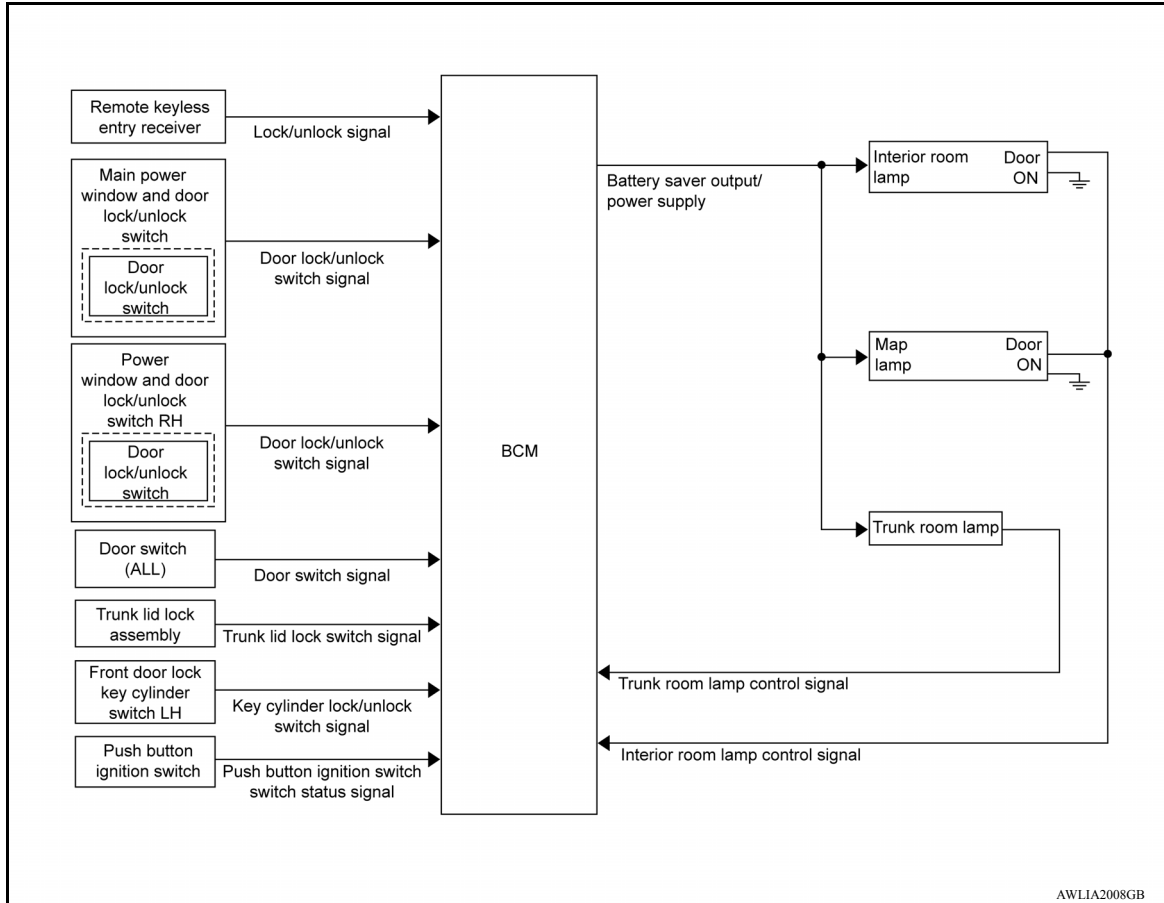
SYSTEM

INTERIOR ROOM LAMP CONTROL SYSTEM

INTERIOR ROOM LAMP CONTROL SYSTEM : System Diagram

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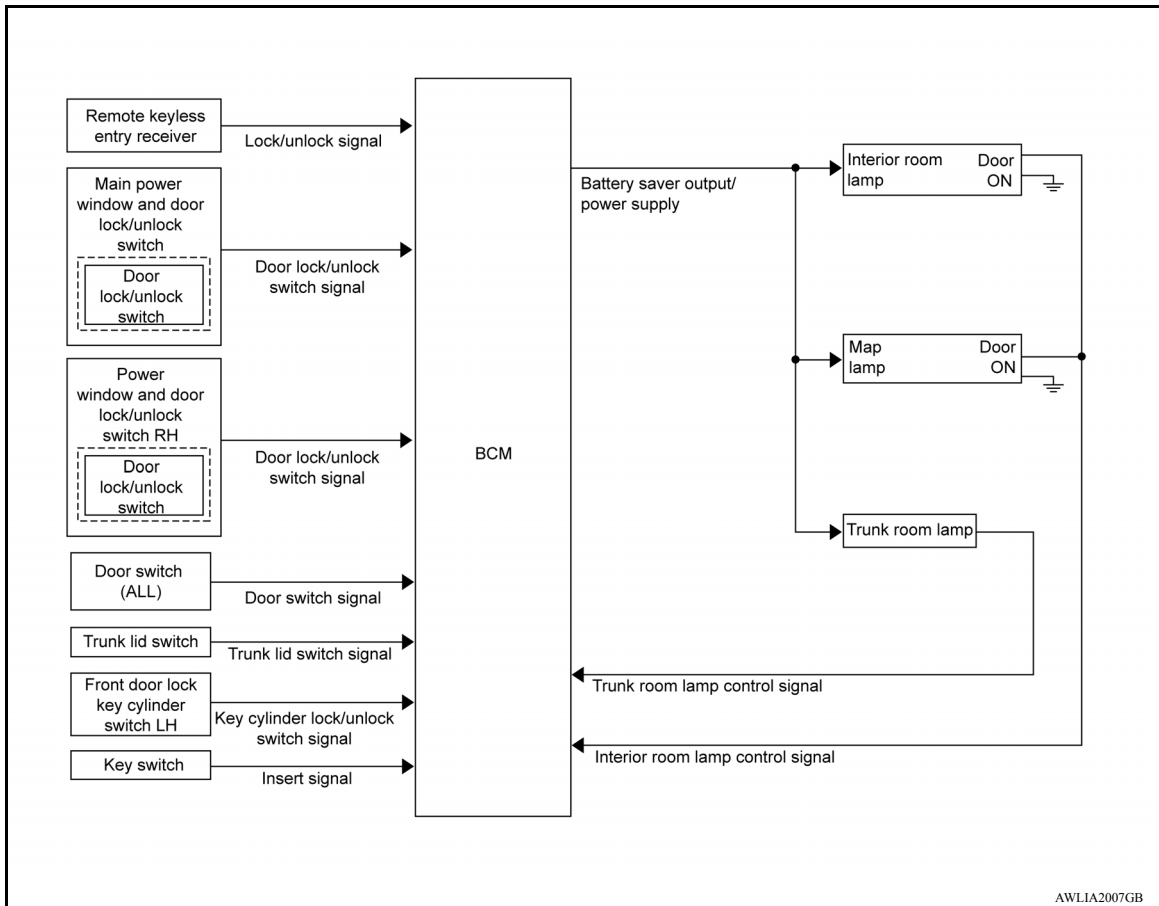
WITH INTELLIGENT KEY



SYSTEM

< SYSTEM DESCRIPTION >

WITHOUT INTELLIGENT KEY



INTERIOR ROOM LAMP CONTROL SYSTEM : System Description

INFOID:000000009269228

OUTLINE

- Interior room lamp* is controlled by the interior room lamp timer control function of the BCM.
 - Trunk room lamp is controlled by the trunk room lamp control function of the BCM.
- The timer control functions of the BCM activate based on inputs from the key cylinder lock/unlock switch LH, the door switches, the key switch and door lock/unlock switches.

*Interior room lamp and map lamp (if equipped) (when lamp switch is in DOOR position).

ROOM LAMP TIMER OPERATION

When the interior room lamp switch is in the DOOR position and when all conditions below are met, the BCM begins timer control (maximum 30 seconds) for interior room lamp ON/OFF.

- When the front door LH is unlocked with key fob, main power window and door lock/unlock switch, power window and door lock/unlock switch RH or front door lock assembly LH (key cylinder switch).
- When a door opens → closes and the push-button ignition switch is not pressed (with Intelligent Key).
- When a door opens → closes and the key is not inserted in the ignition switch (without Intelligent Key).

Timer control is cancelled under the following conditions.

- When the front door LH is locked with key fob, main power window and door lock/unlock switch, power window and door lock/unlock switch RH or front door lock assembly LH (key cylinder switch).
- A door is opened (door switch turns ON).
- Ignition switch is turned ON.

Interior lamp operational settings can be changed with the function setting of CONSULT.

INTERIOR LAMP BATTERY SAVER CONTROL

If an interior lamp is left ON and does not turn OFF even when the doors are closed, the BCM turns off power to the interior lamps automatically to save the battery 10 minutes after the ignition switch is turned OFF. The BCM controls power and ground to all interior lamps.

SYSTEM

< SYSTEM DESCRIPTION >

After the battery saver system turns the lamps OFF, the lamps will illuminate again when

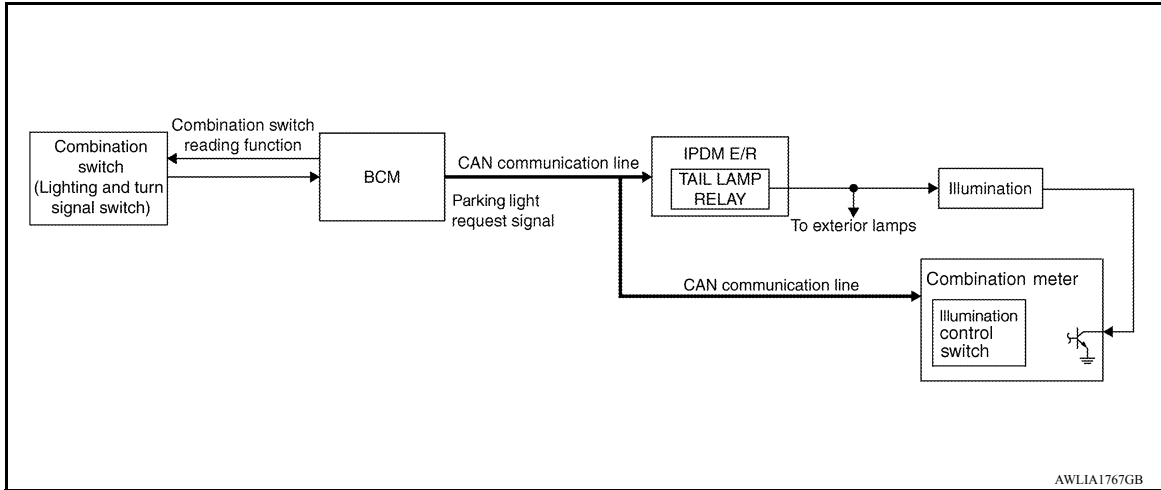
- a signal is received from a key fob, main power window and door lock/unlock switch, power window and door lock/unlock switch RH or when the front door lock assembly LH (key cylinder switch) is locked or unlocked
- a door is opened or closed
- the key is removed from or inserted into the ignition switch (without Intelligent Key).

The interior lamp battery saver control time period can be changed with the function setting of CONSULT.

ILLUMINATION CONTROL SYSTEM

ILLUMINATION CONTROL SYSTEM : System Diagram

INFOID:000000009269229



ILLUMINATION CONTROL SYSTEM : System Description

INFOID:000000009269230

The illumination lamps operation is dependent upon the position of the combination switch (lighting and turn signal switch). When the combination switch (lighting and turn signal switch) is placed in the 1ST or 2ND position the BCM (body control module) receives input requesting the parking lamps to illuminate. This input is communicated to the IPDM E/R (intelligent power distribution module engine room) via the CAN communication lines. The CPU (central processing unit) of the IPDM E/R controls the tail lamp relay coil. When energized, this relay directs power to the parking and illumination lamps, which then illuminate.

BATTERY SAVER CONTROL

When the combination switch (lighting and turn signal switch) is in the 1st or 2nd position and the ignition switch is turned from ON or ACC to OFF, the battery saver control feature is activated. Under this condition, the illumination lamps remain illuminated for 10 minutes unless the combination switch (lighting and turn signal switch) position is changed. If the combination switch (lighting and turn signal switch) position is changed, then the illumination lamps are turned off after a 15 second delay. When the combination switch (lighting and turn signal switch) is turned from OFF to 1st or 2nd position after illumination lamps have been turned off by the battery saver control, the illumination lamps illuminate again.

