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# SECTION INL

## INTERIOR LIGHTING SYSTEM

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# DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

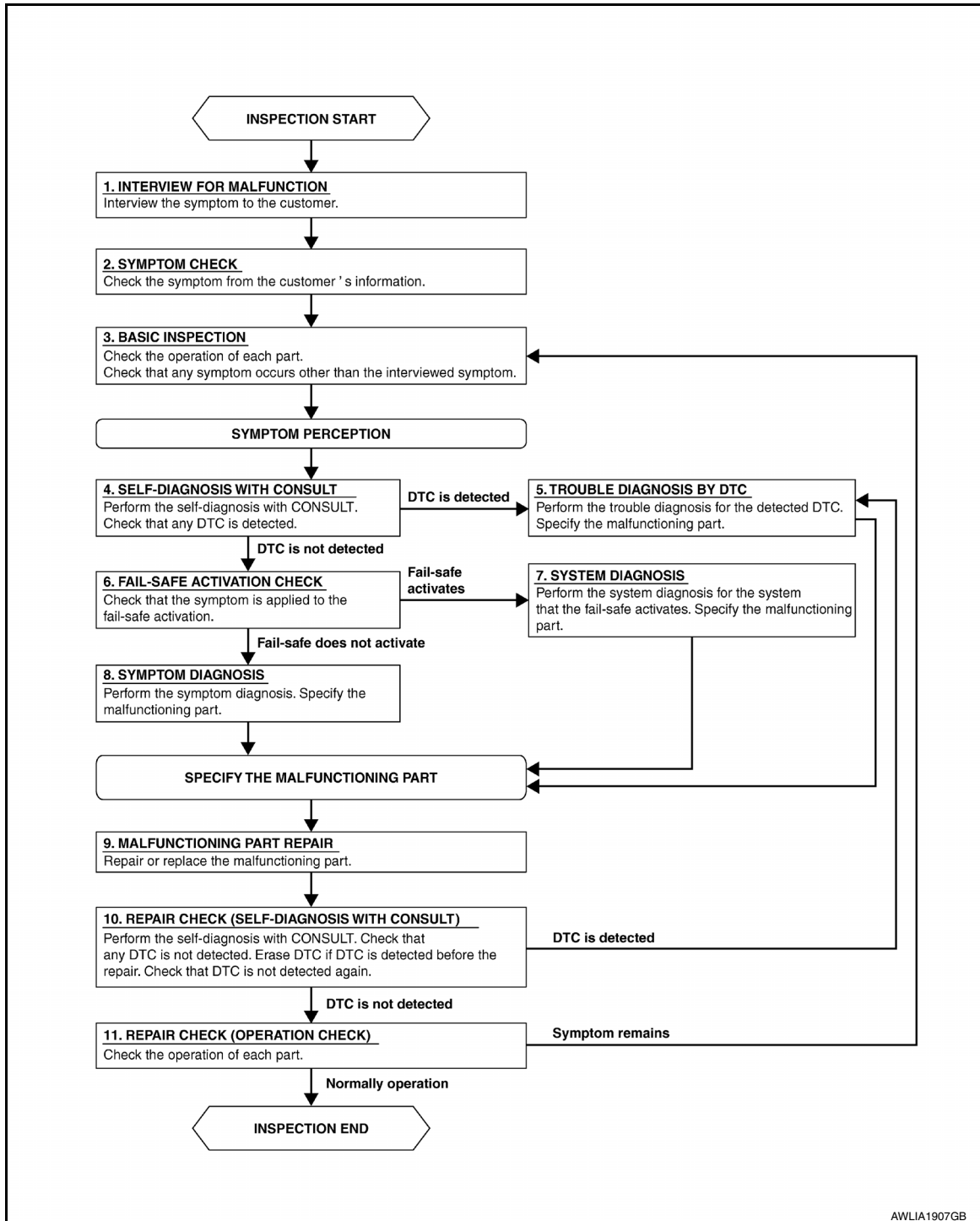
## BASIC INSPECTION

### DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

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#### OVERALL SEQUENCE



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# DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

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DETAILED FLOW

## 1. INTERVIEW FOR MALFUNCTION

---

Find out what the customer's concerns are.

>> GO TO 2

## 2. SYMPTOM CHECK

---

Verify the symptom from the customer's information.

>> GO TO 3

## 3. BASIC INSPECTION

---

Check the operation of each part. Check that any concerns occur other than those mentioned in the customer interview.

>> 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

---

Determine if the customer's concern is related to 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 in which the fail-safe activates. Specify the malfunctioning part.

>> GO TO 9

## 8. SYMPTOM DIAGNOSIS

---

Perform the symptom diagnosis. Refer to [INL-81, "Symptom Table"](#). 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. Verify that no DTCs are detected. Erase all DTCs detected prior to the repair. Verify that DTC is not detected again.

Is any DTC detected?

# DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

---

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

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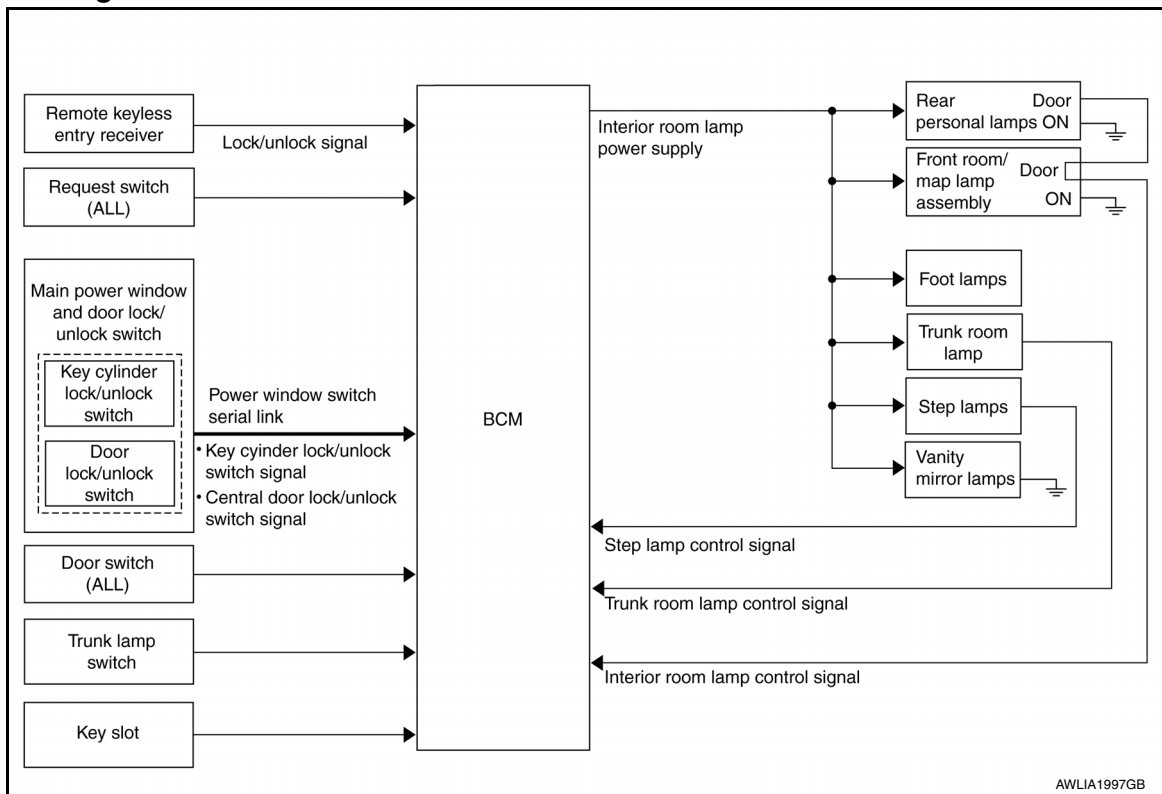
# INTERIOR ROOM LAMP CONTROL SYSTEM

< SYSTEM DESCRIPTION >

## SYSTEM DESCRIPTION

### INTERIOR ROOM LAMP CONTROL SYSTEM

#### System Diagram



#### System Description

INFOID:000000009465408

##### OUTLINE

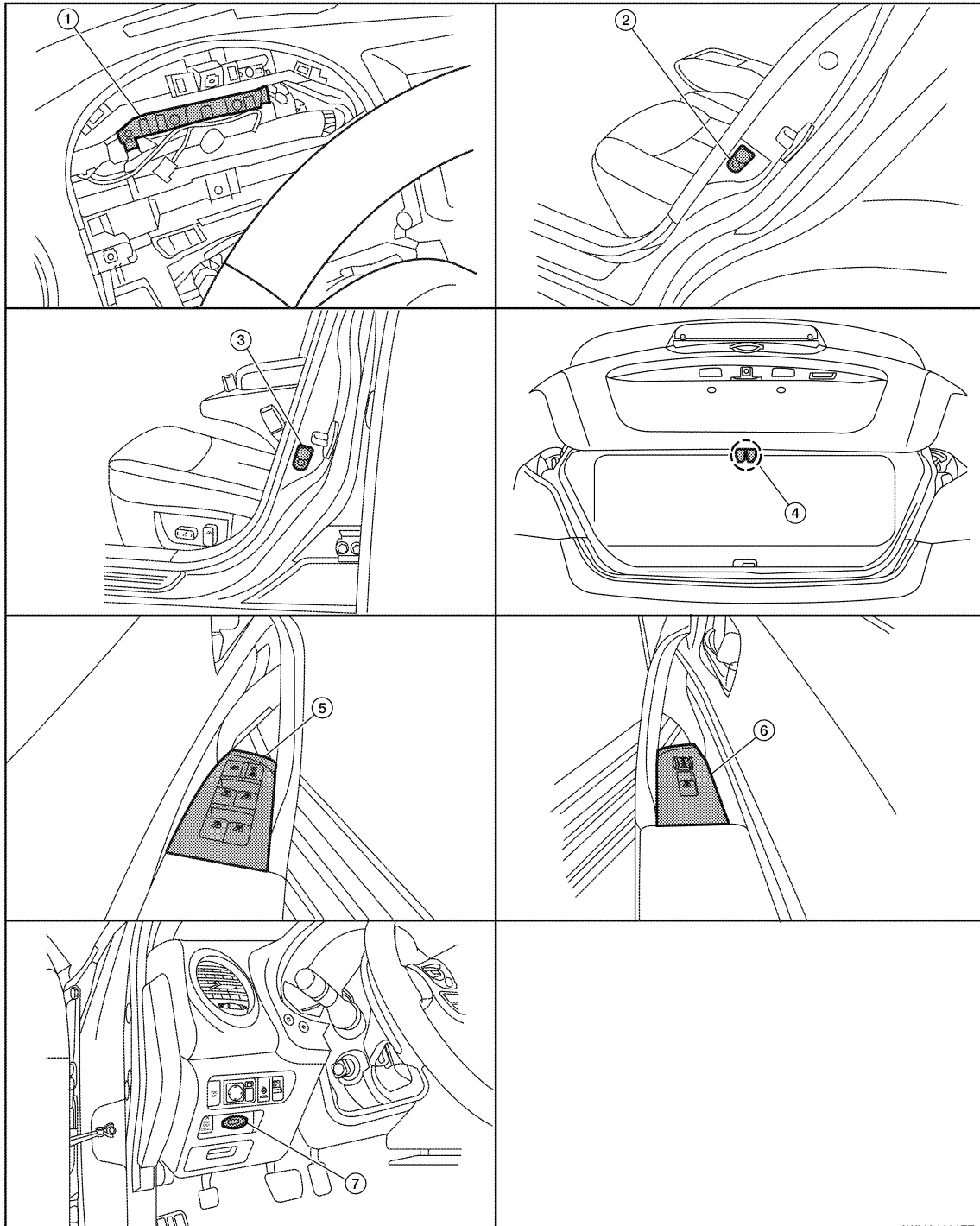
- Interior room lamps\* are controlled by interior room lamp timer control function of BCM.  
\*:Front room/map lamp assembly, foot lamps and rear personal lamps (when front room/map lamp assembly switch is in DOOR position).
- Trunk room lamp is controlled by trunk room lamp control function of BCM.
- Step lamps are controlled by step lamp control function of BCM.

# INTERIOR ROOM LAMP CONTROL SYSTEM

< SYSTEM DESCRIPTION >

## Component Parts Location

INFOID:00000009465409



- |   |   |   |
|---|---|---|
| 1. BCM M16, M17, M18, M19, M20, M21 (view with combination meter removed) | 2. Rear door switch LH B18, RH B116                     | 3. Front door switch LH B8, RH B108                 |
| 4. Trunk lamp switch and trunk release solenoid T7                        | 5. Main power window and door lock/unlock switch D7, D8 | 6. Power window and door lock/unlock switch RH D105 |
| 7. Key slot M40   |   |   |

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# INTERIOR ROOM LAMP CONTROL SYSTEM

< SYSTEM DESCRIPTION >

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## Component Description

INFOID:000000009465410

### SWITCH OPERATION

When a door is opened, the door switch closes to send a ground signal to the BCM. When the trunk is opened, the trunk lamp switch and trunk release solenoid closes sending a ground signal to the BCM.

### ROOM LAMP TIMER OPERATION

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

- When the front door LH is unlocked [with Intelligent Key, main power window and door lock/unlock switch, power window and door lock/unlock switch RH, or front door lock assembly (key cylinder switch)].
- When a door opens → closes and the Intelligent Key is not inserted in the key slot.

Timer control is cancelled under the following conditions.

- When the front door LH is locked [with Intelligent Key, main power window and door lock/unlock switch, power window and door lock/unlock switch RH, or front door lock assembly (key cylinder switch)].
- A door is opened (door switch turns ON).
- Intelligent Key is inserted into the key slot.

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 15 minutes after the ignition switch is turned OFF.

The BCM controls the interior lamps listed below

- Front step lamp LH and RH
- Rear step lamp LH and RH
- Front room/map lamp assembly
- Foot lamp LH and RH
- Personal lamp rear LH and RH
- Vanity mirror lamp LH and RH
- Trunk room lamp

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

- a signal is received from an Intelligent Key, main power window and door lock/unlock switch or power window and door lock/unlock switch RH, or when the front door LH lock assembly (key cylinder switch) is locked or unlocked
- a door is opened or closed
- the Intelligent Key is removed from or inserted into the key slot.

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

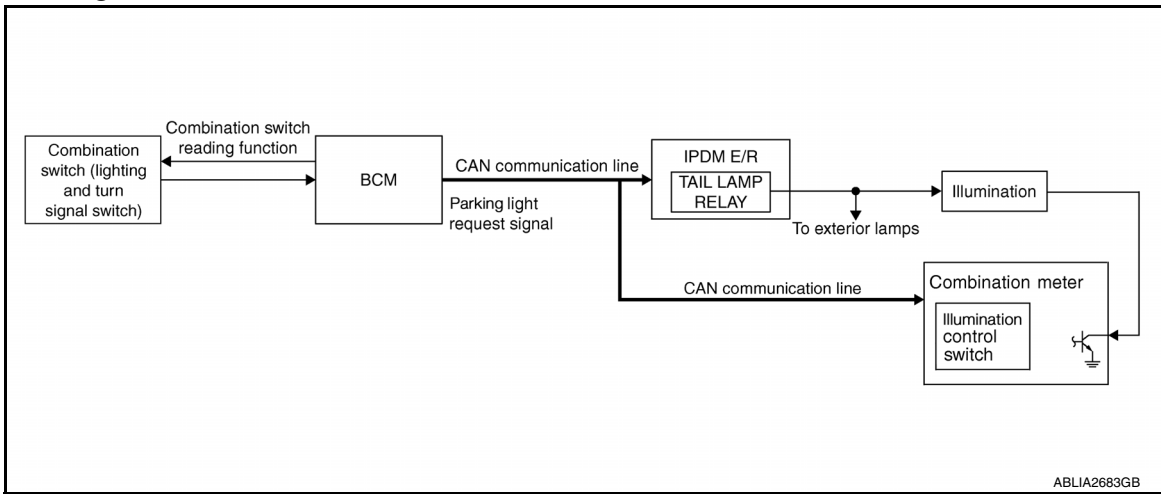


# ILLUMINATION CONTROL SYSTEM

< SYSTEM DESCRIPTION >

## ILLUMINATION CONTROL SYSTEM

### System Diagram



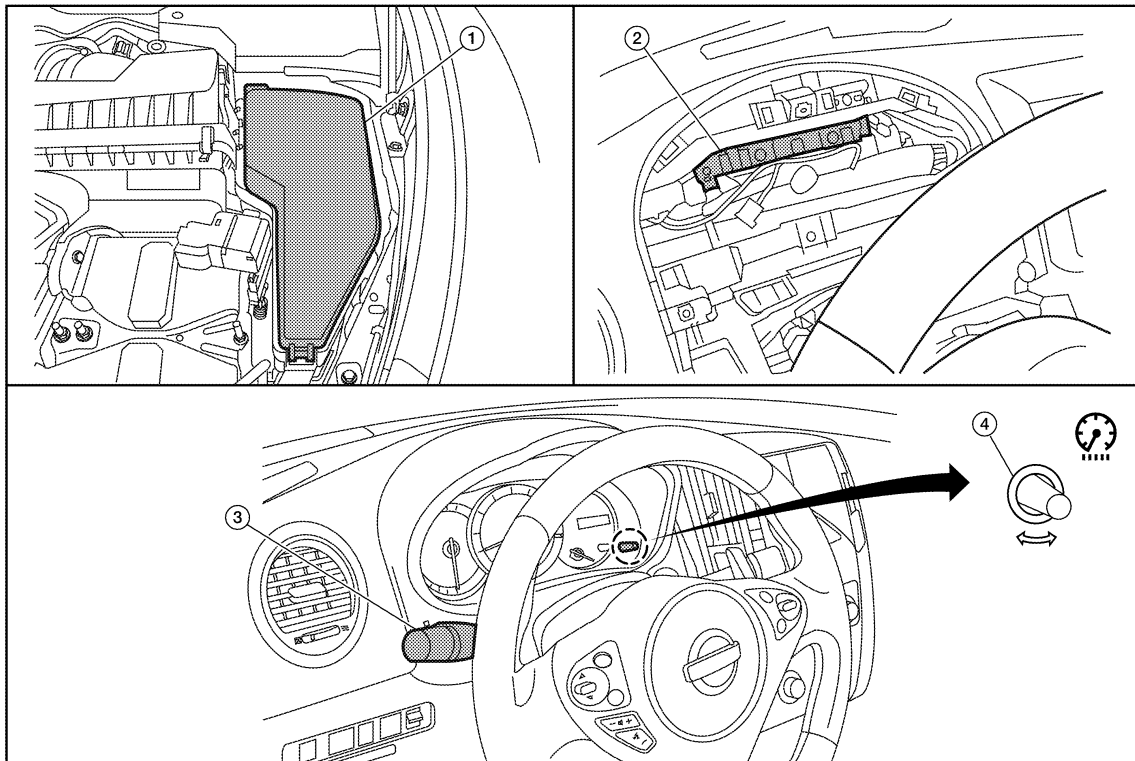
### System Description

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The illumination lamps operation is dependent upon the position of the lighting switch (combination switch). When the lighting switch is placed in the 1ST or 2ND position (or if the auto light system is activated) the BCM (body control module) receives input requesting the illumination lamps to illuminate. This input is communicated to the IPDM E/R (intelligent power distribution module engine room) across 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 illumination lamps, which then illuminate.