DIAGNOSIS SYSTEM (BCM) (WITH INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM) (WITH INTELLIGENT KEY SYSTEM) COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:000000009546750

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Direct Diagnostic Mode	Description
ECU identification	The BCM part number is displayed.
Self Diagnostic Result	The BCM self diagnostic results are displayed.
Data Monitor	The BCM input/output data is displayed in real time.
Active Test	The BCM activates outputs to test components.
Work support	The settings for BCM functions can be changed.
Configuration	<ul style="list-style-type: none"> The vehicle specification can be read and saved. The vehicle specification can be written when replacing BCM.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication is displayed.

SYSTEM APPLICATION

BCM can perform the following functions.

System	Sub System	Direct Diagnostic Mode						
		ECU identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN DIAG SUPPORT MNTR
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 conditioner	AIR CONDITIONER			×				
Intelligent Key system	INTELLIGENT KEY		×	×	×	×		
Combination switch	COMB SW			×				
BCM	BCM	×	×			×	×	×
Immobilizer	IMMU		×		×	×		
Interior room lamp battery saver	BATTERY SAVER			×	×	×		
Trunk open	TRUNK			×				
Vehicle security system	THEFT ALM			×	×	×		
RAP system	RETAINED PWR			×		×		
Signal buffer system	SIGNAL BUFFER			×				
TPMS	AIR PRESSURE MONITOR		×	×	×	×		
Panic alarm system	PANIC ALARM				×			

DIAGNOSIS SYSTEM (BCM) (WITH INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

DOOR LOCK

DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)

INFOID:000000009546751

DATA MONITOR

Monitor Item [Unit]	Description
REQ SW-DR [On/Off]	Indicates condition of door request switch LH.
REQ SW-AS [On/Off]	Indicates condition of door request switch RH.
REQ SW -BD/TR [On/Off]	Indicates condition of trunk open switch.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
DOOR SW-BK [On/Off]	Indicates condition of trunk switch.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.

ACTIVE TEST

Test Item	Description
DOOR LOCK	This test is able to check door lock operation [OTR ULK/AS UNLK/DR UNLK/ALL UNLK/ALL LOCK].

WORK SUPPORT

Support Item	Setting	Description
DOOR LOCK-UNLOCK SET	On*	Automatic door locks function ON.
	Off	Automatic door locks function OFF.
AUTOMATIC LOCK/UNLOCK SELECT	Lock/Unlock*	Automatic door locks function operates in lock and unlock.
	Lock Only	Automatic door locks function operates in lock only.
	Unlock Only	Automatic door locks function operates in unlock only.
	Off	Automatic door locks function OFF.
AUTOMATIC DOOR LOCK SELECT	P RANGE	Doors lock automatically when shifted out of Park (P).
	VH SPD*	Doors lock automatically when vehicle speed reaches 24 km/h (15 mph).
AUTOMATIC DOOR UNLOCK SELECT	MODE6*	Drivers door unlocks automatically when key is removed.
	MODE5	Drivers door unlocks automatically when shifted into Park (P).
	MODE4	Drivers door unlocks automatically when ignition is switched from ON to OFF.
	MODE3	Doors unlock automatically when key is removed.
	MODE2	Doors unlock automatically when shifted into Park (P).
	MODE1	Doors unlock automatically when ignition is switched from ON to OFF.

*: Initial setting

INT LAMP

INT LAMP : CONSULT Function (BCM - INT LAMP)

INFOID:000000009546752

DATA MONITOR

DIAGNOSIS SYSTEM (BCM) (WITH INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

Monitor Item [Unit]	Description	
REQ SW -DR [On/Off]	Indicates condition of door request switch LH.	A
REQ SW -AS [On/Off]	Indicates condition of door request switch RH.	B
PUSH -SW [On/Off]	Indicates condition of push-button ignition switch.	C
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.	D
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.	E
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.	F
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.	G
DOOR SW-BK [On/Off]	Indicates condition of trunk switch.	H
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.	I
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.	J
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.	K
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.	L
TRNK/HAT MNTR [On/Off]	Indicates condition of trunk room lamp switch.	M
RKE-LOCK [On/Off]	Indicates condition of lock signal from Intelligent Key.	N
RKE-UNLOCK [On/Off]	Indicates condition of unlock signal from Intelligent Key.	O

ACTIVE TEST

Test Item	Description
INT LAMP	This test is able to check interior room lamp operation [On/Off].

WORK SUPPORT

Support Item	Setting	Description	
R LAMP TIMER LOGIC SET	MODE 2	Interior room lamp timer activates with all doors.	
	MODE 1*	Interior room lamp timer activates with the driver door only.	
SET I/L D-UNLCK INTCON	On*	Interior room lamp timer function ON.	
	Off	Interior room lamp timer function OFF.	
ROOM LAMP TIMER SET	MODE 4 30 sec.	Sets the interior room lamp ON time. (Timer operating time).	
	MODE 3*		15 sec.
	MODE 2		7.5 sec.

*: Initial setting

INTELLIGENT KEY

INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)

INFOID:000000009546753

SELF DIAGNOSTIC RESULT

Refer to [BCS-48, "DTC Index"](#).

DATA MONITOR

Monitor Item [Unit]	Main	Description
REQ SW -DR [On/Off]	×	Indicates condition of door request switch LH.
REQ SW -AS [On/Off]	×	Indicates condition of door request switch RH.
REQ SW -BD/TR [On/Off]	×	Indicates condition of trunk open switch.
PUSH SW [On/Off]		Indicates condition of push-button ignition switch.
BRAKE SW 1 [On/Off]	×	Indicates condition of brake switch.
BRAKE SW 2 [On/Off]		Indicates condition of brake switch.

DIAGNOSIS SYSTEM (BCM) (WITH INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

Monitor Item [Unit]	Main	Description
DETE/CANCL SW [On/Off]	×	Indicates condition of P (park) position.
SFT PN/N SW [On/Off]	×	Indicates condition of P (park) or N (neutral) position.
PUSH SW -IPDM [On/Off]		Indicates condition of push-button ignition switch received from IPDM E/R on CAN communication line.
IGN RLY1 -F/B [On/Off]		Indicates condition of ignition relay 1 received from IPDM E/R on CAN communication line.
DETE SW -IPDM [On/Off]		Indicates condition of detent switch received from TCM on CAN communication line.
SFT PN -IPDM [On/Off]		Indicates condition of P (park) or N (neutral) position from TCM on CAN communication line.
SFT P -MET [On/Off]		Indicates condition of P (park) position from TCM on CAN communication line.
SFT N -MET [On/Off]		Indicates condition of N (neutral) position from IPDM E/R on CAN communication line.
ENGINE STATE [Stop/Start/Crank/Run]	×	Indicates condition of engine state from ECM on CAN communication line.
VEH SPEED 1 [mph/km/h]	×	Indicates condition of vehicle speed signal received from ABS on CAN communication line.
VEH SPEED 2 [mph/km/h]	×	Indicates condition of vehicle speed signal received from combination meter on CAN communication line.
DOOR STAT -DR [LOCK/READY/UNLK]	×	Indicates condition of driver side door status.
DOOR STAT -AS [LOCK/READY/UNLK]	×	Indicates condition of passenger side door status.
ID OK FLAG [Set/Reset]		Indicates condition of Intelligent Key ID.
PRMT ENG STRT [Set/Reset]		Indicates condition of engine start possibility.
PRMT RKE STRT [Set/Reset]		Indicates condition of engine start possibility from Intelligent Key.
RKE OPE COUN1 [0-19]	×	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.
RKE OPE COUN2 [0-19]	×	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.
TRNK/HAT MNTR [On/Off]		Indicates condition of trunk room lamp switch.
RKE-LOCK [On/Off]		Indicates condition of lock signal from Intelligent Key.
RKE-UNLOCK [On/Off]		Indicates condition of unlock signal from Intelligent Key.
RKE-TR/BD [On/Off]		Indicates condition of trunk open signal from Intelligent Key.
RKE-PANIC [On/Off]		Indicates condition of panic signal from Intelligent Key.
RKE-MODE CHG [On/Off]		Indicates condition of mode change signal from Intelligent Key.

ACTIVE TEST

Test Item	Description
INSIDE BUZZER	This test is able to check combination meter warning chime operation [Take Out/Knob/Key/Off].
LCD	This test is able to check combination meter display information [Off/LK WN/OUTKEY/NO KY/BATT/INSRT/SFT P/ROTAT/ID NG/B&P I/B&P N].
BATTERY SAVER	This test is able to check battery saver operation [On/Off].
ENGINE SW ILLUMI	This test is able to check push-button ignition switch START indicator operation [On/Off].
PUSH SWITCH INDICATOR	This test is able to check push-button ignition switch indicator operation [On/Off].
TRUNK/BACK DOOR	This test is able to check trunk actuator operation [Open].
INT LAMP	This test is able to check interior room lamp operation [On/Off].
INDICATOR	This test is able to check combination meter warning lamp operation [KEY ON/KEY IND/Off].
FLASHER	This test is able to check hazard lamp operation [LH/RH/Off].
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation [On/Off].

DIAGNOSIS SYSTEM (BCM) (WITH INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

Test Item	Description
HORN	This test is able to check horn operation [On].
P RANGE	This test is able to check CVT shift selector illumination operation [On/Off].

WORK SUPPORT

Support Item	Setting	Description	
LOCK/UNLOCK BY I-KEY	On*	Door lock/unlock function from Intelligent Key ON.	
	Off	Door lock/unlock function from Intelligent Key OFF.	
TRUNK/GLASS HATCH OPEN	On*	Buzzer reminder function from trunk opener switch.	
	Off	No buzzer reminder function from trunk opener switch.	
ANTI KEY LOCK IN FUNCTI	On*	Anti lock out setting ON.	
	Off	Anti lock out setting OFF.	
ANS BACK I-KEY UNLOCK	Off	No buzzer reminder when doors are unlocked with request switch.	
	On*	Buzzer reminder when doors are unlocked with request switch.	
ANS BACK I-KEY LOCK	Horn Chirp	Horn chirp reminder when doors are locked with request switch.	
	Buzzer*	Buzzer reminder when doors are locked with request switch.	
	Off	No reminder when doors are locked with request switch.	
HORN WITH KEYLESS LOCK	Off	Horn chirp reminder when doors are locked with Intelligent Key.	
	On*	No horn chirp reminder when doors are locked with Intelligent Key.	
ENGINE START BY I-KEY	On*	Engine start function from Intelligent Key ON.	
	Off	Engine start function from Intelligent Key OFF.	
HAZARD ANSWER BACK	Lock/Unlock*	Hazard warning lamp activation when doors are locked/unlocked with Intelligent Key or request switch.	
	Unlock Only	Hazard warning lamp activation when doors are unlocked with Intelligent Key or request switch.	
	Lock Only	Hazard warning lamp activation when doors are locked with Intelligent Key or request switch.	
	Off	No hazard warning lamp activation when doors are locked/unlocked with Intelligent Key or request switch.	
INSIDE ANT DIAGNOSIS	—	This function allows inside key antenna self-diagnosis.	
CONFIRM KEY FOB ID	—	Intelligent Key ID code can be checked.	
SHORT CRANKING OUTPUT	Start	70 msec	Starter motor operation duration time setting.
		100 msec	
		200 msec	
End	—	—	
PANIC ALARM SET	MODE 3	1.5 sec	Intelligent Key panic alarm button setting.
	MODE 2	OFF	
	MODE 1*	0.5 sec	
LO- BATT OF KEY FOB WARN	On*	Intelligent Key low battery warning ON.	
	Off	Intelligent Key low battery warning OFF.	
AUTO LOCK SET	MODE7	5 min	Auto door lock time setting.
	MODE6	4 min	
	MODE5	3 min	
	MODE4	2 min	
	MODE3*	1 min	
	MODE2	30 sec	
	MODE1	Off	

DIAGNOSIS SYSTEM (BCM) (WITH INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

Support Item	Setting		Description
TRUNK OPEN DELAY	MODE 3	1.5 sec	Intelligent Key trunk open button setting.
	MODE 2	OFF	
	MODE 1*	0.5 sec	

*: Initial Setting

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

INFOID:000000009546754

DATA MONITOR

Monitor Item [Unit]	Description
REQ SW -DR [On/Off]	Indicates condition of door request switch LH.
REQ SW -AS [On/Off]	Indicates condition of door request switch RH.
PUSH SW [On/Off]	Indicates condition push-button ignition switch.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
DOOR SW-BK [On/Off]	Indicates condition of trunk switch.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.
TRNK/HAT MNTR [On/Off]	Indicates condition of trunk room lamp switch.
RKE-LOCK [On/Off]	Indicates condition of lock signal from Intelligent Key.
RKE-UNLOCK [On/Off]	Indicates condition of unlock signal from Intelligent Key.