### Component Parts Location

INFOID:000000009465413



# ILLUMINATION CONTROL SYSTEM

## < SYSTEM DESCRIPTION >

---

1. IPDM E/R E17, E18
2. BCM M16, M17, M18, M19 (view with combination meter removed)
3. Combination switch (lighting and turn signal switch) M28
4. Illumination control switch (built into combination meter)

## Component Description

INFOID:000000009465414

### ILLUMINATION OPERATION BY LIGHTING SWITCH

With the lighting switch in the 1ST or 2ND position (or if the auto light system is activated), the BCM receives input requesting the illumination lamps to illuminate. This input is communicated to the IPDM E/R across the CAN communication lines. The CPU of the IPDM E/R controls the tail lamp relay coil which, when energized, directs power

### BATTERY SAVER CONTROL

When the lighting switch (combination 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 15 minutes unless the lighting switch position is changed. If the lighting switch position is changed, then the illumination lamps are turned off after a 30 second delay. When the lighting switch is turned from OFF to 1ST or 2ND position (or if auto light system is activated) after illumination lamps have been turned off by the battery saver control, the illumination lamps illuminate again.

# DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

## DIAGNOSIS SYSTEM (BCM)

### COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000010051378

### 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	Displays the diagnosis results judged by BCM.
Data Monitor	The BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Work support	Changes the setting for each system function.
Configuration	<ul style="list-style-type: none"> <li>Enables to read and save the vehicle specification.</li> <li>Enables to write the vehicle specification when replacing BCM.</li> </ul>
CAN Diag Support Mntr	Monitors the reception status of CAN communication viewed from BCM.

### 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	HEADLAMP			×	×	×		
Wiper and washer	WIPER			×	×	×		
Turn signal and hazard warning lamps	FLASHER			×	×	×		
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		×	×	×	×		

### INT LAMP

# DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

## INT LAMP : CONSULT Function (BCM - INT LAMP)

INFOID:000000010051379

### 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 of push button ignition switch
ACC RLY -F/B [ON/OFF]	Indicates condition of accessory relay
UNLK SEN -DR [On/Off]	Indicates condition of door unlock sensor
KEY SW -SLOT [On/Off]	Indicates condition of key slot
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
INT LAMP	This test is able to check interior room lamp operation [On/Off].
STEP LAMP TEST	This test is able to check step lamp operation [On/Off].
LUGGAGE LAMP TEST	This test is able to check trunk room lamp operation [On/Off].

### WORK SUPPORT

Support Item	Setting	Description
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.	
ROOM LAMP ON TIME SET	MODE 5   0 sec.	Sets the interior room lamp gradual brightening time.
	MODE 4   3 sec.	
	MODE 3   2 sec.	
	MODE 2*   1 sec.	
	MODE 1   0.5 sec.	

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Support Item	Setting		Description
ROOM LAMP OFF TIME SET	MODE 5	0 sec.	Sets the interior room lamp gradual dimming time.
	MODE 4*	3 sec.	
	MODE 3	2 sec.	
	MODE 2	1 sec.	
	MODE 1	0.5 sec.	
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.

\* : Initial setting

## BATTERY SAVER

### BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

INFOID:000000010051380

## 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
ACC RLY -F/B [On/Off]	Indicates condition of accessory relay
UNLK SEN -DR [On/Off]	Indicates condition of door unlock sensor
KEY SW -SLOT [On/Off]	Indicates condition of key slot
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
ROOM LAMP BAT SAV SET	ON*		Interior room lamp battery saver function ON
	OFF		Interior room 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.	

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Support Item	Setting	Description
BATTERY SAVER SET	ON*	Exterior lamp battery saver function ON
	OFF	Exterior lamp battery saver function OFF

\* : Initial setting

## INTELLIGENT KEY

### INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)

INFOID:000000010051381

## 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 opener request switch
PUSH SW [On/Off]		Indicates condition of push button ignition switch
IGN RLY2 -F/B [On/Off]		Indicates condition of ignition relay 2
ACC RLY -F/B [On/Off]		Indicates condition of accessory relay
BRAKE SW 1 [On/Off]	×	Indicates condition of brake switch
BRAKE SW 2 [On/Off]		Indicates condition of brake switch
DETE/CANCL SW [On/Off]	×	Indicates condition of P position
SFT PN/N SW [On/Off]	×	Indicates condition of P or N position
UNLK SEN -DR [On/Off]	×	Indicates condition of door unlock sensor
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 or N position from TCM on CAN communication line
SFT P -MET [On/Off]		Indicates condition of P position from TCM on CAN communication line
SFT N -MET [On/Off]		Indicates condition of N 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.
KEY SW -SLOT [On/Off]		Indicates condition of key slot.
TRNK/HAT MNTR [On/Off]		Indicates condition of trunk lid.
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-P/W OPEN [On/Off]		Indicates condition of power window down signal from Intelligent Key.

## DIAGNOSIS SYSTEM (BCM)

### < SYSTEM DESCRIPTION >

Monitor Item [Unit]	Main	Description
RKE-MODE CHG [On/Off]		Indicates condition of mode change signal 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.
REVERSE SW [On/Off]		Indicates condition of reverse switch status.

### ACTIVE TEST

Test Item	Description
BATTERY SAVER	This test is able to check battery saver operation [On/Off].
PW REMOTO DOWN SET	This test is able to check power window down operation [On/Off].
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation [Off/On].
INSIDE BUZZER	This test is able to check combination meter warning chime operation [Key/Knob/Take Out/Off].
INDICATOR	This test is able to check combination meter warning lamp operation [KEY IND/KEY ON/Off].
INT LAMP	This test is able to check interior room lamp operation [On/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/BP I/BP N].
TRUNK/GLASS HATCH	This test is able to check trunk lid opener actuator open operation [Open].
FLASHER	This test is able to check hazard lamp operation [Off/LH/RH].
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].
ENGINE SW ILLUMI	This test is able to check push button ignition switch illumination operation [On/Off].
LOCK INDICATOR	This test is able to check LOCK indicator in push button ignition switch operation [On/Off].
ACC INDICATOR	This test is able to check ACC indicator in push button ignition switch operation [On/Off].
IGNITION ON IND	This test is able to check ignition ON indicator in push button ignition switch operation [On/Off].
KEY SLOT ILLUMI	This test is able to check key slot illumination operation [On/Off].
TRUNK/BACK DOOR	This test is able to check trunk lid opener actuator operation [Open].

### WORK SUPPORT

Support Item	Setting	Description
CONFIRM KEY FOB ID	MEMORY 1	Intelligent Key ID code can be checked.
	MEMORY 2	
	MEMORY 3	
	MEMORY 4	
	NON REGIST	
AUTO LOCK SET	MODE 4   2 min	Auto door lock time can be set in this mode.
	MODE 3   30 sec	
	MODE 2   5 min	
	MODE 1*   1 min	
LOCK/UNLOCK BY I-KEY	On*	Door lock/unlock function from Intelligent Key ON.
	Off	Door lock/unlock function from Intelligent Key OFF.
ENGINE START BY I-KEY	On*	Engine start function from Intelligent Key ON.
	Off	Engine start function from Intelligent Key OFF.

## DIAGNOSIS SYSTEM (BCM)

### < SYSTEM DESCRIPTION >

Support Item	Setting		Description
TRUNK/GLASS HATCH OPEN	On*		Buzzer reminder function by trunk opener request switch ON.
	Off		Buzzer reminder function by trunk opener request switch OFF.
PANIC ALARM SET	MODE 3	1.5 sec	Panic alarm button set time on Intelligent Key can be set in this mode.
	MODE 2	OFF	
	MODE 1*	0.5 sec	
PW DOWN SET	MODE 3	5 sec	Unlock button press time on Intelligent Key to lower front window can be set in this mode.
	MODE 2	OFF	
	MODE 1*	3 sec	
TRUNK OPEN DELAY	MODE 3	1.5 sec	Trunk button pressing time on Intelligent Key button can be selected from the following with this mode.
	MODE 2	OFF	
	MODE 1*	0.5 sec	
LO- BATT OF KEY FOB WARN	On*		Intelligent Key low battery warning mode ON.
	Off		Intelligent Key low battery warning mode OFF.
ANTI KEY LOCK IN FUNCTI	On*		Key reminder function mode ON.
	Off		Key reminder function mode OFF.
HAZARD ANSWER BACK	Lock/Unlock*		Hazard warning lamp activation when doors are locked or unlocked with Intelligent Key.
	Unlock Only		Hazard warning lamp activation when doors are unlocked with Intelligent Key.
	Lock Only		Hazard warning lamp activation when doors are locked with Intelligent Key.
	Off		No hazard warning lamp activation when doors are locked or unlocked with Intelligent Key.
ANS BACK I-KEY LOCK	Horn Chirp		Horn chirp reminder when doors are unlocked with Intelligent Key
	Buzzer*		Buzzer or horn chirp reminder when doors are unlocked with Intelligent Key
	Off		No buzzer or horn chirp reminder when doors are unlocked with Intelligent Key
ANS BACK I-KEY UNLOCK	Off		No buzzer or horn chirp reminder when doors are unlocked with Intelligent Key
	On*		Buzzer or horn chirp reminder when doors are unlocked with Intelligent Key
SHORT CRANKING OUTPUT	Start	70 msec	Starter motor operation duration times.
		100 msec	
		200 msec	
End			
INSIDE ANT DIAGNOSIS	Start		This function allows inside key antenna self-diagnosis.
HORN WITH KEYLESS LOCK	Off		No horn reminder activation when doors are locked with Intelligent Key.
	On*		Horn reminder activation when doors are locked with Intelligent Key.

\*: Initial Setting



# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## DTC/CIRCUIT DIAGNOSIS

### POWER SUPPLY AND GROUND CIRCUIT

#### BCM

#### BCM : Diagnosis Procedure

INFOID:000000010051384

Regarding Wiring Diagram information, refer to [BCS-67, "Wiring Diagram"](#).

### 1. CHECK FUSE AND FUSIBLE LINK

Check if the following BCM fuses or fusible link are blown.

Terminal No.	Signal name	Fuse and fusible link No.
1	Battery power supply	H
11		10
24		7

Is the fuse or fusible link 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.
3. Check voltage between BCM harness connector and ground.

Terminals		Voltage (Approx.)
(+)	(-)	
BCM		Ground  Battery voltage
Connector	Terminal	
M16	1	
M17	11	
M18	24	

Is the measurement normal?

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

### 3. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M17	13		Yes

Does continuity exist?

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

#### BCM : Special Repair Requirement

INFOID:000000010051385

### 1. REQUIRED WORK WHEN REPLACING BCM

## POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

---

Initialize control unit. Refer to [BCS-5. "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT \(BCM\): Work Procedure"](#).

>> Work End.

# BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

### Description

INFOID:000000009465421

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

### Component Function Check

INFOID:000000009465422

#### 1. CHECK BATTERY SAVER OUTPUT/POWER SUPPLY FUNCTION

##### CONSULT

- Turn ignition switch ON.
- Turn each interior room lamp ON.
  - Front room/map lamp assembly
  - Personal lamps rear
  - Foot lamps
  - Front step lamps
  - Rear step lamps
  - Trunk room lamp
  - Vanity mirror lamps
- Select "BATTERY SAVER" of BCM (BATTERY SAVER) active test item.
- 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-19, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000009465423

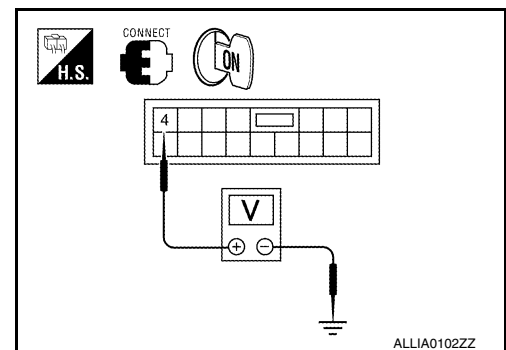
Regarding Wiring Diagram information, refer to [INL-55, "Wiring Diagram"](#).

#### 1. CHECK BATTERY SAVER OUTPUT/POWER SUPPLY OUTPUT

##### CONSULT

- Turn ignition switch ON.
- Select "BATTERY SAVER" of BCM (BATTERY SAVER) active test item.
- While operating the test item, check voltage between BCM connector M17 terminal 4 and ground.

(+)		(-)	Test item	Voltage
BCM		Ground	BATTERY SAVER	
Connector	Terminal		OFF	0V
M17	4		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-79, "Removal and Installation"](#).

#### 2. CHECK BATTERY SAVER OUTPUT/POWER SUPPLY OPEN CIRCUIT

- Turn ignition switch OFF.
- Disconnect the following connectors.

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

# BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

## < DTC/CIRCUIT DIAGNOSIS >

- BCM M17
  - Front room/map lamp assembly
  - Vanity mirror lamp LH
  - Vanity mirror lamp RH
  - Foot lamp LH
  - Foot lamp RH
  - Front step lamp LH
  - Front step lamp RH
  - Rear step lamp LH
  - Rear step lamp RH
  - Trunk room lamp
3. Check continuity between BCM connector M17 terminal 4 and each interior room lamp connector.

BCM		Each interior room lamp			Continuity
Connector	Terminal	Connector		Terminal	
M17	4	Front room/map lamp assembly	R8	1	Yes
		Vanity mirror lamp LH	R3	2	
		Vanity mirror lamp RH	R9	2	
		Foot lamp LH	M99	1	
		Foot lamp RH	M100	1	
		Front step lamp LH	D11	1	
		Front step lamp RH	D109	1	
		Rear step lamp LH	D206	1	
		Rear step lamp RH	D301	1	
		Trunk room lamp	B36	1	

Is the inspection result normal?

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

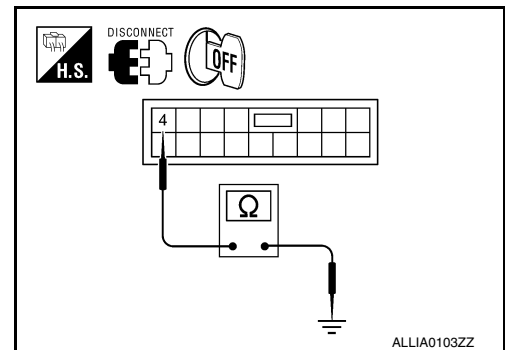
### 3.CHECK BATTERY SAVER OUTPUT/POWER SUPPLY SHORT CIRCUIT

Check continuity between BCM connector M17 terminal 4 and ground.

BCM		Ground	Continuity
Connector	Terminal		
M17	4		No

Is the inspection result normal?

- YES >> Replace the interior room lamp. Refer to [INL-84](#), "[Removal and Installation](#)".
- NO >> Repair the harness or connectors.



# INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## INTERIOR ROOM LAMP CONTROL CIRCUIT

### Description

INFOID:000000009465424

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:000000009465425

#### CAUTION:

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

- Battery saver output/power supply
- Front room/map lamp assembly bulbs
- Personal lamp rear bulbs
- Foot lamp bulbs

### 1. CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

#### CONSULT

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

**ON** : Interior room lamp gradual brightening

**OFF** : Interior room lamp gradual dimming

Is the inspection result normal?

YES >> Interior room lamp control circuit is normal.

NO >> Refer to [INL-21, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000009465426

Regarding Wiring Diagram information, refer to [INL-55, "Wiring Diagram"](#).

### 1. CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

#### CONSULT

1. Turn ignition switch ON.
2. Select "INT LAMP" of BCM (INT LAMP) active test item.
3. While operating the test item, check voltage between BCM connector M17 terminal 19 and ground.

BCM		Ground	Test item	Voltage
Connector	Terminal		INT LAMP	
M17	19		ON	0V
			OFF	Battery voltage

Is the inspection result normal?

YES >> Interior room lamp control circuit is operating normally.

Fixed ON>>GO TO 3

Fixed OFF>>GO TO 2

### 2. CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector M17, front room/map lamp assembly and foot lamp connectors.
3. Check continuity between BCM connector M17 terminal 19 and each interior room lamp connector.

# INTERIOR ROOM LAMP CONTROL CIRCUIT

## < DTC/CIRCUIT DIAGNOSIS >

BCM		Interior room lamp			Continuity
Connector	Terminal	Connector		Terminal	
M17	19	Front room/map lamp assembly	R8	2	Yes
		Foot lamp LH	M99	2	
		Foot lamp RH	M100	2	

**Is the inspection result normal?**

YES >> Check interior room lamps for an open. If OK, replace BCM. Refer to [BCS-79, "Removal and Installation"](#). If NG, replace the interior room lamp. Refer to [INL-84, "Removal and Installation"](#).

NO >> Repair the harness or connectors.

### 3. CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

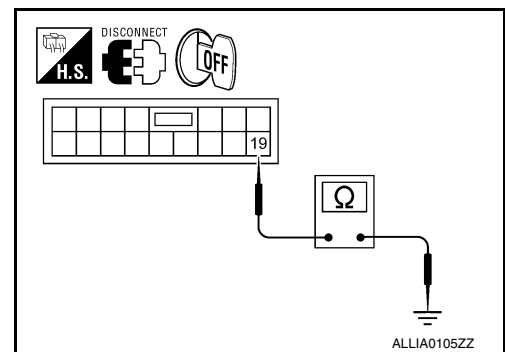
1. Turn ignition switch OFF.
2. Disconnect BCM connector M17, front room/map lamp assembly and foot lamp connectors.
3. Check continuity between BCM connector M17 terminal 19 and ground.

BCM		Ground	Continuity
Connector	Terminal		
M17	19		No

**Is the inspection result normal?**

YES >> Check interior room lamps for a short circuit. If OK, replace BCM. Refer to [BCS-79, "Removal and Installation"](#). If NG, replace the interior room lamp. Refer to [INL-84, "Removal and Installation"](#).

NO >> Repair the harness or connectors.



# STEP LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## STEP LAMP CIRCUIT

### Description

INFOID:000000009465427

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

### Component Function Check

INFOID:000000009465428

#### CAUTION:

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

- Battery saver output/power supply
- Step lamp bulbs

### 1.CHECK STEP LAMP OPERATION

#### CONSULT

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

**ON** : Step lamp ON

**OFF** : Step lamp OFF

#### Is the inspection result normal?

- YES >> Step lamp control circuit is normal.  
 NO >> Refer to [INL-23, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000009465429

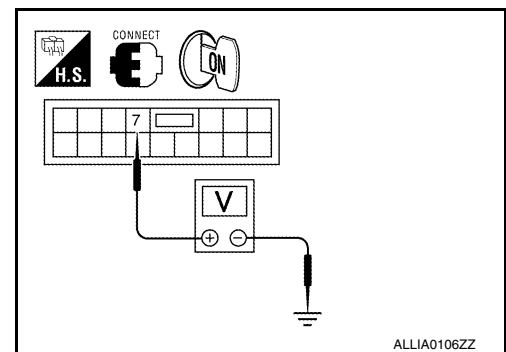
Regarding Wiring Diagram information, refer to [INL-55, "Wiring Diagram"](#).

### 1.CHECK STEP LAMP OUTPUT

#### CONSULT

1. Turn ignition switch ON.
2. Select "STEP LAMP TEST" of BCM (INT LAMP) active test item.
3. While operating the test item, check voltage between BCM connector M17 terminal 7 and ground.

BCM		Ground	Test item	Voltage
Connector	Terminal		STEP LAMP TEST	
M17	7		ON	0V
			OFF	Battery voltage



#### Is the inspection result normal?

- YES >> Step lamp control circuit is operating normally.  
 Fixed ON>>GO TO 3  
 Fixed OFF>>GO TO 2

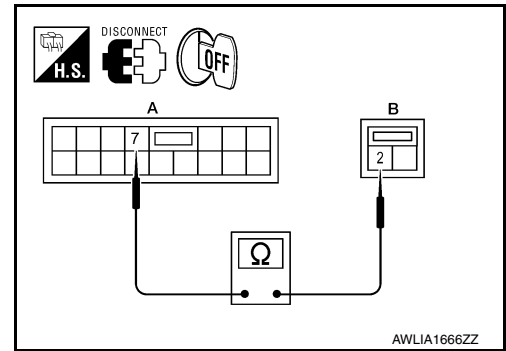
### 2.CHECK STEP LAMP OPEN CIRCUIT

## STEP LAMP CIRCUIT

### < DTC/CIRCUIT DIAGNOSIS >

1. Turn ignition switch OFF.
2. Disconnect BCM connector M17 and step lamp connectors.
3. Check continuity between BCM connector M17 (A) terminal 7 and step lamp connectors (B) terminal 2.

BCM		Step lamp			Continuity
Connector	Terminal	Connector	Terminal	Terminal	
M17 (A)	7	Front LH	D11 (B)	2	Yes
		Front RH	D109 (B)	2	
		Rear LH	D206 (B)	2	
		Rear RH	D301 (B)	2	



#### Is the inspection result normal?

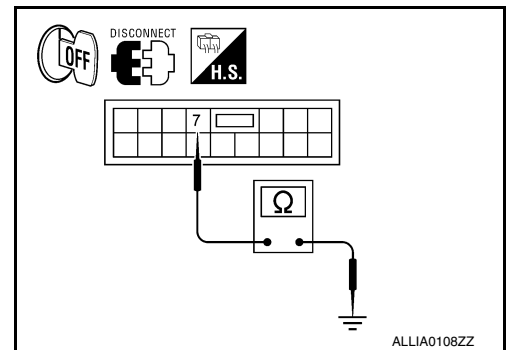
YES >> Check step lamp for an open. If OK, replace BCM. Refer to [BCS-79, "Removal and Installation"](#). If NG, replace step lamp. Refer to [INL-84, "Removal and Installation"](#).

NO >> Repair harness or connectors.

### 3. CHECK STEP LAMP SHORT CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector M17 and step lamp connectors.
3. Check continuity between BCM connector M17 terminal 7 and ground.

BCM		Ground	Continuity
Connector	Terminal		
M17	7		No



#### Is the inspection result normal?

YES >> Check step lamp for a short circuit. If OK, replace BCM. Refer to [BCS-79, "Removal and Installation"](#). If NG, replace step lamp. Refer to [INL-84, "Removal and Installation"](#).

NO >> Repair the harness or connectors.



# TRUNK ROOM LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## TRUNK ROOM LAMP CIRCUIT

### Description

INFOID:000000009465430

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

### Component Function Check

INFOID:000000009465431

#### CAUTION:

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

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

### 1.CHECK TRUNK ROOM LAMP OPERATION

#### CONSULT

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

**ON** : Trunk room lamp ON

**OFF** : Trunk room lamp OFF

#### Is the inspection result normal?

- YES >> Trunk room lamp control circuit is normal.  
 NO >> Refer to [INL-25, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000009465432

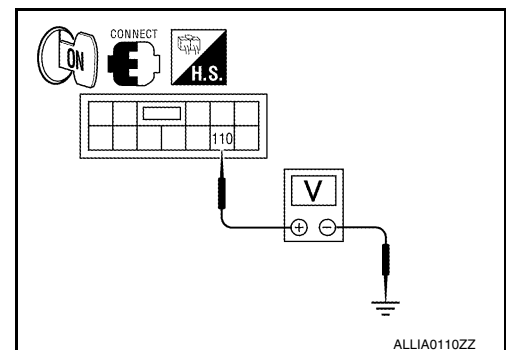
Regarding Wiring Diagram information, refer to [INL-55, "Wiring Diagram"](#).

### 1.CHECK TRUNK ROOM LAMP OUTPUT

#### CONSULT

1. Turn ignition switch ON.
2. Select "LUGGAGE LAMP TEST" of BCM (INT LAMP) active test item.
3. While operating the test item, check voltage between BCM connector M20 terminal 110 and ground.

BCM		Ground	Test item	Voltage
Connector	Terminal		LUGGAGE LAMP TEST	
M20	110		ON	0V
			OFF	Battery voltage



#### Is the inspection result normal?

- YES >> Trunk room lamp control circuit is operating normally.  
 Fixed ON>>GO TO 3  
 Fixed OFF>>GO TO 2

### 2.CHECK TRUNK ROOM LAMP OPEN CIRCUIT

# TRUNK ROOM LAMP CIRCUIT

## < DTC/CIRCUIT DIAGNOSIS >

1. Turn ignition switch OFF.
2. Disconnect BCM connector M20 and trunk room lamp connector.
3. Check continuity between BCM connector M20 (A) terminal 110 and trunk room lamp connector B36 (B) terminal 2.

BCM		Trunk room lamp		Continuity
Connector	Terminal	Connector	Terminal	
M20	110	B36	2	Yes

Is the inspection result normal?

YES >> Check trunk room lamp for an open. If OK, replace BCM. Refer to [BCS-79, "Removal and Installation"](#). If NG, replace trunk room lamp. Refer to [INL-84, "Removal and Installation"](#).

NO >> Repair harness or connectors.

### 3. CHECK TRUNK ROOM LAMP SHORT CIRCUIT

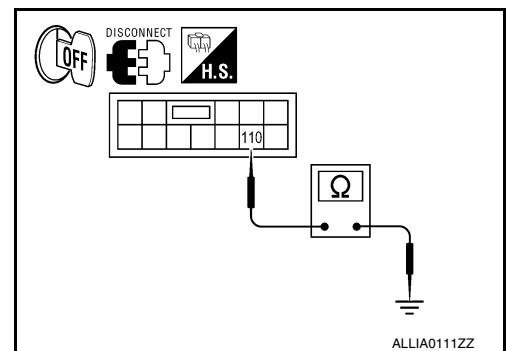
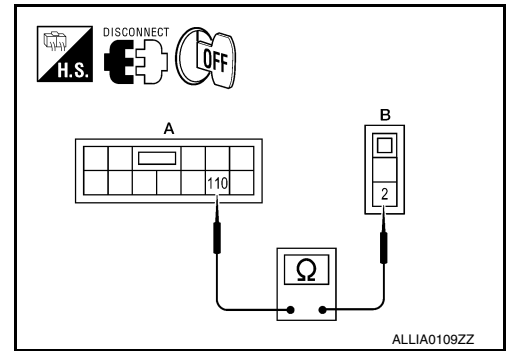
1. Turn ignition switch OFF.
2. Disconnect BCM connector M20 and trunk room lamp connector.
3. Check continuity between BCM connector M20 terminal 110 and ground.

BCM		Ground	Continuity
Connector	Terminal		
M20	110		No

Is the inspection result normal?

YES >> Check trunk room lamp for a short circuit. If OK, replace BCM. Refer to [BCS-79, "Removal and Installation"](#). If NG, replace trunk room lamp. Refer to [INL-84, "Removal and Installation"](#).

NO >> Repair harnesses or connectors.



# PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

### Description

INFOID:000000009465433

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

### Component Function Check

INFOID:000000009465434

#### 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-27, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000009465435

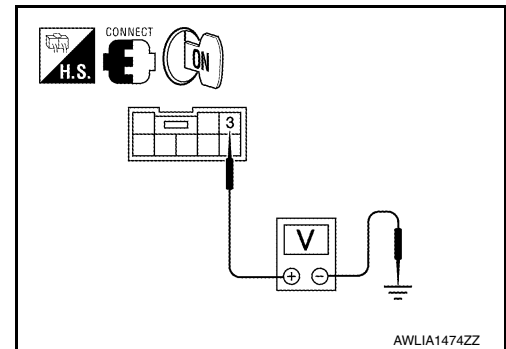
Regarding Wiring Diagram information, refer to [INL-67, "Wiring Diagram"](#).

#### 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 voltage between push-button ignition switch connector M38 terminal 3 and ground.

Terminals		Test item	Voltage	
(+)	(-)			
Push-button ignition switch	Ground	ENGINE SW ILLUMI		
Connector				Terminal
M38				3
		ON	5.5V	
		OFF	0V	



##### Is the inspection result normal?

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

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

# PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

## < DTC/CIRCUIT DIAGNOSIS >

1. Turn the ignition switch OFF.
2. Disconnect BCM connector M18 and push-button ignition switch connector.
3. Check continuity between BCM connector M18 (A) terminal 41 and push-button ignition switch connector M38 (B) terminal 3.

BCM		Push-button ignition switch		Continuity
Connector	Terminal	Connector	Terminal	
M18 (A)	41	M38 (B)	3	Yes

Is the inspection result normal?

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

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

Check continuity between BCM connector M18 terminal 41 and ground.

BCM		Ground	Continuity
Connector	Terminal		
M18	41		No

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-79. "Removal and Installation"](#).  
 NO >> Repair 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 M38 terminal 2 and ground.

Push-button ignition switch		Ground	Continuity
Connector	Terminal		
M38	2		No

Is the inspection result normal?

- YES >> Replace push-button ignition switch. Refer to [SEC-164. "Removal and Installation"](#).  
 NO >> GO TO 5

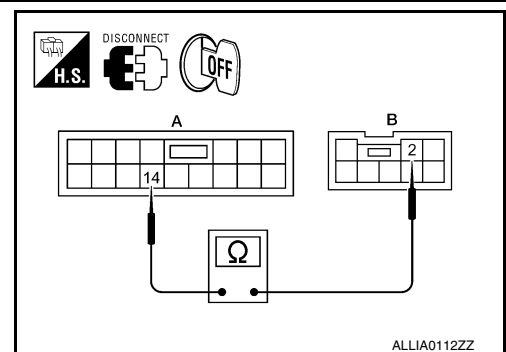
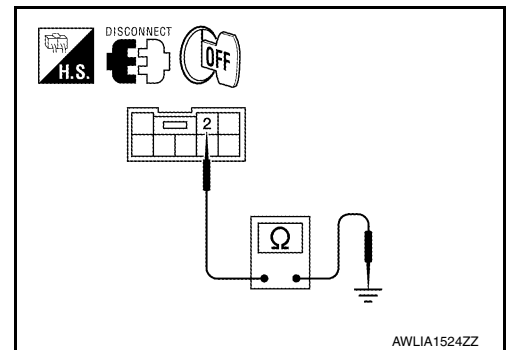
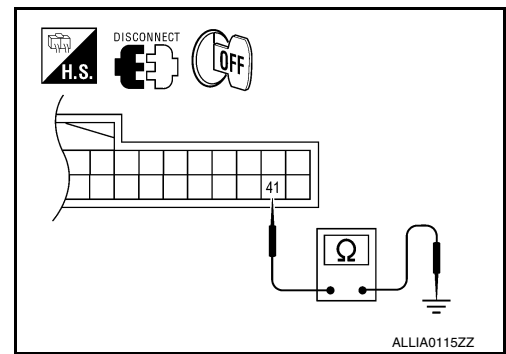
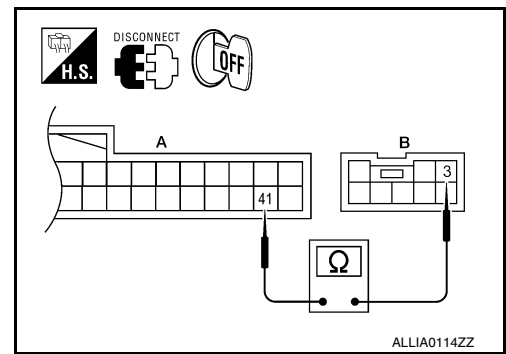
### 5.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION GROUND OPEN CIRCUIT

1. Disconnect BCM connector M17.
2. Check continuity between BCM connector M17 (A) terminal 14 and push-button ignition switch connector M38 (B) terminal 2.

BCM		Push-button ignition switch		Continuity
Connector	Terminal	Connector	Terminal	
M17 (A)	14	M38 (B)	2	Yes

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-79. "Removal and Installation"](#).  
 NO >> Repair the harness or connectors.



## BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

# ECU DIAGNOSIS INFORMATION

## BCM (BODY CONTROL MODULE)

### Reference Value

INFOID:000000010051278

#### NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS transmitter IDs
- Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- Register TPMS transmitter IDs
- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

### VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	OFF
	Front wiper switch HI	ON
FR WIPER LOW	Other than front wiper switch LO	OFF
	Front wiper switch LO	ON
FR WASHER SW	Front washer switch OFF	OFF
	Front washer switch ON	ON
FR WIPER INT	Other than front wiper switch INT	OFF
	Front wiper switch INT	ON
FR WIPER STOP	Front wiper is not in STOP position	OFF
	Front wiper is in STOP position	ON
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
TURN SIGNAL R	Other than turn signal switch RH	OFF
	Turn signal switch RH	ON
TURN SIGNAL L	Other than turn signal switch LH	OFF
	Turn signal switch LH	ON
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	OFF
	Lighting switch 1ST or 2ND	ON
HI BEAM SW	Other than lighting switch HI	OFF
	Lighting switch HI	ON
HEAD LAMP SW 1	Other than lighting switch 2ND	OFF
	Lighting switch 2ND	ON
HEAD LAMP SW 2	Other than lighting switch 2ND	OFF
	Lighting switch 2ND	ON
PASSING SW	Other than lighting switch PASS	OFF
	Lighting switch PASS	ON
AUTO LIGHT SW	Other than lighting switch AUTO	OFF
	Lighting switch AUTO	ON
FR FOG SW	Front fog lamp switch OFF	OFF
	Front fog lamp switch ON	ON
DOOR SW-DR	Driver door closed	OFF
	Driver door opened	ON

## BCM (BODY CONTROL MODULE)

### < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
DOOR SW-AS	Passenger door closed	OFF
	Passenger door opened	ON
DOOR SW-RR	Rear door RH closed	OFF
	Rear door RH opened	ON
DOOR SW-RL	Rear door LH closed	OFF
	Rear door LH opened	ON
DOOR SW-BK	Trunk door closed	OFF
	Trunk door opened	ON
CDL LOCK SW	Other than power door lock switch LOCK	OFF
	Power door lock switch LOCK	ON
CDL UNLOCK SW	Other than power door lock switch UNLOCK	OFF
	Power door lock switch UNLOCK	ON
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	OFF
	Driver door key cylinder LOCK position	ON
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	OFF
	Driver door key cylinder UNLOCK position	ON
HAZARD SW	When hazard switch is not pressed	OFF
	When hazard switch is pressed	ON
REAR DEF SW	When rear window defogger switch is pressed	ON
TR CANCEL SW	Trunk lid opener cancel switch OFF	OFF
	Trunk lid opener cancel switch ON	ON
TR/BD OPEN SW	Trunk lid opener switch OFF	OFF
	While the trunk lid opener switch is turned ON	ON
TRNK/HAT MNTR	Trunk lid closed	OFF
	Trunk lid opened	ON
RKE-LOCK	When LOCK button of Intelligent Key is not pressed	OFF
	When LOCK button of Intelligent Key is pressed	ON
RKE-UNLOCK	When UNLOCK button of Intelligent Key is not pressed	OFF
	When UNLOCK button of Intelligent Key is pressed	ON
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is not pressed	OFF
	When TRUNK OPEN button of Intelligent Key is pressed	ON
RKE-PANIC	When PANIC button of Intelligent Key is not pressed	OFF
	When PANIC button of Intelligent Key is pressed	ON
RKE-P/W OPEN	When UNLOCK button of Intelligent Key is not pressed and held	OFF
	When UNLOCK button of Intelligent Key is pressed and held	ON
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	OFF
	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	ON
OPTICAL SENSOR	When outside of the vehicle is bright	Close to 5 V
	When outside of the vehicle is dark	Close to 0 V
REQ SW -DR	When front door request switch is not pressed (driver side)	OFF
	When front door request switch is pressed (driver side)	ON
REQ SW -AS	When front door request switch is not pressed (passenger side)	OFF
	When front door request switch is pressed (passenger side)	ON