ACTIVE TEST

Test item	Description
BATTERY SAVER	This test is able to check battery saver operation [On/Off].

WORK SUPPORT

Support Item	Setting	Description	
BATTERY SAVER SET	ON*	Exterior lamp battery saver function ON.	
	OFF	Exterior lamp battery saver function OFF.	
ROOM LAMP TIMER SET	MODE 3*	10 min.	Sets interior room lamp battery saver timer operating time.
	MODE 2	60 min.	
	MODE 1	15 min.	

*: Initial setting

DIAGNOSIS SYSTEM (BCM) (WITHOUT INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM) (WITHOUT INTELLIGENT KEY SYSTEM) COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:000000009546756

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Direct Diagnostic Mode	Description
ECU identification	The BCM part number is displayed.
Self Diagnostic Result	The BCM self diagnostic results are displayed.
Data Monitor	The BCM input/output data is displayed in real time.
Active Test	The BCM activates outputs to test components.
Work support	The settings for BCM functions can be changed.
Configuration	<ul style="list-style-type: none"> The vehicle specification can be read and saved. The vehicle specification can be written when replacing BCM.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication is displayed.

SYSTEM APPLICATION

BCM can perform the following functions.

System	Sub System	Direct Diagnostic Mode						
		ECU identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN DIAG SUPPORT MNTR
Door lock	DOOR LOCK		×	×	×	×		
Rear window defogger	REAR DEFOGGER			×	×			
Warning chime	BUZZER			×	×			
Interior room lamp timer	INT LAMP			×	×	×		
Remote keyless entry system	MULTI REMOTE ENT			×	×	×		
Exterior lamp	HEAD LAMP			×	×	×		
Wiper and washer	WIPER			×	×	×		
Turn signal and hazard warning lamps	FLASHER			×	×			
Air conditioner	AIR CONDITIONER			×				
Combination switch	COMB SW			×				
BCM	BCM	×	×			×	×	×
Immobilizer	IMMU		×		×	×		
Interior room lamp battery saver	BATTERY SAVER			×	×	×		
Trunk open	TRUNK			×				
Vehicle security system	THEFT ALM			×	×	×		
Signal buffer system	SIGNAL BUFFER			×	×			
TPMS	AIR PRESSURE MONITOR		×	×	×	×		
Panic alarm system	PANIC ALARM				×			

DIAGNOSIS SYSTEM (BCM) (WITHOUT INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

DOOR LOCK

DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)

INFOID:000000009546757

DATA MONITOR

Monitor Item [Unit]	Description
IGN ON SW [On/Off]	Indicates condition of ignition switch ON position.
KEY ON SW [On/Off]	Indicates condition of key switch.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
ACC ON SW [On/Off]	Indicates condition of ignition switch ACC position.
KEYLESS LOCK [On/Off]	Indicates condition of lock signal from keyfob.
KEYLESS UNLOCK [On/Off]	Indicates condition of unlock signal from keyfob.
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.
VEHICLE SPEED [km/h/mph]	Indicates vehicle speed signal received from combination meter on CAN communication line.

ACTIVE TEST

Test Item	Description
DOOR LOCK	This test is able to check door lock operation [OTR ULK/DR UNLK/ALL UNLK/ALL LCK].

WORK SUPPORT

Support Item	Setting	Description
AUTOMATIC DOOR LOCK SELECT	P RANGE	Doors lock automatically when shifted out of Park (P).
	VH SPD*	Doors lock automatically when vehicle speed reaches 24 km/h (15 mph).
AUTOMATIC DOOR UNLOCK SELECT	MODE6*	Drivers door unlocks automatically when key is removed.
	MODE5	Drivers door unlocks automatically when shifted into Park (P).
	MODE4	Drivers door unlocks automatically when ignition is switched from ON to OFF.
	MODE3	Doors unlock automatically when key is removed.
	MODE2	Doors unlock automatically when shifted into Park (P).
	MODE1	Doors unlock automatically when ignition is switched from ON to OFF.
AUTOMATIC LOCK/UNLOCK SELECT	Lock/Unlock*	Automatic door locks function operates in lock and unlock.
	Lock Only	Automatic door locks function operates in lock only.
	Unlock Only	Automatic door locks function operates in unlock only.
	Off	Automatic door locks function OFF.

* : Initial setting

INT LAMP

INT LAMP : CONSULT Function (BCM - INT LAMP)

INFOID:000000009546758

DATA MONITOR

DIAGNOSIS SYSTEM (BCM) (WITHOUT INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

Monitor Item [Unit]	Description	
IGN ON SW [On/Off]	Indicates condition of ignition switch ON position.	A
KEY ON SW [On/Off]	Indicates condition of key switch.	B
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.	C
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.	D
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.	E
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.	F
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.	G
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.	H
KEYLESS LOCK [On/Off]	Indicates condition of lock signal from keyfob.	I
KEYLESS UNLOCK [On/Off]	Indicates condition of unlock signal from keyfob.	J
TRNK/HAT MNTR [On/Off]	Indicates condition of trunk lid switch.	K
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.	L
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.	M
ACC SW [On/Off]	Indicates condition of ignition switch ACC position.	N

ACTIVE TEST

Test Item	Description	
INT LAMP	This test is able to check interior room lamp operation [On/Off].	O

WORK SUPPORT

Support Item	Setting	Description	
SET I/L D-UNLCK INTCON	On*	Interior room lamp timer function ON.	P
	Off	Interior room lamp timer function OFF.	Q
ROOM LAMP TIMER SET	MODE 4 30 sec.	Sets the interior room lamp ON time. (Timer operating time).	R
	MODE 3* 15 sec.		S
	MODE 2 7.5 sec.		T
	MODE 1 OFF		U
ROOM LAMP ON TIME SET	MODE7 0 sec.	Sets the interior room lamp gradual brightening time.	V
	MODE6 5 sec.		W
	MODE5 4 sec.		X
	MODE4 3 sec.		Y
	MODE3 2 sec.		Z
	MODE2* 1 sec.		AA
ROOM LAMP OFF TIME SET	MODE7 0 sec.	Sets the interior room lamp gradual dimming time.	AB
	MODE6 5 sec.		AC
	MODE5 4 sec.		AD
	MODE4 3 sec.		AE
	MODE3 2 sec.		AF
	MODE2* 1 sec.		AG
R LAMP TIMER LOGIC SET	MODE 2	Interior room lamp timer activates with all doors.	AH
	MODE 1*	Interior room lamp timer activates with the driver door only.	AI

* : Initial setting

DIAGNOSIS SYSTEM (BCM) (WITHOUT INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

INFOID:000000009546759

DATA MONITOR

Monitor Item [Unit]	Description
IGN ON SW [On/Off]	Indicates condition of ignition switch ON position.
KEY ON SW [On/Off]	Indicates condition of key switch.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.
TRNK/HAT MNTR [On/Off]	Indicates condition of trunk lid switch.
KEYLESS LOCK [On/Off]	Indicates condition of lock signal from keyfob.
KEYLESS UNLOCK [On/Off]	Indicates condition of unlock signal from keyfob.
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.
ACC SW [On/Off]	Indicates condition of ignition switch ACC position.

ACTIVE TEST

Test item	Description
BATTERY SAVER	This test is able to check battery saver operation [On/Off].

WORK SUPPORT

Support Item	Setting		Description
	Setting	Time	
ROOM LAMP TIMER SET	MODE 3*	10 min.	Sets interior room lamp battery saver timer operating time.
	MODE 2	60 min.	
	MODE 1	15 min.	

* : Initial setting

BCM

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

INFOID:000000009269240

WITH INTELLIGENT KEY

ECU	Reference
BCM	BCS-28, "Reference Value"
	BCS-45, "Fail-safe"
	BCS-47, "DTC Inspection Priority Chart"
	BCS-48, "DTC Index"

WITHOUT INTELLIGENT KEY

ECU	Reference
BCM	BCS-93, "Reference Value"
	BCS-104, "Fail-safe"
	BCS-104, "DTC Inspection Priority Chart"
	BCS-105, "DTC Index"

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INTERIOR ROOM LAMP CONTROL SYSTEM

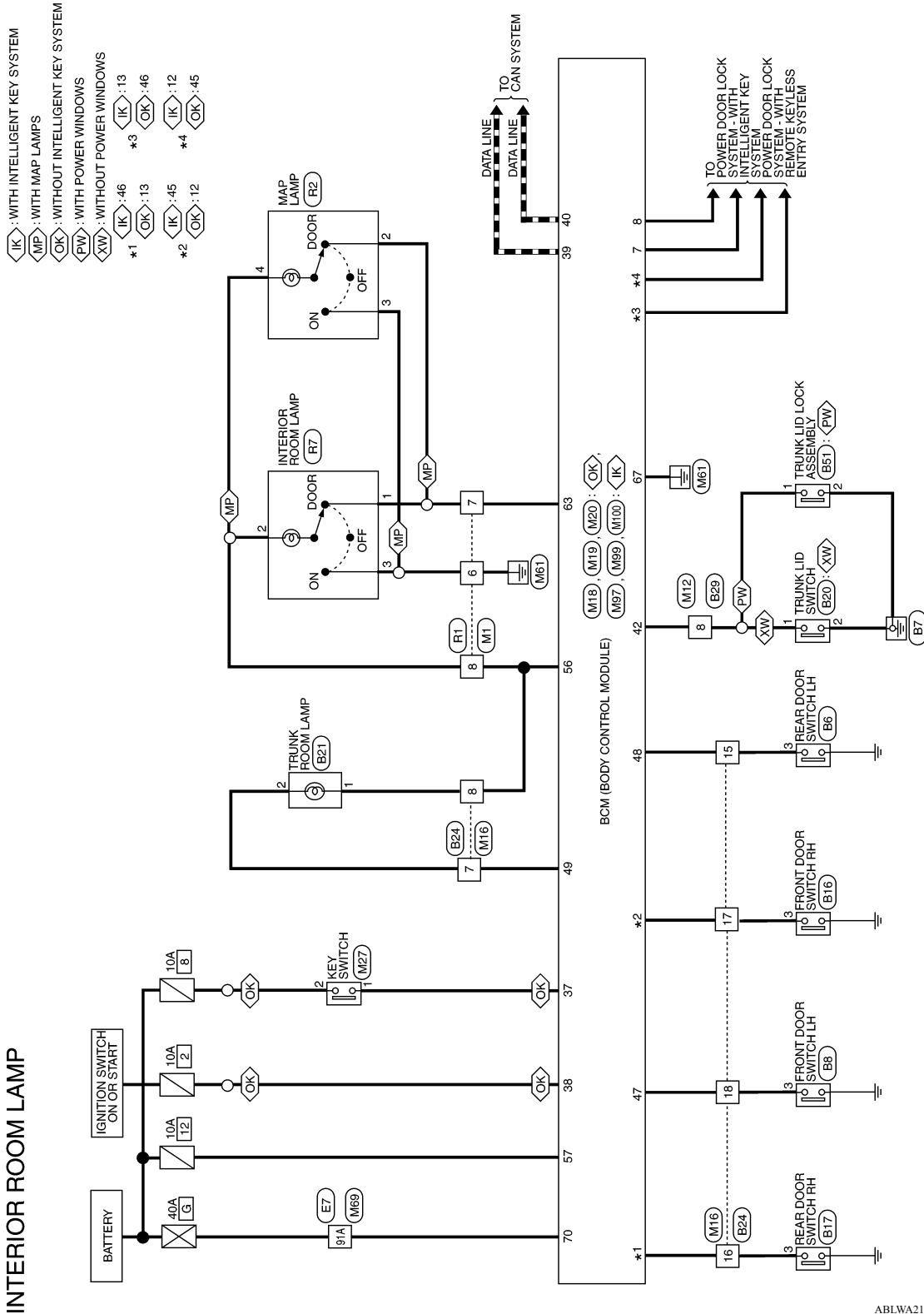
< WIRING DIAGRAM >

WIRING DIAGRAM

INTERIOR ROOM LAMP CONTROL SYSTEM

Wiring Diagram

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INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