## BCM (BODY CONTROL MODULE)

### < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	
REQ SW -RL	When rear door request switch is not pressed (driver side)	OFF	A
	When rear door request switch is pressed (driver side)	ON	
REQ SW -RR	When rear door request switch is not pressed (passenger side)	OFF	B
	When rear door request switch is pressed (passenger side)	ON	
REQ SW -BD/TR	When trunk opener request switch is not pressed	OFF	C
	When trunk opener request switch is pressed	ON	
PUSH SW	When engine switch (push switch) is not pressed	OFF	D
	When engine switch (push switch) is pressed	ON	
IGN RLY2 -F/B	Ignition switch OFF or ACC	OFF	E
	Ignition switch ON	ON	
ACC RLY -F/B	Ignition switch OFF	OFF	F
	Ignition switch ACC or ON	ON	
BRAKE SW 1	When the brake pedal is not depressed	ON	G
	When the brake pedal is depressed	OFF	
DETE/CANCL SW	When selector lever is in P position	OFF	H
	When selector lever is in any position other than P	ON	
SFT PN/N SW	When selector lever is in any position other than P or N	OFF	I
	When selector lever is in P or N position	ON	
UNLK SEN -DR	Driver door UNLOCK status	OFF	J
	Driver door LOCK status	ON	
PUSH SW -IPDM	When engine switch (push switch) is not pressed	OFF	K
	When engine switch (push switch) is pressed	ON	
IGN RLY1 -F/B	Ignition switch OFF or ACC	OFF	L
	Ignition switch ON	ON	
DETE SW -IPDM	When selector lever is in P position	OFF	M
	When selector lever is in any position other than P	ON	
SFT PN -IPDM	When selector lever is in any position other than P or N	OFF	N
	When selector lever is in P or N position	ON	
SFT P -MET	When selector lever is in any position other than P	OFF	O
	When selector lever is in P position	ON	
SFT N -MET	When selector lever is in any position other than N	OFF	P
	When selector lever is in N position	ON	
ENGINE STATE	Engine stopped	STOP	
	While the engine stalls	STALL	
	At engine cranking	CRANK	
	Engine running	RUN	
VEH SPEED 1	While driving	Equivalent to speedometer reading	
VEH SPEED 2	While driving	Equivalent to speedometer reading	
DOOR STAT-DR	Driver door LOCK status	LOCK	
	Wait with selective UNLOCK operation (5 seconds)	READY	
	Driver door UNLOCK status	UNLK	
DOOR STAT-AS	Passenger door LOCK status	LOCK	
	Wait with selective UNLOCK operation (5 seconds)	READY	
	Passenger door UNLOCK status	UNLK	

## BCM (BODY CONTROL MODULE)

### < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
ID OK FLAG	Ignition switch ACC or ON	RESET
	Ignition switch OFF	SET
PRMT ENG STRT	When the engine start is prohibited	RESET
	When the engine start is permitted	SET
KEY SW -SLOT	When Intelligent Key is not inserted into key slot	OFF
	When Intelligent Key is inserted into key slot	ON
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key
CONFIRM ID ALL	The key ID that the key slot receives does not accord with any key ID registered to BCM.	YET
	The key ID that the key slot receives accords with any key ID registered to BCM.	DONE
CONFIRM ID4	The key ID that the key slot receives does not accord with the fourth key ID registered to BCM.	YET
	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	DONE
CONFIRM ID3	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	YET
	The key ID that the key slot receives accords with the third key ID registered to BCM.	DONE
CONFIRM ID2	The key ID that the key slot receives does not accord with the second key ID registered to BCM.	YET
	The key ID that the key slot receives accords with the second key ID registered to BCM.	DONE
CONFIRM ID1	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	YET
	The key ID that the key slot receives accords with the first key ID registered to BCM.	DONE
TP 4	The ID of fourth key is not registered to BCM	YET
	The ID of fourth key is registered to BCM	DONE
TP 3	The ID of third key is not registered to BCM	YET
	The ID of third key is registered to BCM	DONE
TP 2	The ID of second key is not registered to BCM	YET
	The ID of second key is registered to BCM	DONE
TP 1	The ID of first key is not registered to BCM	YET
	The ID of first key is registered to BCM	DONE
AIR PRESS FL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGST FL1	When ID of front LH tire transmitter is registered	DONE
	When ID of front LH tire transmitter is not registered	YET
ID REGST FR1	When ID of front RH tire transmitter is registered	DONE
	When ID of front RH tire transmitter is not registered	YET
ID REGST RR1	When ID of rear RH tire transmitter is registered	DONE
	When ID of rear RH tire transmitter is not registered	YET



# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
ID REGST RL1	When ID of rear LH tire transmitter is registered	DONE
	When ID of rear LH tire transmitter is not registered	YET
WARNING LAMP	Tire pressure indicator OFF	OFF
	Tire pressure indicator ON	ON
BUZZER	Tire pressure warning alarm is not sounding	OFF
	Tire pressure warning alarm is sounding	ON

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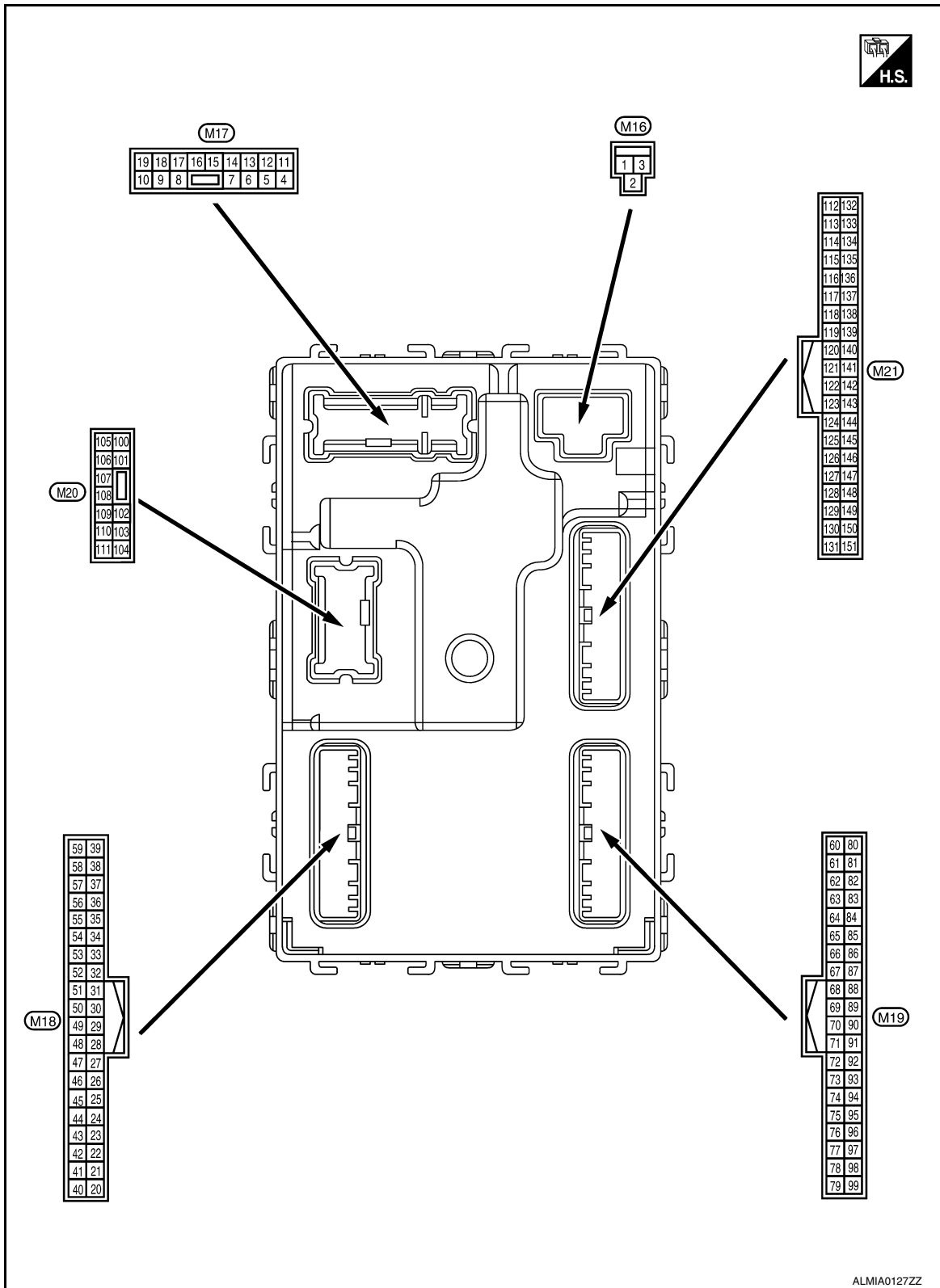
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# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

## Terminal Layout

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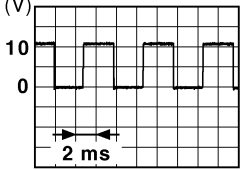


## Physical Values

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# BCM (BODY CONTROL MODULE)

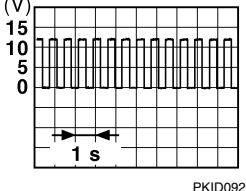
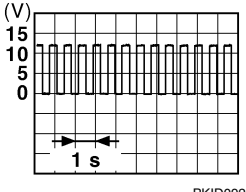
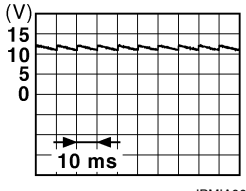
## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
		Signal name	Input/ Output			
(+)	(-)					
1 (W/B)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
2 (R/Y)	Ground	Battery power supply output	Output	Ignition switch OFF		Battery voltage
3 (L/W)	Ground	Ignition power supply output	Output	Ignition switch ON		Battery voltage
4 (P/W)	Ground	Interior room lamp power supply	Output	After passing the interior room lamp battery saver operation time		0V
				Any other time after passing the interior room lamp battery saver operation time		Battery voltage
5 (G)	Ground	Front door RH UNLOCK	Output	Front door RH	UNLOCK (actuator is activated)	Battery voltage
					Other than UNLOCK (actuator is not activated)	0V
7 (R/W)	Ground	Step lamp	Output	Step lamp	ON	0V
					OFF	Battery voltage
8 (V)	Ground	All doors LOCK	Output	All doors	LOCK (actuator is activated)	Battery voltage
					Other than LOCK (actuator is not activated)	0V
9 (L)	Ground	Front door LH UNLOCK	Output	Front door LH	UNLOCK (actuator is activated)	Battery voltage
					Other than UNLOCK (actuator is not activated)	0V
10 (G)	Ground	Rear door RH and rear door LH UNLOCK	Output	Rear door RH and rear door LH	UNLOCK (actuator is activated)	Battery voltage
					Other than UNLOCK (actuator is not activated)	0V
11 (Y/R)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
13 (B)	Ground	Ground	—	Ignition switch ON		0V
14 (GR/W)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	OFF	0V
					ON	<p><b>NOTE:</b> When the illumination brightening/dimming level is in the neutral position</p>  <p style="text-align: right; font-size: small;">JSNIA0010GB</p>
15 (Y/L)	Ground	ACC indicator lamp	Output	Ignition switch	OFF	Battery voltage
					ACC or ON	0V

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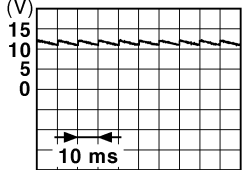
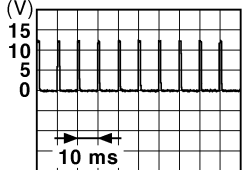
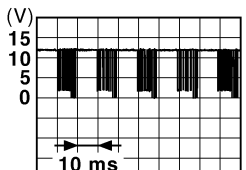
# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
(+)	(-)	Signal name	Input/ Output			
17 (G/B)	Ground	Turn signal (RH)	Output	Ignition switch ON	Turn signal switch OFF	0V
					Turn signal switch RH	 <p style="text-align: center;">6.5 V</p>
18 (G/Y)	Ground	Turn signal (LH)	Output	Ignition switch ON	Turn signal switch OFF	0V
					Turn signal switch LH	 <p style="text-align: center;">6.5 V</p>
19 (Y)	Ground	Room lamp timer control	Output	Interior room lamp	OFF	Battery voltage
					ON	0V
21 (P/B)	Ground	Optical sensor signal	Input	Ignition switch ON	When outside of the vehi- cle is bright	Close to 5V
					When outside of the vehi- cle is dark	Close to 0V
24 (R/W)	Ground	Stop lamp switch 1	Input	—	—	Battery voltage
26 (O/L)	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (brake pedal is re- leased)	0V
					ON (brake pedal is de- pressed)	Battery voltage
27 (O)	Ground	Front door lock as- sembly LH (unlock sensor)	Input	Front door LH	LOCK status	 <p style="text-align: center;">11.8V</p>
					UNLOCK status	0V
29 (Y)	Ground	Key slot switch	Input	When Intelligent Key is inserted into key slot	—	Battery voltage
				When Intelligent Key is not inserted into key slot	—	0V
31 (G)	Ground	Rear window defog- ger feedback signal	Input	Rear window de- fogger switch	OFF	0V
					ON	Battery voltage

# BCM (BODY CONTROL MODULE)

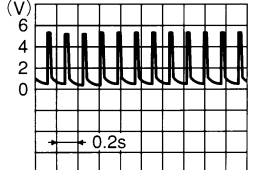

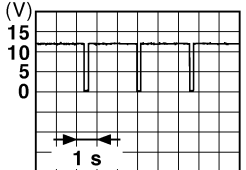
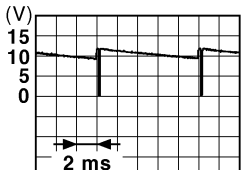
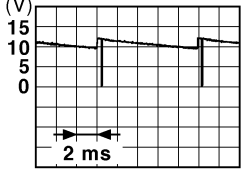
## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)				
(+)	(-)	Signal name	Input/ Output						
32 (R/B)	Ground	Front door RH switch	Input	Front door RH switch	 <p style="text-align: center;">11.8 V</p>				
				ON (when front door RH opens)	0V				
37 (O)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	 <p style="text-align: center;">1.1V</p>				
				ON	0V				
38 (GR/W)	Ground	Rear window defogger ON signal	Input	Rear window defogger switch	<table border="0"> <tr> <td>OFF</td> <td>5V</td> </tr> <tr> <td>ON</td> <td>0V</td> </tr> </table>	OFF	5V	ON	0V
				OFF	5V				
ON	0V								
40 (Y/G)	Ground	Power window serial link	Input/ Output	Ignition switch ON	 <p style="text-align: center;">10.2V</p>				
				Ignition switch OFF or ACC	0V				
41 (W)	Ground	Engine switch (push switch) illumination	Output	Engine switch (push switch) illumination	<table border="0"> <tr> <td>ON</td> <td>5.5V</td> </tr> <tr> <td>OFF</td> <td>0V</td> </tr> </table>	ON	5.5V	OFF	0V
				ON	5.5V				
OFF	0V								
42 (R)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	<table border="0"> <tr> <td>ON</td> <td>0V</td> </tr> <tr> <td>OFF</td> <td>Battery voltage</td> </tr> </table>	ON	0V	OFF	Battery voltage
				ON	0V				
OFF	Battery voltage								
45 (P)	Ground	Receiver & sensor ground	Input	Ignition switch ON	0V				
46 (V/W)	Ground	Receiver & sensor power supply output	Output	Ignition switch	<table border="0"> <tr> <td>OFF</td> <td>0V</td> </tr> <tr> <td>ACC or ON</td> <td>5.0V</td> </tr> </table>	OFF	0V	ACC or ON	5.0V
				OFF	0V				
ACC or ON	5.0V								

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# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
(+)	(-)	Signal name	Input/ Output			
47 (G/O)	Ground	Tire pressure receiver signal	Input/ Output	Ignition switch ON	 <p style="text-align: right;">OCC3881D</p>	
				When receiving the signal from the transmitter	 <p style="text-align: right;">OCC3880D</p>	
48 (R/G)	Ground	Selector lever transmission range switch signal	Input	Selector lever	P or N position 12.0V	
					Except P and N positions 0V	
49 (L/O)	Ground	Security indicator signal	Output	Security indicator	ON 0V	
				Blinking	 <p style="text-align: right;">JPMA0014GB</p> <p style="text-align: center;">11.3V</p>	
50 (LG/B)	Ground	Combination switch OUTPUT 5	Input	Combination switch (Wiper intermittent dial 4)	All switch OFF 0V	
					Lighting switch 1ST	 <p style="text-align: right;">JPMA0031GB</p> <p style="text-align: center;">10.7V</p>
					Lighting switch high-beam	
					Lighting switch 2ND	
	Turn signal switch RH					
51 (L/W)	Ground	Combination switch OUTPUT 1	Input	Combination switch	All switch OFF (Wiper intermittent dial 4) 0V	
					Front wiper switch HI (Wiper intermittent dial 4)	 <p style="text-align: right;">JPMA0032GB</p> <p style="text-align: center;">10.7V</p>
				Any of the conditions below with all switch OFF	<ul style="list-style-type: none"> <li>• Wiper intermittent dial 1</li> <li>• Wiper intermittent dial 2</li> <li>• Wiper intermittent dial 3</li> <li>• Wiper intermittent dial 6</li> <li>• Wiper intermittent dial 7</li> </ul>	

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
(+)	(-)	Signal name	Input/ Output			
52 (G/B)	Ground	Combination switch OUTPUT 2	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	0V
					Front washer switch ON (Wiper intermittent dial 4)	<p style="text-align: right; font-size: small;">JPMAI0033GB</p>
					Any of the conditions below with all switch OFF	
					<ul style="list-style-type: none"> <li>• Wiper intermittent dial 1</li> <li>• Wiper intermittent dial 5</li> <li>• Wiper intermittent dial 6</li> </ul>	
					10.7V	
53 (LG/ R)	Ground	Combination switch OUTPUT 3	Input	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	0V
					Front wiper switch INT	<p style="text-align: right; font-size: small;">JPMAI0034GB</p>
					Front wiper switch LO	
					Lighting switch AUTO	
					10.7V	
54 (G/Y)	Ground	Combination switch OUTPUT 4	Input	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	0V
					Front fog lamp switch ON	<p style="text-align: right; font-size: small;">JPMAI0035GB</p>
					Lighting switch 2ND	
					Lighting switch flash-to- pass	
					10.7V	
57 (W)	Ground	Tire pressure warn- ing check switch	Input	—	5V	
58 (SB)	Ground	Front door LH switch	Input	Front door LH switch	OFF (front door LH CLOSE)	<p style="text-align: right; font-size: small;">JPMAI0011GB</p>
					ON (front door LH OPEN)	
59 (G/R)	Ground	Rear window defog- ger relay	Output	Rear window de- fogger	Active	Battery voltage
				Not activated	0V	

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# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
60 (B/R)	Ground	Front console antenna 2 (-)	Output	Ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the passenger compartment	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>
61 (W/R)	Ground	Center console antenna 2 (+)	Output	Ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the passenger compartment	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>
62 (V)	Ground	Front outside handle RH antenna (-)	Output	When the front door RH request switch is operated with ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>



# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

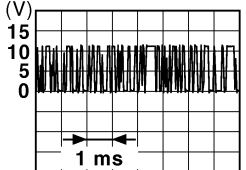
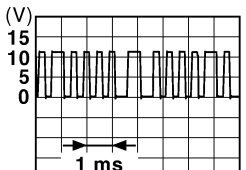



Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
63 (P)	Ground	Front outside handle RH antenna (+)	Output	When the front door RH request switch is operated with ignition switch OFF	<p style="text-align: right; font-size: small;">JMkia0062GB</p>
				When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMkia0063GB</p>
64 (V)	Ground	Front outside handle LH antenna (-)	Output	When the front door LH request switch is operated with ignition switch OFF	<p style="text-align: right; font-size: small;">JMkia0062GB</p>
				When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMkia0063GB</p>
65 (P)	Ground	Front outside handle LH antenna (+)	Output	When the front door LH request switch is operated with ignition switch OFF	<p style="text-align: right; font-size: small;">JMkia0062GB</p>
				When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMkia0063GB</p>

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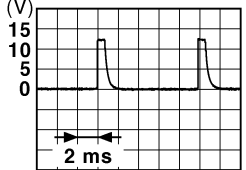
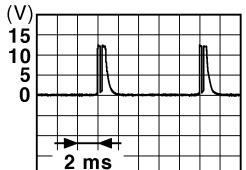

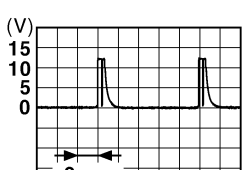
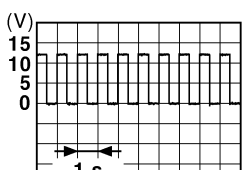
# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
(+)	(-)	Signal name	Input/ Output			
68 (G/O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelli- gent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
69 (O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelli- gent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
70 (R/B)	Ground	Ignition relay-2 con- trol	Output	Ignition switch	OFF or ACC	0V
					ON	Battery voltage
71 (L/O)	Ground	Remote keyless entry receiver signal	Input/ Output	During waiting		 <p style="text-align: right; font-size: small;">JMKIA0064GB</p>
				When operating either button on Intelligent Key		 <p style="text-align: right; font-size: small;">JMKIA0065GB</p>
75 (R/Y)	Ground	Combination switch INPUT 5	Output	Combination switch	All switch OFF (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0041GB</p> <p style="text-align: center;">1.4V</p>
					Front fog lamp switch ON (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0037GB</p> <p style="text-align: center;">1.3V</p>
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	 <p style="text-align: right; font-size: small;">JPMIA0040GB</p> <p style="text-align: center;">1.3V</p>

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

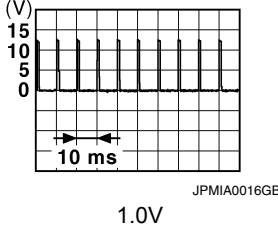
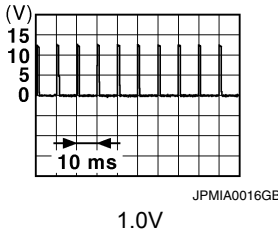
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
		Signal name	Input/ Output		
(+)	(-)				
76 (R/G)	Ground	Combination switch INPUT 3	Output	Combination switch	All switch OFF (Wiper intermittent dial 4) <div style="text-align: right;">  <p>1.4V</p> </div>
					Lighting switch high-beam (Wiper intermittent dial 4) <div style="text-align: right;">  <p>1.3V</p> </div>
					Lighting switch 2ND (Wiper intermittent dial 4) <div style="text-align: right;">  <p>1.3V</p> </div>
					Any of the conditions below with all switch OFF <ul style="list-style-type: none"> <li>• Wiper intermittent dial 1</li> <li>• Wiper intermittent dial 2</li> <li>• Wiper intermittent dial 3</li> </ul> <div style="text-align: right;">  <p>1.3V</p> </div>
78 (P)	Ground	CAN-L	Input/ Output	—	—
79 (L)	Ground	CAN-H	Input/ Output	—	—
80 (R/L)	Ground	Key slot illumination	Output	Key slot illumina- tion	OFF <div style="text-align: right;"> <p>Battery voltage</p>  <p>6.5V</p> </div>
				Blinking	
81 (LG)	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC <div style="text-align: right;"> <p>0V</p> </div>
					ON <div style="text-align: right;"> <p>Battery voltage</p> </div>

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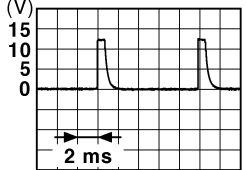
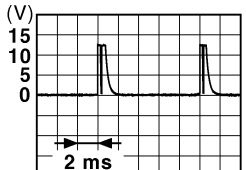

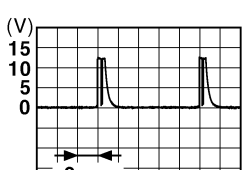

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
(+)	(-)	Signal name	Input/ Output			
83 (L)	Ground	ACC relay control	Output	Ignition switch	OFF	0V
					ACC or ON	Battery voltage
84 (Y/R)	Ground	CVT shift selector	Output	—		Battery voltage
87 (G/B)	Ground	Selector lever P position switch	Input	Selector lever	P position	0V
					Any position other than P	Battery voltage
88 (R)	Ground	Front door RH request switch	Input	Front door RH request switch	ON (pressed)	0V
					OFF (not pressed)	
89 (R)	Ground	Front door LH request switch	Input	Front door LH request switch	ON (pressed)	0V
					OFF (not pressed)	
90 (Y)	Ground	Blower fan motor relay control	Output	Ignition switch	OFF or ACC	0V
					ON	Battery voltage
91 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFF		Battery voltage

# BCM (BODY CONTROL MODULE)

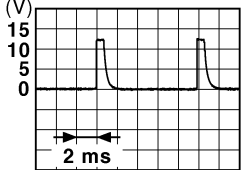
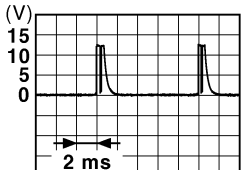
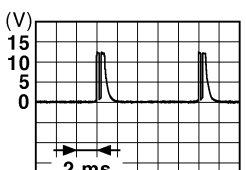
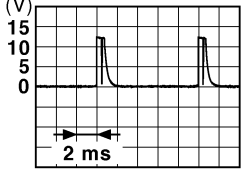
## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
95 (R/W)	Ground	Combination switch INPUT 1	Output	Combination switch (Wiper intermittent dial 4)	All switch OFF <div style="text-align: right;">  <p>1.4V</p> </div>
					Turn signal switch LH <div style="text-align: right;">  <p>1.3V</p> </div>
					Turn signal switch RH <div style="text-align: right;">  <p>1.3V</p> </div>
					Front wiper switch LO <div style="text-align: right;">  <p>1.3V</p> </div>
					Front washer switch ON <div style="text-align: right;">  <p>1.3V</p> </div>

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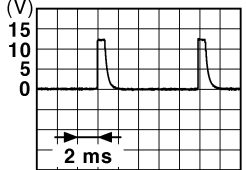
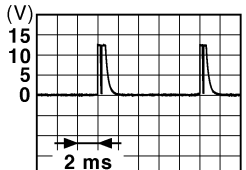

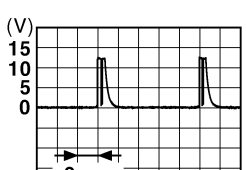

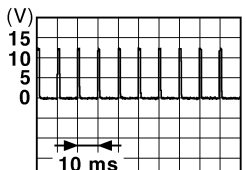
# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
96 (P/B)	Ground	Combination switch INPUT 4	Output Combination switch	All switch OFF (Wiper intermittent dial 4)	 <p style="text-align: right;">JPMIA0041GB 1.4V</p>
				Lighting switch AUTO (Wiper intermittent dial 4)	 <p style="text-align: right;">JPMIA0038GB 1.3V</p>
				Lighting switch 1ST (Wiper intermittent dial 4)	 <p style="text-align: right;">JPMIA0036GB 1.3V</p>
				Any of the conditions below with all switch OFF	<ul style="list-style-type: none"> <li>• Wiper intermittent dial 1</li> <li>• Wiper intermittent dial 5</li> <li>• Wiper intermittent dial 6</li> </ul>  <p style="text-align: right;">JPMIA0039GB 1.3V</p>

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
(+)	(-)	Signal name	Input/ Output			
97 (R/B)	Ground	Combination switch INPUT 2	Output	Combination switch (Wiper intermittent dial 4)	All switch OFF	 <p style="text-align: right;">1.4V</p>
					Lighting switch flash-to-pass	 <p style="text-align: right;">1.3V</p>
					Lighting switch 2ND	 <p style="text-align: right;">1.3V</p>
					Front wiper switch INT	 <p style="text-align: right;">1.3V</p>
					Front wiper switch HI	 <p style="text-align: right;">1.3V</p>
					Pressed	0 V
98 (G/O)	Ground	Hazard switch	Input	Hazard switch	Not pressed	 <p style="text-align: right;">1.1V</p>

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# BCM (BODY CONTROL MODULE)

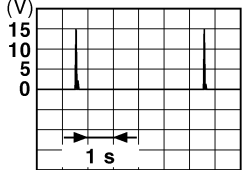
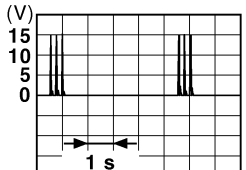
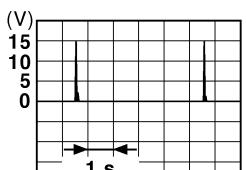

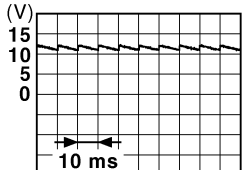
## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
(+)	(-)	Signal name	Input/ Output			
103 (V)	Ground	Trunk lid opening.	Output	Trunk lid	Open (trunk lid opener actuator is activated)	Battery voltage
					Close (trunk lid opener actuator is not activated)	0V
110 (V/W)	Ground	Trunk room lamp	Output	Trunk room lamp	ON	0V
					OFF	Battery voltage
114 (B)	Ground	Trunk room antenna 1 (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	<p style="text-align: right; font-size: small;">JMkia0062GB</p>
					When Intelligent Key is not in the passenger compartment	<p style="text-align: right; font-size: small;">JMkia0063GB</p>
115 (W)	Ground	Trunk room antenna 1 (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	<p style="text-align: right; font-size: small;">JMkia0062GB</p>
					When Intelligent Key is not in the passenger compartment	<p style="text-align: right; font-size: small;">JMkia0063GB</p>



# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
118 (L/O)	Ground	Rear bumper antenna (-)	Output	When the trunk lid request switch is operated with ignition switch OFF	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>
119 (BR/W)	Ground	Rear bumper antenna (+)	Output	When the trunk lid request switch is operated with ignition switch OFF	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>
127 (BR/W)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC Battery voltage
				ON	0V
130 (W)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	 <p style="text-align: right; font-size: small;">JPMIA0011GB</p> <p style="text-align: center;">11.8V</p>
				ON (trunk is open)	0V
132 (R)	Ground	Starter motor relay control	Output	Ignition switch ON	When selector lever is in P or N position and the brake is depressed Battery voltage
				When selector lever is in P or N position and the brake is not depressed	0V

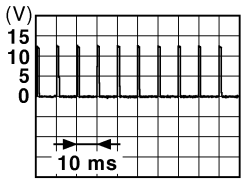
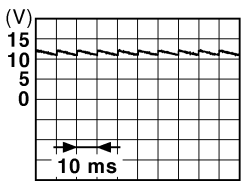
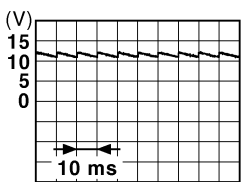
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# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
(+)	(-)	Signal name	Input/ Output			
140 (BR)	Ground	Engine switch (push switch)	Input	Engine switch (push switch)	Pressed	0V
					Not pressed	Battery voltage
141 (BR)	Ground	Trunk opener request switch	Input	Trunk opener request switch	ON (pressed)	0V
					OFF (not pressed)	 <p style="text-align: center;">1.0V</p>
144 (GR)	Ground	Request switch buzzer	Output	Request switch buzzer	Sounding	0V
					Not sounding	Battery voltage
147 (L/R)	Ground	Trunk lid opener switch	Input	Trunk lid opener switch	Pressed	0V
					Not pressed	Battery voltage
148 (R/W)	Ground	Rear door RH switch	Input	Rear door RH switch	OFF (when rear door RH closes)	 <p style="text-align: center;">11.8V</p>
					ON (when rear door RH opens)	0V
149 (R/B)	Ground	Rear door LH switch	Input	Rear door LH switch	OFF (when rear door LH closes)	 <p style="text-align: center;">11.8V</p>
					ON (when rear door LH opens)	0V

### Fail Safe

INFOID:000000010051281

Display contents of CONSULT	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Erase DTC
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent <ul style="list-style-type: none"> <li>• Starter control relay signal</li> <li>• Starter relay status signal</li> </ul>

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
B2562: LO VOLTAGE	Inhibit engine cranking	100 ms after the power supply voltage increases to more than 8.8 V
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent <ul style="list-style-type: none"> <li>• Starter motor relay control signal</li> <li>• Starter relay status signal (CAN)</li> </ul>
B260A: IGNITION RELAY	Inhibit engine cranking	500 ms after the following conditions are fulfilled <ul style="list-style-type: none"> <li>• IGN relay (IPDM E/R) control signal: OFF (Battery voltage)</li> <li>• Ignition ON signal (CAN to IPDM E/R): OFF (Request signal)</li> <li>• Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)</li> </ul>
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions is fulfilled <ul style="list-style-type: none"> <li>• Power position changes to ACC</li> <li>• Receives engine status signal (CAN)</li> </ul>
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B26E1: ENG STATE NO RECIV	Inhibit engine cranking	When any of the following conditions are fulfilled <ul style="list-style-type: none"> <li>• Power position changes to ACC</li> <li>• Receives engine status signal (CAN)</li> </ul>

## DTC Inspection Priority Chart

INFOID:0000000010051282

If some DTCs are displayed at the same time, perform inspections one by one based on the following priority chart.

Priority	DTC
1	<ul style="list-style-type: none"> <li>• B2562: LO VOLTAGE</li> </ul>
2	<ul style="list-style-type: none"> <li>• U1000: CAN COMM CIRCUIT</li> <li>• U1010: CONTROL UNIT (CAN)</li> </ul>
3	<ul style="list-style-type: none"> <li>• B2190: NATS ANTENNA AMP</li> <li>• B2191: DIFFERENCE OF KEY</li> <li>• B2192: ID DISCORD BCM-ECM</li> <li>• B2193: CHAIN OF BCM-ECM</li> </ul>
4	<ul style="list-style-type: none"> <li>• B2553: IGNITION RELAY</li> <li>• B2555: STOP LAMP</li> <li>• B2556: PUSH-BTN IGN SW</li> <li>• B2557: VEHICLE SPEED</li> <li>• B2560: STARTER CONT RELAY</li> <li>• B2601: SHIFT POSITION</li> <li>• B2602: SHIFT POSITION</li> <li>• B2603: SHIFT POSI STATUS</li> <li>• B2604: PNP SWITCH</li> <li>• B2605: PNP SWITCH</li> <li>• B2608: STARTER RELAY</li> <li>• B260A: IGNITION RELAY</li> <li>• B260F: ENG STATE SIG LOST</li> <li>• B2614: ACC RELAY CIRC</li> <li>• B2615: BLOWER RELAY CIRC</li> <li>• B2616: IGN RELAY CIRC</li> <li>• B2617: STARTER RELAY CIRC</li> <li>• B2618: BCM</li> <li>• B261A: PUSH-BTN IGN SW</li> <li>• B26E1: ENG STATE NO RECIV</li> <li>• C1729: VHCL SPEED SIG ERR</li> <li>• U0415: VEHICLE SPEED SIG</li> </ul>

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Priority	DTC
5	<ul style="list-style-type: none"> <li>• C1704: LOW PRESSURE FL</li> <li>• C1705: LOW PRESSURE FR</li> <li>• C1706: LOW PRESSURE RR</li> <li>• C1707: LOW PRESSURE RL</li> <li>• C1708: [NO DATA] FL</li> <li>• C1709: [NO DATA] FR</li> <li>• C1710: [NO DATA] RR</li> <li>• C1711: [NO DATA] RL</li> <li>• C1712: [CHECKSUM ERR] FL</li> <li>• C1713: [CHECKSUM ERR] FR</li> <li>• C1714: [CHECKSUM ERR] RR</li> <li>• C1715: [CHECKSUM ERR] RL</li> <li>• C1716: [PRESSDATA ERR] FL</li> <li>• C1717: [PRESSDATA ERR] FR</li> <li>• C1718: [PRESSDATA ERR] RR</li> <li>• C1719: [PRESSDATA ERR] RL</li> <li>• C1720: [CODE ERR] FL</li> <li>• C1721: [CODE ERR] FR</li> <li>• C1722: [CODE ERR] RR</li> <li>• C1723: [CODE ERR] RL</li> <li>• C1724: [BATT VOLT LOW] FL</li> <li>• C1725: [BATT VOLT LOW] FR</li> <li>• C1726: [BATT VOLT LOW] RR</li> <li>• C1727: [BATT VOLT LOW] RL</li> <li>• C1734: CONTROL UNIT</li> </ul>
6	<ul style="list-style-type: none"> <li>• B2622: INSIDE ANTENNA</li> <li>• B2623: INSIDE ANTENNA</li> </ul>

## DTC Index

INFOID:0000000010051283

### NOTE:

- Details of time display
- CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.
- 1 - 39: Displayed if any previous malfunction is present when current condition is normal. It increases 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The counter remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch OFF → ON after returning to the normal condition if the malfunction is detected again.