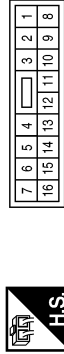
INTERIOR ROOM LAMP CONNECTORS

Connector No.	M1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



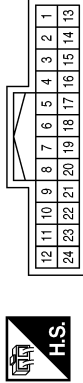
Terminal No.	Color of Wire	Signal Name
6	B	-
7	R	-
8	W	-

Connector No.	M12
Connector Name	WIRE TO WIRE
Connector Color	WHITE



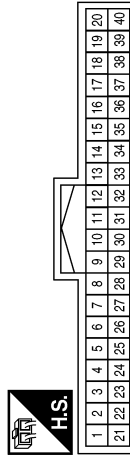
Terminal No.	Color of Wire	Signal Name
8	P	-

Connector No.	M16
Connector Name	WIRE TO WIRE
Connector Color	WHITE



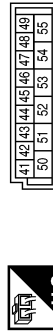
Terminal No.	Color of Wire	Signal Name
7	L	-
8	G	-
15	W	-
16	LG	-
17	P	-
18	SB	-

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
7	W	KEY CYLINDER UNLOCK SW
8	GR	KEY CYLINDER LOCK SW
12	P	DOOR SW (AS)
13	LG	DOOR SW (RR)
37	Y	KEY SW
38	O	IGN SW
39	L	CAN-H
40	P	CAN-L

Connector No.	M19
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
42	P	TR ROOM LAMP SW
45	GR	CENTRAL DOOR LOCK SW
46	BR	CENTRAL DOOR UNLOCK SW
47	SB	DOOR SW (DR)
48	W	DOOR SW (RL)
49	L	LUGGAGE LAMP OUTPUT

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
56	W	BATTERY SAVER OUTPUT
57	Y	BATTERY (FUSE)
63	R	ROOM LAMP OUTPUT
67	B	GND
70	G	BATTERY (F/L)

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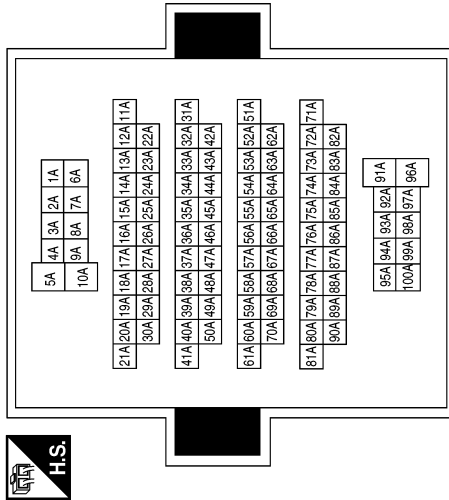


INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

Terminal No.	Color of Wire	Signal Name
91A	G	-

Connector No.	M69
Connector Name	WIRE TO WIRE
Connector Color	WHITE

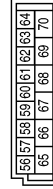


Connector No.	M27
Connector Name	KEY SWITCH
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
1	Y	-
2	LG	-

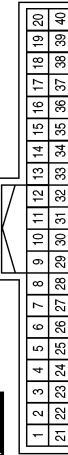
Connector No.	M99
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
56	W	BATTERY SAVER OUTPUT
57	Y	BATTERY (FUSE)
63	R	ROOM LAMP OUTPUT
67	B	GND
70	G	BATTERY (F/L)

Terminal No.	Color of Wire	Signal Name
12	GR	CENTRAL DOOR LOCK SW
13	BR	CENTRAL DOOR UNLOCK SW
39	L	CAN-H
40	P	CAN-L

Connector No.	M97
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	BLACK



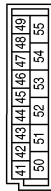
Terminal No.	Color of Wire	Signal Name
7	W	KEY CYLINDER UNLOCK SW
8	GR	KEY CYLINDER LOCK SW

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INTERIOR ROOM LAMP CONTROL SYSTEM

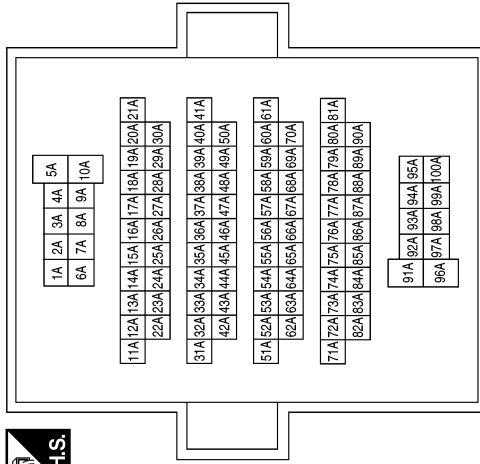
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Connector No.	M100
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	BLACK

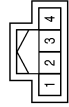


Terminal No.	Color of Wire	Signal Name
42	P	TRUNK/GLASS HATCH SW
45	P	DOOR SW (AS)
46	LG	DOOR SW (RR)
47	SB	DOOR SW (DR)
48	W	DOOR SW (RL)
49	L	LUGGAGE LAMP OUTPUT

Connector No.	E7
Connector Name	WIRE TO WIRE
Connector Color	WHITE



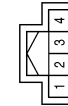
Connector No.	B6
Connector Name	REAR DOOR SWITCH LH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	V	-

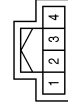
Terminal No.	Color of Wire	Signal Name
91A	Y	-

Connector No.	B8
Connector Name	FRONT DOOR SWITCH LH
Connector Color	WHITE



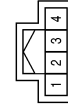
Terminal No.	Color of Wire	Signal Name
3	LG	-

Connector No.	B16
Connector Name	FRONT DOOR SWITCH RH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	L	-

Connector No.	B17
Connector Name	REAR DOOR SWITCH RH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	R	-

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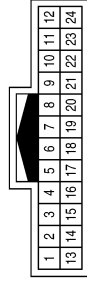
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INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

Connector No.	B24
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
7	BR	-
8	SB	-
15	V	-
16	R	-
17	L	-
18	LG	-

Connector No.	B21
Connector Name	TRUNK ROOM LAMP
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	SB	-
2	BR	-

Connector No.	B20
Connector Name	TRUNK LID SWITCH
Connector Color	WHITE



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

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



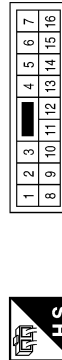
Terminal No.	Color of Wire	Signal Name
6	B	-
7	W	-
8	Y	-

Connector No.	B51
Connector Name	TRUNK LID LOCK ASSEMBLY
Connector Color	WHITE



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

Connector No.	B29
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
8	P	-

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INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

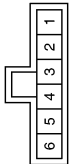
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Connector No.	R7
Connector Name	INTERIOR ROOM LAMP
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	W	-
2	Y	-
3	B	-

Connector No.	R2
Connector Name	MAP LAMP
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	W	-
3	B	-
4	Y	-

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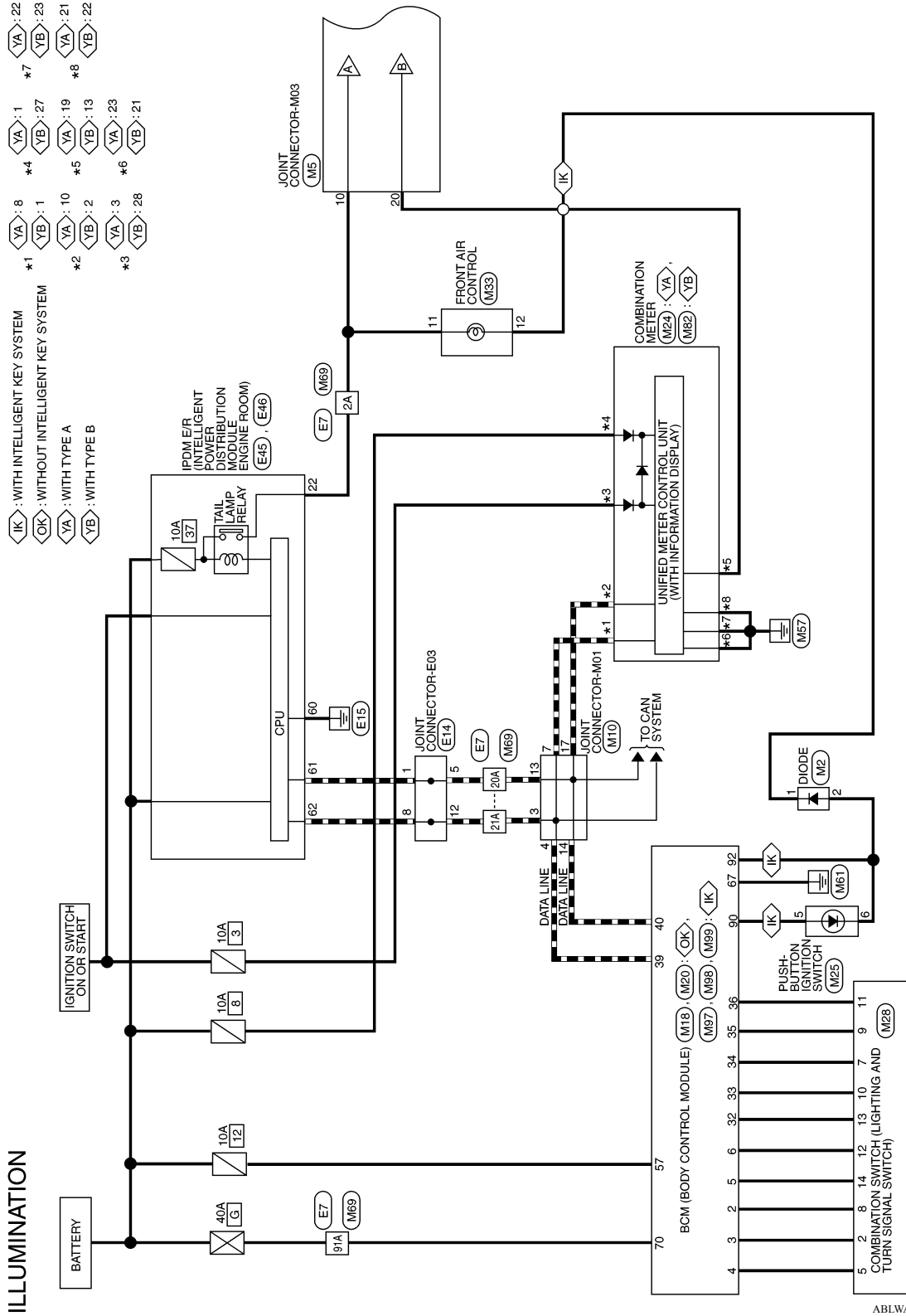
ILLUMINATION