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. further testing may be required.	—	—	—	—
U1000: CAN COMM CIRCUIT	—	—	—	<a href="#">BCS-32</a>
U1010: CONTROL UNIT (CAN)	—	—	—	<a href="#">BCS-33</a>
U0415: VEHICLE SPEED SIG	—	—	—	<a href="#">BCS-34</a>
B2190: NATS ANTENNA AMP	×	—	—	<a href="#">SEC-37</a>
B2191: DIFFERENCE OF KEY	×	—	—	<a href="#">SEC-40</a>
B2192: ID DISCORD BCM-ECM	×	—	—	<a href="#">SEC-41</a>
B2193: CHAIN OF BCM-ECM	×	—	—	<a href="#">SEC-42</a>
B2553: IGNITION RELAY	—	—	—	<a href="#">PCS-46</a>
B2555: STOP LAMP	—	—	—	<a href="#">SEC-43</a>
B2556: PUSH-BTN IGN SW	—	×	—	<a href="#">SEC-46</a>
B2557: VEHICLE SPEED	×	×	—	<a href="#">SEC-48</a>
B2560: STARTER CONT RELAY	×	×	—	<a href="#">SEC-49</a>

## BCM (BODY CONTROL MODULE)

### < ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page	
B2562: LOW VOLTAGE	—	—	—	<a href="#">BCS-35</a>	A
B2601: SHIFT POSITION	×	×	—	<a href="#">SEC-50</a>	B
B2602: SHIFT POSITION	×	×	—	<a href="#">SEC-53</a>	
B2603: SHIFT POSI STATUS	×	×	—	<a href="#">SEC-56</a>	C
B2604: PNP SWITCH	×	×	—	<a href="#">SEC-59</a>	
B2605: PNP SWITCH	×	×	—	<a href="#">SEC-61</a>	
B2608: STARTER RELAY	×	×	—	<a href="#">SEC-63</a>	D
B260A: IGNITION RELAY	×	×	—	<a href="#">PCS-48</a>	
B260F: ENG STATE SIG LOST	×	×	—	<a href="#">SEC-65</a>	
B2614: ACC RELAY CIRC	—	×	—	<a href="#">PCS-50</a>	E
B2615: BLOWER RELAY CIRC	—	×	—	<a href="#">PCS-53</a>	
B2616: IGN RELAY CIRC	—	×	—	<a href="#">PCS-56</a>	F
B2617: STARTER RELAY CIRC	×	×	—	<a href="#">SEC-67</a>	
B2618: BCM	×	×	—	<a href="#">PCS-59</a>	
B261A: PUSH-BTN IGN SW	—	×	—	<a href="#">PCS-60</a>	G
B2622: INSIDE ANTENNA	—	—	—	<a href="#">DLK-60</a>	
B2623: INSIDE ANTENNA	—	—	—	<a href="#">DLK-63</a>	H
B26E1: ENG STATE NO RES	×	×	—	<a href="#">SEC-66</a>	
C1704: LOW PRESSURE FL	—	—	×	<a href="#">WT-43</a>	
C1705: LOW PRESSURE FR	—	—	×	<a href="#">WT-43</a>	I
C1706: LOW PRESSURE RR	—	—	×	<a href="#">WT-43</a>	
C1707: LOW PRESSURE RL	—	—	×	<a href="#">WT-43</a>	J
C1708: [NO DATA] FL	—	—	×	<a href="#">WT-13</a>	
C1709: [NO DATA] FR	—	—	×	<a href="#">WT-13</a>	
C1710: [NO DATA] RR	—	—	×	<a href="#">WT-13</a>	K
C1711: [NO DATA] RL	—	—	×	<a href="#">WT-13</a>	
C1712: [CHECKSUM ERR] FL	—	—	×	<a href="#">WT-15</a>	INL
C1713: [CHECKSUM ERR] FR	—	—	×	<a href="#">WT-15</a>	
C1714: [CHECKSUM ERR] RR	—	—	×	<a href="#">WT-15</a>	
C1715: [CHECKSUM ERR] RL	—	—	×	<a href="#">WT-15</a>	M
C1716: [PRESSDATA ERR] FL	—	—	×	<a href="#">WT-17</a>	
C1717: [PRESSDATA ERR] FR	—	—	×	<a href="#">WT-17</a>	
C1718: [PRESSDATA ERR] RR	—	—	×	<a href="#">WT-17</a>	N
C1719: [PRESSDATA ERR] RL	—	—	×	<a href="#">WT-17</a>	
C1720: [CODE ERR] FL	—	—	×	<a href="#">WT-15</a>	O
C1721: [CODE ERR] FR	—	—	×	<a href="#">WT-15</a>	
C1722: [CODE ERR] RR	—	—	×	<a href="#">WT-15</a>	
C1723: [CODE ERR] RL	—	—	×	<a href="#">WT-15</a>	P
C1724: [BATT VOLT LOW] FL	—	—	×	<a href="#">WT-15</a>	
C1725: [BATT VOLT LOW] FR	—	—	×	<a href="#">WT-15</a>	
C1726: [BATT VOLT LOW] RR	—	—	×	<a href="#">WT-15</a>	
C1727: [BATT VOLT LOW] RL	—	—	×	<a href="#">WT-15</a>	

## BCM (BODY CONTROL MODULE)

### < ECU DIAGNOSIS INFORMATION >

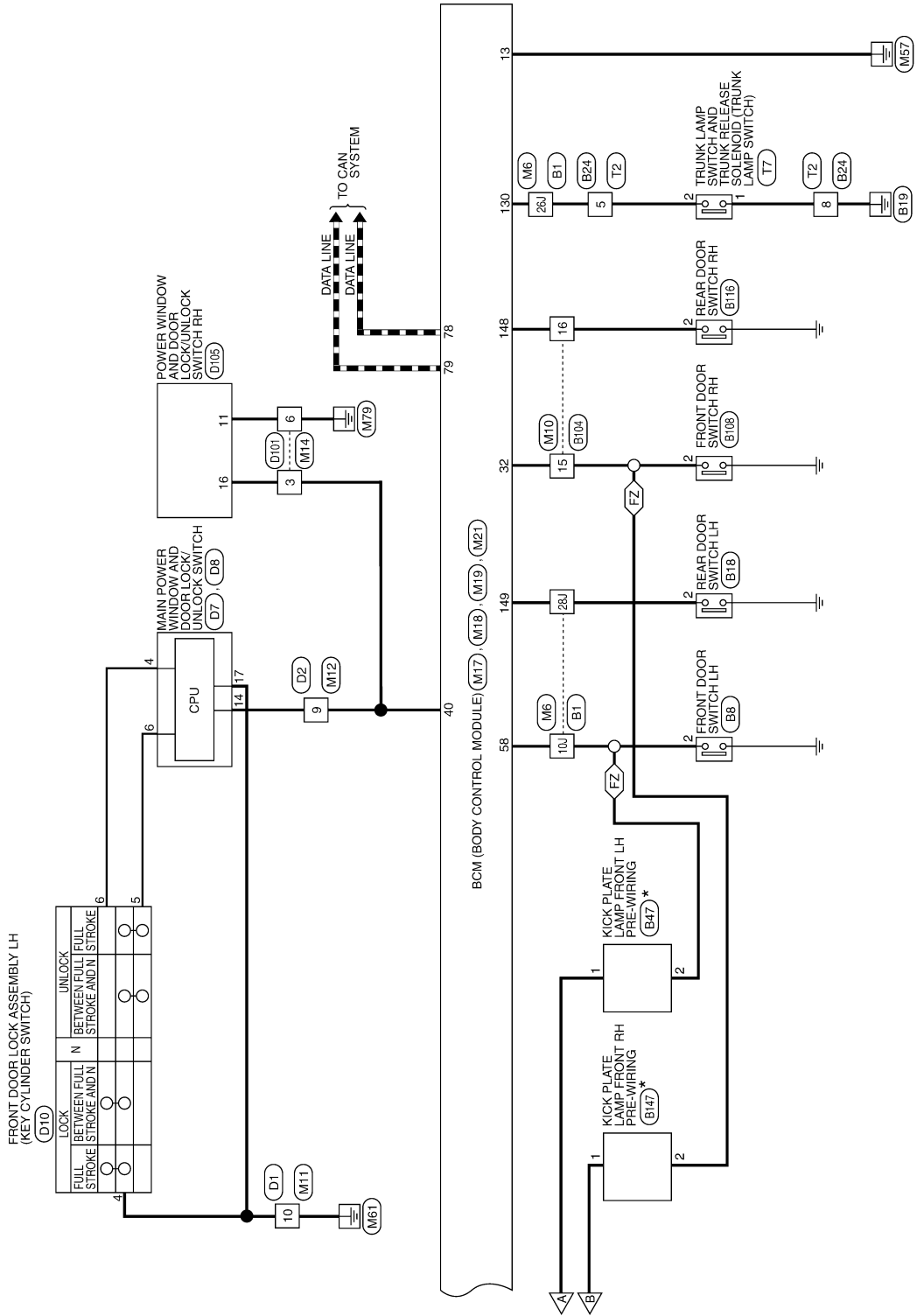
CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1729: VHCL SPEED SIG ERR	—	—	×	<a href="#">WT-19</a>
C1734: CONTROL UNIT	—	—	×	<a href="#">WT-20</a>



# INTERIOR ROOM LAMP

< WIRING DIAGRAM >

WITH PRE-WIRING FOR KICK PLATE LAMPS



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

ABLWA1869GB

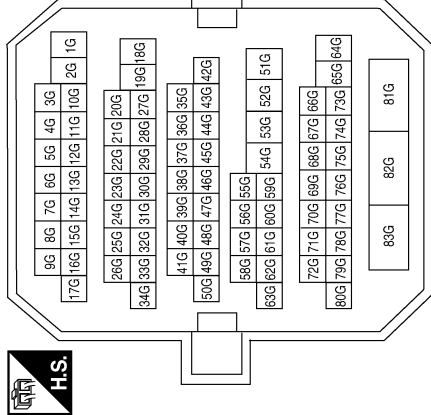


# INTERIOR ROOM LAMP

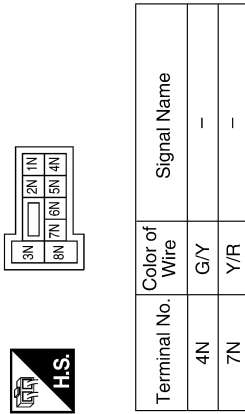
< WIRING DIAGRAM >

## INTERIOR ROOM LAMP CONNECTORS

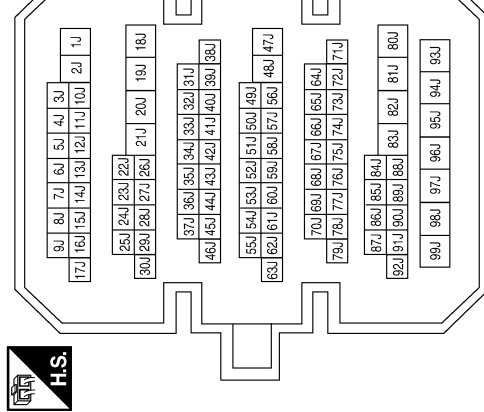
Connector No.	M1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
5J	P/W	-
6J	R/W	-
10J	SB	-
22J	P/W	-
23J	V/W	-
26J	W	-
28J	R/B	-

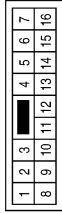
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INL

# INTERIOR ROOM LAMP

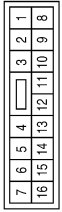
< WIRING DIAGRAM >

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Color	WHITE



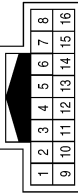
Terminal No.	Color of Wire	Signal Name
1	P/W	-
9	R/W	-
10	B	-

Connector No.	M10
Connector Name	WIRE TO WIRE
Connector Color	WHITE



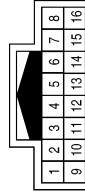
Terminal No.	Color of Wire	Signal Name
11	P/W	-
12	R/W	-
15	R/B	-
16	R/W	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	P/W	-
4	Y	-
5	B	-
13	B	-
14	P/W	-

Connector No.	M15
Connector Name	WIRE TO WIRE
Connector Color	WHITE



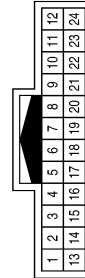
Terminal No.	Color of Wire	Signal Name
12	R/W	-
13	P/W	-

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	Y/G	-
6	B	-

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




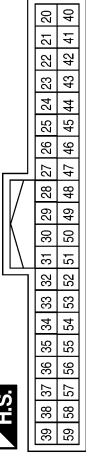
Terminal No.	Color of Wire	Signal Name
9	Y/G	-

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# INTERIOR ROOM LAMP

< WIRING DIAGRAM >

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	GREEN


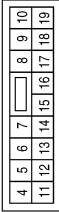
  



39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20
59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40

Terminal No.	Color of Wire	Signal Name
32	R/B	AS DOOR SW 1
40	Y/G	PW K-LINE
58	SB	DR DOOR SW

Connector No.	M17
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



  



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


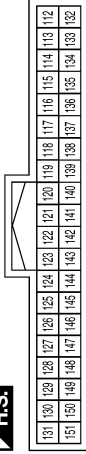
Terminal No.	Color of Wire	Signal Name
4	P/W	R/L POWER SUPPLY
7	R/W	STEP LAMP CONT
11	Y/R	BAT BCM FUSE
13	B	GND1
19	Y	ROOM LAMP CONT

Connector No.	M16
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK

Terminal No.	Color of Wire	Signal Name
1	W/B	BATT (F/L)

Connector No.	M21
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	GRAY


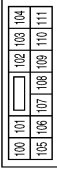
  



131	130	129	128	127	126	125	124	123	122	121	120	119	118	117	116	115	114	113	112
151	150	149	148	147	146	145	144	143	142	141	140	139	138	137	136	135	134	133	132

Terminal No.	Color of Wire	Signal Name
130	W	TRUNK SW
148	R/W	RR DOOR SW
149	R/B	RL DOOR SW

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE


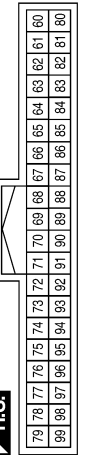
  



100	101	102	103	104		
105	106	107	108	109	110	111

Terminal No.	Color of Wire	Signal Name
110	V/W	TRUNK LAMP CONT

Connector No.	M19
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK

79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60
99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80

Terminal No.	Color of Wire	Signal Name
78	P	CAN-L
79	L	CAN-H
80	R/L	FOB SLOT ILLUMINATION

ABLIA1739GB

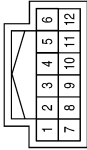
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INL

# INTERIOR ROOM LAMP

< WIRING DIAGRAM >

Connector No.	M40
Connector Name	KEY SLOT
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
5	G/Y	-
6	R/L	-
7	B	-

Connector No.	M99
Connector Name	FOOT LAMP LH
Connector Color	BROWN



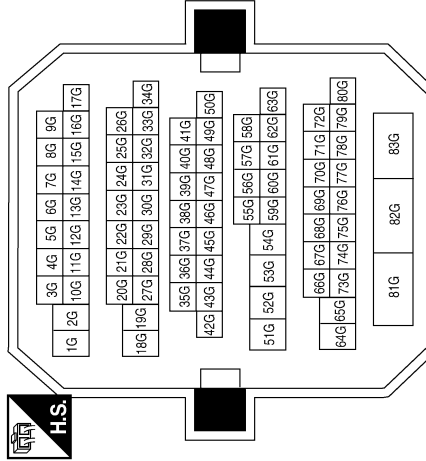
Terminal No.	Color of Wire	Signal Name
1	P/W	-
2	Y	-

Connector No.	M100
Connector Name	FOOT LAMP RH
Connector Color	BROWN



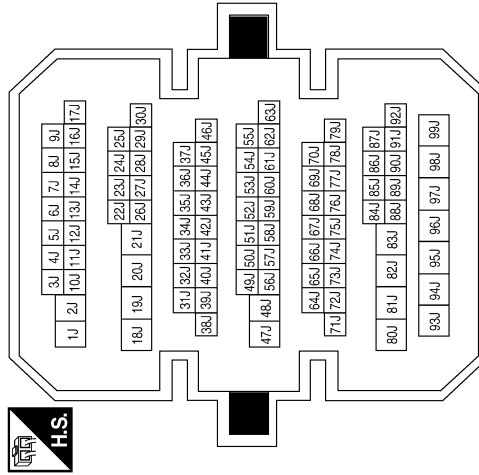
Terminal No.	Color of Wire	Signal Name
1	P/W	-
2	Y	-

Connector No.	E30
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
82G	LG	-

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Color	WHITE

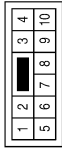


Terminal No.	Color of Wire	Signal Name
5J	W	-
6J	Y	-
10J	SB	-
22J	L	-
23J	Y	-
26J	W	-
28J	BR	-

# INTERIOR ROOM LAMP

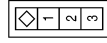
< WIRING DIAGRAM >

Connector No.	B6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

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



Terminal No.	Color of Wire	Signal Name
2	SB	-

Connector No.	B18
Connector Name	REAR DOOR SWITCH LH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	BR	-

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



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

Connector No.	B36
Connector Name	TRUNK ROOM LAMP
Connector Color	WHITE



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

Connector No.	B47
Connector Name	KICK PLATE LAMP FRONT LH PRE-WIRING
Connector Color	BROWN



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

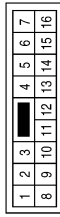
ABLIA4023GB

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

# INTERIOR ROOM LAMP

< WIRING DIAGRAM >

Connector No.	B104
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
11	W	-
12	Y	-
15	GR	-
16	B	-

Connector No.	B108
Connector Name	FRONT DOOR SWITCH RH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	GR	-

Connector No.	B116
Connector Name	REAR DOOR SWITCH RH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	B	-

Connector No.	B134
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Connector No.	B147
Connector Name	KICK PLATE LAMP FRONT RH PRE-WIRING
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
1	W	-
2	GR	-

Connector No.	T2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

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# INTERIOR ROOM LAMP

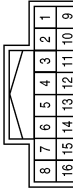
< WIRING DIAGRAM >

Connector No.	R3
Connector Name	VANITY MIRROR LAMP LH
Connector Color	WHITE



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

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



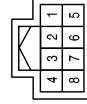
Terminal No.	Color of Wire	Signal Name
3	W	-
4	W	-
5	W	-
13	B	-
14	P	-

Connector No.	T7
Connector Name	TRUNK LAMP SWITCH AND TRUNK RELEASE SOLENOID
Connector Color	WHITE



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

Connector No.	R11
Connector Name	PERSONAL LAMP REAR RH
Connector Color	WHITE



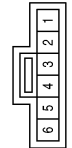
Terminal No.	Color of Wire	Signal Name
2	W	-
3	W	-
4	W	-
6	W	-
7	W	-
8	W	-

Connector No.	R9
Connector Name	VANITY MIRROR LAMP RH
Connector Color	WHITE



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

Connector No.	R8
Connector Name	FRONT ROOM/MAP LAMP ASSEMBLY
Connector Color	GRAY



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

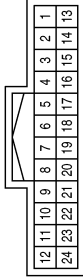
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A B C D E F G H I J K **INL** M N O P

# INTERIOR ROOM LAMP

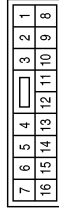
< WIRING DIAGRAM >

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



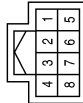
Terminal No.	Color of Wire	Signal Name
9	O	-

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



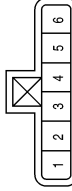
Terminal No.	Color of Wire	Signal Name
1	W	-
9	Y	-
10	B	-