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ILLUMINATION

Wiring Diagram

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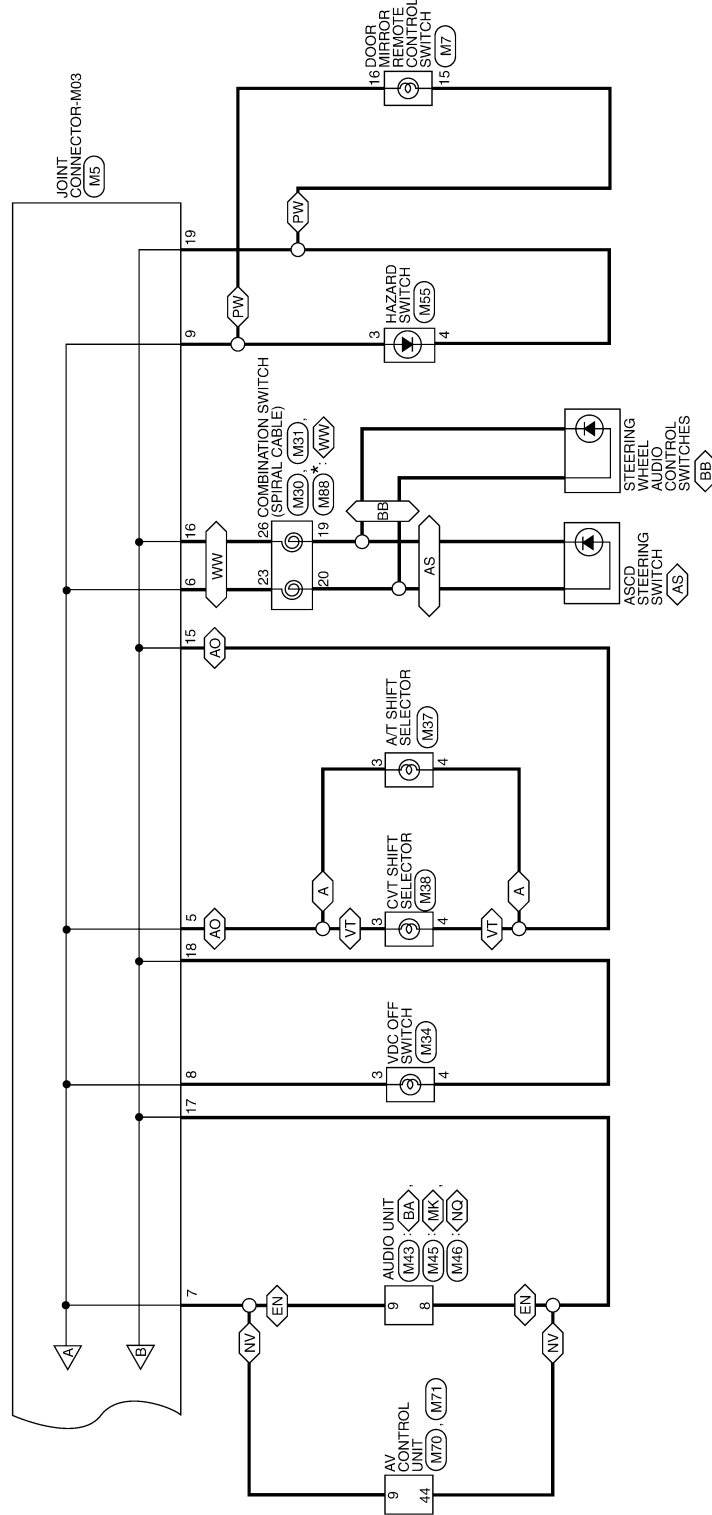


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ILLUMINATION

< WIRING DIAGRAM >

- ◊A◊ : WITH AT
- ◊AO◊ : WITH AT OR CVT
- ◊AS◊ : WITH ASCD
- ◊BA◊ : WITH BASE AUDIO SYSTEM
- ◊BB◊ : WITH BLUETOOTH
- ◊EN◊ : WITHOUT NAVI
- ◊MK◊ : WITH MID AUDIO SYSTEM
- ◊NO◊ : WITH DISPLAY AUDIO SYSTEM
- ◊NV◊ : WITH NAVI
- ◊PW◊ : WITH POWER WINDOWS
- ◊VT◊ : WITH CVT
- ◊WW◊ : WITH STEERING WHEEL CONTROL SWITCHES



* : THIS CONNECTOR IS NOT SHOWN IN "HARNES LAYOUT" OF PG SECTION.

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ILLUMINATION

< WIRING DIAGRAM >

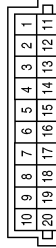
ILLUMINATION CONNECTORS

Connector No.	M2
Connector Name	DIODE
Connector Color	GRAY



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

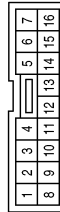
Connector No.	M5
Connector Name	JOINT CONNECTOR-M03
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
5	SB	-
6	GR	-
7	LG	-
8	W	-
9	W	-
10	W	-

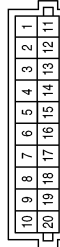
Terminal No.	Color of Wire	Signal Name
15	B	-
16	B	-
17	B	-
18	B	-
19	B	-
20	B	-

Connector No.	M7
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
15	B	-
16	G	-

Connector No.	M10
Connector Name	JOINT CONNECTOR-M01
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
3	L	-
4	L	-
7	L	-
13	P	-
14	P	-
17	P	-

ILLUMINATION

< WIRING DIAGRAM >

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Terminal No.	Color of Wire	Signal Name
2	BR	INPUT 5
3	Y	INPUT 4
4	L	INPUT 3
5	G	INPUT 2
6	R	INPUT 1

Terminal No.	Color of Wire	Signal Name
32	P	OUTPUT 5
33	V	OUTPUT 4
34	W	OUTPUT 3
35	GR	OUTPUT 2
36	LG	OUTPUT 1
39	L	CAN-H
40	P	CAN-L

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	BLACK



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

Terminal No.	Color of Wire	Signal Name
57	Y	BATTERY (FUSE)
67	B	GND
70	G	BATTERY (FIL)

Connector No.	M24
Connector Name	COMBINATION METER (WITH TYPE A)
Connector Color	WHITE



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Terminal No.	Color of Wire	Signal Name
1	R	BAT
3	GR	IGN
8	L	CAN-H
10	P	CAN-L
19	B	ILL CONIT OUTPUT
21	B	GND (POWER)
22	B	GND (CIRCUIT)
23	B/W	GND (ILL)

Connector No.	M25
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Color	BROWN



1	2	3
4	5	6
7	8	

Terminal No.	Color of Wire	Signal Name
5	W	-
6	B	-

Connector No.	M28
Connector Name	COMBINATION SWITCH
Connector Color	WHITE



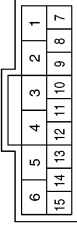
1	2	3	4	5	6
7	8	9	10	11	12
13	14				

Terminal No.	Color of Wire	Signal Name
2	Y	-
5	L	-
7	W	-
8	BR	-
9	GR	-
10	V	-
11	LG	-
12	R	-
13	P	-
14	G	-

ILLUMINATION

< WIRING DIAGRAM >

Connector No.	M33
Connector Name	FRONT AIR CONTROL
Connector Color	BLACK



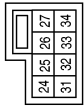
Terminal No.	Color of Wire	Signal Name
11	W	ILL+
12	B	ILL-

Connector No.	M31
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Color	YELLOW



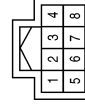
Terminal No.	Color of Wire	Signal Name
23	GR	-

Connector No.	M30
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Color	GRAY



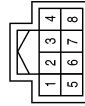
Terminal No.	Color of Wire	Signal Name
26	B	-

Connector No.	M38
Connector Name	CVT SHIFT SELECTOR
Connector Color	WHITE



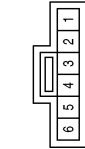
Terminal No.	Color of Wire	Signal Name
3	SB	-
4	B	-

Connector No.	M37
Connector Name	A/T SHIFT SELECTOR
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	SB	-
4	B	-

Connector No.	M34
Connector Name	VDC OFF SWITCH
Connector Color	GRAY



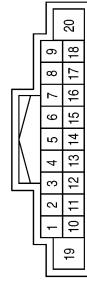
Terminal No.	Color of Wire	Signal Name
3	W	-
4	B	-

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ILLUMINATION

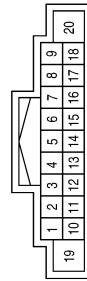
< WIRING DIAGRAM >

Connector No.	M46
Connector Name	AUDIO UNIT (WITH DISPLAY AUDIO SYSTEM)
Connector Color	WHITE



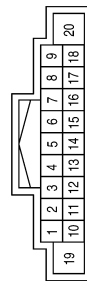
Terminal No.	Color of Wire	Signal Name
8	B	ILL (-)
9	LG	ILL (+)

Connector No.	M45
Connector Name	AUDIO UNIT (WITH MID AUDIO SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
8	B	ILL (-)
9	LG	ILL (+)

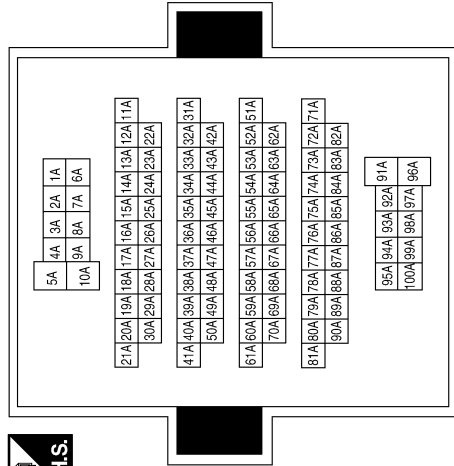
Connector No.	M43
Connector Name	AUDIO UNIT (WITH BASE AUDIO SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
8	B	ILL (-)
9	LG	ILL (+)

Terminal No.	Color of Wire	Signal Name
2A	W	-
20A	P	-
21A	L	-
91A	G	-

Connector No.	M69
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	M55
Connector Name	HAZARD SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	W	-
4	B	-

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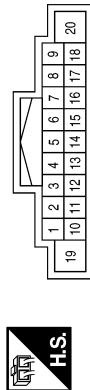
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ILLUMINATION

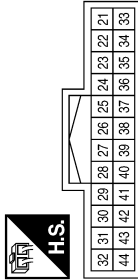
< WIRING DIAGRAM >

Connector No.	M70
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Color	WHITE



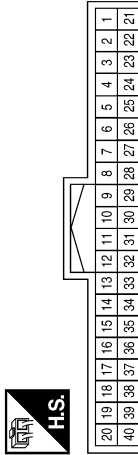
Terminal No.	Color of Wire	Signal Name
9	LG	ILL (+), LIGHT SW

Connector No.	M71
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Color	WHITE



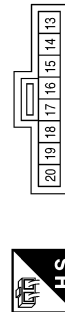
Terminal No.	Color of Wire	Signal Name
44	B	ILL (-)

Connector No.	M82
Connector Name	COMBINATION METER (WITH TYPE B)
Connector Color	WHITE



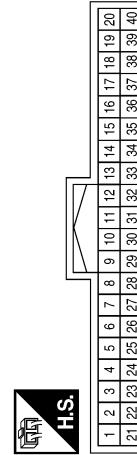
Terminal No.	Color of Wire	Signal Name
1	L	CAN-H
2	P	CAN-L
13	B	OUTSIDE ILL OUTPUT
21	B/W	GND (ILL)
22	B	GND (POWER)
23	B	GND (CIRCUIT)
27	R	BAT
28	GR	IGN

Connector No.	M88
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
19	P	-
20	Y	-

Connector No.	M97
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	BLACK

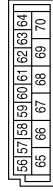


Terminal No.	Color of Wire	Signal Name
2	BR	INPUT 5
3	Y	INPUT 4
4	L	INPUT 3
5	G	INPUT 2
6	R	INPUT 1
32	P	OUTPUT 5
33	V	OUTPUT 4
34	W	OUTPUT 3
35	GR	OUTPUT 2
36	LG	OUTPUT 1
39	L	CAN-H
40	P	CAN-L

ILLUMINATION

< WIRING DIAGRAM >

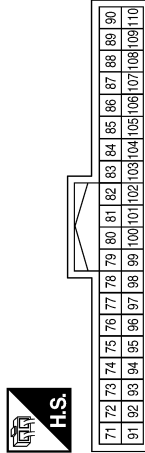
Connector No.	M99
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



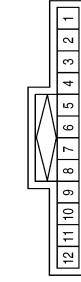
Terminal No.	Color of Wire	Signal Name
57	Y	BATTERY (FUSE)
67	B	GND
70	G	BATTERY (F/L)

Terminal No.	Color of Wire	Signal Name
90	W	HIGH SIDE ENGINE START SW ILLUMINATION LED
92	B	LOW SIDE ENGINE START SW ILLUMINATION LED OUTPUT

Connector No.	M98
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



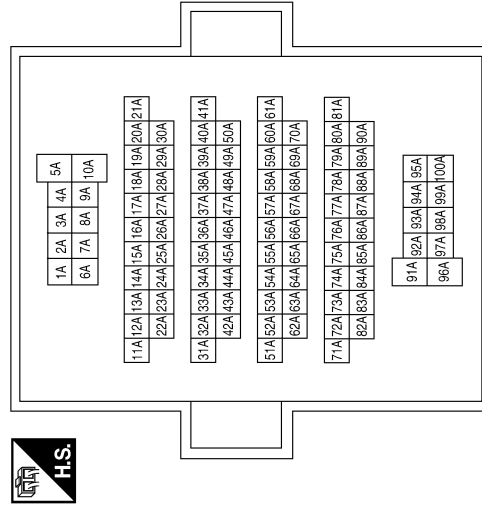
Connector No.	E14
Connector Name	JOINT CONNECTOR-E03
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
1	P	-
5	P	-
8	L	-
12	L	-

Terminal No.	Color of Wire	Signal Name
2A	P	-
20A	P	-
21A	L	-
91A	Y	-

Connector No.	E7
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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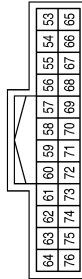
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ILLUMINATION

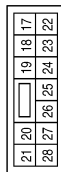
< WIRING DIAGRAM >

Connector No.	E46
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
60	B	GND (SIGNAL)
61	P	CAN-L
62	L	CAN-H

Connector No.	E45
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
22	P	TAIL/ILLUMI

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

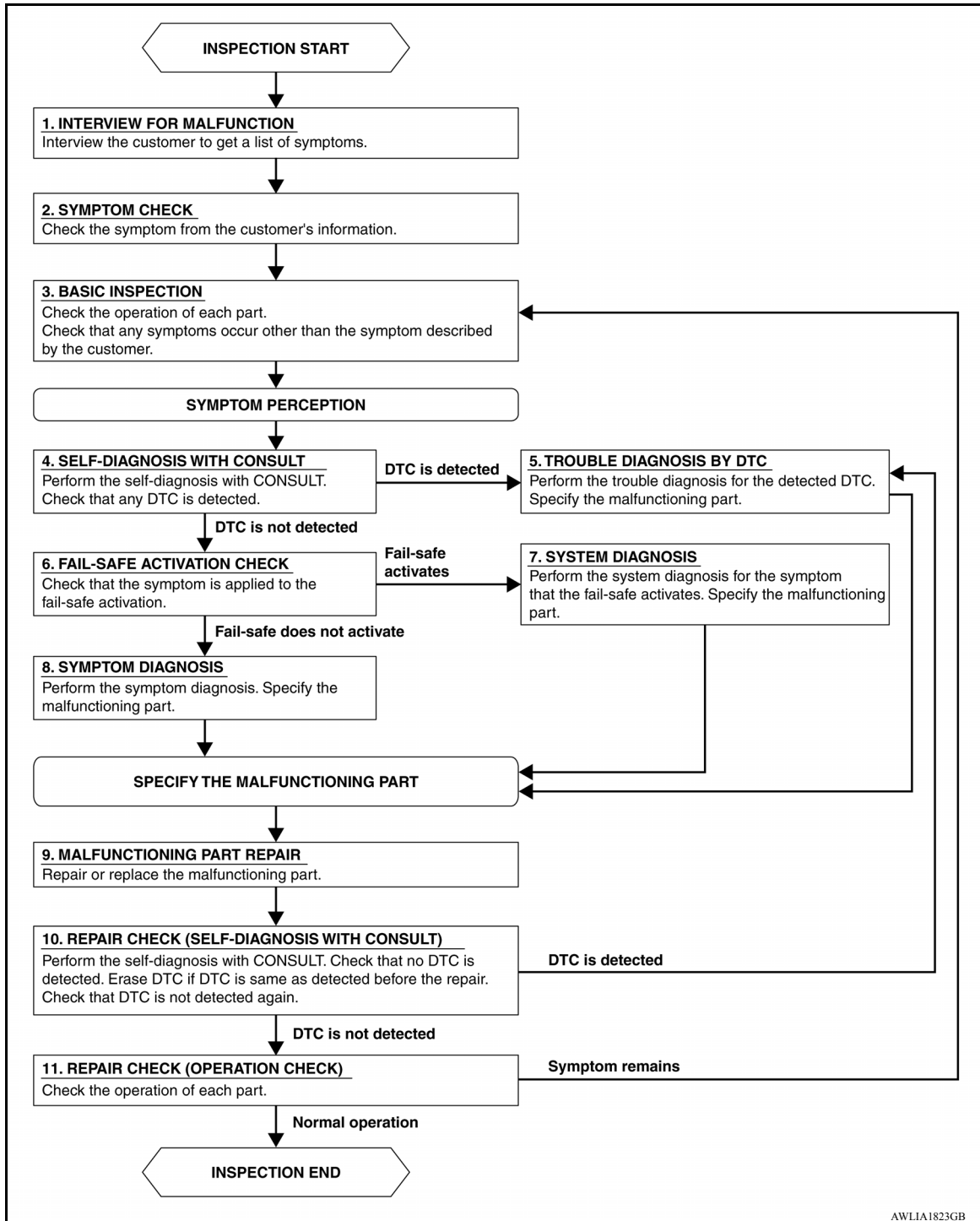
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000009269243

OVERALL SEQUENCE



DETAILED FLOW

1. INTERVIEW FOR MALFUNCTION

Interview the symptom to the customer.

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

>> GO TO 2.

2. SYMPTOM CHECK

Check the symptom from the customer's information.

>> GO TO 3.

3. BASIC INSPECTION

Check the operation of each part. Check that any symptom occurs other than the interviewed symptom.

>> GO TO 4.

4. SELF-DIAGNOSIS WITH CONSULT

Perform the self-diagnosis with CONSULT. Check that any DTC is detected.

Is any DTC detected?

YES >> GO TO 5.

NO >> GO TO 6.

5. TROUBLE DIAGNOSIS BY DTC

Perform the trouble diagnosis for the detected DTC. Specify the malfunctioning part.

>> GO TO 9.

6. FAIL-SAFE ACTIVATION CHECK

Check that the symptom is applied to the fail-safe activation.

Does the fail-safe activate?

YES >> GO TO 7.

NO >> GO TO 8.

7. SYSTEM DIAGNOSIS

Perform the system diagnosis for the system that the fail-safe activates. Specify the malfunctioning part.

>> GO TO 9.

8. SYMPTOM DIAGNOSIS

Perform the symptom diagnosis. Specify the malfunctioning part.

>> GO TO 9.

9. MALFUNCTION PART REPAIR

Repair or replace the malfunctioning part.

>> GO TO 10.

10. REPAIR CHECK (SELF-DIAGNOSIS WITH CONSULT)

Perform the self-diagnosis with CONSULT. Check that any DTC is not detected. Erase DTC if DTC is detected before the repair. Check that DTC is not detected again.

Is any DTC detected?

YES >> GO TO 5.

NO >> GO TO 11.

11. REPAIR CHECK (OPERATION CHECK)

Check the operation of each part.

Does it operate normally?

YES >> INSPECTION END

NO >> GO TO 3.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM (BODY CONTROL SYSTEM) (WITH INTELLIGENT KEY SYSTEM)

BCM (BODY CONTROL SYSTEM) (WITH INTELLIGENT KEY SYSTEM) : Diagnosis Procedure

INFOID:000000009546826

Regarding Wiring Diagram information, refer to [BCS-50, "Wiring Diagram"](#).

1. CHECK FUSES AND FUSIBLE LINK

Check that the following fuses and fusible link are not blown.

Terminal No.	Signal name	Fuses and fusible link No.
57	Battery power supply	12 (10A)
70		G (40A)

Is the fuse blown?

- YES >> Replace the blown fuse or fusible link after repairing the affected circuit.
NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

1. Disconnect BCM connector M99.
2. Check voltage between BCM connector M99 and ground.

BCM		Ground	Voltage
Connector	Terminal		
M99	57	—	Battery voltage
	70		

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair harness or connector.

3. CHECK GROUND CIRCUIT

Check continuity between BCM connector M99 and ground.

BCM		Ground	Continuity
Connector	Terminal		
M99	67	—	Yes

Is the inspection result normal?

- YES >> Inspection End.
NO >> Repair harness or connector.

BCM (BODY CONTROL SYSTEM) (WITHOUT INTELLIGENT KEY SYSTEM)

BCM (BODY CONTROL SYSTEM) (WITHOUT INTELLIGENT KEY SYSTEM) : Diagnosis Procedure

INFOID:000000009546827

Regarding Wiring Diagram information, refer to [BCS-107, "Wiring Diagram"](#).

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

1. CHECK FUSES AND FUSIBLE LINK

Check that the following fuses and fusible link are not blown.

Terminal No.	Signal name	Fuses and fusible link No.
57	Battery power supply	12 (10A)
70		G (40A)
11	Ignition switch ACC or ON	18 (10A)
38	Ignition switch ON or START	2 (10A)

Is the fuse blown?

YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connectors.
3. Check voltage between BCM connector and ground.

BCM		Ground	Ignition switch position		
Connector	Terminal		OFF	ACC	ON
M20	57	—	Battery voltage	Battery voltage	Battery voltage
	70				
M18	11		0 V	Battery voltage	Battery voltage
	38		0 V	0 V	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK GROUND CIRCUIT

Check continuity between BCM connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M20	67	—	Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair harness or connector.

BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

Description

INFOID:000000009269246

Provides the battery saver output/power supply. Also cuts the power supply when the interior lamp battery saver is activated.

Component Function Check

INFOID:000000009269247

1.CHECK BATTERY SAVER OUTPUT/POWER SUPPLY FUNCTION

CONSULT

1. Turn ignition switch ON.
2. Turn each interior lamp to the ON position.
 - Interior room lamp
 - Map lamp (if equipped)
 - Trunk room lamp
3. Select BATTERY SAVER of BCM (BATTERY SAVER) active test item.
4. While operating the test item, check that each interior room lamp turns ON/OFF.

OFF : Interior room lamp OFF

ON : Interior room lamp ON

Is the inspection result normal?

- YES >> Battery saver output/power supply circuit is normal.
NO >> Refer to [INL-41, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009269248

Regarding Wiring Diagram information, refer to [INL-22, "Wiring Diagram"](#).

1.CHECK BATTERY SAVER OUTPUT/POWER SUPPLY OUTPUT

CONSULT

1. Turn ignition switch ON.
2. Select BATTERY SAVER of BCM (BATTERY SAVER) active test item.
3. While operating the test item, check voltage between BCM connector and ground.

(+)		(-)	Test item	Voltage
Connector	Terminal		BATTERY SAVER	
M99 (with Intelligent Key)	56	Ground	OFF	0V
M20 (without Intelligent Key)			ON	Battery voltage

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Replace BCM after making sure battery saver output/power supply circuit is not shorted to voltage. Refer to [BCS-69, "Removal and Installation"](#) (with Intelligent Key) or [BCS-122, "Removal and Installation"](#) (without Intelligent Key).

2.CHECK BATTERY SAVER OUTPUT/POWER SUPPLY OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect the following connectors.
 - BCM
 - Interior room lamp
 - Map lamp (if equipped)
 - Trunk room lamp
3. Check continuity between BCM connector and each interior lamp connector.

BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

BCM		Each interior lamp			Continuity
Connector	Terminal	Connector		Terminal	
M99 (with Intelligent Key) M20 (without Intelligent Key)	56	Interior room lamp	R7	2	Yes
		Map lamp (if equipped)	R2	1	
		Trunk room lamp	B21	1	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the harness or connector.

3. CHECK BATTERY SAVER OUTPUT/POWER SUPPLY SHORT CIRCUIT

Check continuity between BCM connector and ground.

Connector	Terminal	—	Continuity
M99 (with Intelligent Key) M20 (without Intelligent Key)	56	Ground	No

Is the inspection result normal?

YES >> Check that each interior room lamp has no internal short circuit.

NO >> Repair or replace the harness or connector.

INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL CIRCUIT

Description

INFOID:000000009269249

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

NOTE:

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

Component Function Check

INFOID:000000009269250

CAUTION:

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

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

1. CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

CONSULT

1. Switch the map lamp switch or interior room lamp switch to DOOR.
2. Turn ignition switch ON.
3. Select INT LAMP of BCM (INT LAMP) ACTIVE TEST item.
4. While 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 (gradual brightening/dimming)?