Connector No.	R12
Connector Name	PERSONAL LAMP REAR LH
Connector Color	WHITE



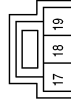
Terminal No.	Color of Wire	Signal Name
2	W	-
3	W	-
4	W	-
6	W	-
7	W	-
8	W	-

Connector No.	D10
Connector Name	FRONT DOOR LOCK ASSEMBLY LH
Connector Color	GRAY



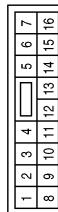
Terminal No.	Color of Wire	Signal Name
4	B	-
5	R	-
6	L	-

Connector No.	D8
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
17	B	GND

Connector No.	D7
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
4	L	LOCK
6	R	UNLOCK
14	O	COM

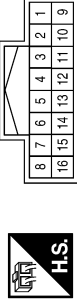
ABLIA5278GB



# INTERIOR ROOM LAMP

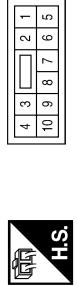
< WIRING DIAGRAM >

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
12	Y	-
13	W	-

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Color	WHITE



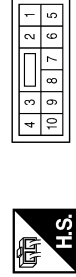
Terminal No.	Color of Wire	Signal Name
3	R	-
6	B	-

Connector No.	D11
Connector Name	FRONT STEP LAMP LH
Connector Color	WHITE



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

Connector No.	D201
Connector Name	WIRE TO WIRE
Connector Color	WHITE



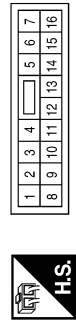
Terminal No.	Color of Wire	Signal Name
2	W	-
3	Y	-

Connector No.	D109
Connector Name	FRONT STEP LAMP RH
Connector Color	WHITE



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

Connector No.	D105
Connector Name	POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
11	B	GND
16	R	COM

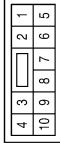
ABLIA4016GB

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# INTERIOR ROOM LAMP

< WIRING DIAGRAM >

Connector No.	D306
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Connector No.	D301
Connector Name	REAR STEP LAMP RH
Connector Color	WHITE



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

Connector No.	D206
Connector Name	REAR STEP LAMP LH
Connector Color	WHITE



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

ABLIA4017GB

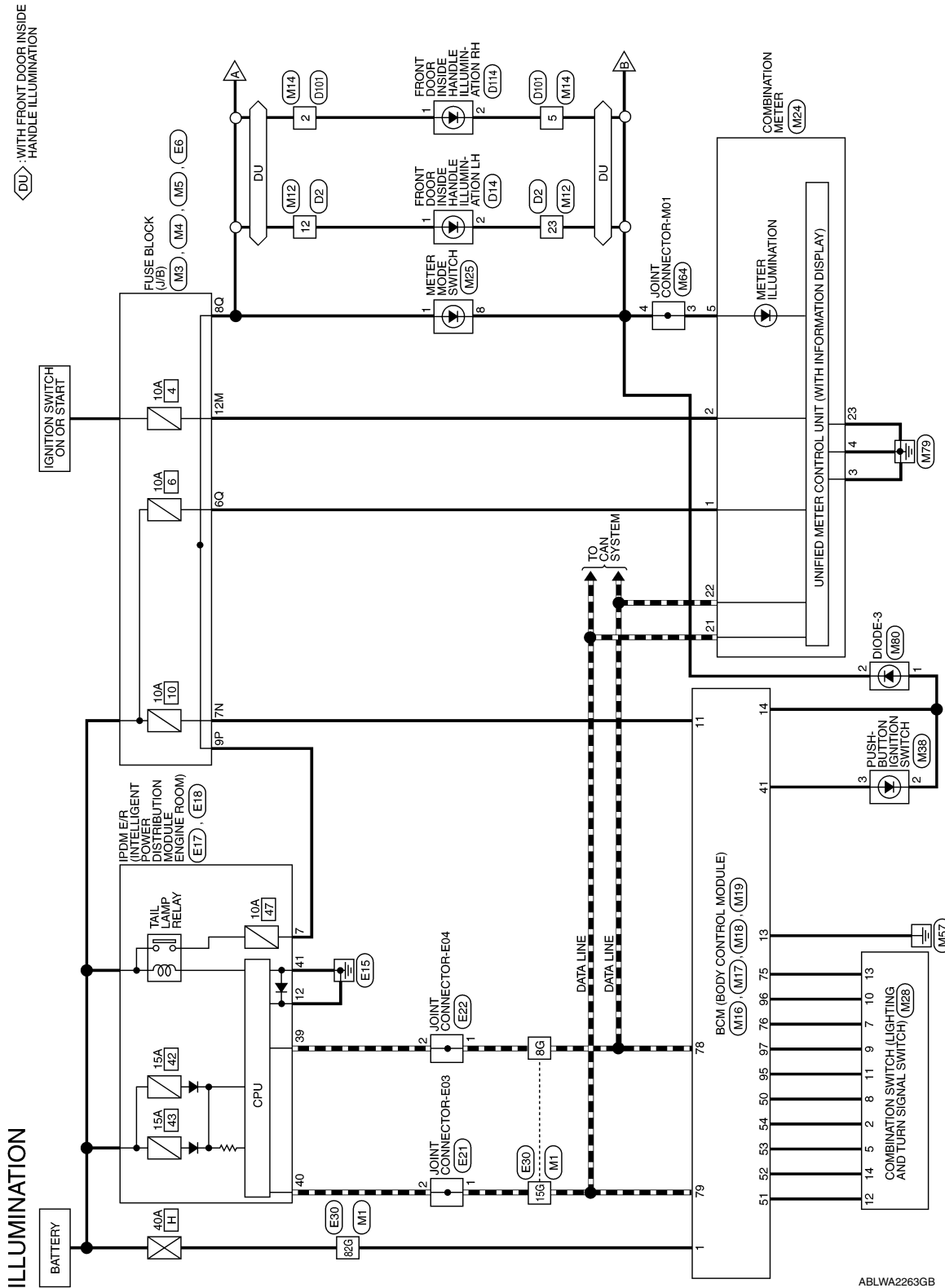
# ILLUMINATION

< WIRING DIAGRAM >

## ILLUMINATION

### Wiring Diagram

INFOID:000000009465443



ILLUMINATION

DU: WITH FRONT DOOR INSIDE HANDLE ILLUMINATION

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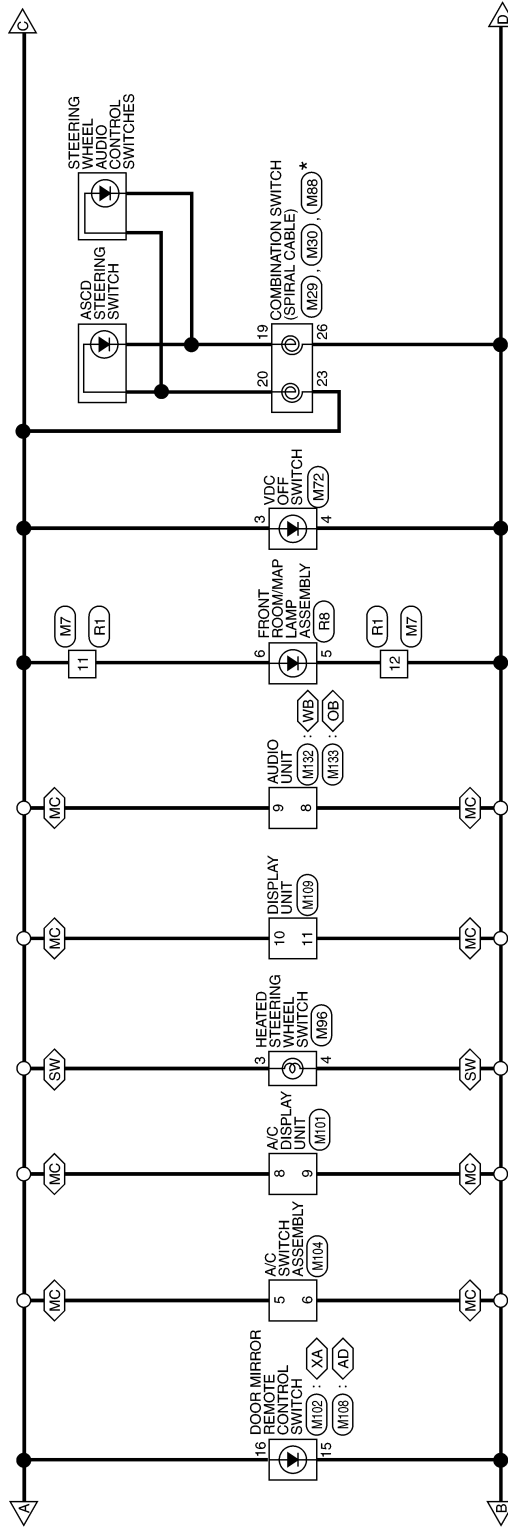
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# ILLUMINATION

## < WIRING DIAGRAM >

- <AD> : WITH AUTOMATIC DRIVE POSITIONER
- <MC> : WITH MONOCHROME DISPLAY
- <OB> : WITHOUT BOSE AUDIO SYSTEM
- <SW> : WITH HEATED STEERING WHEEL
- <VB> : WITH BOSE AUDIO SYSTEM
- <XA> : WITHOUT AUTOMATIC DRIVE POSITIONER



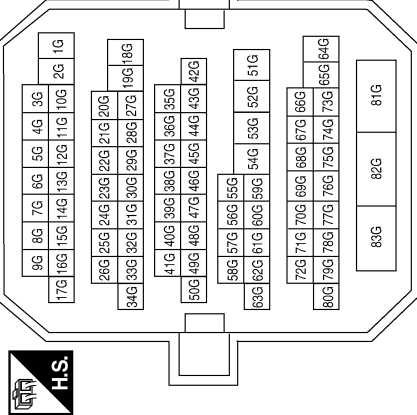
\* : THIS CONNECTOR IS NOT SHOWN IN "HARNES LAYOUT" OF PG SECTION.

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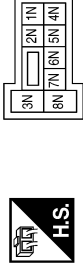
ILLUMINATION CONNECTORS

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



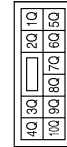
Terminal No.	Color of Wire	Signal Name
8G	P	-
15G	L	-
82G	W/B	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



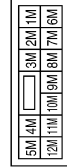
Terminal No.	Color of Wire	Signal Name
7N	Y/R	-

Connector No.	M4
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



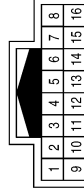
Terminal No.	Color of Wire	Signal Name
6Q	Y/R	-
8Q	R/L	-

Connector No.	M5
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
12M	O	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
11	R/L	-
12	R/Y	-

# ILLUMINATION

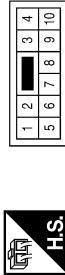
< WIRING DIAGRAM >

Connector No.	M16
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK



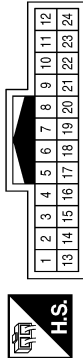
Terminal No.	Color of Wire	Signal Name
1	W/B	BATT (F/L)

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	R/L	-
5	R/Y	-

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



Terminal No.	Color of Wire	Signal Name
12	R/L	-
23	R/Y	-

Connector No.	M19
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK



79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80
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Terminal No.	Color of Wire	Signal Name
75	R/Y	OUTPUT 5
76	R/G	OUTPUT 3
78	P	CAN-L
79	L	CAN-H
95	R/W	OUTPUT 1
96	P/B	OUTPUT 4
97	R/B	OUTPUT 2

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	GREEN



39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40
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Terminal No.	Color of Wire	Signal Name
41	W	RING LED
50	LG/B	INPUT 5
51	L/W	INPUT 1
52	G/B	INPUT 2
53	LG/R	INPUT 3
54	G/Y	INPUT 4

Connector No.	M17
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
11	Y/R	BAT BCM FUSE
13	B	GND1
14	GR/W	LOW SIDE PUSH LED

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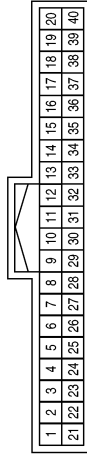
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# ILLUMINATION

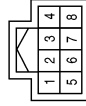
< WIRING DIAGRAM >

Connector No.	M24
Connector Name	COMBINATION METER
Connector Color	WHITE



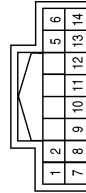
Terminal No.	Color of Wire	Signal Name
1	Y/R	BAT
2	O	IGN
3	B	GND (POWER)
4	B	GND (ILL)
5	B	ILL OUTPUT
21	L	CAN-H
22	P	CAN-L
23	B	GND (CIRCUIT)

Connector No.	M25
Connector Name	METER MODE SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	R/L	-
8	R/Y	-

Connector No.	M28
Connector Name	COMBINATION SWITCH
Connector Color	WHITE



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

Connector No.	M29
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Color	YELLOW



Terminal No.	Color of Wire	Signal Name
23	R/L	-

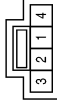
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# ILLUMINATION

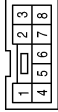
< WIRING DIAGRAM >

Connector No.	M54
Connector Name	HAZARD SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	R/L	-
4	R/Y	-

Connector No.	M38
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
2	GR/W	-
3	W	-

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



Terminal No.	Color of Wire	Signal Name
26	R/Y	-

Connector No.	M72
Connector Name	VDC OFF SWITCH
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
3	R/L	-
4	R/Y	-

Connector No.	M68
Connector Name	GLOVE BOX LAMP
Connector Color	BROWN



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

Connector No.	M64
Connector Name	JOINT CONNECTOR-M01
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	B	-
4	R/Y	-

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# ILLUMINATION

< WIRING DIAGRAM >

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.	M87
Connector Name	WIRE TO WIRE
Connector Color	BROWN



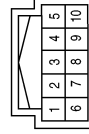
Terminal No.	Color of Wire	Signal Name
10	R/Y	-
11	R/L	-

Connector No.	M80
Connector Name	DIODE-3
Connector Color	BLACK



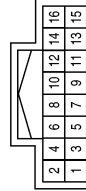
Terminal No.	Color of Wire	Signal Name
1	GRW	-
2	R/Y	-

Connector No.	M101
Connector Name	A/C DISPLAY UNIT
Connector Color	BLACK



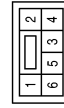
Terminal No.	Color of Wire	Signal Name
8	R/L	-
9	R/Y	-

Connector No.	M98
Connector Name	A/C AND AV SWITCH ASSEMBLY
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
4	R/L	-
5	R/Y	-

Connector No.	M96
Connector Name	HEATED STEERING WHEEL SWITCH
Connector Color	WHITE



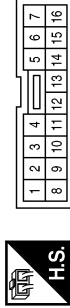
Terminal No.	Color of Wire	Signal Name
3	R/L	-
4	R/Y	-

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# ILLUMINATION

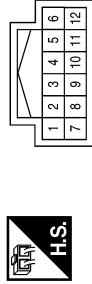
< WIRING DIAGRAM >

Connector No.	M108
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH (WITH AUTOMATIC DRIVE POSITIONER)
Connector Color	BROWN



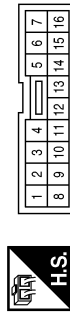
Terminal No.	Color of Wire	Signal Name
15	R/Y	-
16	R/L	-

Connector No.	M104
Connector Name	A/C SWITCH ASSEMBLY
Connector Color	WHITE



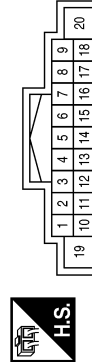
Terminal No.	Color of Wire	Signal Name
5	R/L	-
6	R/Y	-

Connector No.	M102
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Color	WHITE



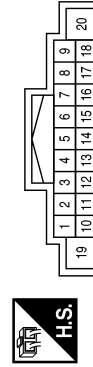
Terminal No.	Color of Wire	Signal Name
15	R/Y	-
16	R/L	-

Connector No.	M132
Connector Name	AUDIO UNIT (MONOCHROME DISPLAY - WITH BOSE AUDIO SYSTEM)
Connector Color	WHITE



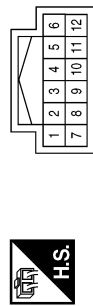
Terminal No.	Color of Wire	Signal Name
8	R/Y	ILL (-)
9	R/L	ILL (+), LIGHT SW

Connector No.	M115
Connector Name	AV CONTROL UNIT (COLOR DISPLAY - WITHOUT BOSE AUDIO SYSTEM OR NAVIGATION SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
9	R/L	ILL
20	B	GND

Connector No.	M109
Connector Name	DISPLAY UNIT (WITH MONOCHROME DISPLAY)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
10	R/L	ILL+
11	R/Y	ILL-

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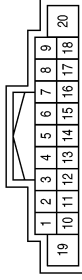
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# ILLUMINATION

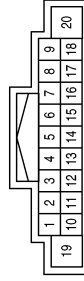
< WIRING DIAGRAM >

Connector No.	M160
Connector Name	AV CONTROL UNIT (COLOR DISPLAY - WITH BOSE AUDIO SYSTEM AND NAVIGATION SYSTEM)
Connector Color	WHITE



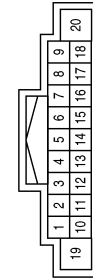
Terminal No.	Color of Wire	Signal Name
9	R/L	ILL
20	B	GND

Connector No.	M152
Connector Name	AV CONTROL UNIT (COLOR DISPLAY - WITH BOSE AUDIO SYSTEM WITHOUT NAVIGATION SYSTEM)
Connector Color	WHITE



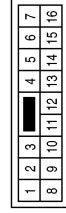
Terminal No.	Color of Wire	Signal Name
9	R/L	ILL
20	B	GND

Connector No.	M133
Connector Name	AUDIO UNIT (MONOCHROME DISPLAY - WITHOUT BOSE AUDIO SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
8	R/Y	ILL (-)
9	R/L	ILL (+), LIGHT SW

Connector No.	M205
Connector Name	WIRE TO WIRE
Connector Color	BROWN



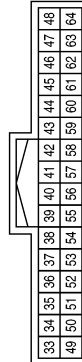
Terminal No.	Color of Wire	Signal Name
10	R/Y	-
11	R/L	-

Connector No.	M203
Connector Name	CVT SHIFT SELECTOR
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
1	R/L	-
2	R/Y	-

Connector No.	M163
Connector Name	AV CONTROL UNIT (COLOR DISPLAY - WITH BOSE AUDIO SYSTEM AND NAVIGATION SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
51	R/L	MR OUTPUT

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# ILLUMINATION

< WIRING DIAGRAM >

Connector No.	M301
Connector Name	FRONT HEATED SEAT SWITCH LH
Connector Color	WHITE



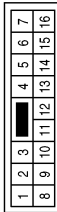
Terminal No.	Color of Wire	Signal Name
5	L	-
6	Y	-