YES >> Interior room lamp control circuit is normal.

NO >> Refer to [INL-43. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009269251

Regarding Wiring Diagram information, refer to [INL-22. "Wiring Diagram"](#).

1. CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

CONSULT

1. Turn ignition switch OFF.
2. Remove all the bulbs of map lamp and interior room lamp.
3. Turn ignition switch ON.
4. Select INT LAMP of BCM (INT LAMP) ACTIVE TEST item.
5. While operating the test item, check continuity between BCM harness connector and ground.

BCM		Ground	Test item		Continuity
Connector	Terminal		INT LAMP	On/Off	
M99 (with Intelligent Key) M20 (without Intelligent Key)	63		On	Yes	
			Off	No	

Is the inspection result normal?

YES >> GO TO 2.

Fixed ON >> GO TO 3.

Fixed OFF >> Replace BCM after making sure battery saver output/power supply circuit is not shorted to voltage. Refer to [BCS-69. "Removal and Installation"](#) (with Intelligent Key) or [BCS-122. "Removal and Installation"](#) (without Intelligent Key).

2. CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and map lamp connector or interior room lamp connector.

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INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

3. Check continuity between BCM harness connector and map lamp harness connector or interior room lamp harness connector.

With map lamp

BCM		Map lamp		Continuity
Connector	Terminal	Connector	Terminal	
M99 (with Intelligent Key) M20 (without Intelligent Key)	63	R2	3	Yes

BCM		Interior room lamp		Continuity
Connector	Terminal	Connector	Terminal	
M99 (with Intelligent Key) M20 (without Intelligent Key)	63	R7	1	Yes

Is the inspection result normal?

- YES >> Check that map lamp or interior room lamp has no internal open circuit.
 NO >> Repair or replace harness or connector.

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		
M99 (with Intelligent Key) M20 (without Intelligent Key)	63		No

Is the inspection result normal?

- YES >> Replace BCM after making sure battery saver output/power supply circuit is not shorted to voltage. Refer to [BCS-69, "Removal and Installation"](#) (with Intelligent Key) or [BCS-122, "Removal and Installation"](#) (without Intelligent Key).
 NO >> GO TO 4.

4. CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

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

BCM		Ground	Continuity
Connector	Terminal		
M99 (with Intelligent Key) M20 (without Intelligent Key)	63		No

Is the inspection result normal?

- YES >> Check that map lamp or interior room lamp has no internal short circuit.
 NO >> Repair or replace harness or connector.

TRUNK ROOM LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

TRUNK ROOM LAMP CIRCUIT

Description

INFOID:000000009269252

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

Component Function Check

INFOID:000000009269253

CAUTION:

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

- Battery saver output/power supply
- Trunk room lamp bulb

Diagnosis Procedure

INFOID:000000009269254

Regarding Wiring Diagram information, refer to [INL-22. "Wiring Diagram"](#).

1. CHECK TRUNK ROOM LAMP OUTPUT

1. Turn ignition switch OFF.
2. Remove the trunk room bulb.
3. Check continuity between BCM harness connector and ground.

BCM		Ground	Condition		Continuity
Connector	Terminal		Trunk lid		
M100 (with Intelligent Key)	49		Open	Yes	
M19 (without Intelligent Key)			Closed	No	

Is the inspection result normal?

YES >> GO TO 2.

Fixed ON>>GO TO 3.

Fixed OFF>>Replace BCM after making sure battery saver output/power supply circuit is not shorted to voltage. Refer to [BCS-69. "Removal and Installation"](#) (with Intelligent Key) or [BCS-122. "Removal and Installation"](#) (without Intelligent Key).

2. CHECK TRUNK ROOM LAMP OPEN CIRCUIT

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

BCM		Trunk room lamp		Continuity
Connector	Terminal	Connector	Terminal	
M100 (with Intelligent Key)	49	B21	2	Yes
M19 (without Intelligent Key)				

Is the inspection result normal?

YES >> Replace trunk room lamp.

NO >> Repair or replace the harness or connector.

3. CHECK TRUNK ROOM LAMP SHORT CIRCUIT

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

BCM		Ground	Continuity
Connector	Terminal		
M100 (with Intelligent Key)	49		No
M19 (without Intelligent Key)			

Is the inspection result normal?

TRUNK ROOM LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

- YES >> Replace BCM after making sure battery saver output/power supply circuit is not shorted to voltage. Refer to [BCS-69, "Removal and Installation"](#) (with Intelligent Key) or [BCS-122, "Removal and Installation"](#) (without Intelligent Key).
- NO >> Repair or replace the harness or connector.

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

Description

INFOID:000000009269255

Provides the power supply and the ground to control the push-button ignition switch illumination.

Component Function Check

INFOID:000000009269256

1.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION OPERATION

CONSULT

1. Turn the ignition switch ON.
2. Select ENGINE SW ILLUMI of BCM (INTELLGENT KEY) active test item.
3. While operating the test item, 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

Is the inspection result normal?

- YES >> Push-button ignition switch illumination circuit is normal.
NO >> Refer to [INL-47, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009269257

Regarding Wiring Diagram information, refer to [INL-28, "Wiring Diagram"](#).

1.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION OPERATION

CONSULT

1. Turn the ignition switch ON.
2. Select ENGINE SW ILLUMI of BCM (INTELLIGENT KEY) active test item.
3. While operating the test item, check voltage between push-button ignition switch connector M25 terminal 5 and ground.

Terminals		Test item	Voltage
(+)	(-)		
Push-button ignition switch		ENGINE SW ILLUMI	
Connector	Terminal		
M25	5		
		ON	5 V
		OFF	0 V

Is the inspection result normal?

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

2.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION POWER SUPPLY OPEN CIRCUIT

1. Turn the ignition switch OFF.
2. Disconnect BCM connector M98 and push-button ignition switch connector.
3. Check continuity between BCM connector M98 terminal 90 and push-button ignition switch connector M25 terminal 5.

BCM		Push-button ignition switch		Continuity
Connector	Terminal	Connector	Terminal	
M98	90	M25	5	Yes

Is the inspection result normal?

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

- YES >> GO TO 3.
NO >> Repair or replace the harness or connectors.

3.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION POWER SUPPLY SHORT CIRCUIT

Check continuity between BCM connector M98 terminal 90 and ground.

BCM		Ground	Continuity
Connector	Terminal		
M98	90		No

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-69. "Removal and Installation"](#).
NO >> Repair or replace the harness or connectors.

4.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION GROUND CIRCUIT

1. Turn the ignition switch OFF
2. Disconnect push-button ignition switch connector.
3. Check continuity between push-button ignition switch connector M25 terminal 6 and ground.

Push-button ignition switch		Ground	Continuity
Connector	Terminal		
M25	6		Yes

Is the inspection result normal?

- YES >> Replace push-button ignition switch. Refer to [PCS-100. "Removal and Installation"](#).
NO >> GO TO 5.

5.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION GROUND OPEN CIRCUIT

1. Disconnect BCM connector M98.
2. Check continuity between BCM connector M98 terminal 92 and push-button ignition switch connector M25 terminal 6.

BCM		Push-button ignition switch		Continuity
Connector	Terminal	Connector	Terminal	
M98	92	M25	6	Yes

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-69. "Removal and Installation"](#).
NO >> Repair or replace the harness or connectors.

INTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

INFOID:000000009269258

CAUTION:

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

Symptom	Possible cause	Inspection item
<ul style="list-style-type: none"> Interior room lamp does not turn ON even though the door is open. (It turns ON when turning the interior room lamp ON.) Interior room lamp does not turn OFF even though the door is closed. 	<ul style="list-style-type: none"> Harness between BCM and each door switch Harness between BCM and each interior room lamp BCM 	Door switch circuit Refer to DLK-89 (with Intelligent Key) or DLK-235 (without Intelligent Key).
		Interior room lamp control circuit Refer to INL-43 .
Interior room lamp timer does not activate. (It turns ON/ OFF when the door opens/closes.)	—	Check the interior room lamp setting. Refer to BCS-17 (with Intelligent Key) or BCS-83 (without Intelligent Key).
Interior room lamp battery saver does not activate.	—	Check the interior room lamp battery saver setting. Refer to BCS-24 (with Intelligent Key) or BCS-89 (without Intelligent Key).
Trunk room lamp does not turn ON even though the trunk lid is open. (It turns ON when turning the trunk room lamp ON.)	<ul style="list-style-type: none"> Harness between BCM and trunk room lamp Harness between BCM and trunk lid switch BCM 	Trunk lid switch circuit Refer to DLK-103 (with Intelligent Key) or BCS-89 (without Intelligent Key).
		Trunk room lamp circuit Refer to INL-45 .

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MAP LAMP

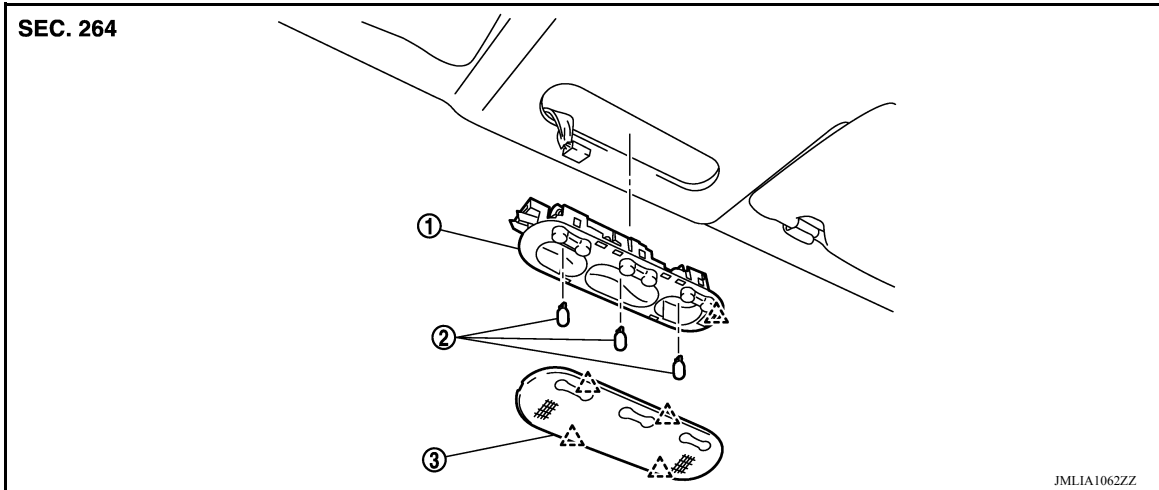
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

MAP LAMP

Exploded View

INFOID:000000009269259



1. Map lamp bulb housing

2. Bulb

3. Lens

△ Pawl

Removal and Installation

INFOID:000000009269260

WARNING:

Do not touch bulb with your hand while it is on or right after being turned off. Burning may result.

CAUTION:

Do not touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.

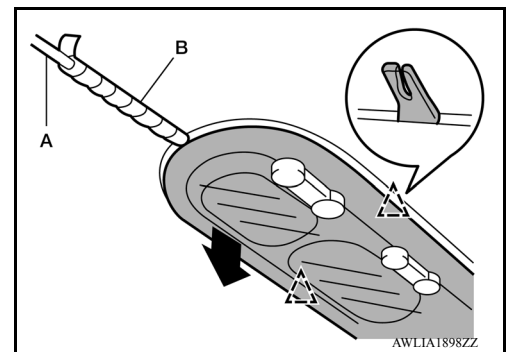
REMOVAL

1. Release lens pawls using suitable tool (A) and remove.

CAUTION:

Apply protect tape (B) on suitable tool (A).

△ Pawl



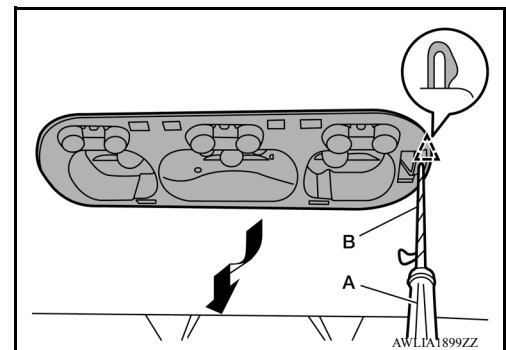
2. Release map lamp housing pawl using suitable tool (A).

CAUTION:

Apply protect tape (B) on suitable tool (A).

△ Pawl

3. Disconnect the harness connector from map lamp and remove.



MAP LAMP

< REMOVAL AND INSTALLATION >

INSTALLATION

Installation is in the reverse order of removal.

Bulb Replacement

INFOID:000000009269261

WARNING:

Do not touch bulb with your hand while it is on or right after being turned off. Burning may result.

CAUTION:

- Do not touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Leaving the bulb removed from housing for a long period of time can deteriorate performance of the lens and reflector (causing dirt or clouding). Always prepare a new bulb and have it on hand when replacing the bulb.

MAP LAMP BULB

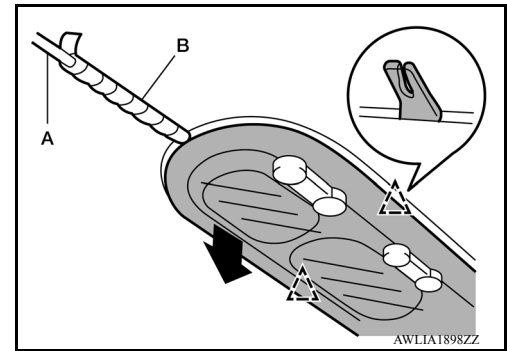
Removal

1. Release lens pawls using suitable tool (A) and remove.

CAUTION:

Apply protect tape (B) on suitable tool (A).

△: Pawl



2. Remove the bulb.

Installation

Installation is in the reverse order of removal.

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INTERIOR ROOM LAMP

< REMOVAL AND INSTALLATION >

INTERIOR ROOM LAMP

Removal and Installation

INFOID:000000009269262

ROOM LAMP

WARNING:

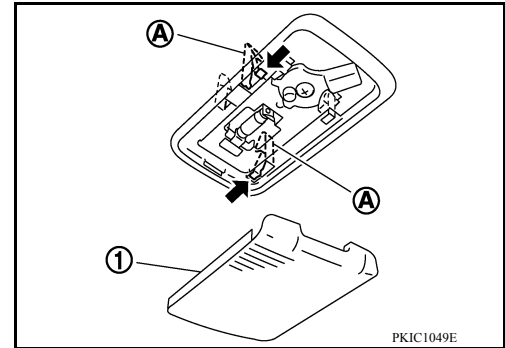
Do not touch bulb with your hand while it is on or right after being turned off. Burning may result.

CAUTION:

Do not touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.

REMOVAL

1. Remove lens (1) and remove the room lamp by pulling down to release the room lamp metal clips (A).
2. Disconnect the harness connector from the room lamp and remove.



INSTALLATION

Installation is in the reverse order of removal.

Bulb Replacement

INFOID:000000009269263

ROOM LAMP

WARNING:

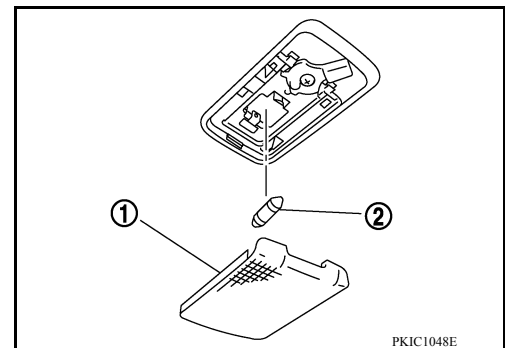
Do not touch bulb with your hand while it is on or right after being turned off. Burning may result.

CAUTION:

- Do not touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Leaving the bulb removed from housing for a long period of time can deteriorate performance of the lens and reflector (causing dirt or clouding). Always prepare a new bulb and have it on hand when replacing the bulb.

Removal

1. Remove lens (1) by inserting suitable tool and releasing LH (switch side first).
2. Remove bulb (2).



Installation

Installation is in the reverse order of removal.

NOTE:

Insert the lens hook end RH side first to install lens.

CONSOLE LAMP

< REMOVAL AND INSTALLATION >

CONSOLE LAMP

Removal and Installation

INFOID:000000009269264

WARNING:

Do not touch bulb with your hand while it is on or right after being turned off. Burning may result.

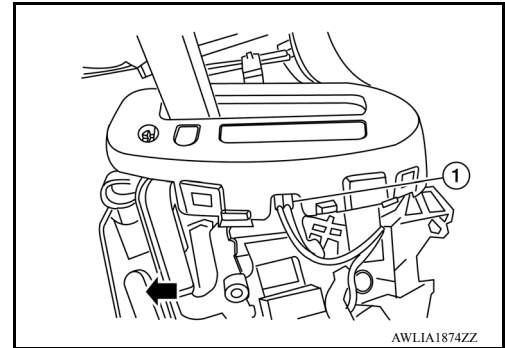
CAUTION:

- Do not touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.

REMOVAL

1. Remove the center console assembly. Refer to [JP-25, "Removal and Installation"](#).
2. Rotate shift selector lamp assembly (1) counter-clockwise and remove.

←: Front



INSTALLATION

Installation is in the reverse order of removal.

Bulb Replacement

INFOID:000000009269265

WARNING:

Do not touch bulb with your hand while it is on or right after being turned off. Burning may result.

CAUTION:

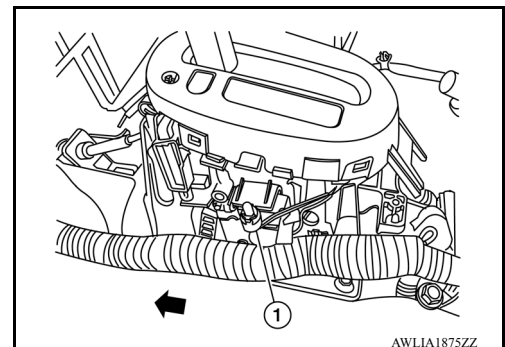
- Do not touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Leaving the bulb removed from housing for a long period of time can deteriorate performance of the lens and reflector (causing dirt or clouding). Always prepare a new bulb and have it on hand when replacing the bulb.

SHIFT SELECTOR LAMP BULB

Removal

1. Remove shift selector lamp. Refer to [JP-23, "Removal and Installation"](#).
2. Pull shift selector bulb from bulb socket (1).

←: Front



Installation

Installation is in the reverse order of removal.

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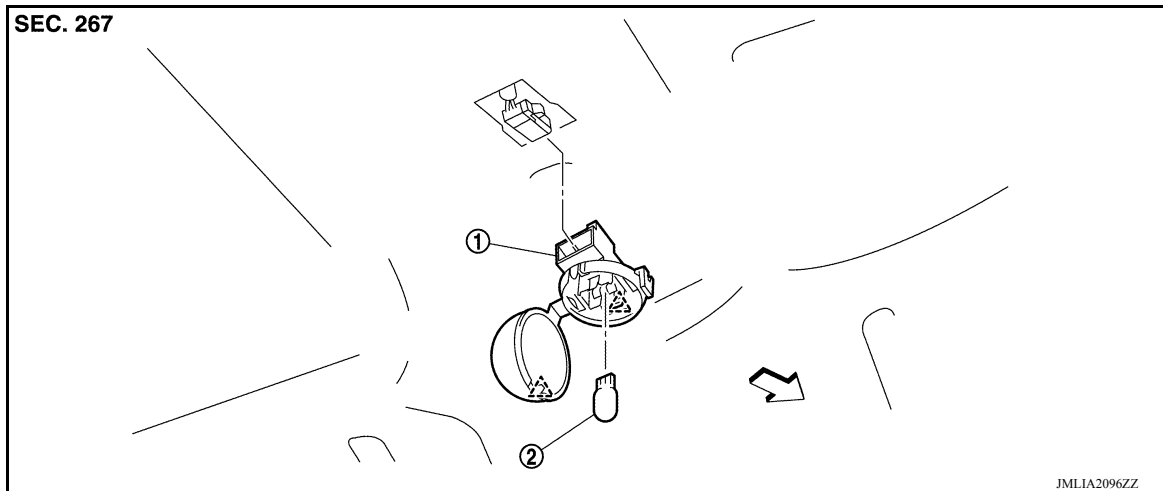
TRUNK ROOM LAMP

< REMOVAL AND INSTALLATION >

TRUNK ROOM LAMP

Exploded View

INFOID:000000009269266



1. Trunk room lamp

2. Bulb

← Front

△ Pawl

Removal and Installation

INFOID:000000009269267

WARNING:

Do not touch bulb with your hand while it is on or right after being turned off. Burning may result.

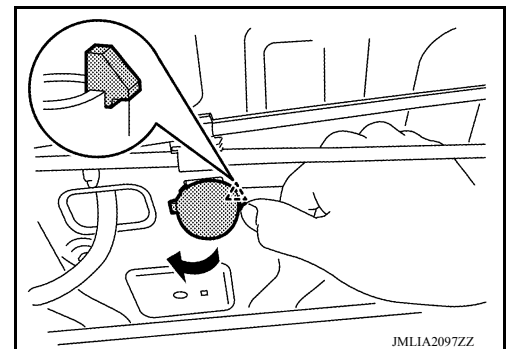
CAUTION:

- Do not touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Leaving the bulb removed from housing for a long period of time can deteriorate performance of the lens and reflector (causing dirt or clouding). Always prepare a new bulb and have it on hand when replacing the bulb.

REMOVAL

1. Release the trunk room lamp pawl to open lens.

△ Pawl

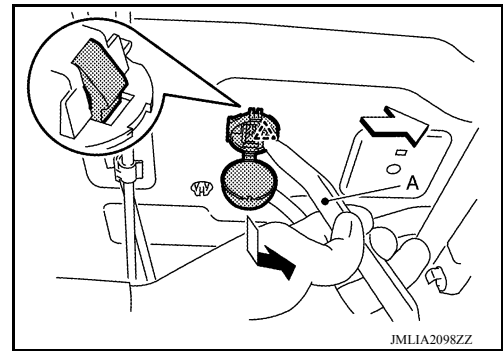


2. Remove the bulb.

TRUNK ROOM LAMP

< REMOVAL AND INSTALLATION >

3. Release trunk room lamp pawl with a suitable tool (A)
△: Pawl
◁: Front
4. Disconnect harness connector from trunk room lamp and remove.



INSTALLATION

Installation is in the reverse order of removal.

Bulb Replacement

INFOID:000000009269268

WARNING:

Do not touch bulb with your hand while it is on or right after being turned off. Burning may result.

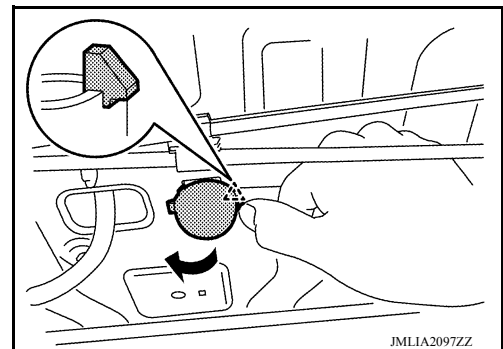
CAUTION:

- Do not touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Leaving the bulb removed from housing for a long period of time can deteriorate performance of the lens and reflector (causing dirt or clouding). Always prepare a new bulb and have it on hand when replacing the bulb.

TRUNK ROOM LAMP BULB

Removal

1. Release the trunk room lamp pawl to open lens.
△: Pawl



2. Remove the bulb.

Installation

Installation is in the reverse order of removal.

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ILLUMINATION CONTROL SWITCH

< REMOVAL AND INSTALLATION >

ILLUMINATION CONTROL SWITCH

Removal and Installation

INFOID:000000009269269

The illumination control switch is integrated in the combination meter. Refer to [MWI-104. "Removal and Installation"](#) (TYPE A) or [MWI-53. "Removal and Installation"](#) (TYPE B).

SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Bulb Specifications

INFOID:000000009269270

Bulb Specifications

INFOID:000000009269271

Item	Wattage (W)*
Map lamp	5
Interior room lamp	8
Trunk room lamp	3.4
Shift selector lamp	—

*: Always check with the Parts Department for the latest parts info.

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