Connector No.	M300
Connector Name	FRONT HEATED SEAT SWITCH RH
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
5	L	-
6	Y	-

Connector No.	M208
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
14	R/Y	-
16	R/L	-

Connector No.	M308
Connector Name	REAR SUNSHADE SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
5	L	-
6	Y	-

Connector No.	M305
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
14	Y	-
16	L	-

Connector No.	M302
Connector Name	CLIMATE CONTROLLED SEAT SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
7	L	-
8	Y	-

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# ILLUMINATION

< WIRING DIAGRAM >

Connector No.	E6
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



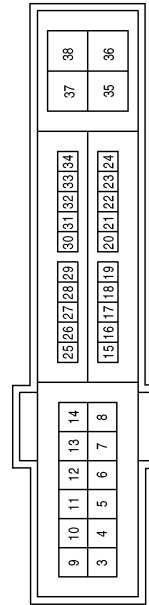
Terminal No.	Color of Wire	Signal Name
9P	GR	-

Connector No.	E17
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



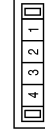
Terminal No.	Color of Wire	Signal Name
39	P	CAN-L
40	L	CAN-H
41	B	GND (SIGNAL)

Connector No.	E18
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
7	GR	TAIL/ILLUMI
12	B	GND (POWER)

Connector No.	E21
Connector Name	JOINT CONNECTOR-E03
Connector Color	WHITE



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

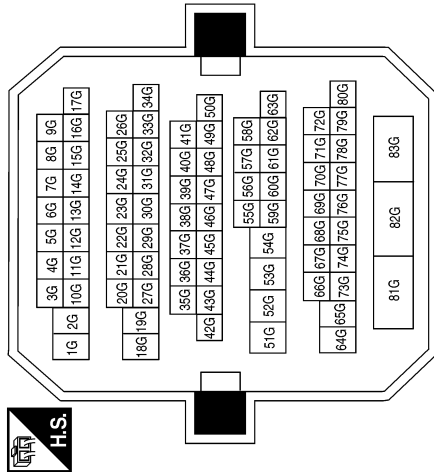
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# ILLUMINATION

< WIRING DIAGRAM >

Terminal No.	Color of Wire	Signal Name
8G	P	-
15G	L	-
82G	LG	-

Connector No.	E30
Connector Name	WIRE TO WIRE
Connector Color	WHITE

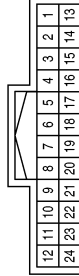


Connector No.	E22
Connector Name	JOINT CONNECTOR-E04
Connector Color	WHITE

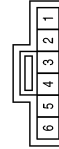


Terminal No.	Color of Wire	Signal Name
1	P	-
2	P	-

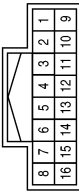
Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	R8
Connector Name	FRONT ROOM/MAP LAMP ASSEMBLY
Connector Color	GRAY



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



Terminal No.	Color of Wire	Signal Name
12	L	-
23	Y	-

Terminal No.	Color of Wire	Signal Name
5	R/Y	-
6	R/L	-

Terminal No.	Color of Wire	Signal Name
11	R/L	-
12	R/Y	-

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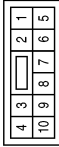
< WIRING DIAGRAM >

Connector No.	D114
Connector Name	FRONT DOOR INSIDE HANDLE ILLUMINATION RH
Connector Color	GRAY



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

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	L	-
5	Y	-

Connector No.	D14
Connector Name	FRONT DOOR INSIDE HANDLE ILLUMINATION LH
Connector Color	GRAY



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

ABLIA5276GB



# INTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

## SYMPTOM DIAGNOSIS

### INTERIOR LIGHTING SYSTEM SYMPTOMS

#### Symptom Table

INFOID:000000009465444

**CAUTION:**

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

Symptom	Possible cause	Inspection item
All the following lamps do not turn ON. • Front room/map lamp assembly • Personal lamp rear LH and RH • Trunk room lamp • Foot lamp LH and RH • Front step lamp LH and RH • Rear step lamp LH and RH • Vanity mirror lamp LH and RH	<ul style="list-style-type: none"> <li>• Harness between BCM and each interior room lamp</li> <li>• BCM</li> </ul>	Battery saver output/power supply circuit Refer to <a href="#">INL-19</a> .
<ul style="list-style-type: none"> <li>• Interior room lamp does not turn ON even though the door is open. (It turns ON when turning the interior room lamp ON.)</li> <li>• Interior room lamp does not turn OFF even though the door is closed.</li> </ul>	<ul style="list-style-type: none"> <li>• Harness between BCM and each door switch</li> <li>• Harness between BCM and each interior room lamp</li> <li>• BCM</li> </ul>	Door switch circuit Refer to <a href="#">DLK-67</a> . <hr/> Interior room lamp control circuit Refer to <a href="#">INL-21</a> .
Interior room lamp timer does not activate. (It turns ON/ OFF when the door opens/closes.)	—	Check the interior room lamp setting. Refer to <a href="#">INL-12</a> .
Step lamps do not turn ON. (The front room/map lamps and the personal lamps turn ON.) <hr/> Step lamps do not turn OFF. (The room/map lamps and the personal lamps turn OFF.)	<ul style="list-style-type: none"> <li>• Harness between BCM and each step lamp</li> <li>• BCM</li> </ul>	Step lamp circuit Refer to <a href="#">INL-23</a> .
<ul style="list-style-type: none"> <li>• Trunk room lamp does not turn ON. (The bulb is normal.)</li> <li>• Trunk room lamp does not turn OFF.</li> </ul>	<ul style="list-style-type: none"> <li>• Harness between BCM and trunk room lamp switch</li> <li>• Harness between BCM and trunk room lamp</li> <li>• BCM</li> </ul>	Trunk room lamp switch circuit Refer to <a href="#">INL-25</a> . <hr/> Trunk room lamp circuit Refer to <a href="#">INL-25</a> .
<ul style="list-style-type: none"> <li>• Push-button ignition switch illumination does not turn ON.</li> <li>• Push-button ignition switch illumination does not turn OFF.</li> </ul>	<ul style="list-style-type: none"> <li>• Harness between BCM and combination switch (lighting and turn signal switch)</li> <li>• Harness between BCM and push-button ignition switch</li> <li>• BCM</li> </ul>	Combination switch (lighting and turn signal switch) input circuit Refer to <a href="#">BCS-37</a> . <hr/> Push-button ignition switch illumination circuit Refer to <a href="#">INL-27</a> .
Interior room lamp battery saver does not activate.	—	Check the interior room lamp battery saver setting. Refer to <a href="#">INL-13</a> .

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# PRECAUTIONS

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## PRECAUTION

### PRECAUTIONS

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

INFOID:000000009465445

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:000000009726236

- 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

< PREPARATION >

## PREPARATION

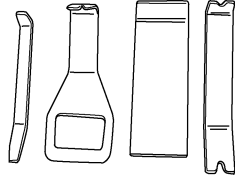
### PREPARATION

#### Special Service Tool

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The actual shapes of the tools may differ from those illustrated here.

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



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# INTERIOR ROOM LAMP

< REMOVAL AND INSTALLATION >

## REMOVAL AND INSTALLATION

### INTERIOR ROOM LAMP

#### Removal and Installation

INFOID:000000009465448

#### FRONT ROOM/MAP LAMP ASSEMBLY

##### Removal

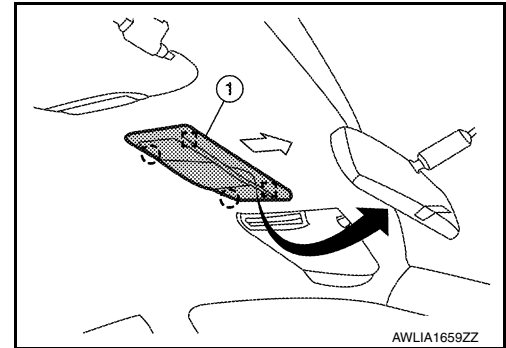
1. Release the metal clips and drop front edge of front room/map lamp assembly (1) away from headlining. Slide front room/map lamp assembly forward in vehicle to clear pawls at rear.

←: Front

○: Pawl

□: Metal clip

2. Disconnect the connectors, then remove the front room/map lamp assembly.



##### Installation

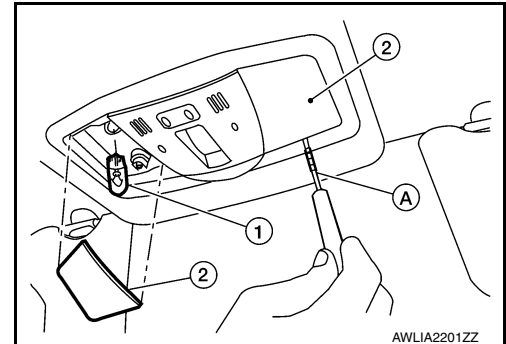
Installation is in the reverse order of removal.

##### Bulb or Lens Replacement

##### **WARNING:**

**Do not touch bulb while it is lit or right after being turned OFF. Burning may result. Caution: -Do not touch glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.**

1. Using a suitable tool (A), remove the front room/map lamp lens (2).
2. Pull bulb (1) straight out to remove.
3. Install the new bulb to front room/map lamp.
4. Install the front room/map lamp lens (2).



#### VANITY MIRROR LAMP

##### Removal

The vanity mirror lamp is replaced as part of the sun visor assembly. Refer to [INT-33. "Removal and Installation"](#).

##### Installation

Installation is in the reverse order of removal.

##### Bulb or Lens Replacement

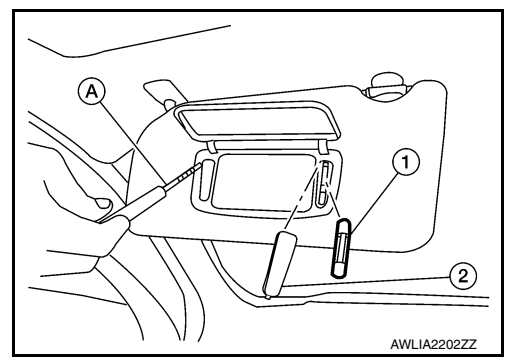
##### **WARNING:**

**Do not touch bulb while it is lit or right after being turned OFF. Burning may result. Caution: -Do not attempt to separate the vanity mirror lamp from the sun visor or damage to the components may occur. -Do not touch glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.**

# INTERIOR ROOM LAMP

## < REMOVAL AND INSTALLATION >

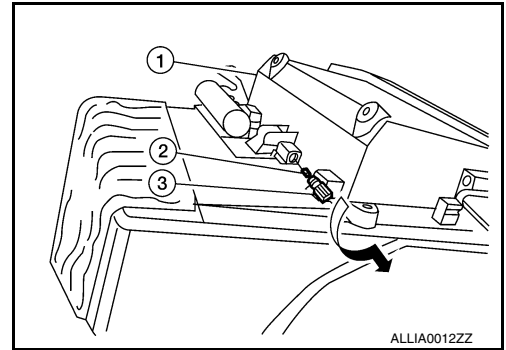
1. Using a suitable tool (A), remove the vanity mirror lamp lens (2).
2. Pull bulb (1) straight out to remove.
3. Install the new bulb to vanity mirror lamp.
4. Install the vanity mirror lamp lens (2).



## GLOVE BOX LAMP

### Removal

1. Remove the glove box assembly (1). Refer to [IP-20, "Removal and Installation"](#).
2. Rotate glove box lamp socket (3) and bulb (2) counterclockwise and then pull out to remove.



### Installation

Installation is in the reverse order of removal.

### Bulb Replacement

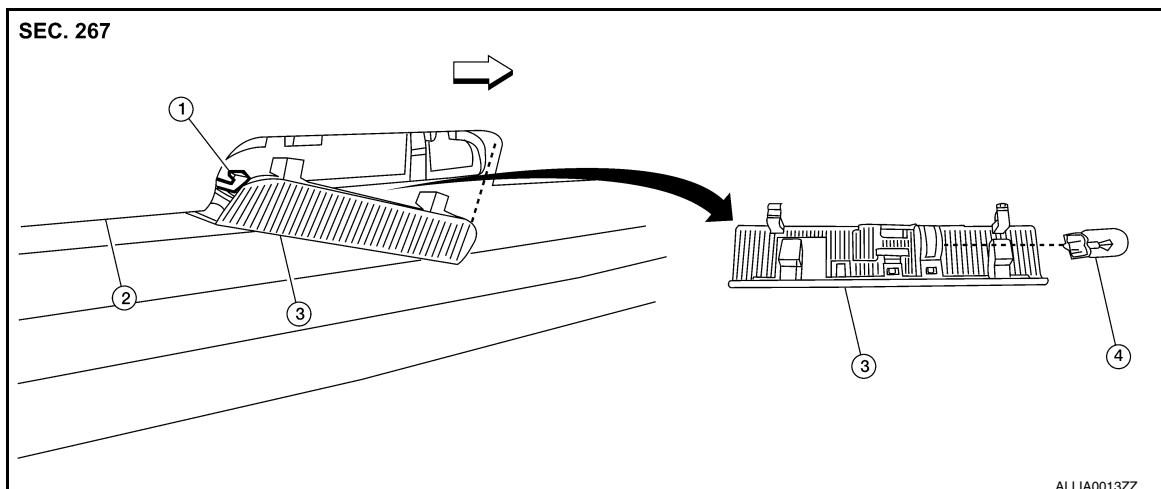
#### **WARNING:**

**Do not touch bulb while it is lit or right after being turned OFF. Burning may result. Caution: -Do not touch glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.**

1. Remove the glove box lamp. Refer to GLOVE BOX LAMP.
2. Pull bulb straight out to remove.
3. Install the new bulb to glove box lamp.
4. Install the glove box lamp lens (2).

## STEP LAMP

### Removal



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## INTERIOR ROOM LAMP

### < REMOVAL AND INSTALLATION >

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1. Step lamp connector
2. Door finisher
3. Step lamp lens/socket
4. Step lamp bulb
- ↳ Front

1. Insert a suitable tool between door finisher and step lamp lens/socket to release the pawls.
2. Disconnect the step lamp connector, then remove step lamp.

#### Installation

Installation is in the reverse order of removal.

#### Bulb Replacement

#### **WARNING:**

**Do not touch bulb while it is lit or right after being turned OFF. Burning may result. Caution: -Do not touch glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.**

1. Remove the step lamp lens/socket.
2. Pull the bulb straight out to remove.
3. Install the new bulb to step lamp.
4. Install the step lamp lens (2).

### FOOT LAMP

#### Removal - LH

1. Using a suitable tool, release the foot lamp pawls and remove the foot lamp from the instrument lower panel LH.
2. Disconnect the harness connector and remove the foot lamp.

#### Installation - LH

Installation is in the reverse order of removal.

#### Removal - RH

1. Rotate foot lamp socket counterclockwise to release from the substrate.
2. Disconnect the harness connector and remove the foot lamp.

#### Installation - RH

Installation is in the reverse order of removal.

#### Bulb Replacement

#### **WARNING:**

**Do not touch bulb while it is lit or right after being turned OFF. Burning may result. Caution: -Do not touch glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.**

1. Remove the foot lamp. Refer to FOOT LAMP.
2. Pull bulb straight out to remove.
3. Install the new bulb to foot lamp.
4. Install the foot lamp lens (2).

### PERSONAL LAMP

#### Removal

The personal lamp is replaced as part of the headlining assembly. Refer to [INT-33, "Removal and Installation"](#).

#### Installation

Installation is in the reverse order of removal.

#### Bulb or Lens Replacement

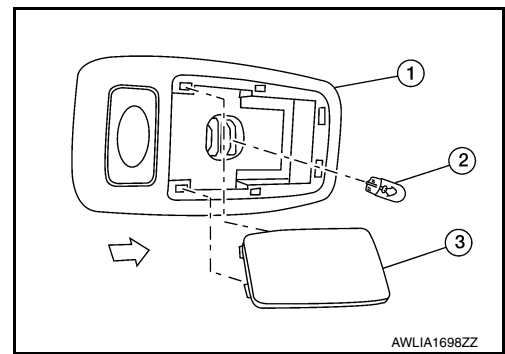
#### **WARNING:**

**Do not touch bulb while it is lit or right after being turned OFF. Burning may result. Caution: -Do not touch glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.**

## INTERIOR ROOM LAMP

### < REMOVAL AND INSTALLATION >

1. Using a suitable tool, release the pawls and remove personal lamp lens (3) from the personal lamp (1).  
⇐: Front
2. Pull bulb (2) straight out to remove.
3. Install the new bulb to foot lamp.
4. Install the foot lamp lens (2).



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# ILLUMINATION

< REMOVAL AND INSTALLATION >

## ILLUMINATION

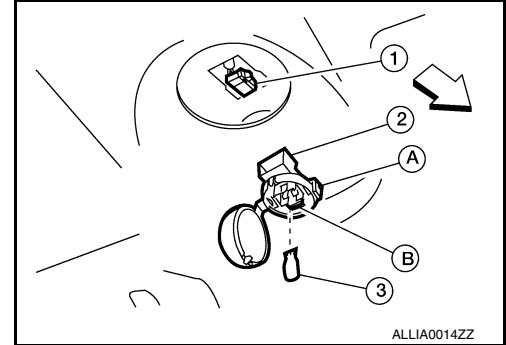
### Removal and Installation

INFOID:000000009465449

#### TRUNK ROOM LAMP

##### Removal

1. Release the tab (A), then swing open the lens.  
↳ Front
2. Remove the bulb (3).
3. Release the tab (B), then pull trunk room lamp (2) away from body opening.
4. Disconnect the connector (1) and remove trunk room lamp.



##### Installation

Installation is in the reverse order of removal.

##### Bulb Replacement

##### **WARNING:**

**Do not touch bulb while it is lit or right after being turned OFF. Burning may result. Caution: -Do not touch glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.**

1. Release the tab (A), then swing open the trunk room lamp lens.
2. Pull bulb (3) straight out to remove.
3. Install the new bulb to trunk room lamp.
4. Install the trunk room lamp lens (2).



# SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

## SERVICE DATA AND SPECIFICATIONS (SDS)

### SERVICE DATA AND SPECIFICATIONS (SDS)

#### Bulb Specifications

INFOID:000000009465450

Item	Type	Wattage (W)	Bulb No.*
Front room/map lamp	Wedge	8	-
Vanity mirror lamp	Cylinder	1.4	-
Glove box lamp	Wedge	3.4	158
Step lamp	Wedge	3.8	194
Foot lamp	Wedge	3.4	158
Personal lamp	Wedge	8	-
Trunk room lamp	Wedge	3.4	158
Front door switch illumination	LED	-	-
Push-button ignition switch illumination	LED	-	-

\* Always check with the Parts Department for the latest parts information.

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